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INDIA WEATHER REVIEW, 1962

Monthly Weather Report

JANUARY

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Chief features :—

(i) Dry weather over most parts of the country during the first three weeks;

(ii) Passage of two active western disturbances across the country later in the month; and

(iii) Moderate to severe cold wave conditions over north India and the central parts of the country during the middle of the month.

A feeble western disturbance which moved across the extreme northern parts of the country between 5th and 7th caused isolated light to very light showers in Kashmir on 6th. Another western disturbance lay over north Baluchistan and adjoining Afghanistan on 10th and moved away eastnortheastwards across the Western Himalayas by 13th. Under its influence, Jammu and Kashmir had local showers of rain or snow on 11th and scattered showers on 12th.

QC 990 .I32 I59 1962

A third western disturbance moved into the northern divisions of West Pakistan on 19th, lay over the Punjabs the next day and moved away eastwards across Western Himalyas by 23rd. It caused fairly widespread rain or snow in Himachal Pradesh and the hills of the Punjab (I) and of west Uttar Pradesh on 22nd; Simla reported 5 cm and Dharamsala 4 cm of rain. The heavy continuous snow in Simla and neighbourhood is reported to have caused considerable dislocation of traffic and communications.

Another western disturbance lay over Baluchistan on 24th. It moved into the Punjabs on 26th and intensified into a depression. It moved away eastwards across the Western Himalayas on 29th. A low pressure area formed over south Rajasthan and neighbourhood on 25th. Proceeding steadily eastwards, it moved away across Assam by 29th. Under the combined influence of the two systems, good rainfall activity occurred over most parts of north India. Rain or snow was fairly widespread in west Uttar Pradesh and the Punjab (I) and occurred locally in Himachal Pradesh on 26th and 27th. Thundershowers occurred at a number of places in west Madhya Pradesh on 25th and 26th. The rainfall belt steadily shifted eastwards and local or fairly widespread showers occurred in east Uttar Pradesh on 26th and 27th, in east Madhya Pradesh and Bihar State on 27th and in Assam, West Bengal and Orissa on 28th. A few noteworthy amounts of rainfall reported were : Roorkee and Banda 7 cm each and Nowgong and Fatehpur 6 cm each on 26th; Dharchula, Najihabad and Dehra Dun 5 cm each on 27th and Mukteswar 6 cm on 30th. According to press reports, telecommunications between hill stations in the Western Himalayas and the rest of the country were dislocated by the heavy snow.

Weather remained dry over the Peninsula during the first three weeks, except for a few showers in the south Madras State on 14th. However, in association with the movement of two easterly waves across the extreme south Peninsula and the Ceylon-Comorin area, Kerala had fairly widespread showers on 26th and local or scattered showers on many days during the last week. Scattered showers are also occurred in the Madras State on many days. Kanyakumari reported 5 cm of rain on 27th and Trivandrum 6 cm on 30th.

Night temperatures were generally below normal over the country outside the south Peninsula during the first fortnight, being appreciably so over the central parts of the country and the north Peninsula on some days. They fell in the wake of the second western disturbance and became markedly below normal in east Rajasthan on 16th. The cold wave extended to south Uttar Pradesh, Bihar Plateau and Gangetic West Bengal by 17th. It abated by 21st.

Cold northerlies swept over northwest India and adjoining north Peninsula in the wake of the third western disturbance, resulting in a moderate cold wave over north Gujarat State and adjoining south Rajasthan on 21st. The cold wave became severe and extended to west Madhya Pradesh and north Maharashtra State on 22nd, when Nasik, Malegaon, Radhanpure, Indore, Jaisalmer and Udaipur reported minimum temperature of 1°c. The cold wave is reported to have caused a few deaths in Gujarat State and considerable damage to crops in Nasik district. Warm southeasterlies that penetrated into the north Peninsula under the influence of a well marked trough in the easterlies arrested its further progress and also weakened the cold spell

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1—565 D. D. G. Obs. Poona/65.

National Oceanic and Atmospheric Administration

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September 14, 1999

Night temperatures fell again in the wake of the last western disturbance. They were below normal in Gujarat State and adjoining areas of Maharashtra State and of west Madhya Pradesh on 26th. The area over which minimum temperatures were below normal gradually extended eastwards. By the end of the month, night temperatures became generally below normal over the whole country outside Assam and the south Peninsula.

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

The mean maximum temperature was above normal in Jammu & Kashmir, below normal in West Bengal, Orissa, Bihar Plateau, Uttar Pradesh, east Madhya Pradesh, coastal Andhra Pradesh and Telangana and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in the Bay Islands, normal in Assam, Sub-Himalayan West Bangal, Jammu and Kashmir, the Madras State, coastal and south Interior Mysore, Kerala and the Arabian See Islands and below normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Bay Islands and east Rajasthan, below normal in Marthwada and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in the Bay Islands, the Madras State coastal and south Interior Mysore, Kerala and the Arabian See Islands, normal in Sub-Himalyan West Bengal, the Konkan, Madhya Maharashtra, Rayalaseema and north Interior Mysore and below normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,
Dated the 2nd May, 1962.

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

Errata to R.F.Rs for the months January, February and March 1962:

January 1962 (Pausa 11 - Magha 11, 1883 Saka)

Page No.	Station	Hour	Column	For	Read
1.	Najibabad	4th Para 12th Line		Najiha-bad	Najibabad
1.	Radhanpur	Last para 4th line		Radhanpure	Radhanpur
2.	Marathwada	4th para 2nd line		Marthwada	Marathwada
2.	Sea	5th para 2nd line		See	Sea
Table I Sub-Division					
3.	15. Madhya Pradesh, West		5	2.4	-2.4
3.	23. Coastal Andhra Pradesh		6	+4	-4
3.	24. Telangana		6	-4	+4
Table II					
4.	Pasighat		14	23	28
4.	Tharsuguda		3	-6.7	-1.7
5.	Forbesganj		9	17	15
5.	Sultanpur		26	0	1
5.	Roorkee		9	16	16,17
6.	Bareilly		3	(Not clear)	-0.8
6.	Bareilly		4	(Not clear)	23.6
6.	Jhansi		3	(Not clear)	-1.1
6.	Gulmarg		1	(R)	Closed during winter months.
7.	Aligarh		19	0.0	0
7.	Karka		22	(Blank)	0
8.	Malegaon		20(a)	1	0
8.	Malegaon		20(b)	8	0
8.	Karanati		19	-1.2	+1.2
8.	Kanker and Jagdalpur	All data given on page No.7			
8.	(Foot note)		-	(Not given)	(j) Mean of 21 days.
9.	Nagarjunakonda		17	12.7	11.7
9.	Nagarjunakonda		24	1	0
9.	Nizamabad		19	+2.6	+2.0
9.	Nagapattinam		16	0.0	0
9.	Gulbarga		17	7	9.7
9.	Gadag		6	15.	15.4
9.	Hassan		23	1	0
9.	Hassan		24	0	1
10.	Bangalore		19	+9	+0.9
10.	Palghat		2	22.8	32.8
10.	Lokpal		6	+11.3	-11.3
10.	Darjeeling		16	+1.7	+1.8
10.	Aizal		15	(Blank)	1
10.	Mahabaleshwar		8	5	6.5
10.	Lachen		6	2.7	-2.7
10.	Lachen		8	6.7	-6.7
10.	Bhimkund		11	1.61	16.1
10.	Sonepur		9	6 days	5 days
11.	Dailekh		1	Dailekh(R)	Dailekh*
11.	Gezing		15	2	3
Table III					
12.	Goalpara	1730	13	8.0	0.8
12.	Gauhati	0830	14	-11	-1.1
12.	Foot note	-	-	(e)Mean of 28 days.	(c)Mean of 28 days.
13.	Imphal (Tulihal)	0830	8	3	8.2
13.	Baghdogra	0530	9	8.4	8.1
13.	Baghdogra	2330	13	1.2	1.3
13.	Cooch Behar	0830	13	1.3	1.2

...2

Page No.	Station	Hour	Column	For	Read
Table III (contd.)					
13.	Cooch Behar	1130	13	1.2	1.3
13.	Malda	1730	5	1012.8	1009.1
13.	Foot note	-	-	(i)Mean of 22 days.	(delete)
13.	Foot note	-	-	(h)Mean of 23 days.	(c)Mean of 26 days.
14.	Midnapore	0830	21	0	2
14.	Keonjhargarh	0830	9	8.3	8.5
14.	Keonjhargarh	1730	9	8.5	8.3
14.	Balasore	0830	18	29	28
15.	Titlagarh	0830	1	Tittagarh	Titlagarh
15.	Bhubaneswar	1130	15	1 3	10.3
15.	Jamshedpur	0830	10	(Blank)	1
16.	Darbhanga	0830	14	-0.2	-1.2
16.	Gaya	0230	17	Blank	0
17.	Fatehpur	0830	4	1916.9	1016.9
17.	Allahabad (Bamhrauli)	0830	5	1005.2	1005.3
17.	Varanasi (Babatpur)	1730	18	2	29
17.	Mainpuri	1730	22,23	2,1	3,0
18.	Patiala	1730	5	84.7	984.7
19.	Leh	0530	9	-2.13	-21.3
19.	Jammu (Aerodrome)	0530	2	1730	0530
19.	Churu	1730	19	1.7	17
20.	Ajmer	0830	12	+1.0	+10
20.	Chambal (Rawat Bhatta Dam)	1730	4	1212.5	1012.5
22.	Pendra	0830	12	12	-12
22.	Ahmadabad	0530	4	1033.3	1013.3
22.	Ahmadabad	1130	28	0	1
23.	Kandla (Aerodrome)	1730	21	(Blank)	1
23.	Bombay (Santa Cruz)	0230	3	15	14
23.	Harnai	0830	6	0.8	-0.8
23.	Harnai	1730	23	(Blank)	0
24.	Poona (Aerodrome)	1730	15	2.2	12.2
24.	Aurangabad (Chikalthan)	0530	27	6	26
24.	Aurangabad (Chikalthan)	0830	20	(Blank)	0
24.	Aurangabad (Chikalthan)	1130	21	(Blank)	5
25.	Parbhani	0830	20	8	6
25.	Parbhani	1730	20,22	14,6	6,2
25.	Nander	0830	5	9743.	974.3
25.	Nander	0830	20	0	8
25.	Bir	1730	20	1	14
25.	Nidadavole	0830	24	8	0
26.	Nellore	0830	6	..	-1.2
26.	Ramgundam	0830	6	-1.2	..
26.	Nizamabad	1730	5	907.7	967.7
26.	Tiruppattur	0830	28	(Blank)	0
27.	Salem	0530	1	(Not clear)	Salem
28.	Mysore	0830	3	167	767
28.	Mysore	0830	10	9.3	19.3
29.	Dharmsala	1730	9	-2.9	2.9
29.	Joshimath	0830	7,8	-4.0,0.3	4.0,-0.3
29.	Mussoorie	1730	9	-1.4	1.4
29.	Mahabaleshwar	0830	14	+0.6	-0.6
29.	Mahabaleshwar	1730	22	(Blank)	3
30.	Hirakud	0830	5	997.0	997.9
30.	Hirakud	1730	28	0	1
30.	Khijrawan	1730	19	(Blank)	0
30.	Thikri	0830	25	0	..

Page No.	Station	Time in I.S.T.	Ht. in Km	Entry Under Column	Existing entry	Correct entry
Table IV						
40.	Gaya	1730	7.2	D	284	285
45.	Port Blair	1130	4.5	D	086	085
47.	Visakhapatnam	2330	4.5	n	1.3	13
Table V						
48.	Bahraich	1730	10.5	Ht. in Km.	1.05	10.5
RADIOSONDE DATA						
51.	Ahmedabad	00 GMT	Standard pressure Surface	Standard pressure Surface	900	900
51.	Ahmedabad	00 GMT	850 mb.	Max.	298	293
53.	Visakhapatnam	00 GMT	125 mb.	No. of Obs.	21	24
55.	Jodhpur	12 GMT	150 mb.	Max.	225	224
55.	Jodhpur	12 GMT	150 mb	Min.	105	205

February 1962 (Magha 12 - Phalguna 9, 1883 Saka)

Page No.	Station	Hour	Column	For	Read
57.	Second para 4th line			Through	trough
57.	7th para 1st line, last word			continue	continued
Table I Division					
59.	8. Rajasthan		4	-1.0	+1.0
59.	15. Kerala		4	-0.6	+0.6
Table II					
61.	Hazaribagh		19	+2.5	-2.5
61.	Ranchi Aerodrome		2	52.2	25.2
61.	Jamshedpur		20(a)	1	0
61	Jamshedpur (P.B.O)		20(a)	0	1
61.	Patna		25	4	1
61.	Gaya		3	+0.3	-0.3
61.	Kanpur		4	29.	29.9
61.	Kanpur		9	2,5	2,15
62.	Fatehpur		20(a)	(Blank)	0
62.	Amritsar (Rajasansi)		11	34.0	34.9
62.	Karnal		21	..	0
62.	Leh		8	14.0	-14.0
63.	Barmer		3	+1.3	+1.8
63.	Munabao		18	(Not clear)	6.5(g)
64.	Bhavnagar Aerodrome		25	0	1
64.	Bombay		28	8	0
64.	Khandala		23	0	..
64	Poona		22	1	0
64.	Baramati		20(b)	8	0
64.	Baramati		24	1	0
64.	Sholapur		20(b)	0	3
66.	Mangalore (Bajpe)		24	4	0
66.	Alleppey		19	-0.2	+0.2
66.	Kohima		20(a)	(Blank)	0
67.	(Reading)		22	Hail	Hail
67.	Mahabaleshwar		1	Mahabaleshwa	Mahabaleshwar
67.	Mercara		27	(Blank)	0
67.	Katmandu		28	(Blank)	0
67.	Hirakud		1	Hirakund	Hirakud
67.	Bhimkund		1	Bhimkud	Bhimkund

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Page No.	Station	Hour	Column	For	Read
Table III					
69.	Nancowry	0830	9	22.3	23.3
69.	Pasighat	1730	26	26	6
69.	Gohpur	1730	7	29.9	20.9
69.	Majbat	0830	28	0	3
70.	Dhubri (Rupsi)	1130	4	1054.9	1014.9
70.	Silchar	1730	4	1512.7	1012.7
70.	Agartala	1130	9	21.2	12.2
70.	Agartala	2330	2	0230	2330
70.	Baghdogra	1730	10	7.8	17.8
71.	Berhampore	0830	17	(Blank)	0
72.	Bhubaneswar	0230	15	3.0	5.1
72.	Bhubaneswar	0530	15	5.1	5.0
72.	Bhubaneswar	0830	15	5.0	4.8
72.	Bhubaneswar	2330	24	1	10
72.	Puri	0830	15	8.7	8.9
72.	Ranchi	1730	19	(Blank)	2
72.	Foot note	-	-	(g)Mean of 22 days.	(R) Register not recei
73.	Patna (Aerodrome)	1130	17	0	1
73.	Patna (Aerodrome)	1130	19	0	2
73.	Bhagalpur	0530	27	41	14
73.	Bhagalpur	2330	27	01	10
73.	Jamui	0330	1	Jamai	Jamui
73.	Gorakhpur	0830	6	-0.5	+0.5
74.	Kanpur	1730	4	1011.5	1014.5
74.	Roorkee	1730	4	1004.6	1014.6
74.	Meerut	0830	13	0.2(d)	0.2
74.	Bareilly	0830	7	14.4	15.4
74.	Bareilly (P.B.O)	1130	23	0	1
74.	Bareilly (P.B.O)	2330	8	3.6	13.6
75.	Ferozepur	1730	10	13.4	13.6
75.	Chandigarh	1730	11	52	51
75.	Hissar	0830	7	12.5	12.1
76.	Mandi	1730	4	1012.2	1012.8
76.	Leh	0530	5	664.8	664.3
76.	Srinagar (Aerodrome)	0830	22,23,24	4,3,2	3,4,1
76	Srinagar (Aerodrome)	1730	2	173	1730
76.	Churu	1730	9	7.	7.4
76.	Bikaner	1730	9	(Not clear)	2.3
76	Bikaner(P.B.O)	0530	9	(Not clear)	4.7
76.	Bikaner (P.B.O)	2330	5	989.9	989.4
77.	Dholpur	0330	7	14.1	14.4
77.	Gwalior	0230	27	(Blank)	21
78.	Guna	1130	9	8.9	7.9
80.	Bombay (Santacru)	0230	3	15	14
82.	Yeotmal	1730	25	14	4
82.	Chanda	1730	21	8	7
82.	Ongole	1730	7	27.	27.5
82.	Ongole	1730	16	Blank	0
82.	Foot note	-	-	(e)Mean of 27 day	(e)Mean of 26 days.
83.	Kurnool	0830	6	+2.5	+1.5
83.	Anantapur	0830	6	+2.3	+1.2
83.	Cuddapah	0830	12	-1.0	+10
83.	Madras (Minambakkam)	0830	12	-3	-1
83.	Cuddalore	1130	8	23.1	23.4
84.	Salem	0830	6	..	+0.3
84.	Tiruchchirappalli	0530	9	20.9	20.6
84.	Vedaranniyam	1730	9	23.5	21.9
85.	Mangalore	1730	5	006.6	1006.6
85.	Cudag	0830	14	+0.2	-0.2

Page No.	Station	Hour	Column	For	Read
85.	Mysore	0830	14	-0.5	+0.5
85.	Calicut	0830	12	+[illegible]	-2
86.	Dharmsala	1730	7	14.3	14.6
86.	Lokpal	0830	17	0	..
86.	Mussoorie	0830	4	15 8.7	1518.7
86.	Darjeeling	0830	2	0830	+0830
86.	Darjeeling	1730	2	1730	+1730
86.	Kohima	0830	1	Kohima	Kohima
86.	Kohima	1730	1	Kohima	Kohima
86.	Mercara	0830	17	0	6
86.	Mercara	1730	17	0	4
86.	Foot note	-	-	(e)Mean of 27 days	(e) Mean of 26 days.
86.	Foot note	-	-	†Observations for 26 days	† Observations for 26 days.
87.	Coonoor	0830	2	0830	(R)0830
87.	Hirakud	0830	25	(Blank)	0
8[illegible]	Mukhim	0830) 1730)	2	(Not given)	(R)0830 (R)1730
8[illegible].	Tehri	0830) 1130) 1730)	2	(Not given)	(R)0830 (R)1130 (R)1730
[illegible]	Foot note	-	-	(Not given)	(R)Register not received.
88.	Mansiari	0830	2	0830	(R)0830
88.	Mansiari	1730	2	1730	(R)1730

Page No.	Station	Time in I.S.T	Height in Km.	Entry Under Column	Existing entry	Correct entry
90.	Jagdalpur	Approximate times of flight (IST)		0530,	1730	0530, 1730 and 2330
90.	Raipur	Approximate times of flight		1130		Delete 1130
90.	Raipur	Approximate times of flight		1730*		1730
Table IV						
93.	Bangalore	Time in I.S.T.	Time in I.S.T.	0530		0530 @
91.	Bhubaneshwar.	2330	2.1	D	309	309
99.	Jodhpur	1730	5.4	D	2 6	276
99.	Jodhpur	1130	7.2	D	309	305
102	Poona	2330	0.15 e.g.	D	486	286
1[illegible]	Vengurla	1730	9.0	V	19.9	19.5
104	Vengurla	1730	9.0	V	19.9	19.5
Table V					Blank	
105	Gauhati	0530	12.0		Blank	5
105	Gauhati	0530	14.1	D	Blank	2
105	Gauhati	0530	16.2	D		1
105	Gorakhpur	1730	13.0	D	289	29[illegible]
105	Madras/Minamba-kkam	1130	16.2	V	7.9	9.7
10[illegible]	Vishakhapatnam	0530	Ht. in Km.		Blank	16.3
TABLE VI - RADIOSONDE DATA						
109	Nagpur	00 GMT	Surface pressure		978.8	978
109	New Delhi	00 GMT	700 mb.	Ht. gpm.	8094	3094

March 1962 (Phalguna 10, 1883 - Chaitra 10, 1884 Saka).

Page No.	Station	Hour	Column	For	Read
116	Under column 'Nature of precipitation'			Local	Local
116	Under column 'Nature of precipitation' 5th item Fairly widespread etc.				Fairly widespread etc
Table I - Division					
117	4. Bihar		8	+0.1	-0.1
117	6. Punjab (India) (Including Himachal Pradesh and Delhi)*		9	-0.1	(delete)
117	13. Madras State		5	22.1	22.8
Table I - Sub-division					
117.	7. Bihar Plains		4	-0.9	-0.6
Table II					
118	Port Blair		3	+0.1	+1.0
118	Silchar		11	10.3	10.8
119	Gonda		19	+1.1	+0.1
119	Kanpur		16	+0.8	-0.8
119	Kanpur (Aerodrome)		28	1	0
119	Varanasi		16	-0.1	+0.1
120	Bareilly		6	5.4	15.4
120	Aligarh		6	14.	14.4
120	Mainpuri		7	(Blank)	+0.4
120	Pathankot		16	+1.9	-1.9
120	Halwara (Aerodrome)		22,23,24	0,1,5	1,5,0
120	Chandigarh		23,24	0,1	1,0
120	Ambala		17	7.6(g)	7.6
120	Hissar		12	-5.7	-5.9
120	Jammu (Aerodrome)		22,23,24, 25	5,0,1,0	0,5,0,1
120	Jammu (Aerodrome)		28	0	3
120	Churu		22,23	4,1	0,4
120	Churu		25	0	1
120	Phalodi		12	-11.8	+11.8
120	Jaisalmer		11	01.5	11.5
120	Pilani		14	(Blank)	5
121	Kota		9	7,6	6,7
121	Guna		16	+0.9	-0.9
121	Nimach		7	-0.6	+0.6
121	Nimach		11	3.2	13.2
121	Jabalpur		12	+0.8	+9.8
121	Dohad		10	0	1.0
121	Naliya		11	3.8	0
121	Bhuj (Rudramata)		11	c	3.8
121	Bhuj (Rudramata)		12	1.0	+1.0
121	Bhuj (Rudramata)		19	1.1	-1.1
122	Kandla		17	.6(m)	17.6 (m)
122	New Kandla		17	2.7	12.7
122	Rajkot		21	1	0
122	Mahuva		18	10.0(a)	10.0
122	Deolali (Aerodrome)		2	252	35.2
122	Sholapur		2	38.8	36.8
122	Miraj		3	-0.9	+0.9
122	Nander		7	-0.3	..
122	Bir		7	-0.5	..
122	Akola		7	+0.1	-0.1
122	Sironcha		7	-1.4	-0.4
123	Vishakhapatnam		6	20.0	22.0
123	Gannavaram		6	29.6	21.9
123	Nizamabad		23	0	1
123	Hanamkonda		7	..	+0.1
123	Hanamkonda		23	1	0
123	Hakimpet Aerodrome		4	32.6	36.2
123	Hakimpet Aerodrome		7	-0.5	..
123	Bhadrachalam		7	..	-0.5
123	Bhadrachalam		29	(Blank)	0

Page No.	Station	Hour	Column	For	Read
123	Khammam		7	+0.5	..
123	Khammam		20(b)	2	0
123	Khammam		29	(Blank)	0
123	Mahbubnagar		7	+0.8	..
123	Kurnool		7	-0.4	+0.5
123	Anantapur		7	+0.4	+0.8
123	Cuddapah		7	+0.3	-0.4
123	Arogyavaram		29	(Blank)	0
123	Cuddalore		22	(Blank)	0
123	Kallakkurichchi		22	(Blank)	0
123	Salem		19	+8.4	+4.8
123	Bellary		19	+1.6	+1.7
124	Shimoga		16	..	+0.1
124	Shimoga		19	-097	-0.7
124	Calicut		7	-0.1	+0.1
124	Simla		3	+0.1	-0.1
124	Lokpal		2	2.7	-2.7
124	Lokpal		4	0.7	-0.7
124	Mahabaleshwar		24	0	1
124	Katmandu		20(a)	1	0
124	Lachen		8	0.6	-0.6
125	Walungchung Gola		8	5.8	-5.8
125	Bhoipur		1	Bhujpur (k)	Bhujpur (k)
125	Gangtok		18	..	5.2
125	Foot note		-	(k)Mean of 20 days	(k)Mean of 20 days.
Table III					
126	Car Nicobar	0830	1	Nicobar	Car Nicobar
126	Nancowry	0930	23	2	0
126	Gohpur	1730	27	1	0
126	Rangia	0830	13	0.3( )	0.3(a)
127	Gauhati (Bhorjor)	1130	2	113	1130
127	Dhubri	0830	14	+1.5	-1.5
127	Imphal (Tulihal)	0830	14	+1.4	-1.4
128	Sandheads	2330	11	8	81
129	Ranchi Aerodrome	1730	2	1730	† 1730
129	Foot note	-	-	(a)Mean of 30 days.	(a)Mean of 30 days.
129	Foot note	-	-	(Not given)	† Observations for 21 days.
130	Dhaibasa	0830	14	+0.3	-0.3
130	Motihari	0830	15	0.8	0.8(0)
130	Bhagalpur	0530	22	0	1
130	Bhagalpur	0830	28	0	2
130	Bhagalpur	2330	23	0	2
130	Sabaur	0830	22,23	2,0	0,1
130	Gaya	0530	23	2	7
130	Gaya	0830	23	2	1
130	Gorakhpur	0830	6	-1.8	-0.4
130	Gorakhpur	1730	20,21,22	1,0,1	0,1,0
130	Gorakhpur	1730	28	0	10
130	Gorakhpur (P.B.O)	0230	20	0	1
130	Foot note	-	-	(Not given)	(o) Mean of 16 days.
130	Foot note	-	-	(Not given)	(i)Mean of 22 days.

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Page No.	Station	Hour	Column	For	Read
Table III(contd.)					
131	Dehra Dun	0830	23	0	5
131	Bareilly (P.B.O)	2330	17	0	1
131	Aligarh	1730	17	(Blank)	0
131	Aligarh	1730	18	(Not clear)	31
133	New Delhi(Safdarjung)	2330	14	-0.3	..
133	Srinagar	0830	14	-4	-0.4
133	Srinagar Aerodrome	2330	7	6.1	7.1
133	Jammu	0830	1	*830	0830
133	Jammu (Aerodrome)	0530	2	5030	0530
133	Churu	0830	5	1008.7	980.0
133	Churu	1730	4	1013.7	1008.7
133	Churu	1730	5	976.0	976.4
134	Ajmer	0830	5	985.2	958.2
134	Ajmer	0830	8	19.2	13.2
135	Udaipur	1730	5	944.3	944.4
135	Nimach	1730	9	0.6	-0.6
135	Bhopal (Bairagarh)	2330	19	2	3
135	Ujjain	0830	1	Ujjain	Ujja[illegible]
135	Satna	0530	1 to 28	all data	delete
135	Satna	0830	1 to 28	all data	delete
136	Jabalpur	1730	9	8.8	8.6
137	(Heading)	-	(Heading)1883 Saka)		1884 Saka)
138	Bombay (Santacruz)	0230	3	15	14
138	Bombay (Santacruz)	1730	28	(Blank)	0
138	Poona	2330	27	8	28
138	Jour	0830	27	25	5
139	Nagpur (Sonegaon)	0530	2	0330	0530
140	Kakinada	0830	12	+7	-7
140	Gannavaram	1730	4	1008.2	1008.7
140	Hakimpet Aerodrome	0830	8	18.1	18.4
140	Hyderabad (Begampet)	0530	27	1	11
140	Mahabubnagar	1730	27	(Blank)	1
140	Cuddapah	0830	12	-	-6
141	Arogyavaram	0830	10	1.50	15.0
141	Madras	0830	2	1730	0830
141	Cuddalore	0830	26,27	0,0	8,11
141	Kallakkurichchi	0830	26,27	0,0	4,20
141	Salem	0530	28	1	0
141	Salem	0830	6	..	+0.3
141	Salem	0830	10	22.2	20.2
141	Salem	1130	27	1	11
141	Coimbatore (Pilamedu)	0530	6	-0.5	..
141	Coimbatore (Pilamedu)	0530	15	5.9	5.0
141	Coimbatore (Pilamedu)	0530	26,27	0,1	2,8
141	Coimbatore (Pilamedu)	0830	27	0	1
141	Coimbatore (Pilamedu)	1730	27	6	0
141	Coimbatore (Pilamedu)	2330	27	0	6
141	Coimbatore	1730	4	1006.3	1006.2
141	Tiruchchirappalli	0230	2	2330	0230
141	Tiruchchirappalli	0230	3	,,	88
141	Tiruchchirappalli	0530	17	20	0
141	Tiruchchirappalli	0830	17	1	0
141	Vedaranniyam	1730	28	1	0
141	Madurai	0830	10	20.6	26.6
141	Madurai	0830	12	+4	+6
141	Madurai(Aerodrome)	0530	3	102	131
142	Palayankottai	0830	6	-0.3	+0.3
142	Honavar	1730	15	1.5	10.5
142	Mangslore (Bajpe)	2330	26	3	8
142	Mangalore	1730	26	7	8
142	Bijapur	0830	8	16.8	16.3

Page No.	Station	Hour	Column	For	Read
Table III(contd.)					
142	Bellary	0830	4	1010.0	1011.0
142	Bellary	1730	9	29.6	20.6
142	Shimoga	0830	2	8030	0830
142	Agumbe	0830	3	,,	..
142	Hassan	0830	22	(Blank)	5
142	Bangalore	1730	4	150	1504.0
143	Foot note	-	-	December 1961 issue etc.	December 1962 issue.
144	Shillong	0830	2	1730	0830
144	Shillong	1730	2	0830	1730
144	Cherrapunji	0830	28	0	3
144	Kodaikanal	1130	16	..	0
145	Walungchung Gola	1730	8-11	Data with (c)	data with (e)
145	Foot note	-	-	(c)Mean of 26 days.	(e)Mean of 26 days.

Page No.	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
151	Aurangabad/ Chikalthan	1730	7.2	[illegible]	3	2
157	Jagdalpur	1730	4.5	D	74	274
157	Jagdalpur	1730	5.4	D	1	271
157	Jagdalpur	1730	6.0	D	2 7	267
RADIOSONDE DATA						
167	Allahabad/ Bamrauli	00 GMT	125 mb.	Min.	261	201
168	Nagpur	00 GMT	Surface pressure		973	975
170	Gauhati	12 GMT	600 mb	Dew point	255.2	255.3

172 After table the following note may be read :

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

=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0=0

SG. 12-12

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—JANUARY, 1962 (PAUSA 11—MAGHA 11, 1883 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %. 0830 hrs. IST.	Relative humidity %. 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
Assam (Including Manipur, Tripura).	23.9	120	22.7	9.1	82	65	2.2	2.2
	+4.0		—0.4	—0.3	—4		—0.6	
West Bengal	15.8	130	23.9	10.6	70	55	0.8	1.0
	+3.6		—1.6	—1.4	—4		—0.8	
Orissa	8.3	83	25.3	12.0	68	53	0.7	1.1
	—1.7		—2.0	—2.4	—5		—1.1	
Bihar	12.8	74	23.0	8.5	68	53	0.8	1.0
	—4.5		—1.0	—1.5	—5		—1.0	
Uttar Pradesh	41.8	185	21.1	6.6	78	52	1.2	1.4
	+19.2		—1.3	—1.3	+2		—0.9	
Punjab (India) (Including Himachal Pradesh Delhi.)*	41.0	99	19.3	4.7	80	53	2.1	1.8
	—0.5		—0.7	—1.5	+1		—0.8	
Jammu and Kashmir	12.3	26	8.9	—8.5	71	55	4.1	4.4
	—34.9		+1.6	—0.5	—1		—1.9	
Sub-Division								
Bay Islands	177.7	391	29.1	23.4	81	85	6.3	6.7
	+132.2		+0.1	+1.4	+10		+2.9	
Assam (Including Manipur, Tripura).	23.9	120	22.7	9.1	82	65	2.2	2.2
	+4.0		—0.4	—0.3	—4		—0.6	
Sub-Himalayan, West Bengal.	21.9	186	22.0	9.1	79	66	1.3	1.7
	+10.1		—1.7	—0.7	—1		—0.3	
Gangetic, West Bengal.	13.6	111	24.4	11.1	67	52	0.7	0.8
	+1.3		—1.5	—1.6	—5		—1.0	
Orissa	8.3	83	25.3	12.0	68	53	0.7	1.1
	—1.7		—2.0	—2.4	—5		—1.1	
Bihar Plateau	11.9	64	23.3	8.5	64	48	0.7	1.0
	—6.7		—1.3	—1.9	—5		—1.2	
Bihar Plains	13.3	81	22.7	8.5	73	57	0.9	1.0
	—3.2		—0.7	—1.1	—4		—0.7	
Uttar Pradesh, East.	32.2	163	21.5	7.2	79	53	1.3	1.2
	12.4		—1.5	—1.2	+1		—0.6	
Uttar Pradesh, West.	55.0	208	20.6	5.8	76	50	1.0	1.6
	+28.6		—1.1	—1.5	+3		—1.3	
Punjab (India) Including Delhi).	41.0	99	19.3	4.7	80	53	2.1	1.8
	—0.5		—0.7	—1.5	+1		—0.8	
Himachal Pradesh.	46.7	..	17.0	1.8	97	53	5.9	2.5
	..		..	..	..		..	
Jammu and Kashmir.	12.3	26	8.9	—8.5	71	55	4.1	4.4
	—34.9		+1.6	—0.5	—1		—1.9	
Rajasthan, West	3.1	46	23.5	5.9	56	27	0.9	1.2
	—3.7		+0.5	—1.7	—4		—1.6	
Rajasthan, East	0.3	4	23.4	5.6	64	27	0.7	0.8
	—7.9		—0.3	—2.7	+8		—1.1	
Madhya Pradesh West.	14.1	127	24.8	7.5	59	35	0.8	0.9
	+3.0		—1.0	2.4	—3		—1.1	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %. 0830 hrs. IST.	Relative humidity %. 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	1.8	24	23.4	5.7	60	27	0.8	1.0
	—5.6		+0.1	—2.2	+2		—1.4	
9. Madhya Pradesh	9.8	68	24.9	8.1	62	36	0.8	1.0
	—4.7		—1.0	—2.2	—4		—1.1	
10. Gujarat State.	0	0	27.4	10.7	59	35	0.6	0.5
	—1.7		—0.7	—1.9	0		—0.6	
11. Maharashtra State	2.0	42	29.1	13.0	58	36	1.3	1.4
	—2.8		—0.4	—2.0	—3		—0.2	
12. Andhra Pradesh	1.3	18	28.6	15.5	72	46	1.6	1.6
	—5.9		—1.1	—1.6	—2		—0.6	
13. Madras State	14.8	42	29.0	20.4	77	61	5.2	4.8
	—20.6		—0.3	—0.1	—3		+1.8	
14. Mysore	0.9	25	29.5	15.7	69	43	3.0	3.0
	—2.7		—0.4	—0.8	+2		+0.9	
15. Kerala	40.1	240	31.6	22.7	70	64	4.2	4.3
	+23.4		+0.4	+0.4	—5		+1.6	
Sub-Division—*contd.*								
16. Madhya Pradesh (East).	4.3	23	25.0	8.7	66	38	0.8	1.1
	—14.4		—1.1	—1.9	—5		—1.1	
17. Gujarat Region	0	0	29.1	10.3	57	24	0.5	0.4
	—1.8		—0.7	—2.0	—4		—0.7	
18. Saurashtra and Kutch.	0	0	26.4	11.0	60	41	0.7	0.6
	—1.6		—0.7	—1.9	+2		—0.5	
19. Konkan	1.8	95	29.0	17.2	67	58	1.6	1.4
	—0.1		0	—1.4	—1		+0.1	
20. Madhya Maharashtra	0.3	11	30.0	11.0	54	27	1.5	1.6
	—2.5		—0.3	—2.2	—2		+0.1	
21. Marathwada	0.8	11	29.2	11.7	45	27	1.2	1.7
	—6.3		—0.5	—1.9	—7		—0.4	
22. Vidarbha	4.7	49	28.2	12.0	57	31	1.0	.2
	—4.9		—0.8	—2.2	—4		—0.8	
23. Coastal Andhra Pradesh.	2.2	24	27.9	16.3	73	57	1.7	1.7
	—6.9		—1.1	—2.0	+4		—0.8	
24. Telangana	0.9	16	28.6	14.1	73	36	1.6	1.0
	—4.7		—1.3	—1.5	—4		—0.5	
25. Rayalaseema	0	0	30.0	16.4	66	39	1.6	2.1
	—5.9		—1.0	—1.1	—4		—0.2	
26. Madras State	14.8	42	29.0	20.4	77	61	5.2	4.8
	—20.6		—0.3	—0.1	—3		+1.8	
27. Coastal Mysore	0.5	19	31.8	19.2	68	58	3.0	2.4
	—2.1		+0.4	—0.9	—3		+0.9	
28. Interior Mysore, North.	0.1	2	29.0	14.7	65	39	1.7	2.1
	—4.3		—0.9	—1.3	+4		+0.2	
29. Interior Mysore, South.	1.8	51	28.6	14.9	74	41	4.2	4.2
	—1.7		—0.3	—0.4	+3		+1.7	
30. Kerala	40.1	240	31.6	22.7	70	64	4.2	4.3
	+23.4		+0.4	+0.4	—5		+1.6	
31. Arabian Sea Islands.	11.1	35	30.9	23.3	77	67	5.7	5.9
	—20.5		+0.9	+0.1	+4		+2.9	

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

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Fine squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28·4	..	29·1	7,19	23·0	..	19·3	15	1.2	15·8	..	11.0	1	2	..	14·5	12·7	..	0	3	0	0	0	0	0	0	0	0	0
Long Island	28·8	..	30·3	12	23·1	..	18·7	16	29.8	148·6	..	62·5	1	9	..	4·9	3.5	..	0	9	0	0	1	0	0	0	0	0	0
Port Blair	29·1	+0·1	30·6	22	23·4	+1·4	18·8	15	55.3	177·7	+132.2	47·8	2	9	+6·7	10.5	9.6	−1.1	1	12	0	0	0	1	0	0	0	0	0
Car Nicobar	29·1	..	30·1	21	24·4	..	20·6	16	29·8	100·2	..	23·8	29	8	..	6.8	1.5	..	0	15	0	0	1	0	0	0	0	0	0
Nancowry	30·9	..	32·8	13	24.5	..	22·1	24	48·0	248·9	..	74·8	29	12	..	0·6	0·5	..	0	15	0	0	0	0	0	0	0	0	0
Kondul	28·1	..	29·9	3	24·3	..	21·6	24	165.2	357·0	..	57·8	28	16	..	..	..	..	1	16	0	0	1	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	21·4	..	25.3	23	11·5	..	8·8	4	18·6	37·2	..	15·0	23	4	..	10.3	15·1	..	1	5	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari)	21·9	+0.3	25.1	27	7·8	−0·3	3·7	5	8·5	42·4	+0·7	20·4	28	4	+0.3	4 5	2·3	+0·2	0	7	0	0	4	0	0	0	0	0	0
Dibrugarh (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Digboi (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	22·1	−0.7	24·6	12,26	8·2	−0·7	4.2	5	20·0	73·2	+34·1	32·0	28	5	+1.7	4·1	2·3	..	1	9	0	0	1	0	0	0	0	0	0
Sibsagar	22·5	+1·1	25·1	12,27	9·0	−0·8	5·9	4	2·1	23·1	−7·6	19·4	28	2	−1·5	3·3	1·7	−0·1	0	4	0	0	0	0	0	0	0	0	0
Gohpur (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Majbat	..	..	..	..	..	..	..	..	24·2	59·1	..	30·2	28	4	..	5·2	2·3	..	0	4	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	22·5	..	24·8	24	8·5	..	5·2	4	2·3	18·9	..	16·3	28	1	..	..	..	..	0	3	0	0	0	20	0	0	0	0	0
Tangla	23·9	..	26·7	26	8·1	..	5·3	5,6	4·0	12·0	..	9·5	28	2	..	0·2	0.2	..	0	2	0	0	0	0	0	0	0	0	0
Tezpur	23.1	−0·1	25·0	27	10 9	−0·5	8·9	4days	5·5	22·3	+7·6	19·2	28	1	−0·5	5·6	5·7	+3·0	2	3	0	0	0	0	0	0	0	0	0
Golaghat	23.2	..	25·6	24	9·3	..	6·0	4	0	20·8	..	20·8	28	1	..	..	..	..	0	1	0	0	0	1	0	0	0	0	0
Rangia	24·2	..	26·2	26,28	8·2	..	5·5	5	0	25·3	..	25·3	28	1	..	..	(a) 2·7	..	0	1	0	0	0	0	0	0	0	0	0
Chaparmukh	24·0	..	25·6	4 days	9·7	..	7·7	7days	0·6	17·2	..	17·2	28	1	..	4·7	3·5	..	0	1	0	0	0	0	0	0	0	0	0
Goalpara	24·6	..	26·7	24,26	8·5	..	6·1	16	6 4	13·6	..	9·2	28	2	..	3·1	1.5	..	0	2	0	0	0	0	0	0	0	0	0
Gauhati	23·2	−0.5	26.1	24,25	10·9	+0.3	8.2	5	5·4	10·4	+0.7	10·4	28	2	+0.9	0	0	−1·9	0	1	0	0	0	21	0	0	0	0	0
Gauhati (Bhorjor)	23·3	−0·4	26·4	25	8·2	−0·2	5·4	5	5·4	12·0	+2·3	11·6	28	1	−0·1	5.1	3·1	+1·2	0	2	0	0	0	20	0	0	0	0	0
Dhubri (Rupsi)	23.4	..	26·[illegible]	25	8·5	..	5.4	16	3·2	11·0	..	7·6	27	2	..	4.4	2·4	..	0	2	0	0	0	3	0	0	0	0	0
Dhubri	22·2	−0.8	26.1	24	11·6	−0·2	9·7	3	0	11·6	+3·7	7·4	27	2	+1·2	5·1	3·9	−1·1	0	2	0	0	0	4	0	0	0	0	0
Lumding	23·7	+0·6	26·7	23	11·2	+2·8	8·1	17	16.4	32·8	+13·6	21·4	28	2	+0·6	2·5	1·5	..	0	2	0	0	0	0	0	0	0	0	0
Umroi†	19·7	..	22·4	23	2·9	..	1·5	3	0	0	..	0	..	0	..	8·1	3·6	..	0	0	0	0	0	23	0	0	0	0	0
Tura	22.9	..	25·6	27	9·5	..	6·7	16	8·0	10·2	..	10·0	28	1	.	4·8	6·2	..	1	1	0	0	0	0	0	0	0	0	0
Haflong	20·5	..	23·9	23	10·0	..	7·6	16	0	23·2	+6·4	23·2	28	1	−0·1	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram)	25·3	..	28·4	27	10·2	..	7·2	16	0	19.3	..	19·3	28	1	..	6·1	7·4	..	0	1	0	0	0	0	0	0	0	0	0
Silchar	22·1	−3·5	26.8	23	10.7	−0·6	7·3	17	0	13·4	−6·2	13.4	28	1	−0·5	1·5	1.0	−0·8	0	1	0	0	0	0	0	0	0	0	0
Imphal (Tulihat)	20·3	−0.3	22.9	24,27	3.0	−0.6	−0·9	18	0	7·0	−10·3	7.0	28	1	−0·7	5·9	3·4	−1·5	0	1	0	0	0	12	0	9	0	0	0
Kailashahar	25.3	..	29·1	27	8·0	..	3·6	17	0	14·0	..	14·0	28	1	..	2·5	1·2	..	0	1	0	0	0	1	0	0	0	0	0
Agartala	25.2	−0·3	29 7	27	8·4	−2·0	4·3	17	1·8	14·8	−2·4	14·8	28	1	−0·3	7·5	3·4	−0·4	0	1	0	0	0	2	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	23·1	−0.9	25·7	11	7·0	−1.7	4·5	18	13·1	43·8	+24·9	22·0	27	3	+1.4	8·0	6·0	+2·3	0	3	0	0	0	1	0	0	0	0	0
Jalpaiguri	19·8	−3.8	22·5	8	10·2	−0·4	7·9	1	5·6	21·8	+23·9	15·2	27	2	+1·3	5·5	4.2	+2·8	0	2	0	0	0	4	0	0	0	0	0
Cooch Behar	23·5	..	25·9	26	7·7	..	5·0	1	4·2	17·4	+10·8	13·2	27	2	+1·5	4·7 (f)	1·8 (f)	..	0	2	0	0	0	19	0	0	0	0	0
Balurghat	25·0	..	..	..	7·9	..	4·3	15	0(g)	0(f)	..	..	..	..	..	4·8	2·9	..	..	..	0	0	0	0	0	0	0	0	0
Malda	23·2	−0·4	27·2	26	10·0	0	6·1	16	1·4	4.6	−9·1	3·0	27	1	+0·1	7·3	5·3	+1·0	0	2	0	0	0	1	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	24 4	−0·4	28·8	26	8·8	−3·0	5 2	17	9·1	12·2	+2·5	10.2	28	2	+1·0	3·7	2.1	+0.3	0	2	0	0	0	29	0	0	0	0	0
Suri	23.9	..	27·7	26	10·8	..	6·7	18,19	..	9.0	..	5·8	27	2	..	..	5·8	..	0	2	0	0	0	0	0	0	0	0	0
Asansol	24·0	−1·4	28·3	26	10·8	−0.7	6·8	19	2.2	11·0	−6·0	8.8	27	1	−0·4	9·2	6·1	+0.8	0	2	0	0	0	1	0	0	0	0	0
Santiniketan	24.4	..	28·0	26	19.3	..	5·2	17	6.2	10.8	..	6.8	28	2	..	6·5	5·4	..	0	2	0	0	0	0	0	0	0	0	0
Krishnanagar	24·7	−0·9	29.4	24	9·7	−1 2	5·2	18	18·0	19.0	+7·6	19·0	28	1	+0·1	0·3	0·7	−1·1	0	1	0	0	0	0	0	0	0	0	0
Purulia	23 9	−2·2	28.7	23	10·8	−2·0	5·9	17	1·2	21·6	+12·7	20.4	27	1	−0.1	5·7	3.4	+0.4	0	2	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	11·2	−3·5	9·4	27	1	−0·2	..	..	..	0	2	..	..	..	..	.	..	..	..	.
Burdwan	22·6	−3·5	28 9	24	11·4	−1·2	4·4	17	0.4	1·4	−10.0	1·4	27	0	−0·9	3·5	2·9	+1·0	0	1	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	24·6	..	28·9	24	9·4	..	5·0	17	8·4	10 2	..	10·2	28	1	..	..	..	..	0	1	0	0	0	7	0	0	0	0	0
Calcutta (Dum Dum)	25·5	−0 8	29·6	24	9·9	−2·7	6·1	17	11·8	13·3	+4·7	13·2	28	1	−0·1	6·7	3·2	−0·8	1	1	0	0	0	18	0	0	0	0	0
Calcutta	25.5	−0·9	29·8	24	11·9	−0.7	8·5	18	12·8	14·5	+5·1	14·5	28	1	+0·2	7·2	4·2	+1·0	0	1	0	0	0	7	0	0	0	0	0
Midnapore	25·1	−2·0	29·4	26	11.1	−2·0	7·4	17	11·6	11·6	−0·3	11·6	28	1	+0·1	6·6	3·9	+1·3	0	1	0	0	0	0	0	0	0	0	0
Contai	25·0	−1·8	28·9	24	12·3	−2.3	8·9	17	20·1	20.1	+6.6	20·1	28	1	0	6.3	4.0	−0.2	0	1	0	0	0	12	0	0	0	0	0
Sagar Island	23·6	−1·4	26·3	25	14·3	−0·5	10·7	17	11·2	13·3	+2·9	13·3	28	1	+0·1	15·6	11·2	+2·3	0	1	0	0	0	1	0	0	0	0	0
Sandheads	26·3	..	29·8	19	19.7	..	16·2	28	1·8	2·0	−2·8	2·0	28	0	−0·5	..	..	..	0	1	0	0	0	2	0	0	0	0	0
Orissa																													
Baripada	26·1	..	29·4	24	10·3	..	6·6	17	9·4	9·4	..	9·4	28	1	..	3·9	1·7	..	0	1	0	0	0	0	0	0	0	0	0
Jharsuguda	25·9	−6·7	28·9	24	9·9	−2·8	6·2	4	0	6·3	−9·2	6·3	27	1	−0·3	6·3	4·6	−1·2	0	1	0	0	0	0	0	0	0	0	0
Keonjhargarh	23·8	..	27·8	24	10·1	..	7·5	5	3·0	20·0	..	17·0	27	2	..	4·1	3·2	..	0	2	0	0	0	0	0	0	0	0	0

(R) Register not received

(a) Mean of 30 days.

(g) Total for 24 days.

(f) Total or Mean of 25 days

† Observatory closed on 29-1-62

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Orissa—*Contd.*																														
Balasore	25.8	−1·4	29·7	24	12·0	−1·5	8·6	18	11·0	11·0	−2·5	11·0	28	1	0	6·6	3·6	+0·7	1	0	0	0	0	0	0	0	0	0	0
Sambalpur	26.3	−1·4	29·9	25	19·1	−2·7	6·3	17	0·4	8·8	−2·1	8·4	27	1	+0·1	4·7	2·6	−0·8	0	2	0	0	0	0	0	0	0	0	0
Angul	25.6	−2·1	29·3	24	11·2	−2·2	8·3	17	3·8	3·8	−7·4	3·8	28	1	+0·1	4·9	4·1	−0·7	0	1	0	0	0	0	0	0	0	0	0
Cuttack	27·4	−1·0	30·3	26	15·2	−2·2	9·9	5	0·4	0·4	−7·7	0·4	28	1	+0·3	4·8	2·9	+1·1	0	1	0	0	0	0	0	0	0	0	0
Chandbali	25·7	−1.7	28·6	8	11·7	−2·7	7·8	4	0	17·2	+12·1	17.2	27	1	+0·3	7·9	5·7	−0·1	0	1	0	0	0	0	0	0	0	0	0
Bolangir	26·7	..	29·4	23	11·6	..	7·7	3	1·8	1·8	..	1.8	27	0	..	5·5	4·4	..	0	1	0	0	0	0	0	0	0	0	0
Phulbani	24·5	..	28·1	24,25	5·6	..	1.6	4, 5	3·7	3·7	..	3·7	28	1	..	3·7	1.9	..	0	1	0	0	0	0	0	0	0	0	0
Titilagarh	29·0	..	30·9	18	10·1	..	13·2	29	0	1·3	..	1.3	27	0	..	2·3	1·7	..	0	1	0	0	0	0	0	0	0	0	0
Bhubaneswar	26·6	−2·0	29·9	21	13·8	−2·1	11·2	5	7·1	7·1	−4·5	7·1	28	1	+0.3	8·9	6.8	−2·3	0	1	0	0	0	0	0	0	0	0	0
Puri	25·4	−1·3	27·3	16	15·4	−2.2	12·7	5	15·2	15·2	+4·8	15·2	28	1	+0·4	12·5	12.0	+2·0	0	1	0	0	0	1	0	0	0	0	0
Gopalpur	26·0	−1·0	27·8	15, 24, 25	14·2	−2·6	11·0	4	13.4	13·4	+6·3	13·4	28	1	+0·5	12·3	9·5	−0·3	0	1	0	0	0	0	0	0	0	0	0
Koraput	18·5	−6·7	21·6	22	8·7	−3·3	4·1	8	0	0	−7·1	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bihar Plateau																														
Dumka	24·0	−0·4	27·2	25	9·1	−1·4	4·8	17	1·6	9·4	−7·6	7·8	27	1	−0·3	5·0	3·1	+1·0	0	2	0	0	0	0	0	0	0	0	0
Daltonganj	21·6	−2.8	27·8	13	7·1	−1·5	2·2	17	1.0	10·6	−12·8	10·6	27	1	−0·9	4·8	3·2	+0.3	0	1	0	0	0	0	0	0	0	0	0
Hazaribagh	20·9	−1·3	25·6	22	7·4	−2·8	1·3	17	0	9·0	−13·6	9·0	27	1	−0·9	9·6	6·2	−2·2	0	1	0	0	0	0	0	0	0	0	0
Dhanbad	23·8	..	27·4	23	10·4	..	8·0	5	2·4	11·2	..	8·8	27	1	..	6·4	5·1	..	0	2	0	0	0	3	0	0	0	0	0
Ranchi	22·8	−0·3	26·7	22	7·9	−2·7	5·7	9	0	21·0	−2.4	21·0	27	1	−0·8	3·1	2·3	−3·3	0	1	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	21·7	..	25·3	22	8·6	..	5·3	3,16	..	18·6	..	18·6	27	1	..	11.2	8·1	..	0	1	0	0	0	0	0	0	0	0	0
Jamshedpur	25·6	−1·3	29·4	23	9·6	−1·1	5·7	17	0·4	11·8	+2·7	11·4	27	1	+0·1	5·4	3·4	+1·0	0	2	0	0	0	0	0	0	0	0	0
Jamshedpur (PBO)	24·6	..	28·9	23	9·1	..	4·7	18	1·0	11·0	..	10·0	27	1	+0·4	7·1	4·1	..	1	1	0	0	0	0	0	0	0	0	0
Chaibasa	25·1	−1·1	28·8	26	9·6	−1·7	5·0	6	1·0	9·6	−6·7	8·6	27	1	−0·4	3·3	2·3	+0·2	0	2	0	0	0	0	0	0	0	0	0
Bihar Plains																														
Motihari	18·5	−4·3	..	..	6·2	−2·1	4·4	15 days	0	3·0	−8·9	2·0	22	0	−1·1	(1) 4.7	(1) 2·4	0	0	2	0	0	0	0	0	0	0	0	0
Forbesganj	24·1	..	27·4	11	8·3	..	5·5	17	5·0	16·4	..	14·8	27	1	..	6·8	4·0	..	1	2	0	0	0	10	0	0	0	0	0
Darbhanga	22·7	−0·8	26·1	12	8·4	−1·5	5·4	17	0	22·8	+11·6	20·5	27	1	0	1·8	1·6	−0·7	0	2	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	23·0	+9·8	17·8	27	2	+0·9	..	..	..	0	2	0	0	0	3	0	0	0	0	0
Chapra	22·1	..	25·0	13,23	9.1	..	6·5	20	3·2	15.5	+1·0	15·4	27	1	−0·3	7·1	4·7	..	1	1	0	0	0	1	0	0	0	0	0
Purnea	23·3	−0·4	26·2	12	7·9	−0·8	3·9	17	3·2	9.9	−0·5	9·7	27	1	+0.2	4·7	2·3	0	1	1	0	0	0	0	0	0	0	0	0
Patna	22·4	−0·4	26·2	23	9·6	−1·0	6·0	18	1·6	16·0	+1·0	15·0	27	1	−0·3	6·7	5·4	+1·9	0	2	0	0	0	7	0	0	0	0	0
Patna Aerodrome	22·0	..	24·7	23	7.9	..	3·6	17	2·2	10·0	..	9·4	27	1	..	8·6	4.3	..	0	2	0	0	0	4	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	13·4	−3·6	13·4	27	1	−0·3	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Bhagalpur	22·7	−1·3	26·6	13	10·6	−1·2	6·8	17	1.2	8·3	−26.2	8·3	27	1	−0·8	8·7	6·2	+1·2	0	1	0	0	0	2	0	0	0	0	0
Sabaur	22·6	−0·7	25·7	22	6·8	−0·4	2·2	17	0·7	7·9	−5·8	7·8	27	1	−0·1	8·2	4·3	−0·7	1	1	0	0	0	0	0	0	0	0	0
Jamui	23·4	..	29·6	28	8·9	..	3·8	17	1·4	5·6	..	5·6	27	1	..	7·5	4·4	..	0	1	0	0	0	5	0	0	0	0	0
Dehri	22·6	..	26·7	13	9·8	..	4·8	17	0	7·4	−9·9	5·4	27	1	−0·5	7·1	5·0	..	0	2	0	0	0	0	0	0	0	0	0
Gaya	22·6	−0·9	26·6	22	7·6	−2·0	2·9	17	0·5	9·1	−9·2	9·1	27	1	−0·3	9·7	6·7	+1·6	0	1	0	0	1	0	0	0	0	0	0
Uttar Pradesh (East)																														
Kheri (R)																														
Bahraich	21·4	−1·2	24·5	10	7·3	−1·1	2·8	16	0.6	25·0	+4.2	19·0	26	2	+0·4	7·1	5·1	+2·5	0	3	0	0	0	3	0	0	0	0	0
Nautanwa	22·6	..	28·8	14	7·2	..	3·8	16	11·2	42·4	..	23·6	26	2	..	5·0	2·9	..	0	3	0	0	0	6	0	0	0	0	0
Hardoi	20·9	−1·2	23·3	10	6·8	−1·7	3·1	17	6·0	16·8	−22·0	16·0	26	1	−1·8	..	..	..	1	2	0	0	1	5	0	0	0	0	0
Gonda	21·0	−2·2	23·9	10	7.6	−0.1	3·3	17	7·4	46·4	+33·5	36·4	26	3	+1·8	5·3	4·0	−0·3	0	3	0	0	0	0	0	0	0	0	0
Lucknow	21·0	−2·3	23·3	12	6·7	−1·7	3·3	17	9·1	35·9	+16·6	30·0	26	3	+1·5	3·9	2·9	+0·8	0	3	0	0	0	3	0	0	0	0	0
Lucknow (Amausi)	21·1	−1·8	23·1	12	5·7	−1·9	1·4	17	7·5	35·1	+15·8	34·2	26	1	−0·5	10·9	7·7	..	2	2	0	0	1	4	0	0	0	0	0
Faizabad	21·3	..	23·8	10	7·3	..	3·4	17	8·1	44·5	..	30·1	26	3	..	5·9	3·4	..	1	4	0	0	1	1	0	0	0	0	0
Gorakhpur	22·2	−0·6	25·2	10	7·7	−1·5	5·6	17	10·1	21·5	+6·5	9·9	27	3	+1·7	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Kanpur	21·4	−0·8	24·5	22	7·1	−0·5	3·1	17,18	10.6	49·8	+35·6	41·8	26	2	+0·6	14·2	9·2	+5·5	0	2	0	0	0	7	0	0	0	0	0
Kanpur (Aerodrome)	21·3	..	23·9	22	6·1	..	2.0	16	15·3	53·0	..	48·3	26	2	..	..	..	..	1	2	0	0	1	3	0	0	0	0	0
Sultanpur	21·3	..	24·1	12	8·1	..	3·8	17	19.0	39·4	..	29·4	26	3	..	5·5	3·4	..	0	3	0	0	1	0	0	0	0	0	0
Azamgarh	22·2	..	24·5	13	5·5	..	1·6	17	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	21·5	−2.5	25·0	12	8·0	0	3·6	17	21·0	70·1	+56·4	64.1	26	2	+0·6	8·3	4·8	+1·6	0	2	0	0	0	0	0	0	0	0	0
Ballia	22·8	..	25·6	14,23	8·6	..	4·4	17	6·8	35·2	..	34·6	27	1	..	1·5	1·1	..	0	2	0	0	0	3	0	0	0	0	0
Banda	23·2	..	26·6	22	7·0	..	0·6	18,19	29·2	71·8	..	65·6	26	2	..	5.4	2·7	..	0	2	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	22·8	−1·0	26·1	12	7·0	−1·4	3·3	17	8·1	17·9	−3·7	15·4	26	1	−0.1	6·3	3·7	−0·5	0	3	0	0	1	3	0	0	0	0	0
Varanasi (Babatpur)	21·9	−1·3	24·2	13	7·0	−2·3	2·9	17	3·9	7·8	−15·7	4·0	26	2	−0·1	11·2	8·2	+1·5	0	3	0	0	3	3	0	0	0	0	0
Varanasi	21·6	−1·8	24.7	12	8·1	−0·8	3.3	17	7.7	27·7	+8·9	23·9	27	2	+0·5	7·3	4·6	+1·1	0	2	0	0	0	11	0	0	0	0	0
Uttar Pradesh West																														
Dehra Dun	18·6	−0·3	21·8	10	3·9	−2·8	0.4	16	42·3	101·0	+42·1	46·2	27	3	−0·9	4·5	3.8	+1·4	1	4	0	0	2	0	0	0	0	0	0
Roorkee	18·4	−1·8	21·9	10	5·4	−1·1	1·9	16	30·3	112·6	+70·2	74·4	26	3	+0·2	7.4	4·6	+1·7	0	3	0	0	4	2	0	0	0	0	0
Najibabad	19·5	..	23·3	25	4.9	..	1·2	16	42·4	95·6	..	51·2	27	2	..	5·8	3·1	..	0	2	0	0	1	2	0	0	0	0	0
Meerut	19·8	−1·3	22·2	10	5·4	−1·8	2·2	17	..	77·0	+45·3	54·0	25	2	−0·5	..	..	..	0	2	0	0	0	0	0	0	0	0	0

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1and 0·2mm.)	Precipitation (0·3mmormore)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Fire Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*contd.*																														
Bareilly	20·8	[illegible]	[illegible]	10	7·2	−0·7	4·2	17	30·4	59·4	+34·3	33·4	26	3	+1·1	8·6	5·7	+3·3	0	3	0	1	3	8	0	0	0	0	0
Aligarh	20·7	−0·9	22·9	25	6·0	−1·3	1·1	17	0	27·5	+15·8	27·5	27	1	−0·2	15·2	11·0	+5·7	0	1	0	0	1	1	0	0	0	0	0
Mainpuri	21·8	−1·1	24·3	22	6·4	−1·2	1·9	17	3·6	10·4	−4·1	6·7	26	2	+0·7	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Agra	21·5	−1·1	23·6	12,13	5·5	−1·3	1·4	17	2·4	32·1	+19·2	29·7	26	1	−0·2	3·5	2·6	−1·7	0	2	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	22·0	..	24·0	13	5·2	..	0·7	17	3·7	34·8	..	31·1	26	2	..	..	..	..	0	2	0	0	2	3	0	0	0	0	0
Orai	19·5	..	23·9	7	6·4	..	2·2	17	3·0	26·2	..	24·0	26	1	..	8·0	6·3	..	0	3	0	0	0	0	0	0	0	0	0
Jhansi	23·4	−1·	26·5	13	6·6	−2·0	4·3	16	14·0	20·0	+6·3	14·0	26	2	+0·8	4·3	3·3	−0·2	0	2	0	0	1	0	0	0	0	0	0
Punjab (India) (Including Delhi)																														
Pathankot	17·7	−0·7	21·1	12	4·4	−1·2	1·4	18	28·2	63·0	−29·2	33·6	22	3	−2·2	6·7	5·2	−0·5	0	3	0	0	0	1	0	7	0	0	0
Amritsar (Rajasansi)	18·9	0	22·0	8	3·2	−1·5	−1·7	16	22·0	47·6	+10·5	23·5	26	3	+0·1	8·3	5·9	−0·8	0	4	0	0	1	4	0	0	0	0	0
Adampur (Aerodrome) (R)																														
Ludhiana	19·4	0	22·8	10	3·6	−2·9	−0·6	16	16·5	53·5	+15·2	39·7	26	3	+0·3	7·6	4·5	+2·4	0	4	0	0	1	12	0	0	0	0	0
Ferozepore	19·2	..	23·1	8	3·6	..	1·2	8,16	2·2	17·4	..	10·6	26	2	..	4·9	2·6	..	0	3	0	0	0	4	1	0	0	0	0
Halwara (Aerodrome)	19·0	..	21·5	9	2·6	..	−2·2	16	16·3	91·2	..	79·0	26	2	..	..	..	..	0	4	0	1	3	16	0	0	0	0	0
Chandigarh	19·5	−0·6	22·8	4,10	5·7	−1·6	1·0	18	30·2	53·8	−2·2	23·9	26	3	−1·6	8·4 (g)	5·8 (g)	..	0	4	0	0	0	2	1	0	0	0	0
Ambala	18·4	−2·2	23·4	10	5·7	−0·6	1·7	16	12·5	41·9	+8·4	34·2	26	2	−0·5	3·9	3·5	−0·5	0	3	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	19·1	..	22·2	12	4·7	..	−1·4	17	12·5	33·1	..	19·8	26	3	..	..	..	..	0	4	0	0	3	5	0	8	0	0	0
Patiala	19·2	..	22·8	8	4·9	..	0	17	7·3	32·3	−5·3	26·3	26	2	−1·0	11·5	9·1	..	0	2	0	1	3	2	0	0	0	0	0
Bhatinda	20·7	.	23·3	8,9	3·3	..	0·6	16,19	1·2	18·7	..	17·5	26	1	..	8·1	5·6	..	0	2	0	0	1	5	0	0	0	0	0
Karnal	19·2	..	22·0	13	4·7	..	1·9	17	0·2	15·0	..	7·0	21	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Hissar	20·8	−0·8	23·5	12	4·4	−0·3	1·0	17	2·8	2·8	−9·9	2·8	27	1	−0·4	8·9	7·2	+1·9	0	1	0	0	2	3	0	0	0	0	0
New Delhi (Safdarjung)	20·3	−0·8	23·0	13	5·6	−1·7	1·4	17	2·1	35·2	+8·1	30·0	26	2	0	13·1	10·2	+1·2	0	2	0	0	2	6	0	4	0	0	0
Palam (Aerodrome)	..	..	..	..	4·5	..	−0·7	23	2·3	47·8	..	45·5	26	1	..	..	..	..	0	2	0	0	4	2	0	0	0	0	0
Himachal Pradesh																														
Mandi	17·0	−0·7	22·2	8	1·8	−1·9	−0·3	25	14·3	16·7	−35·3	16·6	22	3	−3·2	3·7	1·6	−0·6	0	4	0	0	0	24	0	0	0	0	0
Bilaspur (R)																														
Jammu and Kashmir																														
Miscar (R)																														
Gilgit (R)																														
Skardu (R)																														
Drass*																														
Sonamarg*																														
Leh	−0·4	+1·0	3·7	10	−13·8	−0·5	−18·1	16	0	2·6	−7·1	2·2	27	0	−1·0	4·7	4·4	+2·6	0	2	2	0	0	0	0	0	0	0	0
Srinagar	8·0	+3·0	11·7	30,31	−3·1	−0·5	−6·2	16	0·7	12·2	−61·5	5·2	27	2	−4·1	4·9	4·1	+0·6	0	4	1	0	0	1	0	16	0	0	0
Srinagar (Aerodrome)	7·6	..	10·8	30	−3·3	..	−6·2	16	1·1	7·4	..	4·1	27	1	..	..	..	..	0	3	2	0	0	0	0	10	0	0	0
Gulmarg (R)																														
Banihal	11·1	..	16·6	9	−0·1	..	−2·7	20	14·7	37·8	..	14·4	12	5	..	..	..	..	0	6	3	0	0	0	0	0	0	0	0
Jammu	19·1	+0·7	25·1	6	..	..	..	..	..	22·0	−36·2	20·1	1	1	−2·4	..	4·2	..	0	2	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	18·1	..	21·2	12	6·4	..	2·2	16	4·8	23·3	..	18·5	26	2	..	..	..	..	0	3	0	0	1	3	0	0	0	0	0
Rajasthan (West)																														
Ganganagar	21·0	+0·6	24·6	9	4·0	−2·4	0·4	16	0	12·8	−2·3	12·8	26	1	−0·6	5·5	3·0	−0·1	0	1	0	0	1	4	0	0	0	0	0
Anupgarh (R)																														
Mahajan	22·5	..	26·1	11	..	..	..	..	0	8·5	..	0	0	0	..	3·8	1·8	..	0	1	0	0	0	0	0	0	0	0	0
Churu	22·1	..	26·1	11	2·7	..	−1·1	16	0	3·5	..	3·5	26	1	..	8·1	5·2	..	0	1	0	0	1	1	0	0	0	0	0
Bikaner	23·0	+1·1	27·2	11	3·0	−1·9	0·5	16	2·6	2·6	−4·3	2·6	27	1	+0·2	4·0	2·9	−1·9	0	1	0	0	0	1	0	0	0	0	0
Nagaur	22·2	..	26·6	10	5·2	..	1·6	21	0	0	..	0	..	0	..	5·9	4·9	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	22·9	..	27·2	11	5·6	..	1·9	23	0	0	−3·6	0	..	0	−0·5	9·9	7·5	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	23·2	..	27·2	31	4·6	..	0·2	16	0	0	..	0	..	0	..	9·4	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	24·7	+0·1	28·5	9	7·1	−2·1	3·8	15,22, 23	0	0	−3·8	0	..	0	−0·3	7·7	6·6	−4·5	0	0	0	0	0	0	0	0	0	0	0
Barmer	25·1	+0·4	29·4	10	9·5	−0·5	3·9	22	0	0	−4·6	0	..	0	−0·4	7·7	5·6	−2·0	0	0	0	0	0	0	0	0	0	0	0
Munabao†	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Rajasthan (East)																														
Pilani	22·2	..	25·8	12	3·6	..	−0·1	23	0	1·1	..	1·1	22	0	..	11·3	8·5	..	0	1	0	0	0	1	0	0	0	0	0
Sikar	22·0	..	26·1	11, 12	2·9	..	−1·1	2,23	0	0	..	0	..	0	..	6.6	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	21·9	..	25·4	13	6·2	..	2·6	17	0	34·0	..	34·0	26	1	..	3·5	1·4	..	0	1	0	0	1	0	0	0	0	0	0
Jaipur (Sanganer)	22·1	−0·5	25·2	9	5·7	−2·5	2·2	22	0	1·2	−10·0	1·2	1	0	−1·0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	22·3	..	25·0	13	5·3	..	1·4	17	0·6	0·6	..	0·6	26	0	..	6·5	4·3	..	0	1	0	0	3	1	0	0	0	0	0
Ajmer	23·0	+0·4	27·1	9	4·7	−2·9	2·6	22	0	0	−9·4	0	..	0	−1·0	6·9	4·2	+1·6	0	0	0	0	0	0	0	0	0	0	0
Tonk	20·7	..	23·2	31	4·8	..	1·6	16	0	0	..	0	..	0	..	6·5	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara†	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. (g) Mean of 24 days. †Data not available. *Data not reliable.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Rajasthan (East)—*Contd.*																													
Kota (Aerodrome)	23·6	..	27·8	26	8·2	..	5·0	3	0	0	..	0	..	0	..	7·6	5·4	..	0	0	0	0	0	0	0	0	0	0	0
Kota (R)																													
Erinpura (Jawai Dam)	25·6	..	29·6	9	7·2	..	4·4	2	0	0	..	0	...	0	.	5·0	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	24·5	..	28·6	7	6·2	..	2·2	22	0	0	..	0	...	0	..	6·3	3·8	..	0	0	0	0	0	1	0	0	0	0	0
Udaipur	23·9	−0·4	27·7	10	5·1	−3·5	0·9	22	0	0	−5·1	0	...	0	−0·4	4·2	2·0	..	0	0	0	0	0	0	0	0	0	0	0
Bhilawar	24·6	−0·9	28·9	11	6·8	−2·0	2·2	22	0	0	−7·1	0	...	0	−0·7	4·1	2·4	−0·8	1	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	22·6	−0·3	25·5	5,13	4·7	−3·1	1·4	16	2·7	2·7	−16·1	2·7	26	1	−0·5	7·4	3·9	..	0	1	0	0	1	1	0	0	0	0	0
Sheopur	24·1	−0·4	27·9	11	4·8	−3·0	2·1	16	0	0	−15·3	0	...	0	−1·9	6·8	5·4	0·0	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	22·3	..	25·3	6,9	4·1	..	0	22	5·6	5·6	..	5·6	26	1	..	7·6	4·1	..	0	1	0	0	0	3	0	0	0	0	0
Nowgong	23·4	−0·4	28·3	12	4·5	−3·6	0·6	17	17·0	71·8	+56·8	64·0	26	2	+0·5	5·7	3·2	+1·4	0	2	0	0	1	1	0	0	0	0	0
Guna	24·1	−1·0	28·0	12	5·3	−2·3	0·7	22	16·2	23·9	+17·3	14·6	26	2	+0·8	8·8	5·5	..	0	2	0	0	1	0	0	0	0	0	0
Nimach	23·9	−1·2	27·5	11	7·2	−2·0	2·8	22	0	0	−5·1	0	..	0	−0·4	7·4	5·9	−0·5	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	25·1	..	29·3	12	6.0	..	1·3	22	9·0	9·0	..	5·0	25	2	..	7·1	5·5	..	0	2	0	0	0	0	0	0	0	0	0
Sagar	23·4	−1·8	26·3	21	9·1	−2·3	5·0	23	1·0	15·0	+9·5	9·0	26	2	+0·7	7·5	6·4	..	0	2	0	0	1	1	0	0	0	0	0
Ratlam	26·3	−0·2	30·2	10	8·8	−2·3	3·0	22	0	0	−6·0	0	..	0	−0·7	9·5	8·5	+0·5	0	0	0	0	0	0	0	0	0	1	0
Bhopal (Bairagarh)	24·5	−1·8	27.6	25	8.2	−1.7	4·2	22	1·3	25.6	+19·5	24·3	25	1	+0·2	10·2	7·8	0·4	0	2	0	0	2	0	0	0	0	0	0
Ujjain	25·7	..	29·0	11,25	6·6	..	0	22	..	4·0	..	4·0	25	1	..	..	5·1	..	0	1	0	0	0	0	0	0	0	0	0
Hoshangabad	25·4	−1·5	28·9	12,21	9·9	−2·4	5·7	16	13·1	33·5	+23·3	18·9	26	2	+1·1	6.1	4·7	+1·3	0	2	0	0	0	0	0	0	0	0	0
Indore	24.9	−1·5	28·5	11.25	7·8	−1·9	1·0	22	2·0	13·0	+6·9	11·0	25	1	+0·5	11·3	8·3	..	0	2	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	26·9	..	30·2	10	7·7	..	0	22	0	0	..	0	..	0	..	7·6	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	25·6	−0.5	27·9	7	8.3	−2·3	4·0	3	0	3·8	−17·3	2·2	26	0	−1·6	4·9	2·2	−2·3	0	2	0	0	0	0	0	0	0	0	0
Seoni	25·0	−1·9	27·8	13	9·4	−1·7	5·6	5	0	1.6	−12·4	1·2	26	0	−1·2	9·3	5.5	+1·8	0	2	0	0	0	0	0	0	0	0	0
Betul	25·4	−1.1	28·2	20	8·6	−2·5	4·0	3,4	0	5.4	−1·9	4·4	25	1	+0.1	7·2	4·5	−0·2	0	2	0	0	0	0	0	0	0	0	0
Khandwa	28.1	−1·2	31·8	25	9·0	−2·4	4·8	22	0	1·1	−6·8	1·1	25	0	−0.6	8.7	5·8	+1·5	0	1	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	23·7	−0·2	28·0	22	6·8	−2·1	1·7	17	4·0	13.4	−7·7	7.4	26	2	+0·2	5·6	3·9	+0·5	0	2	0	0	0	3	0	0	0	0	0
Sidhi	23·4	..	29·1	12	6·2	..	1·0	17	9·0	9.0	..	9·0	26	1	..	6·3	3·5	..	0	1	0	0	0	0	0	0	0	0	0
Umaria	24.3	−0·7	28·2	21	6·3	−1·8	1·5	17	0	0.8	−24·9	0·8	26	0	−2·1	6·1	3·8	+0.4	0	1	0	0	0	1	0	0	0	0	0
Jabalpur	24·9	−0·3	29.5	25	7·7	−1·1	3.6	17	0	3.1	−17·7	1·6	25	0	−1·7	6·0	3·9	+1·6	0	2	0	0	0	0	0	0	0	0	0
Ambikapur	22·6	−1·3	27·8	25	6·7	−1·9	2·3	17	0·5	4.7	−17·2	4·7	27	1	−1·2	9·4	7·1	+1.0	0	1	0	0	0	0	0	0	0	0	0
Pendra	22·5	−1·2	26·1	13	9·4	−0·9	5·8	17	0	0	−21·6	0	..	0	−1·7	10·2	6.8	..	0	0	0	0	0	0	0	0	0	0	0
Mandla	24·7	−1·3	28·7	25	5·5	−3.3	1·0	17	0·4	1.2	−27·5	0·8	26	0	−2·7	5·4	2·7	+0·7	0	2	0	0	0	6	0	0	0	0	0
Champa	26·0	−1·5	29·2	25	11·0	−2·7	7·0	4	1·4	3·4	−19·8	3·4	27	1	−0·5	6·5	5.6	+0·7	0	1	0	0	0	0	0	0	0	0	0
Raigarh	26·8	−1.6	29·8	23	11·0	−2·6	7·9	18	0	5·4	−13·0	5·4	27	1	−0·3	3·1	2·3	−1·7	0	1	0	0	0	0	0	0	0	0	0
Raipur	26·3	−1·3	29·4	25	11·6	−1·6	8·0	4	3.5	4·5	−4·9	3·5	27	1	+0·2	6·0	4·5	0	0	2	0	0	0	0	0	0	0	0	0
Kanker	26·6	−1·5	30·1	25	10.3	−1·0	5·8	4	0.6	2·7	−2·4	2·1	26	0	−0·5	3·9	3·2	+0·3	0	2	0	0	0	0	0	0	0	0	0
Jagdalpur	27·1	−0·8	30·2	26	9·6	−1·9	5·4	4	6·2	8·0	−1·9	6·2	28	1	+0·3	5·1	2·8	..	0	2	0	0	0	3	0	0	0	0	0
Gujarat Region																													
Deesa	26.9	..	30.6	9	7·8	..	2·9	22	0	0	..	0	...	0	..	8·3	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	26·8	..	30·5	9	7·4	..	1·0	22	0	0	..	0	...	0	..	7·6	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Idar	26·6	..	29·7	11	12·7	..	4·8	22	0	0	..	0	...	0	..	7·9	7·5	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	27·8	−1·3	31·0	10,11	9·5	−2.1	4·4	22	0	0	−0·5	0	..	0	−0·1	9·4	5·5	+1·5	0	0	0	0	0	0	0	0	0	0	0
Dohad	26·4	−1.7	30·0	11	9·8	−2·0	3·0	22	0	0	−3·0	0	..	0	−0.4	9·1	7·2	−1·9	0	0	0	0	0	2	0	0	0	0	0
Baroda Aerodrome	28·8	..	33·2	9	9·8	..	2·8	22	0	0	..	0	.	0	..	8·3	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	29·3	−0.7	33·3	9	10.0	−0·9	3·3	22	0	0	−2.5	0	..	0	−0·3	4·8	3·2	−0·7	0	0	0	0	0	1	0	0	0	0	0
Broach	31·0	−0.4	34·9	9,10,31	10·4	−2·4	4·0	22	0	0	−1.1	0	..	0	−0·1	5·9	5·5	−0.4	0	0	0	0	0	0	0	0	0	0	0
Surat	31·0	+0·6	35·5	9	11·8	−2·5	7·4	22	0	0	−2·8	0	.	0	−0·2	9·1	8·4	+3·9	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimsar (R)																													
Naliya	26·8	..	30·0	4,9	6.6	..	1·2	21	0	0	..	0	..	0	..	9·2	4·8	..	0	0	0	0	0	6	0	0	0	0	0
Bhuj (Rudramata)	26·3	0	29·9	5,11	7·1	−3.6	2·6	24	0	0	−2·0	0	..	0	−0·2	11·9	8·1	−0.9	0	0	0	0	0	0	0	0	0	0	0
Kandla	26.5	..	29·8	9	9·8	..	2·9	21	0	0	..	0	..	0	..	17.5	17.0	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	24·6	..	28·9	5	12·9	..	8·3	21	0	0	..	0	..	0	..	11·2	12·0	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	25·3	−0·3	28·6	15	11·8	−2.4	5·6	21	0	0	−1·4	0	..	0	−0·3	15·9	13·4	−1·9	0	0	0	0	0	3	0	0	0	0	0
Surendranagar	27·7	−0.5	31·6	9	11·6	−1·3	6·7	22	0	0	−0·4	0	..	0	0	9·5	9·1	−0·4	0	0	0	0	0	0	0	0	0	0	0
Jamnagar Aerodrome	25·3	−1.6	30·2	5	9·2	−1·0	4·8	22	0	0	−1·3	0	..	0	−0.1	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Dwarka	24·9	−0.6	28·7	4,13	13·9	−1·4	9·6	22	0	0	−2·5	0	..	0	−0·3	16.6	13·7	+0·5	0	0	0		0	0	0	0	0	0	0

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch (*Contd.*)																													
Rajkot	27·3	−1·9	30·5	9	9·2	−1·9	3·8	22	0	0	−1·1	0	..	0	−0·1	16·3	12.1	−1·0	0	0	0	0	0	3	0	0	0	0	0
Bhaunagar (Aerodrome)	27·6	−0.1	30·6	6	11·4	−1.7	6·5	22	0	0	−2.3	0	..	0	−0.1	17·7	14.7	+2.5	0	0	0	0	0	0	1	0	0	0	0
Porbander (Aerodrome)	27·8	..	31·7	9	11·6	..	4.7	22	0	0	..	0	..	0	..	16·9	12·9	..	0	0	0	0	0	1	0	0	0	0	0
Porbander	26.9	−1.6	30·6	4	13·7	−1 6	7·2	22	0	0	−2·4	0	..	0	−0.3	11·7	10·4	+0.6	0	0	0	0	0	3	0	0	0	0	0
Keshod	28·8	..	32·4	9	10·6	..	3·6	22	0	0	..	0	..	0	..	16·9	14·2	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	29·6	..	32·3	11	12·6	..	8·6	22	0	0	..	0	..	0	..	10·3	9·3	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	28·4	..	32·6	9	12·6	..	6·4	22	0	0	−1·0	0	..	0	−0.1	18·9	15·7	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	26·8	−0·7	32·0	3	15·3	−1·3	11·2	22	0	0	−1·8	0	..	0	−0.2	18 5	13·3	+1.1	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz)	29·8	+0.8	33·5	17	14·0	−1·3	7·4	22	0	4.7	+1.3	4.7	26	1	+1·0	11·1	8·1	..	0	1	0	0	0	0	0	0	0	0	0
Bombay	29.6	+1.2	33·4	2,3	17·9	−1·4	12·3	22	0.1	5.6	+2·0	5.5	26	1	+0 8	8·3	7·0	−3·6	1	1	0	0	0	0	0	0	0	0	0
Alibag	28 2	+0·1	34·5	4	16.1	−1·4	12·6	22	..	4.4	+3·1	4.4	26	1	+0·8	..	8·4	+1·0	0	1	0	0	0	0	0	0	0	0	0
Harnai	27·7	−0·1	33·0	3	21·3	−0·5	16·3	22	0	0	−1.4	0	..	0	−0.2	15·1	13·0	−0.1	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	30·3	..	33·9	8	18.6	..	15·3	7	0	0	−2·0	0	..	0	−0·1	10.8	7.8		0	0	0	0	0	0	0	0	0	0	0
Devgarh	29·9	−0·2	32·9	3	19.1	−1.9	16·6	28	0	0	−1·9	0	..	0	−0 2	14·4	13·1	+0.2	0	0	0	0	0	0	0	0	0	0	0
Vengurla	31·1	−1·0	34.1	2	16.4	2·2	12·0	6	0	0	−0·1	0	..	0	0	10·0	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	28·9	..	32·2	10,25	..	..	..	..	0	0	..	0	..	0	..	8·7	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	29·6	−0·9	33·2	25	9·1	−3.5	2·1	22	0	0	−7·9	0	..	0	−0.6	11.2	9·9	+2·3	0	0	0	0	0	0	0	0	0	0	0
Malegaon	29·8	−0·3	32·5	11	8·8	−2·5	0.8	22	0	0	−4.3	0	..	0	−0·3	7·6	5·7	−0·1	1	8	0	0	0	0	0	0	0	0	0
Deoli (Aerodrome)	29.1	..	31.6	18	8.5	..	1.6	22	0	3.8	..	3·8	26	1	..	9.5	5·5	..	0	1	0	0	0	1	0	0	0	0	0
Ahmadnagar	30·2	+1·0	32·2	19,20	9·9	−1·9	6·2	22	0	0	−5·3	0	..	0	−0·4	8·3	5·9	−0·1	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	3·0	+0·5	1.6	25	0	−0·1	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	29·3	..	31·4	18	11·8	..	7.1	22	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Poona	30·3	0	32.5	25	10·0	−1·7	6.6	28	0	0	−1·5	0	..	0	−0·2	3.7	2·2	−3·8	0	0	0	0	0	0	0	0	0	0	0
Jeur	30·3	−0·3	32·2	20,25	10.6	−2·8	4·9	5	0	0	−0.1	0	..	0	0	9·0	5·8	−0 1	0	0	0	0	0	0	0	0	0	0	0
Baramati	30.2	−0 4	32.5	13,14	11·2	−2·8	6.7	6	0	0	0	0	..	0	0	8.5	7.9	−1·2	0	0	0	0	0	0	0	0	0	0	0
Sholapur	29·2	−1.6	31·1	25 26	14·2	−1·0	8·2	5	0	0	−3·8	0	..	0	−0·3	10·4	8·4	−0.8	0	0	0	0	0	0	0	0	0	0	0
Miraj	30·4	+0.3	32·4	25	12·5	−1·7	7·5	6,7	0	0	−0·3	0	..	0	−0.1	..	..	.	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	30·2	−0·2	32·6	24	13·0	−1·7	8.7	6	0	0	−2·5	0	..	0	−0·4	12·6	9·0	+0.3	0	0	0	0	0	0	0	0	0	0	0
Marathawada																													
Aurangabad	29·2	−0·1	31·4	25	11·9	−1·8	8·8	5	0	0	−7.4	0	..	0	−0·5	8·5	7·2	−0·2	0	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	28·5	..	30·8	25	7·6	..	3·3	4	0	0	..	0	..	0	..	9·3	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Parbhani	29·2	−0·9	31·6	25	11.5	−2.1	7·7	5	0	1.6	−5·3	1.6	25	0	−0.6	8·1	6·0	+0·8	0	1	0	0	0	0	0	0	0	0	0
Nander	29·9	..	32·0	21	12·6	..	7·3	5	0	0	..	0	..	0	..	5 7	4.3	..	0	0	0	0	0	0	0	0	0	0	0
Bir	30.1	..	31.9	19,20	10·7	..	6.2	5	0	3.5	..	3.5	25	1	..	7.1	4.3	..	0	1	0	0	0	0	0	0	0	0	0
Madhya Pradesh East—*Cond.*																													
Kanker	26.6	−1.5	30·1	25	10 3	−1.0	5.8	4	0·6	2·7	−2·4	2·1	26	0	−0·5	3.9	3·2	+0.3	0	2	0	0	0	0	0	0	0	0	0
Jagdalpur	27.1	−0.8	30·2	26	2.6	−1.9	5.4	4	6.2	8.0	−1.9	6.2	28	1	+0.3	5.1	2.8	..	0	2	0	0	0	3	0	0	0	0	0
Vidarbha																													
Gondia	26·6	−0·9	30·0	25	11.1	−2·5	7·5	4	0	1.2	−19·9	1.2	26	0	−1·5	5·3	3.0	−0·1	0	1	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	28·0	−0.6	31·0	25	10·6	−2·2	6.7	4	0	5.4	−4·0	5.2	26	1	+0·2	9·0	7·4	..	1	1	0	0	0	0	0	0	0	0	0
Amravati	28·8	−0·5	31·5	22	12·9	−2·2	9·9	4,6,22	2 0	3·9	−5·5	2.0	26	0	−0.8	11·2	9·5	+3·7	0	2	0	0	0	0	0	0	0	0	0
Akola	29·6	−0·5	32·3	20	10·5	−2·2	6·4	4,28	0	9.4	+0.5	9.4	25	1	+0.3	6.0	4·8	+0 5	0	1	0	0	0	0	0	0	0	0	0
Bramhapuri	27·5	..	30·3	25	11.6	..	6.5	5	0	0	..	0	..	0	..	7.3	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Buldhana	27.0	−0·5	29.4	12	12.8	−2·7	9.2	22	0	0	−7.7	0	..	0	−0·5	9.5	8.0	−0·2	0	0	0	0	0	0	0	0	0	0	0
Yeotmal	27·8	−0·9	30.2	13	14·2	−1·4	10·1	4	0	5.0	−5·9	3·2	26	1	+0·3	10·8	9.5	+0·5	0	2	0	0	0	0	0	0	0	0	0
Chanda	28.6	−1·0	30·5	25	11·8	−1·2	6.4	5	0	0	−7·9	0	..	0	−0·5	6·3	4·1	+1·5	0	0	0	0	0	0	0	0	0	0	0
Pusad	29·9	..	31·9	20,22	10·9	..	6.4	5	0	5.0	..	5·0	25	1	..	(j) 6·1	(k) 5.2	..	0	1	0	0	0	0	0	0	0	0	0
Sironcha	29·1	−1·2	31·6	25	12·7	−2·8	8·6	5	0	12.8	+11·1	12.8	27	1	+0·6	6·5	3·9	+0·2	0	1	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	26·2	−1·5	30·0	14	15.4	−2·1	12.1	6	0	12·0	+6.4	12.0	28	1	+0·4	11·8	7·7	0	0	1	0	0	0	0	0	0	0	0	0
Vishakhapatnam	27·5	−1·8	30.2	28	14·7	−3·2	10·5	6	0	0	−10·9	0	..	0	−0·5	16.4	7·8	+3·1	0	0	0	0	0	0	0	0	0	0	0
Kakinada	26.0	−1.3	28·3	18	16.2	−2.9	12·0	6	1.8	3.6	−3.5	3.6	28	1	+0.5	16.9	11.8	+2.9	0	1	0	0	0	0	0	0	0	0	0
Nidadavole	28.9	..	31·4	14	16·1	..	12·3	6	0	3.0	..	3.0	28	1	..	7.9	6.4	..	0	1	0	0	0	0	0	0	0	0	0
Rentachintala	30 7	0	32·8	23	15·5	−1·0	10.7	5	0	0	−0.3	0	..	0	0	6·2	4·4	−0.9	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	28 9	−1·2	31·2	25	17·4	−1·7	14·2	8	0	0	−0.8	0	..	0	−0.1	12·4	9·3	−0·5	0	0	0	0	0	1	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*contd.*																													
Nagarjunakonda	31·0	..	33·6	25	16·8	..	10·9	5	0	0	..	0	..	0	..	12.7	9·8	..	0	0	0	0	0	1	0	0	0	0	0
Masulipatam	27·5	−0·8	29·5	15	..	..	..	..	0	0	−5·1	0	..	0	−0·3	6·3	4·3	−2.0	0	0	0	0	0	0	0	0	0	0	0
Ongole	26·9	..	32·1	29	17·9	..	14·0	6	0	0	..	0	..	0	..	9·1	5·6	..	0	0	0	0	0	0	0	0	0	0	0
Nellore	28·5	−1·1	31·3	29	18·7	−1·0	16·0	5	0	0	−33·3	0	..	0	−1·4	4·7	3·6	−0·9	0	0	0	0	0	0	0	0	0	0	0
Telengana—																													
Ramgundam	29·5	−1·4	32·4	25	14·1	−1.9	9.6	4	0·3	4·3	+2·3	4·3	27	1	+0·7	8·2	5·3	+0·4	0	1	0	0	0	0	0	0	0	0	0
Nizamabad	28·0	−2·1	30·4	26	13·5	−0·7	8.0	5	0	0	−5·1	0	..	0	−0.4	7·6	5·4	+2·6	0	0	0	0	0	0	0	0	0	0	0
Hanamkonda	28.8	−0·6	31·8	25	16·8	+0·2	12.3	5	0	0	−10·2	0	..	0	−0·7	8·3	6·5	+0·7	0	0	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome)	26·7	..	29·3	26	14·5	..	12·0	5	0	0	..	0	..	0	..	..	..	..	0	0	0	0	3	0	0	0	0	0	0
Bhadrachalam	29·4	−1·5	32·0	24	13·4	−3·3	8·4	5	0	0	−2·6	0	..	0	−0·4	6·1	4·1	−1·0	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet)	27·5	−0·8	29·6	26	12.7	−2·0	8·0	5	0	0	−7·9	0	..	0	−0·5	11·9	8·3	+1·1	0	0	0	0	0	2	0	0	0	0	0
Khammam	29·9	..	32·0	24,25	15·3	..	10·9	5	4·8	4·8	..	4·8	28	1	..	5·3	3.5	..	0	1	0	0	0	0	0	0	0	0	0
Mahbubnagar	28·6	..	30·8	24	14·8	..	11·5	8	0	0	..	0	..	0	..	10·3	8·7	..	0	0	0	0	2	0	0	0	0	0	0
Rayalaseema																													
Kurnool	30·1	−1·2	33·0	26	15·3	−1·1	10.0	4,5,7	0	0	−3·8	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Anantapur	29·7	−0·6	32·3	27	16·1	−1·2	11·5	5	0	0	−3·9	0	..	0	−0·2	12·1	10.3	+0·2	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	30·1	−1·1	32·7	29	17·7	−1·0	14·1	5	0	0	−9·9	0	..	0	−0·6	7·2	6·0	−4·6	0	0	0	0	0	0	0	0	0	0	0
Anogyavaram	26·6	..	29·5	23	14·4	..	10·6	9	1·4	3·4	..	3·4	24	1	..	7·8	6·0	..	0	1	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	28·0	..	29·7	28	20·2	..	17·5	11	0	2·5	..	2·0	23	0	..	..	8·2	..	0	2	0	0	0	1	0	0	0	0	0
Madras (Minambakkam)	28·1	−1·5	30·7	28	19·7	+0·2	17·5	17	0·2	0·2	−35·6	0·2	30	0	−1·7	17·5	11·6	+1·9	1	0	0	0	0	3	0	0	0	0	0
Vellore	29·1	+0·3	34·2	28	17·2	−0·7	13·5	5	5·2	16·1	−20·7	9·2	24	2	−0·1	5·8	6·5	+2·6	0	2	0	0	0	2	0	0	0	0	0
Tambaram (Aerodrome)	29·1	..	32·0	26	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tiruppattur	29·7	..	32·8	27	15·9	..	11.1	5	0	2·0	..	2·0	27	0	..	6·0	5·1	..	0	1	0	0	0	0	0	0	0	0	0
Cuddalore	27·5	−0·7	30·1	28	19·9	−0·6	16·6	9,11	0	2·7	−51·0	2·7	23	1	−1·4	16·8	11·7	+4.5	0	1	0	0	0	0	0	0	0	0	0
Kallakkurichchi	29·2	..	32·6	29	19.8	..	16.7	16	0	2·6	−27·9	2·6	23	1	−0·4	12·1	9·2	..	0	1	0	0	0	0	0	0	0	0	0
Salem	31·1	−0·1	33·7	27	19·6	+1·3	15·6	5	0	0·8	−6·6	0 8	23	0	−0·7	11·2	13·1	+6·8	0	1	0	0	0	0	0	0	0	0	0
Coimbatore (Pilamedu)	29·6	..	33·5	28	18 2	..	13·1	5	0	5·1	..	3 7	24	1	..	14.1	10·7	..	0	2	0	0	0	0	0	0	0	0	0
Coimbatore	30·3	+0·3	33·8	29	18·6	+0·3	14·7	5	0	16·2	+0·2	12·0	30	2	+0·9	9·1	6·3	+2·1	0	2	0	0	0	0	0	0	0	0	0
Nagapattinam	26·6	−1·3	27·6	29	21·7	−0·4	18·8	4	28·2	66·9	−2·4	34·5	22	3	0·0	20·2	18·7	+6.0	0	5	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	30·3	−0·2	33·0	29	20·5	+0·4	17·0	11	0·5	0·7	−24·4	0 7	23	0	−1·7	15·2	11·9	+3·2	0	1	0	0	0	0	0	0	0	0	0
Vedaranniyam	28·1	..	30·3	28	..	..	..	..	60·0	64·0	..	40·0	14	3	..	15·4	11·6	..	0	4	0	0	0	0	0	0	0	0	0
Atirampattinam	29·2	..	32·0	29	20·5	..	17·6	9	15·6	17·6	..	12·8	14	2	..	14·7	10·6	..	0	3	0	0	0	0	0	0	0	0	0
Madurai	30·8	+0·9	33·1	27	21·1	+0·9	18·4	5	5·6	11·8	−8·0	4·6	29	2	+0·5	9·5	7·3	+0·1	0	4	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	30·3	..	32·8	28	20·3	..	17·2	4,5	9·0	63·6	..	54·6	29	2	..	17·1	12·9	..	0	2	0	0	0	0	0	0	0	0	0
Tondi	29·1	..	30·2	24.26	21·3	..	18·9	9	6·0	6.0	..	6·0	30	1	..	19·9	15·3	..	0	1	0	0	0	0	0	0	0	0	0
Pamban	27·9	−0·2	30·0	4	23·3	−0·3	22·3	5	17·3	17·3	−48·0	14·1	23	2	−2·0	18·3	15·6	−0·2	0	2	0	0	0	0	0	0	0	0	0
Tuticorin	27·4	−0·2	28·9	29	21·6	−0·7	18·4	5	0·2	15·8	−0·7	15·6	30	1	−0·7	23·5	22·4	+0·1	1	1	0	0	0	0	0	0	0	0	0
Palayankotai	30·3	−0.4	33·4	28	21·3	−1·0	19·2	17	25·2	26·4	−16·3	14·2	29	2	−0·6	7·7	5·7	−3·5	1	3	0	0	0	0	0	0	0	0	0
Kanniyakumari	30·4	..	33·5	26	23·1	..	21·8	6	1·4	51·1	..	46·1	27	2	..	26·4	22·4	..	0	3	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31·4	+0·9	34·0	14,15	17·6	−1·3	13·6	5	0	0	−0·9	0	..	0	−0·1	11·5	6.8	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	32·0	+0·2	35·0	15	19·3	−0·6	16·2	28	0	0	−4·1	0	..	0	−0·1	10.3	9·3	+4.5	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	32 1	..	34·1	2	20·2	..	17·8	28	0	0	..	0	..	0	..	11·7	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Mangalore	31·9	+0·2	34·8	15	20·6	−0·8	18·6	13	0	1·4	−1·4	1·4	26	0	−0·2	12·6	10·0	+2.3	0	1	0	0	0	0	0	0	0	0	0
Interior Mysore North																													
Bidar	27·5	−1·3	29·4	20,25	14·8	−1.9	12·8	4	0	0	−5·6	0	..	0	−0·5	13·0	10·9	+0·6	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	29·7	−1·0	31·6	24	14·1	−1·5	7·6	5	0	0	−5·3	0	..	0	−0·3	7	9·2	+1·6	0	0	0	0	0	0	0	0	0	0	0
Bijapur	29 5	−0·6	31·4	4days	14·8	−0·9	9·0	5	0	0·6	−4·0	0·6	25	0	−0·2	6·9	3·6	−0·9	0	1	0	0	0	2	0	0	0	0	0
Raichur	29·5	−0·9	32·5	24	16·9	−1·3	12·2	5	0	0	− 3·3	0	..	0	−0·2	10·8	11.0	+2·3	0	0	0	0	0	0	0	0	0	0	0
Belgaum	29·6	−0·5	31·7	24	12·5	−1·3	8·1	5	0	0	−3·1	0	..	0	−0·2	8·5	6·1	+0.3	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	28·8	..	30·5	24,25	14·1	..	10·7	9	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Gadag	28·2	−1·4	31·7	23	15·	−1·0	11·9	5	0	0	−4·3	0	..	0	−0·2	10·4	8·0	+0·6	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	30·0	−1·0	32·6	26	16·5	−0·3	12·9	5	0	0	−2·5	0	..	0	−0·3	9·3	6·2	+1·9	0	0	0	0	0	0	0	0	0	0	0
Chitradurga	28·2	−1·1	31·8	30	16·8	−0·2	12·6	4	0	0	−6·3	0	..	0	−0·3	10·5	7·8	+0·4	0	0	0	0	1	0	0	0	0	0	0
Shimoga	30·3	−0·2	33·3	25	13·1	−1·5	9·1	5	0	0	−0·1	0	..	0	0	7·5	4·4	+0·3	0	0	0	0	0	0	0	0	0	0	0
Agumbe	28·1	..	30·3	15	..	..	..	..	..	0	..	0	..	0	..	..	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Balehonnur	27·7	+0·5	30·8	24	13·8	−0·9	11·9	4	..	0	−1·3	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hassan	27·7	−0·5	30·3	30	14·4	+0·5	10·3	5	0	0	−4·3	0	..	0	−0·3	6·3	4·5	−0·5	0	0	0	0	1	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore South—(*Contd.*)																													
Bangalore	27·1	+0·3	30·3	29	14·9	+0·8	11·2	5	0·9	0·9	−5·2	0·9	27	0	−0·5	9·5	10·1	+ 9	0	1	0	0	0	1	0	0	0	0	0
Bangalore Aerodrome	27·8	..	30·0	29	14·5	..	10·2	5	0·2	0·2	..	0·2	24	0	..	..	..	..	1	0	0	0	0	6	0	0	0	0	0
Mysore	29·1	+0·1	30·3	23	15·0	−1·0	11·3	10,13	2·6	11·6	+8·0	8·6	25	2	+1·7	14·4	10·7	+1·2	0	2	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	31·4	+0·3	32·9	1	22·1	+0·5	19·3	19	16·1	32·5	+23·6	16·4	27	3	+2·4	11·7	11·0	+2·6	0	3	0	0	0	0	0	0	0	0	0
Palghat	22·8	..	34·6	15,30	21·7	..	18·4	5	0	8.0	..	8·0	30	1	..	13·3	10·5	..	0	1	0	0	0	0	0	0	0	0	0
Fort Cochin	30·7	+0·2	33.6	8	24·0	+0·9	21·7	30	1·6	7·3	−15·3	3·8	30	1	−0·1	15·1	9·9	+3·3	0	3	0	0	2	0	0	0	0	0	0
Cochin (Naval Air Station)	31·7	..	34·3	1	22·4	..	18.5	12	1·2	5·9	..	2·5	30	1	..	12·8	9·1	..	1	3	0	0	1	0	0	0	0	0	0
Alleppey	32·6	+0·8	34·8	1	22·5	0	19·3	17	5·2	24·2	+9·1	14·2	27	3	+1.6	14·9	11·2	+2.6	0	4	0	0	2	0	0	0	0	0	0
Punalur	33·3	..	35·7	30,31	21·4	..	17·8	11,17	12·0	56·2	..	23·0	30	4	..	9·3	5·5	..	0	5	0	0	0	0	0	0	0	0	0
Trivandrum	31·6	+0·3	33·3	15,24	22·4	+0·2	19·6	11	2·6	96·2	+76·1	63·7	30	4	+2·3	8·0	5·9	+1·4	0	6	0	0	3	0	0	0	0	0	0
Trivandrum Aerodrome	31·3	..	32·4	4 days	21·6	..	17·7	11	..	22·7	..	10·8	27	2	..	..	6·8	..	0	4	0	0	0	0	0	0	0	0	0
Arabian Sea Islands																													
Amini *																													
Minicoy*																													
Hill Stations (excluding Kashmir)																													
Dalhousie	13·8	+2·9	18·0	8	5·1	+3·0	2·5	15	10·0	69·0	−133·3	32·0	27	4	−3·8	6·4	6·2	+2·6	0	5	3	0	0	0	0	0	0	0	0
Dharmsala	14·6	+0·2	21·7	8	5·0	−1·5	0·1	22	22·8	72·4	−70·8	38·2	22	3	−1·7	3·9	3·0	−1·8	0	5	0	0	3	0	0	0	0	0	0
Simla	8·8	+0·2	16·1	8	2·0	+0·1	−4·4	22	32·7	132·7	+66·4	49·8	22	3	−1·8	3·3	3·0	+0·5	0	4	5	0	1	0	0	0	0	0	0
Dharampur (R)																													
Lokpal	5·2	..	−3·7	19	+11·3	..	−12·1	2	..	125·0	..	45·0	27	4	..	..	..	..	0	4	4	0	0	9	0	28	0	0	0
Badrinath	Closed during winter months																												
Joshimath	10·9	..	15·3	9	1.4	..	−1·8	31	17·1	51·3	..	30·1	27	4	..	3·6	4·8	..	0	4	4	0	1	3	0	10	0	2	0
Mussoorie	10·8	+1·1	19·7	9	1·8	−0·9	−3·2	22,23	6·2	41.1	−27·7	21·0	26	3	−2·0	8·7	7·2	+0·1	1	3	3	2	1	5	0	26	0	0	0
Mukteswar (Kumaun)	10·2	+0·3	16·7	9	1·2	−0·7	−3·2	27,28	41·7	91·2	+36·3	63·0	27	4	+0·4	11·9	12·7	+3·7	0	4	4	0	2	4	0	30	0	0	0
Nainital	10·2	−0·1	15·6	4	0·2	−1·4	−2·8	28	59·0	108·0	−9·5	73·0	27	4	−2·5	7·7	6·6	−0·5	0	5	3	0	0	2	0	0	0	0	0
Kalimpong	16·3	+1·1	22·2	13,17, 24	6·7	−1·2	2·8	27	0	73·7	+63·3	38·1	27	2	+1·1	5·3	4·0	−6·8	0	2	0	0	0	0	0	0	0	0	0
Darjeeling	9·5	+0·3	16·7	9	2·1	−0·8	0	16	13·6	53·2	+39·7	33·6	27	3	+1·7	2·2	1·6	+0·5	0	4	0	1	0	6	0	0	0	0	0
Kohima (R)																													
Shillong	14·8	−0·8	18·0	27	2·8	−1·0	−0·5	2	7·4	14·4	+1·2	14·4	28	1	−0·1	5·1	3·6	+1·2	0	1	0	0	0	0	0	0	0	0	0
Cherrapunji	13·1	−2·6	14·1	1,9	5·8	−2·0	4·8	17	25.7	47·0	+27·9	31·8	28	2	+0·5	8·8	7·6	+2·0	0	2	0	0	0	0	0	0	0	0	0
Abu	20·1	+1·3	22·6	7 days	5·9	−4·5	2·2	21	0	0	−6·6	0	..	0	−0·6	12·3	6·1	+0·5	3	0	0	0	0	0	0	0	0	0	0
Agra	19·2	..	22·8	24	10·7	..	7·2	17	0	14·0	..	14·0	28		..	5·6	6·8	..	0	1	0	0	0	0	0	0	0	0	0
Pachmarhi	22·1	−0·1	24·7	25	6·2	−2·5	1·4	4,16	0	9·4	−6·9	9·4	26	1	−0·3	6·4	4·1	+0·2	0	1	0	0	1	0	0	0	0	0	0
Mahabaleshwar	24·4	+0·8	27·5	17	12·1	−1·8	·5	27	0	0	−3.6	0	..	0	−0·2	8·8	9·5	0	0	0	0	0	0	2	0	0	0	0	0
Mercara	25·6	+0·5	28·5	8	13·6	−0·4	10·8	19	0	0·2	−3·9	0·2	26	0	−0·3	11·6	10·6	+4·2	1	0	0	0	0	0	0	0	0	0	0
Ootacamund	20·6	+1·8	24·5	20	7·2	+1·1	1·8	11	0·8	3·8	−29·0	1·2	30	0	−1·8	5·7	5·0	−2·0	1	4	0	0	0	0	0	15	0	0	0
Coonoor (R)																													
Kodaikanal	18·0	+1·2	22·4	20	9·1	+1·0	6·1	15	3·8	21·8	−59·2	8·2	23	0	−1·0	11·6	11·8	−2·0	0	5	0	0	0	6	0	5	0	0	0
Nepal																													
Katmandu	17·1	..	20·6	10	0·7	..	−1·6	19	21.5	60·9	..	45·9	27	2	..	1·7	1·1	..	0	3	0	0	0	15	0	7	0	0	0
Sikkim																													
Lachen	6·6	..	12·2	9	2·7	..	6·7	30	..	0	..	..	..	..	..	..	..	..	..	..	6	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	21·5	..	25·9	26	8·7	..	3·3	17	0·7	6·4	..	6·4	27	1	..	11.0	7·0	..	1	1	0	0	0	0	0	0	0	0	0
Hazaribagh	20·9	..	25·2	26	7·2	..	2·4	17	0	9·3	..	9·3	27	1	..	9·8	5·7	..	0	1	0	0	1	1	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	0·2	10·6	..	10·4	27	1	..	..	..	..	0	1	0	0	0	1	0	0	0	0	0
Bokaro	23·8	..	27·5	13	6·2	..	1·8	18	0	11·1	..	11·1	27	1	..	5·1	5·0	..	0	1	0	0	0	2	0	0	0	0	0
Maithon	22·8	..	27·3	27	9·9	..	5·4	18	0·2	6·0	..	5·8	27	1	..	..	..	..	0	1	0	0	0	18	0	0	0	0	0
Ramgarh	24·2	..	28·3	23	7·3	..	2·3	17	0	14·2	..	14.2	27	1	..	4.0	1.8	..	0	1	0	0	0	0	0	0	0	0	0
Panchet Hills	21·2	..	28·3	23	10·9	..	7·0	17,18	0.2	10.7	..	9.4	27	1	..	5.8	3·8	..	0	2	0	0	0	0	0	0	0	0	0
Durgapur	25·5	..	28·8	13	9·9	..	6·1	17	3·6	5·3	..	3.6	28	1	..	9·3	13·3	..	0	2	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Gimabahar	25·5	..	28·9	23	7·0	..	2·2	17	..	2.2	..	2.2	27	0	..			..	0	1	..	..	..	..	..	..	..	..	..
Hirakud	26·1	..	29·4	23,25	12·3	..	8·7	4.5	0·2	5·3	..	5·1	27	1	..	6.0	3·0	..	1	1	0	0	0	0	0	0	0	0	0
Bhimkund	25·5	..	28·3	23,24, 25	8·2	..	5·0	17,18	12·8	1·61	..	12·8	28	2	..	4.7	2.0	..	0	2	0	0	0	0	0	0	0	0	0
Sonepur	26·0	..	30·0	13	10·6	..	7·8	6 days	..	15·8	..	15·8	27	1	..	..	2·5	..	0	1	0	0	0	0	0	0	0	0	
Khijrawan	26·8	..	29·4	4 days	9·6	..	5·3	4	0	1·5	..	1·5	27	0	..	4·7	4·0	0	1	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

*Data given as addenda in December 1962 issue.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Heighest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0·2 mm.)	Precipitation (0.2mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observaetries— *(Contd.)*																													
Narmada Catchment																													
Bagra Tawa	26·0	..	30·2	25	8·2	..	4·1	4	4·4	7·6	..	4·4	26	2	..	5·8	3·3	..	0	2	0	0	0	0	0	0	0	0	0
Punasa	28·4	..	31·9	11	9·1	..	4·2	22	0	1·4	..	1·4	25	0	..	5·3	2·6	..	0	1	0	0	0	0	0	0	0	0	0
Thikri	28·8	..	32·2	25	10·0	..	5·9	28	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Dharoi*	27·0	..	30·4	9	10·5	..	3·0	21	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																													
Tehri (R)																													
Mukhim (R)																													
Gandak Catchment																													
Jomosom	10·1	..	15·3	9	−4·0	..	−6·5	28	5·1	18·0	..	11·7	27	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	22·2	83·8	..	55·4	27	2	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Timure	13·9	..	18·5	9	1·7	..	−0·6	16	32·7	79·4	..	55·1	27	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Pokhara	18·1	..	20·7	23	6·5	..	1·3	15	18·6	56·6	..	35·2	27	2	..	5·5	4·7	..	0	4	0	0	1	1	0	0	0	0	0
Gorkha (R)																													
Nuwakot	18·6	..	21·3	24	6·3	..	4·7	18	14·4	54·2	..	39·0	27	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Ghaghara Catchment																													
Mansiari (R)																													
Dadeldhura	10·7	..	15·0	5	2·6	..	−2·7	27	21·8	81·3	..	48·2	27	4	..	..	..	..	0	4	5	0	5	4	1	5	0	0	0
Sallayana	15·1	...	19·0	10	4·8	..	2·5	16	1·5	7·8		5·0	27	1	..	..	..	..	1	3	0	0	0	0	0	0	0	0	0
Butwal	22·0	..	24·1	10	11·0	..	6·1	14, 16	23·0	76·4	..	54·0	27	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Baghmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	16·1	..	19.4	10	5·0	..	3·5	15	19·9	54·9	..	43·4	27	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	22·0	60·4	..	31·0	27	4	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Walungchung Gola	(a) 6·4	..	12·2	9	−5·2	..	−8·3	19	8·0	28·8	..	23·0	27	2	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..
Taplethok	16·9	..	19·5	9	5·5	..	3·6	2	8·0	43·6	..	28·0	27	4	..	..		..	0	4	0	0	0	0	0	0	0	0	0
Bhojpur	13·6	..	17·2	9	5·7	..	3·5	28	9·0	38·0	..	27·0	27	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Taplejung	13·3	..	17·9	9	3·4	..	1·3	1	9·6	42·6	..	32.0	27	2	..	..	..	..	0	5	0	0	0	1	0	15	0	0	0
Okhaldhunga	12·6	..	16·4	10	3·4	..	1·1	16	20·2	54·6	..	33·2	27	3	..	3·0	2.5	..	0	3	0	0	0	2	0	11	0	0	0
Chainpur	16·9	..	19·2	24	7·6	..	5·2	27	10·8	32·0	..	23·8	27	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Angbung	18·6	..	21·7	1	7·4	..	5·7	2	4·0	32·0	..	20·0	26	3	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Barahakshetra	22·6	..	25·6	24	9·7	..	7·4	17	28·9	52·8	..	28·0	28	2	..	7·4	5·7	..	0	3	0	0	0	1	0	0	0	0	0
Tista Catchment																													
Gangtok	13·0	..	18·2	9	3·4	..	1·4	17,28	14·3	60·5	..	32·9	27	3	..	2·1	1·3	..	1	6	0	0	0	3	0	8	0	0	0
Gezing	15·7	..	19.7	11	4·7	..	3·1	17	12·0	45·6	..	27·5	27	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..

(R) Register not received. *Data not available. †Data included under "Nepal". (a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1012·4	1009·3	..	26.5	23·3	21·8	26·1	76	..	4·6	..	7.6	0	2	23	1	17	6	1	0	0	0	0	6	0
	1730	,,	1009·8	1006·6	..	25·8	23·2	21·9	26·3	79	..	1·3	..	9·1	0	1	30	1	21	5	3	0	0	1	0	0	0
Long Island	0830	25	1012·3	1009.4	..	26·3	23·8	22·7	27·6	78	..	4·9	..	3.5	0	0	20	0	6	9	4	0	0	0	1	11	0
	1730	,,	1009·8	1007·0	..	25·5	23·4	22·3	26·9	83	..	5·5	..	3.3	0	0	18	0	4	13	1	0	0	0	0	13	0
Port Blair	0530	79	1010·0	1000·9	..	23·8	22·7	22·0	26·4	88	..	6·1	..	7·2	0	2	17	1	7	11	0	0	0	0	0	12	0
	0830	,,	1012·1	1003·2	—1.6	26·7	24·2	23·1	28·3	81	+10	6·3	+2·9	10·4	0	1	28	4	11	12	0	1	0	1	0	2	0
	1130	,,	1010·7	1001·8	..	27·8	24·9	23·6	28·6	78	..	6·6	..	12·1	0	1	29	0	18	10	1	0	0	0	1	1	0
	1730	,,	1009·5	1000·6	..	25·3	23·9	23·0	28·1	85	..	6·7	..	8·1	0	0	24	3	12	8	1	0	0	0	0	7	0
	2330	,,	1011·2	1002·2	..	24·4	23·0	22·0	26·4	88	..	5·4	..	7·7	0	0	21	2	7	11	1	0	0	0	0	10	0
Car Nicobar	0830	10	1011·2	1010·0	..	27·5	25·0	23·9	29·7	81	..	5·8	..	5·9	0	0	30	0	20	9	1	0	0	0	0	1	0
	1730	,,	1008·7	1007·5	..	26·5	24·1	23·2	28·4	83	..	6·1	..	3·3	0	0	21	0	13	7	1	0	0	0	0	10	0
Nancowry	0830	26	1010·9	1008·0	..	27·7	25·3	24·2	30·2	81	..	5·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1008·3	1005·4	..	26·6	24·4	23·4	28·8	83	..	5·3	..	0·2	0	0	1	0	0	0	0	0	0	0	0	30	1
Kondul	0830	8	1010·8	1009·8	..	26·9	24·7	23.8	29·5	83	..	5·3	..	3·5	0	0	18	1	13	4	0	0	0	0	0	13	0
	1730	,,	1008·1	1007·2	..	26·5	24·5	23·7	29·3	84	..	6·0	..	4·0	0	0	22	0	15	7	0	0	0	0	0	9	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1017·1	998·6	..	14·6	11·4	8·2	11·0	65	..	2·9	..	2·4	0	16	13	0	0	0	0	0	0	0	29	2	0
	1730	,,	1012·9	994·6	..	15·9	12·8	10·1	12·2	69	..	3·1	..	9·4	0	7	10	1	0	0	0	0	0	0	16	14	0
Dibrugarh (Mohanbari)	0230	111	1014·5	1001·1	..	9·2	8·7	8·3	10·9	94	..	3·3	..	1·2	0	0	5	0	4	0	1	0	0	0	0	26	0
	0530	,,	1015·1	1001·7	..	8·6	8·3	8·0	10·7	96	..	3·2	..	0·7	0	0	3	1	1	0	0	0	1	0	0	28	0
	0830	,,	1017·3	1004·2	—1·4	14·6	12 9	11·4	13·5	82	—10	2·7	—1 4	4·8	0	0	27	3	18	6	0	0	0	0	0	4	0
	1130	,,	1014·9	1002·0	..	19·9	14·5	9·7	12·0	54	..	2·7	..	4·7	0	0	30	7	16	3	1	1	0	2	0	1	0
	1730	,,	1013·0	1000·0	..	15·3	13·1	11·2	13·3	77	..	2·6	..	0·1	0	0	1	1	0	0	0	0	0	0	0	30	0
	2330	,,	1015·0	1001·7	..	10·4	9·9	9·3	11·7	93	..	3·2	..	1·2	0	0	6	1	4	0	0	1	0	0	0	25	0
Dibrugarh (R)	0830	106																									
(R)	1730	,,																									
Digboi (R)	0830	152																									
(R)	1730	,,																									
North Lakhimpur	0830	102	1017·4	1005·3	—1·2	14·7	12·8	11·1	13·2	80	—4	2·5	—1·1	2·9	0	0	23	7	12	2	0	1	1	0	0	8	0
	1130	,,	1015·0	1003·1	..	19·6	14·6	10·1	12·7	56	..	2·6	..	4·2	0	0	30	3	8	13	4	1	1	0	0	1	0
	1730	,,	1013·1	1001·0	..	16·2	13·7	11·6	13·2	75	..	3·1	..	2·3	0	0	18	8	0	0	0	0	0	0	10	13	0
Sibsagar	0830	97	1017·6	1006·1	—0·8	14·8	13·3	11·9	14·1	83	—10	7·5	+1·1	0·7	0	0	5	1	1	0	0	1	2	0	0	26	0
	1730	,,	1012·9	1001·7	..	19·1	15·6	12·8	14·9	68	..	5·5	..	0·4	0	0	3	0	3	0	0	0	0	0	0	28	0
Gohpur (R)	0830	..																									
(R)	1730	..																									
Majbat	0830	77	..	..	..	..	..	..	..	..	..	2·2	.	2·3	0	0	15	1	7	5	1	0	0	0	1	16	0
	1730	,,	..	..	..	..	..	..	..	..	..	1·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jorhat (Aerodrome)	0530	90	1014.2	1003·1	..	9.1	9·0	9·0	11·4	99	..	4.0	..	1·3	0	0	5	0	2	0	0	1	1	0	1	26	0
	0830	,,	1016·4	1005·9	..	13·2	12·4	11·6	13·7	90	..	3·1	..	3·0	0	0	14	2	6	1	0	1	2	0	2	17	0
	1130	,,	1014·5	1004·1	..	19·6	15·3	11·9	13·9	61	..	1·8	..	8·9	0	0	28	3	17	4	1	0	1	0	2	3	0
	1730	,,	1012·0	1001·6	..	17·1	14·3	12·2	14·2	73	..	2·1	..	2·2	0	0	8	1	5	1	0	0	1	0	0	23	0
	2330	,,	1014·0	1003·7	..	11·1	10·8	10·5	12·7	96	..	1·5	..	2·4	0	0	11	2	4	2	0	1	1	1	0	20	0
Tangla	0830	78	1016·5	1007·0	..	15·1	12·9	11·2	13·1	78	..	0·4	..	0.4	0	0	2	0	2	0	0	0	0	0	0	29	0
	1730	,,	1012·7	1003·4	..	17·3	15·4	12·8	14·7	75	..	0·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tezpur	0830	79	1016·9	1007·6	—1·9	14·4	12·8	11·4	13·5	82	—6	1·9	—0·8	1·2	0	0	13	1	10	1	1	0	0	0	0	18	0
	1730	,,	1012·8	1003·6	..	19·3	15·2	12·2	13·9	63	..	1·6	..	0.6	0	0	3	0	2	0	1	0	0	0	0	28	0
Golaghat	0830	..	..	..	..	15·3	13·1	11·1	13·1	77	..	(c) 3·3	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	..	..	..	..	21·5	15·8	11·1	13·3	53	..	(j) 2·6	..	0	0	0	0	0	0	0	0	0	0	0	0	21	0
Rangia	0830	..	..	1010·4	..	15·8	13·7	12·0	14·0	76	..	(b) 0·9	..	(b) 4·0	0	0	22	2	3	17	0	0	0	0	0	7	0
	1730	..	..	1007·1	..	20·1	16·2	13·3	15·3	65	..	(i) 0·3	..	(i) 0·7	0	0	3	0	1	0	0	0	0	1	1	19	0
Chaparmukh	0830	66	1017·5	1009·8	..	14·7	12·9	11·3	13·4	81	..	2·4	..	3·9	0	0	31	11	1	12	2	5	0	0	0	0	0
	1730	,,	1012·3	1004·6	..	19·8	15·9	13·1	14·9	66	..	2·0	..	3·8	0	0	31	12	3	12	0	2	0	1	1	0	0
Goalpara	0830	38	1017·3	1012·7	..	13·8	12·2	10·7	13·0	82	..	1·7	..	1·5	0	0	16	2	6	1	4	0	0	1	2	15	0
	1730	,,	1012·2	1007·7	..	23·0	16·6	11·5	14·0	49	..	8·0	..	(a) 2·0	0	0	19	1	6	4	0	0	5	1	2	11	0
Gauhati	0830	55	1016·9	1010·4	—1·2	13·7	12·7	11·8	13·8	89	+1	0·9	—11	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1012·6	1006·2	..	20·0	15.8	12·6	14·6	63	..	1·5	..	0·2	0	0	2	0	1	1	0	0	0	0	0	29	0

(b) Mean of 29 days. (R) Register not received. (a) Mean of 30 days. (c) Mean of 28 days. (j) Mean of 21 days. (i) Mean of 22 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed K.m.p.h: Mean wind speed, in Km per hour	Wind speed K.m.p.h: 62 or more	Wind speed K.m.p.h: 20 to 61	Wind speed K.m.p.h: 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(Contd.)																											
Gauhati (Bhorjor)	0230	54	1013.8	1007·3	..	10·0	9·6	9·1	11·5	94	..	1·4	..	0·7	0	0	6	0	2	0	1	1	0	0	2	25	0
	0530	,,	1014·2	1007·7	..	8·9	8·5	8·2	10·9	95	..	1·5	..	0.3	0	0	3	1	0	0	0	1	0	0	1	28	0
	0830	,,	1016·7	1010·3	−1·4	14·5	13·2	12·1	14·1	86	+2	1·8	−0·2	1·5	0	0	11	2	6	2	0	0	0	0	1	20	0
	1130	,,	1014·7	1008·4	..	20·6	15·6	11·7	13·7	57	..	1·6	..	5·1	0	0	27	10	9	1	0	0	0	3	4	4	0
	1730	,,	1012·4	1006·1	..	17·8	14·6	11·9	13·9	69	..	3·0	..	1·8	0	0	18	4	6	0	0	0	1	4	3	13	0
	2330	,,	1014·4	1007·9	..	11·7	11·1	10·4	12·6	92	..	1·6	..	0·9	0	0	5	1	0	2	0	1	1	0	0	26	0
Dhubri (Rupsi)	0530	36	1013·4	1009·0	..	9·1	8·6	8·0	11·0	93	..	1·6	..	1·0	0	0	8	0	8	0	0	0	0	0	0	23	0
	0830	,,	1015·7	1011·3	..	14·6	12·9	11·3	13·5	80	..	1·5	..	5.5	0	0	23	0	18	1	1	1	2	0	0	8	0
	1130	,,	1014·0	1009·8	..	20·7	15·4	11·1	13·2	56	..	1·2	..	8·2	0	0	31	0	6	10	9	0	3	1	2	0	0
	1730	,,	1011·9	1007·6	..	16·8	14·7	13·0	15·0	78	.	1·2	..	0·7	0	0	5	3	0	0	0	0	1	1	0	26	0
Dhubri . . .	0830	35	1017·5	1013·3	−0.4	14·5	13·0	11·6	13·7	83	−1	0·8	−0·9	1·8	0	0	13	0	10	0	1	1	0	0	1	18	0
	1730	,,	1012·9	1008·8	..	19·2	15·0	11·4	13·7	61	..	1·0	..	1·1	0	0	11	2	8	0	0	0	0	1	0	20	0
Lumding . .	0830	149	1016·7	999·1	..	12·5	11·2	10·1	12·3	85	−5	1·0	..	0.3	0	0	3	1	0	1	1	0	0	0	0	28	0
	1730	,,	1011·9	994·9	..	19·5	16·3	13·6	12·3	68	..	1·6	..	0.2	0	0	2	0	1	0	0	1	0	0	0	29	0
Umroi . . .	0830	899	..	..	..	8·7	8·1	7·5	10·4	92	..	0·8	..	0.8	0	0	6	0	2	3	1	0	0	0	0	17	0
	1130	,,	..	..	..	17·8	11·4	5·1	8·8	44	..	2·3	..	9.3	0	0	23	2	7	5	3	0	0	0	6	0	0
	1730	,,	..	..	..	13·5	11.2	9·1	11.5	74	..	4·0	..	7.8	0	0	18	5	1	0	1	0	0	1	10	4	0
Tura . . .	0830	370	1017·2	974·1	..	15·4	12.6	10·1	12·3	70	..	1·1	..	2.4	0	0	22	0	2	10	9	0	1	0	0	9	0
	1730	,,	1012·8	970·7	..	20·4	15·0	10·3	12·7	54	..	3·6	..	2·2	0	0	19	0	3	1	1	2	9	3	0	12	0
Haflong . . .	0830	682	1015·4	937·8	..	14·1	11·0	8·3	11·0	68	..	1·4	..	7.6	0	0	31	9	0	0	0	0	9	0	13	0	0
	1730	,,	1011·5	934·4	..	16 2	12·2	8·6	11·3	61	..	1·1	..	9.6	0	0	31	13	4	0	0	1	12	0	1	0	0
Silchar (Kumbhirgram)	0530	97	1012·8	1001·3	..	10·9	10·2	9·4	11·8	90	..	1·0	..	8.7	0	0	30	0	2	28	0	0	0	0	0	1	0
	0830	,,	1015·1	1003·7	..	14·9	12·6	10·5	12·7	75	..	0·7	..	9.1	0	0	31	0	0	26	3	0	0	2	0	0	0
	1130	,,	1012·8	1001·6	..	21·5	15·7	10·8	13·2	51	..	1·0	..	5.2	0	0	29	1	1	14	4	1	4	3	1	2	0
	1730	,,	1010·8	999·6	..	20·3	15·7	11·9	14·2	59	..	0·6	..	1.9	0	0	16	2	3	0	0	0	7	2	2	15	0
Silchar	0830	29	1016·4	1012·9	−1·6	15·3	13·1	11·3	13·5	77	−6	1·0	−0·8	0.2	0	0	2	0	0	1	1	0	0	0	0	29	0
	1730	,,	1012·2	1008·7	..	20·3	15·5	11·7	14·0	57	..	0·5	..	0.1	0	0	1	0	0	0	0	0	0	1	0	30	0
Imphal (Tulihal) .	0530	781	1018·6	926·5	..	3·7	3·7	3·6	7·9	99	..	1·6	..	0.2	0	0	1	0	0	0	0	0	0	1	0	30	0
	0830	,,	1019·0	928·9	+1·1	9·9	8	6·5	9·7	79	+3	2·3	+0·1	1·3	0	0	12	2	2	0	2	1	2	1	2	19	0
	1130	,,	1014·1	926·6	..	17·5	12·1	7·2	10·1	52	..	1·5	..	5.2	0	0	28	1	0	1	1	5	8	7	5	3	0
	1730	,,	1012·5	924·3	..	14·7	11·0	7·5	10·4	63	..	1·5	..	5.6	0	0	28	0	0	3	3	1	1	11	9	3	0
	2330	,,	1017·1	926·5	..	7·7	7·1	6·4	9·6	92	..	1·3	..	0·7	0	0	6	2	2	1	0	0	1	0	0	25	0
Kailashahar . .	0530	29	1014·5	1011·0	..	8·9	8·6	8·2	11·0	95	..	0·8	..	0·3	0	0	3	0	0	0	0	2	1	0	0	28	0
	0830	,,	1016·6	1013·1	..	14·2	12·3	10·6	12·8	79	..	0·7	..	1·9	0	0	17	0	0	0	0	7	5	5	0	14	0
	1130	,,	1013·0	1011.6	..	22·5	16·1	10·9	13·0	48	..	1·1	..	3·9	0	0	25	7	0	1	1	3	4	8	1	6	0
	1730	,,	1012·7	1009·3	..	19·6	15·4	12·1	12·8	63	..	1·1	..	0·5	0	0	1	0	0	0	0	0	0	0	1	30	0
Agartala .	0230	16	1012·8	1010·9	..	10·5	9·5	8·5	11·1	88	.	7·4	..	0·7	0	0	5	0	0	1	2	0	0	0	2	26	0
	0530	,,	1013·0	1011·1	..	9·0	8·5	7·8	10·6	92	..	0·9	..	1·2	0	0	10	0	1	1	7	1	0	0	0	21	0
	0830	,,	1015·3	1013·4	−1.2	16·2	13.6	11·5	13·4	74	−5	0·8	−1.0	2·3	0	0	15	5	2	0	5	0	2	1	0	16	0
	1130	,,	1013·7	1011·9	..	23·4	15·6	8·7	11.4	40	..	1·2	..	9·0	0	0	30	8	2	2	2	2	3	2	9	1	0
	1730	,,	1011·7	1009.9	..	20·1	14·7	9·9	12·2	53	.	1·3	..	3·3	0	0	18	3	0	0	1	2	1	2	9	13	0
	2330	,,	1013·5	1011·6	..	12·1	10·8	9·6	11·9	85	..	0·4	..	1·4	0	0	9	0	0	2	4	0	1	1	1	22	0
Sub-Himalayan West Bengal																											
Baghdogra .	0230	131	1013·5	997·9	..	11·1	10·3	9·6	11·9	91	..	1·3	..	2·2	0	0	18	15	1	0	1	1	0	0	0	13	0
	0530	,,	1014·1	998·4	..	8·3	8·2	8·4	10·8	99	..	1·3	..	3.0	0	0	23	15	0	1	0	0	1	4	2	8	0
	0830	,,	1016·3	1000.8	−1·3	14·4	12·7	11·2	13·3	83	+2	1·4	−0·9	2·8	0	0	16	7	5	2	0	0	1	1	0	15	0
	1130	,,	1014·6	999·4	..	21·4	17·0	13·8	15·8	63	..	1·7	..	7·1	0	0	28	1	1	5	12	2	5	2	0	3	0
	1730	,,	1012·3	997.0	..	16·9	15·1	13·6	15·5	81	..	2·8	..	2·8	0	0	21	2	2	0	1	0	6	8	2	10	0
	2330	,,	1014·3	998·7	.	12·8	11·7	10·7	12·9	86	..	1.2	..	2·3	0	0	19	16	1	1	0	0	0	1	0	12	0
Jalpaiguri .	0830	83	1016·5	1006·6	−1·2	12·2	11·4	10·7	12·9	91	+5	1·5	+0·1	3.5	0	0	25	11	2	1	0	0	0	0	11	6	0
	1730	,,	1012·1	1002·6	..	19·3	15·1	11·7	13·7	62	..	1·3	..	2.5	0	0	16	1	0	3	0	2	8	1	1	15	0
Cooch Behar . .	0830	43	1016·5	1011·4	..	14.6	12.8	11·2	13·3	80	..	1·3	..	3·6	0	0	19	0	9	9	0	0	0	0	0	12	1
	1130	,,	1014·8	1009·8	..	21·0	15·4	11·3	13.4	53	..	1·2	..	8·2	0	2	27	0	5	15	2	0	1	2	0	2	4
	1730	,,	1012·4	1007·5	..	17·6	14·5	11·8	13·8	69	..	1·2	..	1·0	0	0	4	1	0	1	0	0	0	2	0	27	0
Balurghat . .	0830		..	..	..	15·0	12·5	10·5	12·7	73	..	(e) 0·1	..	(e) 3·7	0	0	25	6	4	0	0	0	2	6	7	1	0
	†1730	..	..	..	..	20·8	15·4	11·0	13·1	54	..	0	..	0·6	0	0	4	0	0	0	0	0	1	2	1	21	0
Malda .	0830	31	1016·9	1013·1	−0·8	16·6	12·8	9·3	11·7	63	−9	0·9	−0·1	6·2	0	0	30	3	2	3	0	1	2	4	15	1	0
	1730	,,	1012·8	1012·8	..	20·1	15·0	10·8	12·9	55	..	0·9	..	3·6	0	0	25	0	1	0	0	0	1	7	16	6	0

†Observations for 25 days, *Observatory closed 23-1-62. (i) Mean of 22 days. (h) Mean of 23 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal —(*Contd.*)																											
Berhampore	0830	19	1016.3	1013·9	—1·6	15·0	12·2	9.6	12·0	71	—6	0·8	—1·0	3·5	0	0	27	5	2	2	0	2	2	11	3	4	0
	1730	,,	1012·2	1010.0	..	20·1	14·8	10·2	12·4	54	..	0·6	..	0·4	0	0	4	1	0	0	0	2	0	0	1	27	0
Suri	0830	..	..	..	..	15·3	11·8	8·4	11·0	64	..	1.0	..	5·2	0	0	31	5	2	1	1	1	0	15	6	0	0
Asansol	0230	126	1014.2	990.2	..	12·7	11·1	9·6	11·9	81	..	0.7	..	0·9	0	0	7	0	0	0	0	0	0	3	4	24	0
	0530	,,	1014·7	999.6	..	11.3	10·3	9.3	11·7	88	..	0·6	..	0·7	0	0	5	0	0	0	0	0	0	2	3	26	0
	0830	,,	1016·9	1002·0	—0·7	15·4	12·7	10.3	12·5	72	+6	0.5	—1.4	4·7	0	0	23	1	1	2	0	0	0	5	14	8	0
	1130	,,	1015·5	1000·9	..	21·6	15·2	9.8	12.1	47	..	0·5	..	9·3	0	2	26	2	0	4	1	0	0	3	18	3	0
	1730	,,	1012·9	998.2	..	20·5	14·8	9·9	12·2	51	..	1·1	..	2·6	0	0	16	1	1	1	0	0	0	2	11	15	0
	2330	,,	1014·9	1000.0	..	14·2	11·9	9·8	12·1	75	..	0.8	..	1·0	0	0	5	0	0	1	0	1	0	1	2	26	0
Shanti Niketan	0830	59	1017·0	1010·1	..	15·8	12·7	9·9	12.2	68	..	0.8	..	4·3	0	0	24	2	1	2	1	1	0	4	13	7	0
	1130	,,	1015·5	1008.7	..	21·9	15·5	10.2	12.4	47	..	0·8	..	5·9	0	2	27	9	3	3	1	2	0	1	10	2	0
	1730	,,	1013·0	1006·2	..	18·8	14·3	10·5	12·7	59	..	0·9	..	3·0	0	0	26	6	3	3	2	0	0	0	12	5	0
Krishnanagar	0830	15	1021·3	1016·6	+0·9	15·4	12.5	10·1	12·3	70	—3	0·5	—0.8	0.3	0	0	3	1	1	0	0	1	0	0	0	28	0
	1730	,,	1015·8	1011·1	..	21·1	15·7	11·7	13·7	56	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Purulia	0830	255	1017·4	987.4	—1·0	14·8	10.8	6·6	9·7	57	—3	0·4	—1·2	3·9	0	0	25	0	2	0	2	0	0	8	13	6	0
	1730	,,	1012.7	983·6	..	20·9	14.0	7·6	10·4	43	..	1.0	..	1·2	0	0	10	2	1	0	1	0	0	0	6	21	0
Burdwan	0830	32	1016·1	1012·5	—1·3	17·6	13.0	8.7	11·2	57	—13	0.6	—1·2	1.6	0	0	14	5	1	2	0	0	0	2	4	17	0
	1730	,,	1012·4	1008·6	..	21·8	15·4	10·1	12.1	47	..	0·5	..	1·0	0	0	7	4	0	1	0	1	0	0	1	24	0
Barrackpore (Aerodrome)	0530	7	1014·1	1013·3	..	10·7	9·8	8·9	11·4	89	..	0·9	..	0.4	0	0	2	1	0	0	0	0	0	1	0	29	0
	0830	,,	1016·6	1015·8	—0·8	15·8	13·1	10·7	12·9	71	—3	1·1	—0·9	2·8	0	0	23	7	3	1	0	0	2	0	10	8	0
	1130	,,	1015.6	1014·8	..	22·1	15·1	9·0	11·5	44	..	0·9	..	10·3	0	0	30	10	4	4	1	0	2	2	7	1	0
	1730	,,	1012·8	1012·0	..	20·6	15·1	10·5	12·7	53	..	0·9	..	1·5	0	0	10	1	1	0	0	0	0	2	6	21	0
	2330	,,	1014·8	1014·0	..	13·2	11·7	10.3	12.5	84	..	0·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Calcutta (Dum Dum)	0230	6	1013·4	1012·6	..	11·3	10·7	10.0	12.3	92	..	0·1	.	0·7	0	0	7	4	0	0	0	1	1	0	1	24	0
	0530	,,	1013·8	1013·0	..	10·6	10·1	9.7	12·0	93	..	0·7	..	0·6	0	0	6	2	1	0	1	0	0	0	2	25	0
	0830	,,	1016·3	1015·5	—1·1	15·9	13·4	11·9	13·9	74	+1	1·0	—0·6	3.0	0	0	23	13	3	0	1	0	0	2	4	8	0
	1130	,,	1015·1	1014·3	..	22·7	15·5	9·4	11·8	42	..	1·0	..	6·3	0	0	30	12	4	0	1	0	2	2	9	1	0
	1730	,,	1012·5	1011.7	..	21·0	15·8	11·7	13·7	56	..	0·9	..	0·4	0	0	4	1	1	0	0	0	0	0	2	27	0
	2330	,,	1014·2	1013.4	..	12·8	11·9	11·0	13·1	89	..	0·5	..	0·5	0	0	4	1	1	0	0	0	2	0	0	27	0
Calcutta	0830	6	1016·0	1015·2	—1·5	15·6	13·0	10·7	12.9	72	—10	0·9	—0.9	4·8	0	0	28	5	2	0	0	0	5	3	13	3	0
	1130	,,	1014·6	1013·9	..	23·2	15·4	8·6	11.2	40	..	0·6	..	6·4	0	0	31	8	1	0	4	1	2	3	12	0	0
	1730	,,	1012·2	1011·5	..	21·7	15·6	10·5	12.7	48	..	0·6	..	2.2	0	0	19	3	0	0	2	0	1	3	10	12	0
Midnapore	0830	45	1016·5	1011·1	—1·1	17·4	12·8	8·5	11.1	55	—9	0.5	—1.3	3·2	0	0	21	9	9	0	0	1	0	0	0	10	0
	1730	,,	1012·3	1007·1	..	22·9	14·5	7·1	10.0	35	..	0·5	..	2·3	0	0	22	16	3	0	0	1	0	1	1	9	0
Contai	0830	11	1016·2	1014·9	—0·6	16·6	13.5	10·6	12·8	67	—5	0·6	—0·4	3·0	0	0	26	21	0	0	0	0	1	1	3	5	0
	1730	,,	1012.4	1011·2	..	20·9	15·7	11.9	13·9	59	..	0.5	..	2.5	0	0	20	3	0	0	2	11	4	0	0	11	0
Saugar Island	0830	3	1015·8	1015 4	—1·4	18·2	15·6	13.6	15·5	74	—6	1·1	—1·1	11·0	0	0	31	14	11	0	0	0	1	1	4	0	0
	1730	,,	1012·4	1012·1	..	20·3	16·3	13·3	15·3	65	..	1·6	..	11 1	0	0	31	9	6	1	3	6	4	0	2	0	0
Sandheads	0530	10	1012·5	1011·4	..	20·4	16·9	14·2	16·2	68	..	0·4	..	11·8	0	0	29	17	3	0	1	1	3	0	4	2	0
	0830	,,	1015·1	1014·0	—2·1	21·9	17·6	14·5	16·5	64	+1	0·5	—1.3	12·2	0	0	28	20	3	1	1	0	1	1	1	3	0
	1130	,,	1014·5	1013·4	..	22·5	18·0	14·9	16·9	62	..	0·5	..	11·6	0	1	29	22	2	1	0	1	0	1	3	1	0
	1730	,,	1012·0	1010·9	..	22·5	17·6	14·1	16·1	60	..	0.8	..	8·3	0	1	22	8	3	1	1	1	3	2	4	8	0
	2330	,,	1013·4	1012·3	..	20·9	17·0	14·1	16·1	66	..	0.2	..	7.3	0	0	26	8	3	0	2	3	5	0	5	5	0
Orissa																											
Baripada	0830	54	1017·7	1011·3	..	17·7	12·9	8·4	11.0	55	..	0·8	..	2·5	0	0	23	14	5	0	1	0	2	0	1	8	0
	1730	,,	1013·1	1006.8	..	21·5	15·1	9·6	11·5	47	..	0.4	..	1·1	0	0	10	4	1	0	4	0	1	0	0	21	0
Jharsuguda	0230	230	1013·9	986·7	..	12·2	10·7	9·2	11·6	83	..	0.6	..	2.3	0	0	15	9	3	2	0	0	0	1	0	16	0
	0530	,,	1014·4	987·0	..	10·5	9·6	8·7	11·2	88	..	0.7	..	4·0	0	0	18	14	3	1	0	0	0	0	0	13	0
	0830	,,	1016·7	989·6	—0·9	14·5	11·6	8·8	11·3	69	+1	0 7	—0·8	5·3	0	0	25	16	6	2	0	0	1	0	0	6	0
	1130	,,	1015.2	988·9	..	21·9	14·2	6·9	9·9	38	..	0·7	..	6.0	0	0	29	10	8	4	4	1	0	1	1	2	0
	1730	,,	1012·1	985.8	..	22.1	14.9	8·5	11·1	42	..	1·3	..	3·4	0	0	17	0	1	0	2	6	6	1	1	14	0
	2330	,,	1014·7	987·6	..	14.4	12.0	9·8	12·1	74	..	0·7	..	3·1	0	0	19	5	1	3	4	1	0	2	3	12	0
Keonjhargarh	0830	463	1013.6	960.7	..	17.4	12.5	8·3	11.1	56	..	0·3	..	2·9	0	0	27	6	5	2	0	0	1	2	11	4	0
	1730	,,	1009.1	957.1	..	21.4	14.2	8·5	10·9	45	..	1·2	..	2·7	0	0	28	6	5	2	2	1	0	6	6	3	0
Balasore	0830	20	1016·3	1013·9	—1.3	17.0	13·7	10·9	13·0	67	—5	0·7	—1·1	5·9	0	0	29	18	3	1	0	1	1	0	4	3	0
	1730	,,	1012.3	1010.0	..	21.1	16·5	13·5	15.5	60	..	1·6	..	2·3	0	0	18	0	0	0	10	8	0	0	0	13	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(Contd.)																											
Sambalpur	0830	148	1016·5	999·2	—1·1	17·8	14·6	12·0	14·0	69	—2	0·5	—1·3	1·1	0	0	7	2	3	0	0	1	0	0	1	24	0
	1730	,,	1012·2	995·2	..	22·7	17·8	14·4	16·4	59	..	0·8	..	0·7	0	0	6	2	1	0	0	0	1	0	2	25	0
Angul	0830	139	1016·9	1000·8	—0·4	16·0	13·0	10·3	12·4	69	—4	0·3	—2·0	2·3	0	0	22	2	0	0	1	0	0	4	15	9	0
	1730	,,	1012·3	996·4	..	23·3	16·5	11·3	13·4	46	..	0·6	..	1·9	0	0	19	2	1	1	1	2	0	0	12	12	0
Cuttack	0830	27	1016·3	1013·1	—1·3	16·9	14·9	13·4	15·4	79	+1	0·6	—1·4	0·7	0	0	3	0	1	1	0	0	0	0	1	28	0
	1730	,,	1012·4	1009·4	..	24·2	17·6	12·8	14·8	49	..	1·1	..	1·0	0	0	4	0	0	0	1	0	1	0	2	27	0
Chandbali	0830	6	1016·1	1015·4	—1·1	18·7	15·1	12·3	14·3	69	—6	0.5	—1·3	4·5	0	0	29	1	6	11	9	0	0	1	1	2	0
	1730	,,	1012·7	1012·0	..	21·7	15·8	10·7	12·9	52	..	0·3	..	5·4	0	0	26	9	5	0	1	0	0	1	10	5	0
Balangir	0830	190	1015·0	992·9	..	17·7	13·6	10·1	12·3	62	..	0·3	..	3·2	0	0	31	12	5	3	3	5	2	1	0	0	0
	1730	,,	1010·8	989·5	..	23·7	16·2	10·0	12·3	43	..	0·2	..	2·7	0	0	31	15	8	1	0	0	1	5	1	0	0
Phulbani	0830	464	1014·9	961·1	..	13·1	10·7	8·5	11·1	73	..	0·3	..	0·2	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	,,	1009·9	957.8	..	21·5	17·5	15·0	17·0	67	..	0·4	..	0·2	0	0	1	0	0	0	0	0	0	0	1	30	0
Titlagarh	0830	211	1014·2	989·5	..	18·7	16·4	14·8	16·7	78	..	..	..	3·0	0	0	31	0	29	0	2	0	0	0	0	0	0
	1730	,,	1014.1	990.3	..	23·5	20·7	19·2	22·2	77	..	..	..	3·0	0	0	31	0	28	0	3	0	0	0	0	0	0
Bhubaneswar	0230	46	1013·5	1008·0	..	15.9	14·1	12·8	14·8	81	..	0·4	..	2·1	0	0	13	6	1	0	0	0	0	1	5	18	0
	0530	,,	1013·8	1008.3	..	14·4	13·0	11·8	13·8	85	..	0·6	..	4.2	0	0	20	10	1	0	0	0	0	1	8	11	0
	0830	,,	1016·0	1010·5	—1·1	19·0	15·3	12·6	15·6	65	—5	0·6	—1·2	5·0	0	0	23	8	6	0	1	1	0	4	3	8	0
	1130	,,	1015·0	1009·7	..	24·3	15·8	8·6	11·2	39	..	0·6	..	1·3	0	0	29	2	10	5	3	1	5	2	1	2	0
	1730	,,	1012·4	1007·1	..	23·4	15·9	9·9	12·2	43	..	1·2	..	6·3	0	0	30	10	4	3	7	1	0	1	4	1	0
	2330	,,	1014·6	1009·1	..	17·4	14·7	13·1	15·1	77	..	0·3	..	4·1	0	0	19	1	0	3	3	1	4	2	5	12	0
Puri	0830	6	1016·1	1015·4	—0·9	19·2	16·3	14·0	16·0	70	—7	0·6	—1·2	8·1	0	0	31	27	0	0	3	0	1	0	0	0	0
	1730	,,	1012·7	1012·0	..	22·2	18·0	15·2	17·3	64	..	1·4	..	14·7	0	6	25	1	0	5	17	6	2	0	0	0	0
Gopalpur	0530	17	1013·9	1011·8	..	15·0	13·5	12·3	14·2	83	..	0·6	..	10·2	0	0	30	7	0	0	0	0	0	1	22	1	0
	0830	,,	1016·2	1014·2	—0·8	18·7	15·3	12·6	14·6	68	—6	0·9	—0·5	12·5	0	0	31	14	0	0	0	0	0	0	17	0	0
	1130	,,	1015·2	1013·2	..	25·2	18·6	14·1	16·1	53	..	1·2	..	10·5	0	0	31	4	2	12	9	3	0	0	1	0	0
	1730	,,	1012·6	1010·6	..	22·7	18·0	14·8	16·8	62	..	1·3	..	14·9	0	1	30	1	1	17	9	2	1	0	0	0	0
	2330	,,	1014·7	1012·7	..	18·2	16·1	14·4	16·4	79	..	0·9	..	6·3	0	0	27	7	0	0	0	1	3	1	15	4	0
Koraput	0830	913	1527·3	913·8	—0·9	16·7	11·9	7·3	10·2	52	—17	1·3	—0·1	5·3	0	0	31	1	4	5	10	10	1	0	0	0	0
	1730	,,	1488·8	909·4	..	17·6	12·2	7·4	10·3	51	..	0·9	..	7·4	0	1	30	21	4	0	0	1	0	0	5	0	0
Bihar Plateau																											
Dumka	0830	149	1016·8	999·2	—1·2	14·5	11·8	9·3	11·7	71	+5	0·7	—0·7	1·2	0	0	7	0	0	0	0	0	1	5	1	24	0
	1730	,,	1012·5	995·2	..	19·8	14·9	10·9	13·0	58	..	0·8	..	1·2	0	0	8	1	0	0	0	0	0	5	2	23	0
Daltonganj	0830	221	1017·0	990·9	—1·5	14·3	10·8	7.2	10·1	62	—18	0·8	—0·8	0·2	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	,,	1012·1	986·7	..	20·7	15·0	10.2	12·4	52	..	1·3	..	0·5	0	0	4	1	0	0	0	0	0	2	1	27	0
Hazaribagh	0830	611	1016·8	946·3	—1·2	13·3	9·5	6·7	9.8	61	+1	1·1	—0·8	4·3	0	0	18	1	1	0	1	2	2	3	8	13	0
	1730	,,	1012·8	943·5	..	17·5	11·2	5·0	8·7	44	..	1·4	..	6·7	0	0	26	6	1	1	1	1	0	0	16	5	0
Dhanbad	0830	257	1016·5	986·3	..	14·9	11·0	6·9	9.9	60	..	0·5	..	3·7	0	0	25	9	2	1	1	0	0	9	3	6	0
	1730	,,	1012·4	982·8	..	19·9	13.3	7·0	10·0	43	..	1·8	..	3·3	0	0	16	5	1	1	0	0	0	1	7	15	1
Ranchi	0830	655	1016·4	941·8	—0·6	15·7	10·7	5·5	9·0	50	—9	0·4	—1·7	2·5	0	0	24	2	3	2	4	2	1	3	7	7	0
	1730	,,	1014·6	940·9	..	18·9	13·0	7·9	10·7	47	..	0·6	..	1·8	0	0	19	1	2	1	5	0	1	0	9	12	0
Ranchi Aerodrome	0530	652	1015·5	939·7	..	9·2	6.9	4·3	8·3	71	..	0·5	..	2·7	0	0	14	2	1	0	0	2	1	1	7	17	0
	0830	,,	1016·3	941·6	..	14·4	9·4	4·1	8·2	53	..	0·8	..	5.8	0	0	26	9	0	0	1	3	3	0	10	5	0
	1130	,,	1014·3	941·0	..	19 2	11·2	2·9	7·5	34	..	0·8	..	9.9	0	1	29	10	1	1	3	2	2	1	10	1	0
	1730	,,	1011·6	938·5	..	19·5	11·3	3·1	7·6	33	..	(i) 2·2	..	(i) 8·6	0	0	22	7	1	1	1	2	1	0	9	0	0
Jamshedpur	0830	129	1017·0	1001·6	—1·2	13·1	11·1	9·2	11·6	77	+3	0·4	—1·5	3·5	0	0	27		0	3	0	0	0	15	8	4	0
	1730	,,	1012·1	997·4	..	22·3	15·3	9·2	11·6	44	..	0·9	..	1·2	0	0	11	2	1	3	1	0	0	3	1	20	0
Jamshedpur (P.B.O.)	0530	142	1014·7	997·7	..	10·1	9·1	8·1	10·8	88	..	0·5	..	2·4	0	0	11	1	0	2	0	0	2	3	3	20	0
	0830	,,	1017·0	1000·2	..	13·5	11·0	8·4	11·0	72	..	0·5	..	4·5	0	2	20	1	0	0	1	0	2	7	11	9	0
	1130	,,	1015·3	998·9	..	21·4	13·9	7·0	10·0	38	..	0·4	..	8·1	0	0	29	2	1	1	2	2	3	5	13	2	0
	1730	,,	1012.1	995·9	..	23·0	14·7	7·3	10·2	37	..	0·9	..	3·5	0	0	20	0	1	3	1	2	1	4	8	11	0
	2330	,,	1014·7	997·9	..	13·4	11·3	9·5	11·9	76	..	0·3	..	2·4	0	0	13	0	3	0	0	0	2	1	7	18	0
Chaibasa	0830	226	1015·9	989·6	—1.5	14·5	11·2	7·8	10·6	64	—12	0.5	—1·5	2·1	0	0	24	0	1	0	0	0	20	1	2	7	0
	1730	,,	1012·0	986·1	..	21·4	14·5	8·1	10·8	45	..	1.2	..	0·6	0	0	7	0	1	1	1	0	4	0	0	24	0
Bihar Plains																											
Motihari	0830	66	1016·4	1008·6	—0·8	15·8	13·8	12·2	14·2	79	+1	(e) 0·5	—1·5	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Purbeaganj	1730	,,	1011·6	1003·9	..	16·9	14·2	12.0	14·0	75	..	(e) 0	..	(e) 0	0	0	0	0	0	0	0	0	0	0	0	26	0
	0830	61	1016·1	1008·9	..	12·8	11·4	10·1	12·3	84	..	1·1	..	2·5	0	0	23	2	5	2	1	0	1	11	1	8	0
	1730	,,	1012·4	1005·4	..	19·3	15·0	11·5	13·6	62	..	1·4	..	1·8	0	0	17	0	1	0	0	1	0	15	0	14	0

(i) Mean of 22 days. (e) Mean of 26 days.

Division and station	Hours of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km p.h.): 62 or more	Wind speed (Km p.h.): 20 to 61	Wind speed (Km p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Bihar Plains—(*Contd.*)																										
Darbhanga	0830	49	1016·5	1010·6	−1·3	17·1	13·5	10·4	12·6	64	−18	0·4	−0·2	1·7	0	0	15	2	0	3	1	0	3	4	2	16
	1730	,,	1012·8	1007·0	..	18·7	14·4	10·8	12·9	61	..	0·8	..	1·3	0	0	14	0	0	4	0	0	3	4	3	17
Chapra	0830	..	..	..	..	12·8	10·8	8·8	11·3	76	..	0·8	..	5·0	0	0	30	0	3	2	1	2	19	3	0	1
	1730	..	..	..	..	17·7	13·6	9·9	12·2	62	..	0·9	..	0·9	0	0	10	0	1	1	0	0	2	4	2	21
Purnea	0830	38	1016·9	1012·3	−1·1	14·0	11·8	9·8	12·1	75	−10	0·9	−0·5	1·8	0	0	17	0	0	2	0	0	7	8	0	14
	1730	,,	1012·7	1008·3	..	19·0	15·0	11·8	13·8	63	..	0·9	..	0·5	0	0	4	0	1	0	0	0	2	1	0	27
Patna	0830	53	1016·6	1010·2	−1.6	11·9	10·0	8·0	10·7	77	+6	0·9	−0.8	5·6	0	0	26	1	3	1	1	2	13	5	0	5
	1730	,,	1012·9	1006·8	..	19·7	13·8	8·4	11·0	48	..	1·2	..	4·3	0	0	20	0	4	0	0	0	0	15	1	11
Patna Aerodrome	0530	60	1013·8	1006·6	..	9·3	8·3	7·2	10·1	87	..	1·2	..	2·8	0	0	12	0	2	1	0	0	2	5	2	19
	0830	,,	1016·2	1009·0	..	13·1	10·5	7·9	10·7	71	..	1·0	..	6·1	0	0	23	0	1	3	1	1	7	8	2	8
	1130	,,	1015·5	1008·6	..	19·5	13·8	8·6	11·2	50	..	1·3	..	9·0	0	0	29	1	2	3	3	1	0	7	12	2
	1730	,,	1012·6	1005·7	..	19·1	14·1	9·7	12·0	54	..	1·3	..	2·9	0	0	12	1	1	0	0	0	0	4	6	19
	2330	52	1014·8	1008·7	..	12·6	11·1	9·7	13·2	83	..	1·8	..	1·0	0	0	4	0	0	1	1	0	0	2	0	27
Bhagalpur	0530	49	1014·7	1008·8	..	11·5	9·8	8·0	10·7	80	..	1·0	..	3·1	0	0	15	0	0	2	0	1	7	4	1	16
	0830	,,	1017·2	1011·4	−0·8	13·7	11·2	8·9	11·4	73	−3	1·0	−0·7	2·7	0	0	14	0	0	2	0	0	6	5	1	17
	1130	,,	1016·3	1010·6	..	19·1	13·9	9·0	11·5	53	..	1·2	..	8·2	0	1	28	0	2	3	1	0	0	13	10	2
	1730	,,	1013·3	1007·7	..	18·5	14·2	10·5	12·7	59	..	0·9	..	6·1	0	0	24	0	0	2	0	0	1	16	5	7
	2330	,,	1015.1	1009·4	..	14·3	11·6	9·0	12·2	70	..	0·5	..	4·6	0	0	19	0	1	2	1	1	9	5	0	12
Sabaur	0830	37	1016·8	1012.3	−1.3	13·8	11·7	9·7	12·0	76	−6	1·0	−0.8	3·8	0	0	27	0	0	4	2	2	9	9	1	4
	1730	,,	1012·9	1008·5	..	19·0	15·2	12·2	14·2	64	..	1·3	..	2·8	0	0	19	1	0	1	0	0	9	4	13	12
Jamui	0830	82	1017.4	1007·4	..	12·2	11·1	10·1	12·3	87	..	0·7	..	2·9	0	0	24	0	2	8	6	0	0	4	4	7
	1730	,,	1012.9	1003·1	..	18·7	15·1	12·4	14·4	66	..	0·8	..	3.2	0	0	25	0	0	2	1	0	0	8	14	6
Dehri	0830	107	1016·7	1003·9	..	13·5	11·0	8·5	11·1	73	..	0·9	..	3·2	0	0	31	0	0	3	4	8	12	3	1	0
	1730	,,	1012·6	1000·1	..	20·6	13·5	6·6	9·7	42	..	0·8	..	3·8	0	0	31	1	4	4	0	0	1	14	7	0
Gaya	0230	116	1015·0	1001·0	..	9·9	8·3	6·6	9·7	79	..	0·5	..	5·5	0		27	0	2	0	7	11	5	0	2	4
	0530	,,	1015·0	1001.0	..	8·6	7·3	6·0	9·3	83	..	0·7	..	5·9	0	0	30	0	2	1	8	13	4	1	1	1
	0830	,,	1017·2	1003·3	−0·9	12·9	10·3	7·7	10·5	70	+7	1·2	−0·5	6·6	0	0	31	0	1	4	1	14	9	2	0	6
	1130	,,	1016·5	1002·9	..	20·3	13·5	6·8	10·6	42	..	1·0	..	12·3	0	3	27	2	3	3	1	1	1	11	7	1
	1730	,,	1013·4	999·9	..	19·5	13·3	7·5	10·4	46		1·0	..	8.9	0	0	30	4	8	0	0	0	0	1	17	1
	2330	,,	1015·6	1001·7	..	11·7	9·4	6·8	9·9	72	..	0·6	.	6·3	0	1	26	0	0	2	4	9	8	3	1	4
Uttar Pradesh (East)																										
Kheri (R)	0830	147																								
(R)	1730	,,																								
Bahraich	0830	124	1016·5	1001·6	−0.9	11·5	9·6	7 5	10·4	77	−4	1.4	−0·1	3·9	0	0	23	1	0	6	0	0	1	15	0	8
	1730	,,	1013·9	999.3	..	16·9	12·8	8 9	11·5	60	..	(a) 1·6	..	(a) 1·9	0	0	20	1	0	4	2	0	1	12	0	10
Nautanwa	0830	99	1015·9	1003·8	..	9·6	9·0	8·4	11·0	92	..	1·7	..	0·9	0	0	9	0	4	2	2	0	1	0	0	22
	1730	,,	1013·9	1002·3	..	19·5	14·7	10·6	12·9	57	..	0·4	..	2·4	0	0	21	0	0	1	7	1	8	0	4	10
Hardoi	0830	142	1016·5	999·3	−1.1	9·1	7·8	6·2	9·5	82	−4	1·0	−1·3	5·0	0	1	19	1	0	4	0	0	2	11	2	11
	1730	,,	1013·3	996·6	..	18·3	13·2	8·3	11·1	53	.	1·2	..	4·8	0	0	22	0	0	3	4	0	1	12	2	9
Gonda	0830	110	1016·4	1003·3	..	11·4	9·7	7·7	10·7	79	−1	1·1	−1·2	3.0	0	0	21	0	1	5	0	0	0	6	9	10
	1730	,,	1013·3	1000·4	..	17·5	13·2	9·0	11·7	58	..	1·3	..	1. 4	0	0	14	0	0	2	0	0	0	5	7	17
Lucknow	0830	111	1016·9	1003.6	−0·8	10·7	9·0	7·1	10·1	79	+1	0·8	−1·0	1·9	0	0	16	0	1	1	2	0	1	9	2	15
	1730	,,	1013.6	1000.6	..	18·3	12·9	7·6	10·5	51	..	1·0	..	1·3	0	0	11	0	0	3	0	0	0	8	0	20
Lucknow (Amausi)	0230	128	1014·5	999·0	..	8.3	7·3	5·9	9·4	86	.	1·2	..	9·9	0	3	26	2	4	3	0	1	5	9	5	2
	0530	,,	1014·3	998·8	..	7·2	6·4	5·2	9·0	89	..	1·1	..	11·1	0	3	25	1	3	3	0	0	7	10	4	3
	0830	,,	1016·4	1001·1	−1·5	10·0	8·5	6·6	9·9	81	+4	1·1	−0·7	11·7	0	4	24	0	4	4	0	0	5	10	5	3
	1130	,,	1016.3	1001·4	..	18·0	12·2	5·9	9·5	48	..	0·9	..	17·1	0	10	19	1	2	7	1	0	1	9	8	2
	1730	,,	1013·2	998·3	..	18·0	12·8	7 3	10·6	52	..	1·2	..	11·0	0	1	29	0	3	4	2	0	2	13	6	1
	2330	,,	1015.2	999·8	..	9·7	8·5	6·9	10·1	83	..	1·1	..	9.7	0	3	24	0	5	4	0	0	7	8	3	4
Faizabad	0830	102	1016·4	1004·1	..	10·0	8.8	7·3	10·4	84	..	1·1	..	3·3	0	0	22	2	0	2	2	0	4	11	1	9
	1730	,,	1013·5	1001·6	..	17·4	13.3	9·5	11·9	62	..	1·2	..	1·7	0	0	13	0	1	1	1	0	0	10	0	18
Gorakhpur	0830	77	1015·5	1006·2	−2.0	12·9	10·8	8·6	11·2	76	−3	1·2	−0·2	6.3	0	0	28	2	1	3	0	2	10	6	4	3
	1730	,,	1012·2	1003·2	..	19·2	14·2	9·6	12·2	53	..	1·0	..	3.8	0	0	20	0	2	0	0	0	10	3	3	11
Gorakhpur (P.B.O.)	0230	78	1014·0	1004.7	..	12·2	10·3	8·5	11·0	79	..	1·0	..	4·0	0	0	24	4	4	1	0	1	8	4	2	7
	0530	,,	1014.1	1004·7	..	11·0	9·5	8·1	10·7	82	..	1·0	..	3·7	0	0	22	3	3	0	0	1	10	2	3	9
	1130	,,	1016·3	1007·1	..	18·1	9·3	9·4	11·4	58	..	1·3	..	7·1	0	0	30	2	2	1	0	5	13	5	2	1
	2330	,,	1014 8	1005·5	..	13·6	11·5	9·9	11·9	78	..	1·0	..	3·5	0	0	24	4	3	1	0	2	8	6	0	7

(R) Register not received.

(a Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. the nearest standard of isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) (*Contd.*)																											
Kanpur	0830	126	1017·2	1001·9	−0·9	8·4	7·3	5·7	9.3	84	+6	2·7	+1·4	3·2	0	0	20	1	0	4	0	0	1	14	2	11	0
	1730	,,	1014·3	999·6	..	19·5	13·5	7.4	10·7	47	..	1·0	..	5·3	0	0	31	3	2	8	0	0	0	16	2	0	0
Kanpur (Aerodrome)	0530	126	1014·0	999·7	..	7·5	6·4	4·7	8·7	83	..	0·7	..	5·4	0	2	15	1	1	3	2	0	1	7	2	14	0
	0830	,	1016·5	1001·3	..	10·0	8·2	5·8	9·4	77	..	1·1	..	8·2	0	2	20	0	2	2	3	0	2	9	4	9	0
	1130	,,	1016·5	1001.8	..	18·3	12·3	5.5	9·5	46	..	0·9	..	13·4	0	6	22	1	1	3	5	0	2	8	7	3	1
	1730	,,	1013·3	998·6	..	18·8	12·5	5·5	9·4	44	..	1·3	..	8·0	0	1	26	3	3	3	3	1	0	8	6	4	0
	2330	,,	1015·3	1000·2	..	11·5	9·2	6·6	9·8	68	..	0·7	..	4·3	0	0	14	1	1	3	2	0	1	3	3	17	0
Sultanpur	0830	97	1017·1	1005·5	..	11·6	9·8	7·7	10·4	78	..	1·2	..	3·2	0	0	27	0	3	4	2	0	2	12	4	4	0
	1730	,,	1013·2	1001·9	.	19·9	13·7	7·7	10·7	47	..	1·3	..	2·5	0	0	20	0	0	2	0	0	1	6	11	11	0
Azamgarh	0830	78	..	..	..	11·2	9·8	8·3	11·0	83	..	1·1	..	4.5	0	0	31	0	0	10	6	0	0	21	0	0	0
	1730	,,	..	..	..	17·9	14·2	11·1	13·2	65	..	1·0	..	1·3	0	0	13	0	0	3	0	0	0	10	0	18	0
Fatehpur	0830	114	1016·9	1003·1	..	10·4	9·0	7·3	10·4	81	+12	1.1	−0·8	4·3	0	0	27	0	2	4	2	2	4	9	4	4	0
	1730	,,	1013·3	1000·0	..	18·5	13·9	9·6	12·2	57	..	0·8	..	2·9	0	0	23	2	4	4	1	0	0	6	6	8	0
Ballia	0830	64	1016·8	1009·2	..	12·6	10·3	7·8	10·7	75	..	0·8	..	0·7	0	0	7	0	1	1	0	0	0	4	1	24	0
	1730	,,	1013·7	1016·3	..	20·6	15·4	10·9	13·3	57	..	1·0	..	1·0	0	0	7	0	1	1	0	0	0	5	0	24	0
Fatehpur	0830	121	1017·2	1002·7	..	11·4	8·9	5·9	9·3	67	..	0·6	..	2·3	0	0	31	0	3	0	4	0	21	0	3	0	0
	1730	,,	1011·8	997·8	..	20·2	14·7	9·9	12·3	52	..	0·6	..	2·2	0	0	31	0	5	0	2	0	10	0	14	0	0
Allahabad (Bamhrauli)	0230	98	1014·8	1003·0	..	9·6	8·2	6·5	9·7	82	..	1·0	..	2·8	0	0	16	1	2	2	0	0	6	4	1	15	0
	0530	,,	1014·7	1002·8	..	8·4	7·2	5·9	9.2	85	..	0·9	..	3·2	0	0	20	0	2	2	0	2	6	6	2	11	0
	0830	,,	1017·0	1005·2	−1·1	11.1	8·9	6.2	9.6	73	−7	1.2	−1·1	4·0	0	0	24	1	1	2	0	2	6	11	1	7	0
	1130	,,	1016·8	1005.3	..	19.7	12.9	5.7	9.3	42	..	1.1	..	9·0	0	2	29	2	1	4	5	1	1	11	6	0	0
	1730	.	1013·5	1002·1	..	19·1	13·4	7.9	10.8	50	..	1.5	..	4·0	0	0	23	1	4	3	0	0	0	7	8	8	0
	2330	,,	1015·4	1003·7	..	11.5	9.5	7·0	10.3	75	..	1·0	..	2·9	0	0	15	1	2	3	0	0	5	2	2	16	0
Varanasi (Babatpur)	0530	85	1015·7	1005.2	..	8.7	7.4	5.9	9.3	83	..	0.6	..	4.5	0	0	19	0	0	2	0	3	8	6	0	12	0
	0830	..	1018·0	1007·6	−0·5	11·4	9·6	7·6	10·5	78	0	1·1	−1·2	7·1	0	1	25	0	1	1	2	0	15	5	2	5	0
	1130	.	1017·6	1007·4	..	18·5	12·8	7·0	10·2	49	..	1·0	..	9·0	0	1	27	0	1	4	3	0	4	10	6	3	0
	1730	,,	1014·5	1004·4		18·5	13·6	8·9	11·6	55	..	1·2	..	7·0	0	0	29	1	3	3	1	0	0	11	10	2	0
	2330	,,	1016·3	1006·0	..	12·1	9·8	7·3	10·3	74	..	0·9	..	3·7	0	0	17	0	0	3	2	0	3	7	2	14	0
Varanasi	0830	76	1016·8	1007·7	−1.1	11·3	9·7	7.6	10·7	80	+2	1·1	−0·5	2·6	0	0	26	0	1	2	0	1	6	14	2	5	0
	1730	,,	1013·2	1004·1	..	19·8	14·3	9·1	11·9	52	..	1·8	..	2·6	0	0	27	2	6	2	0	0	0	15	2	4	0
Uttar Pradesh (West)																											
Dehra Dun	0530	682	1015·7	935·3	..	5·8	5.0	3.9	8.1	88	..	1·2	..	1·3	0	0	15	12	0	0	0	2	0	0	1	16	0
	0830	..	1016·6	937·0	−1.2	8·6	6.7	4·8	8·4	77	+4	1·7	−1·7	1·0	0	0	12	7	2	0	0	1	0	0	2	19	0
	1130	,,	1015·5	937·7	..	15·3	10.0	4·6	8.5	50	..	2·0	..	2·6	0	0	28	2	0	3	6	8	5	2	2	3	0
	1730	.	1013·0	935·2	..	14·5	10·5	6·6	9.8	60	..	1·9	..	1·4	0	0	16	1	1	0	1	5	4	4	0	15	0
	2330	,,	1016·6	936·9	..	8·7	7·2	5·6	9·1	81	..	1·1	..	2·0	0	0	18	15	2	0	0	0	0	0	1	13	0
Roorkee	0830	274	1017·3	984·2	−1.0	6·9	6·3	5·5	9·1	91	+8	2·9	+0·3	1·0	0	0	15	0	1	0	2	0	0	0	12	16	0
	1730	,,	1014·1	982·1	..	16·7	11·8	6·6	9.9	53	..	3·0	..	1·2	0	0	18	0	0	0	3	0	0	0	15	13	0
Najibabad	0830	270	1016·7	984·1	..	7·2	6·5	5·7	9·1	90	..	1·6	..	2·2	0	0	22	0	1	0	10	0	1	3	7	9	0
	1730	,,	1014·1	982·8	..	17·6	12·5	7·5	10.4	54	..	1·9	..	2·9	0	0	25	0	1	0	9	0	0	9	6	6	0
Meerut	0830	222	1017·8	991·0	+0·1	8·6	7·2	5·4	9·1	81	+4	0	−2.5	5·2	0	1	24	1	3	2	3	0	2	11	3	6	0
Bareilly	0830	173	1016·3	995·5	−1·4	9·8	8·2	6·4	9·6	79	−2	1·1	−1.2	5·0	0	0	26	1	1	6	2	0	3	9	4	5	0
	1730	,,	1012·9	992·6	..	17·0	12·3	7·7	10·5	56	..	1·8	..	0·8	0	0	9	3	0	2	0	0	0	4	0	22	0
Bareilly (P.B.O.)	0230	172	1014·3	993·6	..	10·0	8·1	6.1	9·3	78	..	0·6	..	6·0	0	2	20	1	1	5	0	0	0	14	1	9	0
	0530	,,	1014·3	993·6	..	8·4	7·3	5·5	9·3	82	..	0·5	..	4·1	0	0	20	0	0	7	1	0	0	11	1	11	0
	1130	,,	1016·1	995·8	..	15·5	11·3	7·2	10·0	61	..	1·2	..	6.9	0	1	26	0	0	5	5	1	1	8	7	4	0
	2330	,,	1015·0	994·5	..	11·4	9·3	7·0	10.0	78	..	0·7	..	3·7	0	1	17	1	0	5	0	0	1	10	1	13	0
Aligarh	0630	187	1016·6	993·9	..	8·2	6·1	4·0	8·2	76	+12	1·0	−0·5	2·5	0	0	28	0	0	6	2	0	0	19	1	3	0
	1730	,,	1013·6	991·7	..	18·2	13·2	8·3	11·2	53	..	1·9	..	2·2	0	0	23	4	0	7	1	1	0	7	3	8	0
Mainpuri	0830	157	1016·8	997·9	−1·4	9·2	7·6	5·8	9·1	80	+7	0·2	−2·0	..	..	..	..	1	1	3	3	1	8	6	2	6	0
	1730	,,	1013·3	995·0	..	18·5	13·4	8.2	11·2	52	..	0·5	..	..	..	..	..	0	0	1	2	1	12	4	2	9	0
Agra	0830	169	1016·9	996·7	−1·4	9·2	7·0	4·3	8·2	71	+7	0·5	−1·7	0·3	0	0	2	0	0	0	2	0	0	0	0	29	0
	1730	,,	1013·7	994·1	..	19·0	12·3	5·0	8·9	41	..	0·5	..	1·1	0	0	6	2	1	1	1	0	0	0	1	25	0
Agra (Aerodrome)	0530	169	1015·4	994·6	..	6.1	5·3	4·1	8.1	84	..	0·6	..	2·4	0	1	6	0	0	0	2	0	0	1	4	24	0
	0830	,,	1017·2	996·5	..	8·3	6·6	4·2	8·4	77	..	1.3	..	5·4	0	1	16	0	0	2	4	0	0	9	2	14	0
	1130	,,	1016.9	996.9	..	18·1	12·1	5·8	9·2	46	..	0·9	..	10·8	0	5	20	0	1	1	6	2	0	8	7	6	0
	1730	,,	1013·7	993.9	..	18.4	12·5	6.1	9.7	46	..	1·4	..	8·2	0	3	21	2	1	2	3	1	0	1	14	7	0
	2330	,,	1016.0	995.5	..	10·2	8·3	6.4	9·4	77	..	0·8	..	3·5	0	1	11	1	0	3	2	0	0	2	4	19	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Uttar Pradesh (West)—(contd.)																										
Orai	0830	141	1018.7	1001·9	..	14·1	11·1	7·9	10·8	67	..	0·8	..	2·6	0	0	31	9	2	0	3	1	3	2	11	0
	1730	,,	1013·9	997·5	..	20·4	15·4	10·3	12·7	54	..	0.6	..	2.3	0	0	31	0	5	1	2	1	7	1	14	0
Jhansi	0830	251	1016·9	987·4	−1·5	14·1	9·4	4·2	8·1	50	−12	0·7	−1·0	0·8	0	0	8	2	0	0	0	0	0	6	0	2
	1730	,,	1013·2	984·4	..	21·4	13·1	4·0	8·4	34	..	1·4	..	1·4	0	0	13	4	2	1	0	0	0	4	2	13
Punjab (India) (Including Delhi)																										
Pathankot	0830	312	1016·8	979·3	−1·5	7·4	6·7	5·7	9·3	89	+5	3·3	−0·6	3·3	0	1	17	6	5	2	0	0	2	2	1	13
	1130	,,	1016·7	980·1	..	14·7	10·8	6·6	9·8	59	..	2·9	..	5·0	0	1	26	0	2	1	2	3	9	7	3	4
	1730	,,	1014·1	977·7	..	15·5	11·5	7·3	10·4	60	..	3·2	..	4·1	0	0	27	1	1	2	0	0	4	17	2	4
Amritsar (Rajasansi)	0530	234	1015·4	986·8	..	4·9	4·1	3·3	7·7	90	..	1·5	..	4·9	0	1	18	2	1	5	2	0	2	2	5	12
	0830	,,	1016·9	988·4	−1·6	5·0	4·3	3·5	7·5	89	−2	2·1	−1·1	7·1	0	2	22	2	1	7	3	1	0	6	4	7
	1130	,,	1017·0	989·5	..	14·3	10·1	4·9	9·0	57	..	2·1	..	11·1	0	4	24	4	0	4	4	2	2	3	9	3
	1730	,,	1014·0	986·6	..	16·4	11·5	5·7	9·7	53	..	1·9	..	8·2	0	2	28	2	2	2	5	1	1	6	11	1
Adampur Aerodrome	0530	238																								
(R)	0830	,,																								
(R)	1130	,,																								
(R)	1730	,,																								
(R)	2330	,,																								
Ludhiana	0830	247	1017·0	986·9	−1·7	6·0	5·0	3·8	7·9	85	+6	2·8	+0.1	2·7	0	0	23	0	0	2	5	0	1	11	3	8
	1730	,,	1013·7	984·8	..	16·4	11·6	6·7	9·8	54	..	2·0	..	2·4	0	0	29	2	1	2	4	1	1	4	14	2
Ferozepore	0830	200	1016·8	992·3	..	5·7	4·7	3·7	7·7	88	..	1·3	..	0·9	0	0	12	0	2	0	1	0	2	2	5	19
	1730	,,	1013·8	990·6	..	17·4	12·0	6·0	9·7	51	..	1·7	..	2·0	0	0	20	2	5	0	0	0	0	0	13	11
Halwara (Aerodrome)	0830	242	1017·3	987·8	..	5·1	4·7	4·2	8·2	94	..	2·1	..	4·2	0	1	16	2	0	1	5	0	1	3	5	14
	1730	,,	1014·6	986·3	..	16·7	14·0	11·5	13·8	73	..	2·3	..	8·8	0	0	29	1	2	1	4	0	1	2	18	2
Chandigarh	0830	347	1016·0	975·0	−1.1	10·2	7·7	5·0	8·5	70	−8	1·9	−0·2	3·3 (f)	0	0	18	0	5	1	4	1	2	0	5	7
	1730	,,	1012·6	972·7	..	16·8	11·0	5·3	8·5	46	..	1·9	..	5·8 (f)	0	1	24	0	1	0	0	2	8	2	6	0
Ambala	0830	272	1016·5	984·0	−1·4	10·5	8·4	5·9	9·3	74	−1	0·9	−1·9	1·8	0	0	17	0	5	0	5	0	0	0	7	14
	1730	,,	1013·2	981·4	..	15·6	12·1	8·4	11·2	64	..	0·6	..	1·7	0	0	17	0	1	0	10	0	0	0	6	14
Ambala (P.B.O.)	0230	278	1014·8	981·5	..	9·4	8·0	6·6	9·6	84	..	1·5	..	5·8	0	0	19	1	0	2	3	1	0	2	10	12
	0530	,,	1014·3	980·9	..	8·2	7·1	5·9	9·2	86	..	1·9	..	4·5	0	1	16	0	0	1	4	0	0	1	10	14
	1130	,,	1016·2	983·6	..	14·9	11·3	8·1	10·5	65	..	2·3	..	0·8	0	2	22	2	0	2	5	0	1	2	11	7
	2330	,,	1015·3	982·2	..	10·9	9·2	7·6	10·3	81	..	0·7	..	5·1	0	0	18	0	0	2	3	0	0	1	12	13
Ambala (Aerodrome)	0530	274	1014·7	981·4	..	5·4	4·8	4·1	8·1	92	..	1·2	..	..	0	0	17	0	0	2	3	0	0	8	4	14
	0830	,,	1016·2	983·0	..	6·3	5·6	4·7	8·5	89	..	2·5	..	..	0	0	15	0	0	4	2	0	0	1	8	16
	1130	,,	1016·2	983·9	..	15·0	10·7	5·7	9·5	54	..	2·4	..	..	0	0	27	1	0	3	6	0	1	4	12	4
	1730	,,	1013·3	981·3	..	16·0	11·2	5·7	9·5	52	..	2·0	..	..	0	0	19	0	0	0	3	0	0	6	10	12
	2330	,,	1015·9	982·8	..	7·8	6·7	5·1	9·0	84	..	0·9	..	..	0	0	16	0	1	1	3	0	0	4	7	15
Patiala	0830	251	1016·5	986·5	..	7·7	6·4	4·5	8·5	82	..	2·2	..	6·5	0	0	25	0	0	4	6	0	0	0	15	6
	1730	,,	1014·1	84·7	..	16·1	11·2	5·9	9·4	52	..	1·7	..	5·0	0	0	21	0	0	0	6	0	0	0	15	10
Bhatinda	0830	211	1017·1	991·6	..	9·0	7·3	5·0	8·8	78	..	2·7	..	3·6	0	0	21	0	1	1	3	1	2	1	12	10
	1730	,,	1013·9	989·3	..	18·0	13·0	8·1	10·9	56	..	1·0	..	4·4	0	0	30	3	4	0	4	1	1	0	17	1
Karnal	0830	249	1015·7	986·2	..	9·6	7·1	4·2	8·0	66	..	0·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1013·3	984·2	..	17·9	11·8	5·0	8·9	44	..	0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1015·4	988·6	..	6·1	5·0	3·4	7·9	83	..	0·7	..	5·4	0	0	29	1	1	2	5	1	7	10	2	2
	0830	,,	1017·1	990·3	−1·9	6·4	5·0	2·9	7·5	79	+10	1·9	−0·3	3·2	0	0	24	0	0	3	4	3	9	5	0	7
	1130	,,	1017·1	990·9	..	16·5	11·7	6·6	9·9	54	..	1·5	..	6·3	0	1	25	2	1	1	7	0	5	6	4	5
	1730	,,	1013·7	988·1	..	18·1	12·7	7·3	10·2	50	..	1·3	..	5·2	0	0	30	6	3	5	2	0	2	6	6	1
	2330	,,	1016·2	989·6	..	9·2	7·5	5·4	9·0	78	..	0·5	..	5·3	0	1	28	7	1	3	4	3	1	5	5	2
New Delhi (Safdarjang)	0230	216	1015·2	989·1	..	8·7	7·1	5·1	8·8	78	..	0·7	..	6·3	0	2	20	2	1	1	3	0	1	5	9	9
	0530	,,	1015·0	988·9	..	7·6	6·2	4·2	8·4	80	..	1·3	..	6·2	0	0	27	0	1	3	2	2	0	10	9	4
	0830	,,	1016·7	990·7	−1·6	8·1	6·6	4·0	8·5	75	−1	1·7	−1·6	9·2	0	2	24	0	0	2	5	0	−1	10	8	5
	1130	,,	1016·7	991·4	..	16·4	11·0	4·6	8·8	48	..	1·6	..	15·4	0	12	19	1	0	1	7	2	1	8	11	0
	1730	,,	1013·6	988·4	..	18·1	11·9	4·8	8·8	44	..	1·7	..	8·6	0	2	28	3	3	4	3	0	0	1	16	1
	2330	,,	1015·7	989·8	..	10·4	8·3	5·8	9·3	74	..	0·6	..	6·4	0	2	20	3	1	1	4	1	0	2	10	9
Palam (Aerodrome)	0230	233	1015·3	987·2	..	7·9	6·7	5·3	8·8	84	..	0·7	..	5·3	0	0	23	1	0	9	1	2	3	4	3	8
	0530	,,	1015·1	986·9	..	5·8	5·2	4·2	8·4	88	..	1·3	..	4·6	0	0	23	0	2	5	2	6	7	1	0	8
	0830	,,	1016·5	988·7	..	7·6	6·4	4·8	8·7	83	..	2·0	..	7·9	0	1	29	0	0	6	3	7	11	2	1	1
	1130	,,	1016·8	989·5	..	16·2	12·0	7·9	10·7	58	..	1·3	..	14·4	0	7	24	0	0	2	3	3	5	15	3	0
	1430	,,	1013·9	986·9	..	19·5	13·4	6·9	10·4	46	..	1·2	..	1·7	0	11	19	2	0	4	3	1	0	8	12	1

(R) Register not received.

(f) Mean of 25 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1962 (PAUSA 11—MAGHA 11, 1883 SAKA)

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) (*Contd.*)																											
Palam (Aerodrome) (*Contd.*)	1730	233	1013·6	986·5	..	17·3	12·5	7·8	10·6	54	..	1·3	..	9·7	0	2	28	2	1	7	0	0	1	6	13	1	0
	2030	,,	1015·4	987·7	..	11·8	9·9	7·7	10·6	76	..	1·0	..	5·5	0	0	25	3	1	7	1	0	1	6	6	6	0
	2330	,,	1015·8	987·9	..	9·8	8·2	6·3	9·6	80	..	0·8	..	6·3	0	1	25	1	2	8	3	1	3	5	3	5	0
Himachal Pradesh																											
Mandi	0830	761	1019·2	929·0	—1·9	3·2	3·0	2·9	7·4	97	+2	5·9	+1·0	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	,,	1012·1	925·9	..	14·5	9·8	4·8	8·4	53	..	2·5	..	0·5	0	0	10	0	1	0	1	3	3	1	1	21	0
Bilaspur (R)	0830	493																									
	1730	,,																									
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3100·1	663·4	..	—13·0	—14·6	—2·13	0·9	49	..	3·0	..	6·2	0	0	22	5	16	0	0	0	1	0	0	9	0
	0830	,,	3100·6	663·9	—0·5	—10·3	—12·2	—18·7	1·2	52	—7	3·9	—1·5	3·7	0	0	20	1	5	0	0	12	2	0	0	11	0
	1730	,,	3066·5	661·7	..	—6·0	—8·2	—13·4	1·9	55	..	4·1	..	7·1	0	0	24	0	0	1	0	11	12	0	0	7	0
Srinagar	0830	1587	1527·9	843·6	—1·7	—1·7	—2·2	—3·1	4·8	90	+4	4·4	—2·2	1·2	0	0	12	1	0	2	5	0	1	0	3	19	0
	1130	,,	1529·3	844·1	..	3·9	1·4	—2·3	5·1	63	..	3·9	..	1·3	0	0	15	2	1	0	4	3	0	4	1	16	0
	1730	,,	1502·2	841·3	..	6·1	2·6	—2·3	4·8	56	..	4·7	..	2·6	0	0	18	2	0	0	2	0	1	6	7	13	0
Srinagar (Aerodrome)	0530	1666	1507·5	834·0	..	—2·2	—2·7	—3·7	4·6	89	..	3·2	..	1·1	0	0	5	0	0	0	0	4	1	0	0	26	0
	0830	,,	1518·0	835·1	..	—2·0	—2·8	—4·1	3·9	86	..	4·0	..	5·2	0	0	27	0	0	2	6	8	1	7	3	4	0
	1130	,,	1524·1	835·9	..	3·6	1·5	—1·2	5·6	73	..	3·8	..	4·3	0	0	25	5	8	2	1	1	0	0	8	6	0
	1730	,,	1499·0	833·2	..	5·4	2·1	—2·8	5·1	57	..	4·6	..	5·8	0	0	26	6	0	3	2	0	0	2	13	5	0
	2330	,,	1509·5	834·3	..	0·4	—0·9	—3·0	4·8	78	..	3·4	..	2·3	0	0	11	1	0	0	0	3	0	7	0	20	0
Gulmarg (R)	0830	2655																									
(R)	1730	,,																									
Banihal	0830	,,	..	..	..	1·9	0·6	—1·5	5·5	80	..	3·1	..	3·0	0	0	12	0	0	1	2	1	0	7	1	19	0
	1730	,,	..	..	..	6·9	3·3	—1·7	5·5	53	..	3·5	..	4·1	0	0	13	1	0	0	2	0	0	10	0	18	0
Jammu	0830	,,	..	..	..	10·6	..	..	..	..	..	..	..	(a) 5·9	0	0	30	9	12	3	1	1	4	0	0	0	0
Jammu (Aerodrome)	1730	292	1015·3	980·1	..	7·9	6·6	4·9	8·7	82	..	2·4	..	2·9	0	0	13	0	10	3	0	0	0	0	0	18	0
	0830	,,	1016·5	981·3	..	8·0	6·6	4·8	8·7	77	..	3·3	..	4·6	0	0	20	1	11	3	3	1	0	0	1	11	0
	1130	,,	1017·0	982·4	..	14·2	10·6	6·8	9·9	62	..	3·1	..	4·8	0	1	19	1	5	2	3	3	0	4	2	11	0
	1730	,,	1014·2	980·2	..	15·8	11·8	7·9	10·7	61	..	3·5	..	3·5	0	0	15	1	3	0	3	3	0	5	0	16	0
	2330	,,	1016·4	981·4	..	10·2	8·2	5·8	9·3	74	..	2·8	..	4·3	0	0	16	0	15	1	0	0	0	0	0	15	0
Rajasthan (West)																											
Ganganagar	0530	177	1015·3	993·7		6·1	4·8	2·9	7·5	81	..	1·2	..	1·7	0	0	14	2	3	2	1	1	3	1	1	17	0
	0830	,,	1016·8	995·2	—1·8	5·7	4·5	2·6	7·5	81	+6	1·4	—1·8	1·4	0	0	16	2	2	1	3	1	3	1	3	15	0
	1130	,,	1017·1	996·2	..	16·1	10·5	3·2	8·2	46	..	1·6	..	4·7	0	0	31	2	2	2	5	1	8	6	5	0	0
	1730	,,	1013·6	993·0	..	19·2	12·1	3·8	8·4	39	..	1·5	..	2·5	0	0	22	6	3	1	1	0	2	2	7	9	0
	2330	,,	1016·0	994·6	..	9·4	7·3	4·3	8·5	72	..	0·8	..	2·0	0	0	18	3	4	2	1	0	0	2	6	13	0
Anupgarh (R)	0830	..																									
(R)	1730	..																									
Mahajan	0830	..	..	..	..	8·6	6·3	3·7	7·7	68	..	1·0	—1·5	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	..	..	..	..	19·3	13·6	8·2	11·0	52	..	0·9	..	1·5	0	0	12	3	2	0	0	1	2	4	0	19	0
Churu	0830	291	1017·8	982·4	..	5·6	3·9	1·2	6·7	74	..	1·6	..	2·5	0	0	19	0	1	4	3	4	2	4	1	12	0
	1730	,,	1013·2	979·7	..	20·2	13·0	5·4	9·1	40	..	1·8	..	7·6	0	0	30	1·7	1	1	1	2	1	4	3	1	0
Bikaner	0830	224	1017·2	990·0	—1·6	6·0	3·1	—2·4	5·1	55	—10	0·7	—1·5	1·3	0	0	10	0	1	0	5	1	0	2	1	21	0
	1730	,,	1012·9	987·2	..	20·7	11·3	0·1	5·8	29	..	1·2	..	4·4	0	0	25	5	4	1	2	0	1	1	11	6	0
Pilani (P. B. O.)	0530	224	1015·4	988·3	..	4·5	2·5	—1·1	5·8	68	..	1·0	..	0·8	0	0	3	0	1	0	0	0	0	2	0	28	0
	1130	,,	1016·7	990·5	..	17·8	10·3	1·0	6·7	34	..	0·9	..	3·4	0	0	21	1	4	3	3	5	0	2	3	10	0
	2330	,,	1015·8	988·9	..	9·7	5·9	—0·7	6·3	54	..	0·4	..	2·5	0	0	11	3	3	0	0	1	0	2	2	20	0
Nagaur	0830	298	1018·1	983·2	..	14·2	7·5	—2·6	4·9	34	..	0·7	..	3·4	0	0	31	5	7	3	5	4	3	0	4	0	0
	1730	,,	1012·5	978·4	..	21·4	11·5	—1·3	5·6	23	..	1·1	..	4·3	0	0	31	6	3	2	1	3	4	5	7	0	0
Phalodi	0830	234	1017·3	989·0	..	8·0	4·8	—0·1	6·1	57	..	1·0	..	5·2	0	0	24	2	0	0	6	8	3	3	2	7	0
	1730	,,	1013·9	987·0	..	22·1	14·3	7·1	10·0	36	..	1·3	..	7·6	0	0	29	10	4	1	0	0	1	8	5	2	0
Jaisalmer	0830	242	1016·5	987·2	..	7·2	3·9	—1·9	5·3	55	..	1·5	..	5·4	0	0	18	6	4	1	1	1	4	1	0	13	0
	1730	,,	1013·0	985·4	..	22·1	11·1	—4·8	4·2	19	..	1·2	..	16·5	0	6	25	10	4	0	1	3	6	2	5	0	0

(R) Register not received.

(a) Mean of 30 day

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (west) (*Contd*)																											
Jodhpur	0230	224	1015·0	988.3	..	11·6	6·2	−2·5	5.1	38	..	0·5	..	9·2	0	0	31	4	21	0	0	1	1	1	3	0	0
	0530	,,	1014.9	988·0	..	9·3	4.9	−2.6	5.1	45	..	0.2	..	8·8	0	0	29	3	19	4	0	0	1	1	1	2	0
	0830	,,	1016·7	989·8	−0.1	9·9	5·0	−3.2	4.7	41	−6	0.7	−1.7	8·1	0	0	29	2	24	1	0	0	1	1	0	2	0
	1130	,,	1016·7	990·6	..	18·4	9.9	−1·9	5.3	26	..	0.6	..	6·0	0	1	20	0	9	7	1	1	3	0	0	10	0
	1730	,,	1012·6	986·8	..	23·1	11.8	−3.7	4·6	17	..	1.0	..	8·5	0	0	27	5	7	1	0	0	1	7	6	4	0
	2330	,,	1015.7	988·9	..	14.0	7·7	−1·1	5·4	37	..	0·6	..	9·0	0	0	29	9	11	1	0	0	2	2	4	2	0
Barmer	0530	194	1014·2	990·9	..	11·3	6·5	−0.9	5·8	43	..	0·1	..	2.5	0	0	14	4	0	0	0	0	0	2	8	17	0
	0830	,,	1016.3	993·0	−1.4	11.2	6·6	−1·1	6·1	46	−5	0.7	−1.4	2·9	0	0	16	4	0	0	0	0	0	4	8	15	0
	1130	,,	1016·2	993.7	..	19.9	10·8	−0·8	5·6	27	..	0.7	..	4·5	0	0	22	7	7	3	0	0	0	0	5	9	0
	1730	,,	1012·2	990.0	..	23·0	12·6	−1·1	6·2	23	..	1·0	..	4.9	0	0	27	12	3	1	1	0	1	2	7	4	0
	2330	,,	1015·1	992·2	..	14.9	8.4	−1·3	5.8	35	..	0·3	..	3·2	0	0	23	5	0	0	0	0	2	2	14	8	0
Munabao*	0830	80																									
	1730	,,																									
Rajasthan (East)																											
Pilani	0830	301	1018·9	983·1	..	9·1	5·8	0·7	6·6	57	..	1·0	..	9.7	0	0	31	5	3	6	12	1	1	2	1	0	0
	1730	,,	1012·9	978·6	..	19·3	11·7	2·9	7·6	34	..	1·1	..	10·5	0	3	27	11	7	3	1	0	2	0	6	1	0
Sikar	0830	433	1017.5	966·7	..	12·5	8·4	3.7	7·8	55	..	1·2	..	1·7	0	0	15	2	1	3	6	2	0	1	0	16	0
	1730	,,	1012·5	963·4	..	20.1	12·9	5·8	9·1	40	..	1·4	..	1·4	0	0	13	0	4	0	0	1	1	4	3	18	0
Alwar	0830	271	1016·1	983·5	..	8·3	7·5	6·2	9·7	89	..	0·9	..	0·4	0	0	4	0	0	0	1	1	2	0	0	27	0
	1730	,,	1013.3	982.0	..	19.4	15.4	11·8	14·3	64	..	1·8	..	1·2	0	0	14	5	1	0	2	0	3	1	2	17	0
Jaipur (Sanganer)	0230	390	1014·9	968·5	..	8.7	5.6	1·8	6·6	62	..	0·2	..	6.1	0	0	26	8	6	7	0	2	0	1	2	5	0
	0530	,,	1015·1	968·6	..	7·4	4·9	0.9	6·7	65	..	0·5	..	6.5	0	1	25	10	5	6	0	0	0	1	4	5	0
	0830	,,	1016.6	970·3	−2·2	9·8	6·6	2·1	7·2	60	+4	0.7	−1.5	6.1	0	2	22	5	9	6	0	0	0	1	3	7	0
	1130	,,	1015·8	970·9	..	18·3	11·0	1.9	7.3	35	..	0·6	..	10.8	0	2	28	1	1	7	7	2	4	5	3	1	0
	1730	,,	1012·3	967.7	..	19·8	11·5	1·2	6.9	30	..	1.0	..	7.0	0	0	31	4	0	4	4	1	6	3	9	0	0
	2330	,,	1015·2	969·1	..	11·0	7·3	2.3	7.3	56	..	0.4	..	6.9	0	2	23	6	7	9	1	0	0	0	2	6	0
Dholpur	0830	176	1016·5	995·3	..	9.8	7·5	4.7	8.5	72	..	1·1	..	4·3	0	0	20	0	1	1	4	2	1	8	3	11	0
	1730	,,	1012.7	992·3	..	19·4	12·5	5.0	8.9	40	..	1·3	..	4·4	0	0	23	6	0	3	2	0	0	4	8	8	0
Ajmer	0830	486	1017·8	959·9	−2.0	6·6	4.1	0.5	6.4	66	+1.0	0.7	−1.2	1·7	0	0	16	2	1	1	1	0	1	1	9	15	0
	1730	,,	1012·5	957·5	..	20·5	10.5	1·7	6·9	23	..	1·1	..	3·7	0	0	26	1	4	0	4	2	6	1	8	5	0
Tonk	0830	272	1016·1	983·4	..	8·1	6.2	3.6	8.0	73	..	0·5	..	2.8	0	0	29	3	0	1	5	1	2	2	15	2	0
	1730	,,	1011.4	980·1	..	20·3	13·2	5.7	9.4	40	..	0·7	..	3.9	0	0	26	4	1	1	1	2	0	7	10	5	0
Bhilwara*	0830																										
	1730																										
Kota (Aerodrome)	0530	257	1015·3	982·5	..	9·2	6·1	1.5	6.9	60	..	0·3	..	3·5	0	0	15	1	0	0	0	0	6	7	1	16	0
	0830	,,	1017·2	984·6	..	11·2	7.3	1·6	6.9	53	..	0·7	..	2·5	0	0	11	1	0	0	1	0	3	6	0	20	0
	1130	,,	1016·9	985.1	..	18.7	11·2	2.0	7.3	34	..	0.7	..	7·4	0	0	25	3	5	9	2	0	0	3	3	6	0
	1730	,,	1012·7	981·4	..	22.2	12·4	0.6	6.5	25	..	0·6	..	8·7	0	0	28	10	4	10	0	0	1	1	2	3	0
	2330	,,	1015·4	983·0	..	13·1	8.1	1·4	6.8	46	..	0·2	..	5.1	0	0	20	1	2	2	0	1	8	6	0	11	0
Kota (R)	0830																										
(R)	1730																										
Erinpura (Jawai Dam)	0830	295	1016·9	981·6	..	9·7	8.0	6.1	9.4	79	..	0·8	..	4.6	0	0	21	0	1	2	4	10	4	0	0	10	0
	1730	,,	1012.4	978.7	..	22·5	16·1	11.0	13.1	48	..	1·0	..	5.9	0	0	30	11	5	0	0	0	3	5	6	1	0
Chambal (Rawat Bhatta Dam)	0830	351	1017·5	975·8	..	9.6	7·0	3.8	8.0	68	..	0·8	..	0.3	0	0	3	0	1	0	0	0	0	0	2	28	0
	1730	,,	1212.5	972·6	..	22·3	12·7	1·5	6.9	26	..	0·6	..	2.8	0	0	28	8	9	2	1	1	2	0	5	3	0
Udaipur	0230	582	1016·3	947·6	..	7·9	5.8	2·8	7·7	71	..	0·2	..	0·3	0	0	1	0	0	0	0	0	0	0	1	30	0
	0530	,,	1016·5	947·6	..	6·2	4·6	2.2	7.4	77	..	0	..	0.5	0	0	2	0	0	0	0	0	0	1	1	29	0
	0830	,,	1017·7	949·4	−1·0	8.8	5·9	1·8	7.1	62	+8	0·6	−0.8	0.5	0	0	4	1	0	0	0	0	1	0	2	27	0
	1130	,,	1015·6	949·8	..	19·8	11·6	2.5	7·7	32	..	0·5	..	2·7	0	0	16	0	1	4	3	3	2	0	3	15	0
	1730	,,	1011·8	946·5	..	21·1	12·3	3·5	7·9	32	..	0·6	..	1.7	0	0	14	0	4	3	1	1	1	2	2	17	0
	2330	,,	1016·3	948·4	..	10.2	7·3	4·2	2.2	67	..	0·2	..	0.6	0	0	3	0	1	0	0	0	0	0	2	28	0
Jhalawar	0830	321	1017·1	978·9	−1·3	9·6	7·1	4.1	8.1	67	+9	0·7	−1.0	0·2	0	0	2	1	1	0	0	0	0	0	0	29	0
	1730	,,	1011·7	975·6	..	23·6	13·0	0.2	6·4	23	..	0.6	..	2.8	0	0	23	4	9	0	1	0	2	4	3	8	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1015.2	990·1	..	7·1	5.5	3.4	7·7	79	..	0.7	..	2·0	0	1	9	0	0	0	8	2	0	0	0	21	0
	0530	,,	1015.2	990·1	..	6·1	4·8	2.8	7·4	80	..	0.7	..	2·4	0	1	14	1	0	1	9	2	2	0	0	16	0
	0830	,,	1016.9	992·1	−1.4	10.9	7·8	3.6	8·1	62	−10	0.8	−1.7	1·9	0	0	14	0	2	1	5	2	1	1	2	17	0
	1130	,,	1016·5	992.3	..	19.4	11.9	3·3	7.6	37	..	0.7	..	7·8	0	2	28	7	3	3	4	3	2	2	6	1	0
	1730	,,	1013·2	989.2	..	19.9	12·0	2·9	7.6	34	..	1.4	..	6.3	0	1	26	11	3	2	4	0	0	3	4	4	0
	2330	,,	1015 9	990·8	..	8·8	6·7	3·9	8.2	73	..	0·6	..	2.4	0	1	8	0	0	1	4	3	0	1	0	22	0

(R) Register not received.

*Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms per hour	Wind speed (Km.ph.): 62 or more	Wind speed (Km.ph.): 20 to 61	Wind speed (Km.ph.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Shepour	0830	235	1017·3	989·0	−0·9	8·7	6·6	3·8	8·1	72	−1	0·9	−1·5	3·0	0	8	20	5	2	0	4	5	2	2	0	11	0
	1730	„	1012·6	985·8	..	22·0	13·7	5·6	9·0	34	..	0·7	..	5·9	0	0	31	9	2	1	1	1	2	5	10	0	0
Shivpuri	0830	464	1016·8	962·7	..	13·1	8·6	3·1	8·0	53	..	0·9	..	3·8	0	0	23	2	2	7	2	3	5	1	0	8	1
	1730	„	1012·8	960·0	..	19·6	11·2	2·3	7·3	32	..	0·7	..	5·3	0	0	26	3	2	3	3	1	2	3	9	5	0
Nowgong	0830	229	1017·4	989·8	−1·3	8·2	7·0	5·5	9·1	83	+7	1·0	−1·2	2·9	0	0	25	1	2	4	0	6	11	0	1	6	0
	1730	„	1013·0	986·8	..	21·2	15·3	5·4	8·9	36	..	1·2	..	4·6	0	0	27	5	8	2	0	0	2	0	10	4	0
Guna	0530	478	1015·7	958·7	..	6·4	4·6	2·1	7·2	75	..	0·3	..	3·0	0	0	20	0	2	1	9	2	1	4	1	11	0
	0830	„	1017·0	961·0	−1·6	12·2	7·8	2·5	7·4	53	−9	0·6	−0·8	5·7	0	0	28	0	1	4	14	6	0	0	2	3	1
	1130	„	1015·3	961·1	..	20·8	12·0	2·8	7·7	32	..	0·8	..	8·0	0	1	29	6	3	2	8	2	2	3	4	1	0
	1730	„	1011·8	957·8	..	21·4	12·5	3·3	8·1	32	..	0·7	..	8·1	0	1	30	6	2	2	4	2	1	3	11	0	0
	2330	„	1015·9	959·7	..	10·2	7·1	3·4	7·9	64	..	0·3	..	3·0	0	0	24	4	3	4	8	1	0	0	4	7	0
Nimach	0830	496	1017·5	959·2	−1·3	10·6	6·1	0·2	6·2	49	−6	0·7	−0·8	3·3	0	0	25	2	16	1	3	1	0	1	1	6	0
	1730	„	1012·3	956·6	..	22·3	11·5	1·3	5·7	21	..	0·6	..	6·8	0	0	29	6	13	1	0	0	4	3	2	2	0
Rajgarh	0830	382	1016·5	971·2	..	9·6	6·6	2·4	7·4	62	..	0·5	..	3·0	0	0	24	9	1	2	2	4	1	2	3	7	0
	1730	„	1011·3	968·3	..	23·2	12·9	0·5	6·6	23	..	0·4	..	3·8	0	0	29	16	2	0	1	1	2	1	6	2	0
Sagar	0830	551	1016·2	952·6	−1·4	14·4	9·6	4·5	8·5	53	+3	0·7	−1·1	4·3	0	0	24	0	5	9	4	0	2	3	1	7	0
	1730	„	1011·4	949·6	..	21·5	14·9	9·3	12·2	46	..	0·9	..	3·0	0	0	26	0	5	5	0	0	1	8	7	5	0
Raisen	0830	486	1016·5	959·7	−1·0	12·6	8·5	4·1	8·2	57	−6	0·7	−1·5	9·0	0	2	27	2	14	9	0	1	1	1	1	2	0
	1730	„	1011·1	957·0	..	24·2	15·5	8·4	11·2	38	..	0·8	..	6·3	0	1	29	2	11	5	0	1	4	5	2	1	0
Bhopal (Bairagarh)	0230	523	1014·4	953·5	..	11·6	7·9	3·6	7·9	59	..	0·9	..	6·5	0	0	25	10	6	2	3	0	2	0	2	6	0
	0530	„	1014·8	953·5	..	10·2	6·9	2·9	7·6	62	..	0·7	..	6·0	0	0	23	7	10	3	1	0	2	0	0	8	0
	0830	„	1016·7	955·9	−1·7	13·1	8·8	3·8	8·2	55	+4	0·8	−1·0	6·3	0	1	22	3	6	7	5	1	0	1	0	8	0
	1130	„	1015·1	956·0	..	20·7	12·5	4·4	8·5	35	..	0·9	..	10·7	0	3	25	3	7	6	6	2	2	0	2	3	0
	1730	„	1011·4	952·7	..	22·4	13·2	4·3	8·5	32	..	1·1	..	9·3	0	1	29	10	3	0	0	4	1	4	8	1	0
	2330	„	1014·9	954·4	..	13·9	9·3	4·2	8·4	53	..	0·9	..	6·1	0	0	20	8	3	1	4	0	1	0	3	11	0
Ujjain	0830	..	..	..	..	11·4	7·9	4·0	8·0	61	..	0·7	..	2·3	0	0	10	0	2	3	1	1	1	1	1	21	0
Hoshangabad	0830	302	1016·7	981.0	−1·5	13·2	10·6	8·0	10·7	72	+16	0·4	−1·3	6·1	0	1	30	0	9	9	8	2	3	0	0	0	0
	1730	„	1011·8	977·3	..	23·5	18·1	14·2	16·3	57	..	0·3	..	4·3	0	0	31	2	8	5	9	0	3	3	1	0	0
Indore	0530	567	1014·6	948·3	..	9·9	6·7	2·5	7·5	61	..	(a) 0·7	..	(a) 6·1	0	1	24	3	4	7	1	4	5	0	1	5	0
	0830	„	1016·2	950·6	−1·5	13·1	8·3	2·5	7·5	50	−10	0·8	−0·9	4·6	0	0	22	0	6	8	0	4	4	0	0	9	0
	1130	„	1014·4	950·7	..	21·7	12·4	2·8	7·6	30	..	0·6	..	14·5	0	8	21	2	9	5	1	6	3	1	1	2	1
	1730	„	1010·7	947·5	..	23·0	12·9	2·5	7·6	27	..	0·8	..	12·6	0	4	26	6	11	1	1	1	5	2	3	1	0
	2330	„	1015·0	949·4	..	12·9	8·3	2·9	7·8	51	..	0·6	..	7·5	0	0	27	1	6	5	2	2	6	1	4	4	0
Rajpur (Jhabua)	0830	293	1016·7	982·0	..	12·4	8·8	4·3	8·5	59	..	0·8	..	2.1	0	0	16	0	1	11	1	0	0	3	0	15	0
	1730	„	1010·9	978·1	..	25·9	15·9	5·8	9·9	30	..	0·4	..	7·8	0	2	27	4	5	4	0	0	4	6	6	2	0
Chhindwara	0830	685	1016·4	937·8	−1·3	13·8	9·9	5·8	9·4	60	−7	0·5	−1·3	1·0	0	0	5	1	3	0	0	0	0	0	1	26	0
	1730	„	1010·4	934·5	..	22·6	14·0	6·5	9·7	36	..	1·2	..	3·4	0	0	23	3	2	0	0	2	7	4	5	8	0
Seoni	0830	619	1016·2	945·0	−1·4	14·7	10·7	7·0	9·9	60	−1	1·4	−0·2	2·6	0	0	26	8	8	1	0	2	6	0	1	5	0
	1730	„	1010·8	942·0	..	22·3	14·0	6·6	9·9	37	..	1·1	..	3·1	0	0	30	4	9	1	7	3	3	0	3	1	0
Betul	0830	653	1016·0	941·2	−1·3	14·9	10·0	4·8	8·8	51	−14	0·3	−1·8	3·3	0	0	23	0	2	4	12	2	2	1	0	8	0
	1730	„	1010·5	938·1	..	22·7	13·7	5·3	9·1	33	..	0·8	..	5·6	0	0	30	5	10	2	2	1	4	1	5	1	0
Khandwa	0830	318	1016·1	978·9	−1·0	14·9	10·0	3·8	8·3	48	−8	1·1	−0·3	2·1	0	0	29	4	6	2	6	5	1	2	3	2	0
	1730	„	1010·7	975·0	..	25·5	15·0	4·3	8·5	26	..	0·5	..	3·0	0	0	31	8	11	1	2	1	2	0	6	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1015·3	977·3	..	7·9	6·5	4·5	8·7	80	..	0·6	..	1·0	0	0	8	1	1	3	0	0	2	1	0	23	0
	0830	„	1017·2	979·6	−1·1	11·9	8·7	4·7	8·7	63	−5	1·1	−0·9	1·0	0	0	14	1	0	2	2	1	1	7	0	17	0
	1130	„	1015·8	979·2	..	19·7	12·2	3·2	8·2	36	..	0·8	..	4·5	0	1	28	4	2	5	2	3	3	4	6	2	0
	1730	„	1012·8	976·3	..	19·6	12·6	5·0	9·0	39	..	1·2	..	1·5	0	0	20	12	1	3	0	2	0	2	0	11	0
	2330	„	1015·5	977·9	..	11·4	8·7	5·2	9·0	67	..	0·4	..	1·9	0	1	8	1	2	5	0	0	0	0	1	22	0
Sidhi	0830	272	1016·5	984·3	..	11·5	8·7	5·7	9·0	67	..	0·6	..	0·0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1011·6	980·8	..	20·7	12·7	5·0	8·2	34	..	0·5	..	0·2	0	0	2	1	1	0	0	0	0	0	0	29	0
Umaria	0830	459	1017·1	963·3	..	12·0	9·2	6·3	9·6	68	0	1·2	−1·3	3·9	0	0	24	1	5	9	7	2	0	0	0	7	0
	1730	„	1012·0	960·0	..	20·7	13·6	7·4	10·4	43	..	1·7	..	3·0	0	0	24	3	9	0	1	0	3	2	6	7	0
Jabalpur	0530	393	1015·0	968·4	..	8·9	7·7	6·2	9·5	94	..	0·8	..	1·7	0	0	16	1	3	2	8	1	1	0	0	15	0
	0830	„	1016·9	970·7	−1·0	11·9	9·3	6·4	9·7	70	−1	0·9	−0.9	3·0	0	0	25	2	1	1	17	3	0	0	1	6	0
	1130	„	1015·2	970·4	..	20·6	13·1	5·5	9·0	38	..	0·6	..	5·0	0	0	30	4	8	1	5	4	3	1	4	1	0
	1730	„	1011·7	967·2	..	21·6	13·8	6·2	9·5	37	..	1·1	..	3·5	0	0	28	6	11	1	1	3	1	1	4	3	0
	2330	„	1015 0	969·0	..	12·8	10·2	7·4	10·4	71	..	1·1	..	2·4	0	0	20	1	3	1	13	1	0	1	0	11	0

a) Mean of 30 days.

Division and station	Hour of observation I. S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in 8 p.m. of nearest isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Ambikapur	0830	611	1017·6	946·6	—1·3	11·5	8·9	6·3	9·5	71	—6	0·8	—0·9	3·4	0	0	20	3	5	3	2	4	2	1	0	11	0
	1730	"	1011·7	943·2	..	20·3	12·3	4·3	8·5	36	..	1·1	..	4·4	0	0	31	20	2	0	0	3	1	1	4	0	0
Pendra	0530	625	1015·4	942·6	..	10·7	7·6	3·9	8·2	64	..	0·8	..	6·1	0	1	26	9	0	0	1	2	4	3	8	4	0
	0830	"	1016·7	944·8	—1·7	13·8	9·3	4·4	8·4	54	12	0·8	—1·0	5·7	0	0	25	8	2	0	1	4	3	0	7	6	0
	1130	"	1015·1	944·7	..	19·5	11·7	3·7	8·1	36	..	0·9	..	5·6	0	0	31	13	5	0	0	4	6	0	3	0	0
	1730	"	1012·0	941·9	..	20·0	12·2	4·3	8·6	37	..	1·5	..	6·7	0	0	29	15	2	0	0	2	4	1	5	2	0
	2330	"	1015·5	943·5	..	12·9	8·8	4·3	8·4	57	..	0·4	..	4·9	0	0	29	5	0	1	0	1	7	5	10	2	0
Mandla	0830	443	1017·6	965·5	—0·9	10·8	9·1	7·2	10·2	79	—6	0·6	—1·9	0·9	0	0	6	2	0	0	1	1	0	0	2	25	0
	1730	"	1011·5	961·6	..	21·8	13·7	5·5	9·1	36	..	0·7	..	4·0	0	0	21	8	0	1	2	3	0	0	7	10	0
Champa	0830	245	1016·7	987·9	—0·8	14·5	11·4	8·2	11·0	67	—3	0·7	—1·0	3·5	0	0	28	24	0	1	3	0	0	0	0	3	0
	1730	"	1012·1	984·3	..	23·7	15·6	8·3	11·2	38	..	1·1	..	2·3	0	0	25	12	2	4	1	0	0	5	1	6	0
Raigarh	0830	220	1016·4	990·6	—1·0	16·1	12·0	7·8	10·0	59	—6	0·6	—1·3	2·1	0	0	23	0	19	2	1	0	0	0	1	8	0
	1730	"	1011·6	986·5	..	22·6	15·2	8·5	11·3	41	..	1·0	..	0·3	0	0	4	3	1	0	0	0	0	0	0	27	0
Raipur	0530	298	1014·6	979·5	..	12·5	10·3	7·9	10·8	74	..	0·7	..	2·3	0	0	15	5	2	2	2	1	1	0	2	16	0
	0830	"	1016·7	981·9	—0·6	15·5	11·9	8·2	11·1	62	0	0·8	—0·7	3·2	0	0	28	11	5	4	2	2	1	1	2	3	0
	1130	"	1015·5	981·5	..	22·5	14·9	7·9	10·1	40	..	0·6	..	5·5	0	1	29	6	4	4	5	2	4	1	4	1	0
	1730	"	1012·0	978·2	..	23·7	15·4	7·8	10·8	37	..	1·1	..	3·2	0	0	20	8	4	4	1	1	1	1	0	11	0
	2330	"	1014·4	979·8	..	17·3	12·6	8·0	10·8	55	..	0·9	..	5·1	0	0	29	3	0	7	9	6	2	1	1	2	0
Kanker	0830	402	1016·1	969·8	—1·2	16·1	12·4	8·9	11·4	63	—8	0·6	—1·2	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	"	1011·1	966·2	..	24·3	15·4	7·3	10·3	35	..	0·5	..	1·6	0	0	19	3	9	0	1	0	4	0	2	12	0
Jagdalpur	0530	553	1014·5	950·3	..	10·3	9·3	8·4	11·1	88	..	0·7	..	0·5	0	0	2	1	0	1	0	0	0	0	0	29	0
	0830	"	1016.5	952.8	—1·3	13·9	11·2	8.8	11·3	72	—6	1·1	—0·8	0.6	0	0	6	1	1	0	1	0	1	2	0	25	0
	1130	"	1013·8	952·2	..	23·1	14·5	7.0	10·2	37	..	1·2	..	4.8	0	0	29	5	11	5	0	2	3	1	2	2	0
	1730	"	1010·5	949·2	..	23·6	15·1	8·3	10·9	38	..	1·3	..	1.7	0	0	14	3	4	0	1	2	3	0	1	17	0
	2330	"	1014·7	951·2	..	14·3	11·9	9·9	12·0	75	..	0·6	..	0·7	0	0	4	0	0	1	2	0	0	0	1	27	0
Gujarat Region																											
Deesa	0830	136	1016·0	999·6	—1·2	10·7	6·7	1·1	6·6	52	..	0·4	..	3·7	0	0	30	2	20	8	0	0	0	0	0	1	0
	1730	"	1012·0	996.4	..	25·0	13·7	0·2	6·6	21	..	0·5	..	5·1	0	0	30	8	4	0	0	0	3	6	9	1	0
Radhanpur	0830	30	1015·7	1012·0	..	11·6	9·2	6·5	9·7	72	..	0·3	..	5·4	0	0	28	10	3	7	2	1	0	1	4	3	0
	1730	"	1012·4	1009·0	..	24·8	18.3	13.2	15·8	51	..	0.3	..	3·9	0	0	23	10	0	2	0	0	0	4	7	8	0
Idar	0830	219	1015·5	989·8	..	16·5	9.5	—0.5	6·2	35	..	0.3	..	4·2	0	0	22	2	13	6	0	0	0	0	1	9	0
	1730	"	1011·4	986·5	..	24·5	13·8	1.6	7·2	23	..	0·3	..	3·1	0	0	25	0	1	3	2	0	3	11	5	6	0
Ahmadabad	0230	55	1013·4	1006·8	..	13.4	8·8	2·7	7·6	49	..	0.1	..	10·0	0	1	27	14	9	1	0	0	0	0	4	3	0
	0530	"	1033·3	1006·6	..	11.2	7·6	2.7	7·6	57	..	0·1	..	9·2	0	1	26	7	14	2	0	0	0	1	3	4	0
	0830	"	1015·5	1008·8	—1.5	12·2	8.0	2·4	7·4	52	—1	0·5	—0·8	8·5	0	4	18	2	8	8	1	0	0	0	3	9	0
	1130	"	1015·8	1009·4	..	23.3	13·2	1·4	7·0	25	..	0·5	..	17·2	0	13	18	1	4	17	2	1	0	1	4	0	0
	1730	"	1011·8	1005·5	..	26.3	14.2	0	6·4	19	..	0.5	..	13·0	0	3	28	7	7	6	0	1	1	4	5	0	0
	2330	"	1014·0	1007·5	..	15·8	10·1	3.3	7.8	44	..	0.3	..	9·8	0	1	26	11	8	1	0	0	0	0	7	4	0
Dohad	0830	333	1015·8	976·8	—1.3	13·2	8.2 (k)	1.2 (k)	6·9 (k)	45 (k)	—16	0·7	—0·9	6·7	0	1	29	0	6	8	4	9	1	2	0	1	0
	1730	"	1011·1	973·7	..	24·9	12·9	1.7	7.1	19	..	0·1	..	7·9	0	2	29	2	16	2	0	0	3	3	5	0	0
Baroda Aerodrome	0830	38	1015·0	1010·5	..	13·1	8·9	3·8	8·1	54	..	0·7	..	5·2	0	0	20	12	2	1	0	0	1	0	4	11	0
	1130	"	1015·2	1010·8	..	24·7	14·3	2·9	7.9	25	..	0·7	..	11·5	0	6	25	5	6	9	3	1	1	1	5	0	0
	1730	"	1011·1	1006.8	..	27·1	15·2	2.8	7·6	21	..	0·7	..	7·8	0	3	24	7	4	0	0	0	1	4	11	4	0
Baroda	0530	34	1013·0	1008·8	..	11·4	8·9	5.8	9·4	70	..	0	..	2·1	0	0	16	0	14	0	0	0	0	1	1	15	0
	0830	"	1015.3	1011.1	—0.6	11·4	8·7	5.3	9·0	67	—3	0.3	—0·8	2·8	0	0	19	0	17	0	0	0	1	1	0	12	0
	1130	"	1015·5	1011.4	..	24·9	15·0	5·0	9·0	28	..	0·4	..	3·3	0	0	24	1	15	3	1	1	1	0	2	7	0
	1730	"	1011·4	1007 4	..	25·6	15·9	6.7	10.2	31	..	0.4	..	3·4	0	0	24	1	12	1	0	0	1	4	5	7	0
	2330	"	1013·8	1009.6	..	15·7	11·7	7.6	10·5	59	..	0.2	..	2·3	0	0	17	1	13	0	0	0	0	1	2	14	0
Broach	0830	17	1014·3	1012.2	—1·1	11·9	8·8	5.1	8.8	63	—2	0·4	—0·7	4·1	0	0	30	1	14	4	2	1	3	0	5	1	0
	1730	"	1010·5	1008·6	..	28·7	16·6	5·0	9·1	22	..	0·2	..	4·7	0	0	31	4	14	0	1	0	4	1	7	0	0
Surat	0530	12	1012·5	1011·1	..	14·5	10·8	6·6	9·9	61	..	0·3	..	7·7	0	1	22	9	12	2	0	0	0	0	0	8	0
	0830	"	1014·7	1013·3	—0·9	15·0	11·1	7.3	10·1	59	0	0·7	—0·5	6.0	0	0	28	11	13	3	1	0	0	0	0	3	0
	1130	"	1014·9	1013·5	..	26·0	15·9	6.7	9·9	30	..	0·8	..	9·8	0	1	30	3	12	9	0	0	1	0	6	0	0
	1730	"	1011·0	1009.6	..	27·4	17·2	8.8	11·4	30	..	0·6	..	6·7	0	0	30	7	7	0	0	0	0	4	12	1	0
	2330	"	1013.5	1012·1	..	18·3	13·4	8·4	11.4	55	..	0·4	..	9·9	0	2	29	8	14	1	0	1	3	2	2	0	0
Saurashtra and Kutch																											
Bhutakia Bhimasar(R)	0830	47																									
(R)	1730	"																									
Naliya	0830	21	1015·7	1013·1	..	9·8	7·7	5.1	8·8	73	..	0·8	..	1·0	0	0	6	0	4	1	0	0	0	0	1	25	0
	1730	"	1012·6	1010·1	..	24·1	14·8	5.1	9.3	31	..	0·7	..	9·1	0	2	27	2	10	0	0	0	6	4	7	2	0

(k)—Mean of 20 days.

(R)—Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(*Contd.*)																											
Bhuj (Rudramata)	0230	80	1014·4	1004·7	..	10·5	..	..	..	..	..	0	..	4·1	0	0	18	0	1	1	0	0	10	5	1	13	0
	0530	,,	1014·2	1004.5	..	8·9	..	..	..	..	..	0·2	..	4.7	0	0	19	1	0	1	0	0	13	2	2	12	0
	0830	,,	1016·1	1006·4	−0.8	10·5		..	..	..	..	0·6	−0.7	3·7	0	0	16	0	0	1	0	0	9	3	3	15	0
	1130	,,	1016.3	1007·1	..	22·3	..	..	..	..	..	0·5	..	12.5	0	5	24	10	11	4	2	0	0	0	2	2	0
	1730	,,	1012·6	1003·4	..	24·5	..	..	..	..	..	0·6	..	12.5	0	3	26	8	14	2	0	0	1	0	4	2	0
	2330	,,	1015·1	1005·5	..	13.0	..	..	..	..	..	0·1	..	4·8	0	0	16	4	1	0	0	0	5	4	2	15	0
Kandla (Aerodrome)	0830	35	1016·0	1011·8	..	13·3	10·5	7.6	10·5	69	..	0·6	..	13·4	0	1	27	5	1	0	0	0	0	4	18	3	0
	1130	,,	1016·6	1012·5	..	22.7	15·2	8.5	11.2	41	..	0·5	..	18·0	0	9	22	9	8	4	1	0	0	1	8	0	0
	1730	,,	1012·7	1008·7	..	24·8	15·8	7·9	10·7	34	..	0·7	..	17.9	0	13	18	15	1		2	4	0	2	6	0	0
New Kandla	0830	14	1016·2	1014·5	..	14·3	10·7	6·6	9.9	61	..	0·9	..	9·9	0	1	30	16	3	0	0	2	1	0	9	0	0
	1730	,,	1013.1	1011.4	..	23·6	15·1	6·9	10·3	36	..	0·8	..	14 2	0	6	24	18	4	0	0	1	4	2	1	1	0
Mandvi	0830	9	1015·7	1014·6	−1.3	14·1	10·5	6·3	9·8	60	−5	0·7	−0·7	10.4	0	0	30	5	21	0	0	0	0	0	4	1	0
	1730	,,	1012·4	1011·3	..	22.2	17·3	13·5	15·8	60	..	0·9	..	17.1	0	10	21	1	2	1	1	3	11	8	1	0	3
Surendranagar	0830	74	1015·5	1006·7	−0·7	14·3	10·1	4·9	9·0	55	−1	0·5	−0·8	4·1	0	0	28	15	4	0	0	0	0	2	7	3	0
	1730	,,	1011·5	1003·0	..	27·0	16·2	6·4	9·7	29	..	0.3	..	5.4	0	0	31	16	4	2	0	0	1	4	4	0	0
Jamnagar (Aerodrome)	0530	23	1013·6	1010·9	..	11·4	8.9	5·5	9·4	69	..	0·1	..	8·1	0	1	26	1	3	5	6	6	3	3	0	4	0
	0830	,,	1015·6	1012.9	−1·3	12·0	9·2	5·7	9·4	67	4·7	0·7	−0.3	6·4	0	1	26	0	3	7	9	6	1	1	0	4	0
	1130	,,	1016·3	1013 7	..	21·2	13·8	6·3	9·8	40	.	0·8	..	16·0	0	6	25	4	16	6	0	0	0	1	4	0	0
	1730	,,	1012·3	1009·7	..	23 7	14·2	4·0	8·5	32	..	0·5	..	19·5	0	15	16	15	7	1	0	0	0	5	3	0	0
	2330	,,	1014·6	1011·9	..	16·6	13·5	10·5	12·9	69	..	0·2	..	10 6	0	3	26	5	8	2	0	0	3	6	5	2	0
Dwarka	0830	11	1015·4	1014·1	−1·2	15·7	13·5	11·5	13.7	76	+9	0·5	−1·1	8·5	0	1	30	11	11	7	0	0	0	0	2	0	0
	1730	,,	1012·9	1011·7	..	22·8	16.5	10·7	13·7	50	..	0·5	..	17·4	0	14	17	9	3	1	0	0	0	6	12	0	0
Rajkot	0830	138	1015·7	999·3	−1·1	13·2	9·2	4.3	8·4	56	−1	0·1	−1·0	3·9	0	0	14	0	7	1	1	0	1	3	1	17	0
	1130	,,	1015·6	999·8	..	23·4	14·5	5·3	9·3	33	..	0·1	..	16·5	0	13	18	5	18	3	0	0	1	2	2	0	0
	1730	,,	1011·7	996·1	..	25·9	15·2	4·6	8·7	26	..	0	..	13.8	0	0	31	2	18	1	0	0	0	9	1	0	0
Bhavnagar Aerodrome	0830	11	1015·1	1013·8	−1·2	14·2	9·4	3·4	8·0	50	+9	0·6	−0·8	11·4	0	1	28	7	2	0	0	0	3	2	15	2	0
	1130	,,	1015·6	1014·4	..	22·6	14·7	7·2	11·4	38	..	0·4	..	14.6	0	7	24	10	14	3	0	0	1	1	2	0	0
	1730	,,	1011·4	1010·2	..	26·2	16·3	7·3	10·5	31	..	0·8	..	18·1	0	10	21	5	15	6	3	2	0	0	0	0	0
Porbander Aerodrome	0830	7	1015·4	1014·6	..	15·4	11·2	6·2	9·9	57	..	0·6	..	6.5	0	4	20	4	7	5	5	0	0	0	3	7	0
	1130	,,	1015·8	1015·0	..	25·0	15·4	5·9	9·7	32	..	0·2	..	17·5	0	16	15	6	10	5	1	0	1	1	5	0	2
	1730	,,	1012·10	1011·3	..	25·0	16·0	7·3	10·9	36	..	0·3	..	19.7	0	20	11	8	5	1	0	0	1	14	2	0	0
Porbander	0830	7	1015·0	1014·2	−0.8	15·5	12·2	8·8	11·5	67	0	1·5	+0·4	5.2	0	0	31	15	7	4	0	0	0	0	5	0	0
	1730	,,	1012·1	1011·3	..	24·9	17·7	11·8	14·5	47	..	1·0	..	12·4	0	0	31	7	3	0	0	0	2	14	5	0	0
Keshod	0830	51	1015·6	1009.4	..	13·4	8·7	2·3	7·5	49	..	0·3	..	10·9	0	2	28	3	14	12	1	0	0	0	0	1	0
	1130	,,	1015·8	1009·9	..	23·6	14·0	3.6	8·2	29	..	0·2	..	18·8	0	13	18	8	14	7	0	0	0	1	1	0	0
	1730	,,	1011·7	1005·9	..	27·6	15·6	2·8	8·0	22	..	0·1	..	19·3	0	14	17	9	8	0	0	1	3	5	5	0	0
Mahuva	0830	9	1013·7	1012·7	..	16·0	10·6	4·0	8·5	46	..	0·8	..	10·3	0	0	30	17	7	2	0	0	0	0	4	1	0
	1730	,,	1010·8	1009·8	..	25·8	16·9	9·4	12·0	37	..	1·5	..	11·9	0	1	30	0	5	6	16	3	1	0	0	0	0
Veraval	0230	8	1013·0	1012 1	..	15·2	10·4	4·4	8·8	51	..	0·2	..	14·1	0	6	23	15	8	0	0	0	0	0	5	2	1
	0530	,,	1012·7	1011.8	..	14·0	9·4	3·4	8·1	52	..	0·2	..	15·5	0	7	24	16	10	0	0	0	0	0	3	0	2
	0830	,,	1014·7	1013.8	−1.2	15·2	10·1	3.6	8·3	48	−2	1·2	+0·1	14·0	0	6	25	16	10	1	0	0	0	0	1	0	3
	1130	,,	1015·2	1014.3	..	25·4	15·4	5.4	9·4	30	..	0·8	..	18·2	0	14	17	9	11	2	1	0	3	1	2	0	2
	1730	,,	1011.5	1010.6	..	24·5	18·5	13·5	16·4	55	..	1·1	..	19·7	0	15	16	2	2	1	2	2	1	12	9	0	0
	2330	,,	1013·9	1013.0	..	17·9	13·1	7·8	11·2	55	..	0 1	..	14·6	0	8	22	11	8	0	0	0	0	1	9	1	1
Konkan																											
Dahanu	0830	5	1013·5	1013.0	−0.8	18·0	13·7	9.8	12.2	60	−11	2·1	+0·6	9·0	0	0	31	4	7	9	10	0	0	1	0	0	0
	1730	,,	1010·6	1010.1	..	24·2	17·8	13·0	15·2	51	..	1·5	..	21.0	0	19	12	26	1	0	0	0	0	1	3	0	0
Bombay (Santa Cruz)	0230	15	1011·5	1009.8	..	16·7	14·2	12·0	14·2	75	..	0·5	..	2.9	0	0	14	3	8	3	0	0	0	0	0	17	0
	0530	,,	1011·3	1009·6	..	15·9	13·4	11·2	13·4	75	..	0·7	..	4·9	0	0	19	1	11	6	0	0	0	0	1	12	0
	0830	,,	1013·4	1011·7	−1.6	19·0	14·7	10·8	13·2	61	−4	1·5	+0·2	4·3	0	0	20	0	11	9	0	0	0	0	0	11	0
	1130	,,	1013·8	1012.1	..	27·0	17·0	8·7	11·2	33	..	1·1	..	10·3	0	3	26	2	9	9	1	0	0	3	5	2	0
	1730	,,	1010·4	1008.7		26·0	18·6	13.2	15.5	46	..	1·4	..	13·4	0	4	27	8	0	0	0	0	0	4	19	0	0
	2330	,,	1012·7	1011·0	..	19·0	15.8	13.7	15·4	71	..	0·4	..	4·8	0	0	22	11	5	1	0	0	0	1	4	9	0
Bombay	0830	11	1013·5	1012·2	−1·5	19·7	16·5	14·1	16·2	71	+1	1·5	+0.2	5·2	0	0	27	5	9	11	1	0	0	0	1	4	0
	1130	,,	1013·8	1012·6	..	25·9	18·9	14·1	16·3	49	..	1·3	..	5.1	0	0	31	2	8	15	2	0	0	1	3	0	0
	1730	,,	1010·5	1009·3	..	25·7	20·5	17·2	20·0	60	..	1.2	..	7.4	0	0	31	5	0	0	0	0	0	3	23	0	0
Alibag	0830	7	1013·2	1012·4	−1.5	19·5	16·1	13.4	15·6	69	+4	1·0	−0.5	3·4	0	0	28	8	14	4	1	0	0	0	1	3	0
Harnai	0830	20	1012·8	1010·5	0.8	23·1	17·7	13·5	15·9	56	−6	2.6	+1.2	9·5	0	5	20	4	6	9	2	1	2	1	0	6	0
	1730	,,	1009·9	1007·6	..	25·4	21·7	19.6	22·9	71	..	2.0	..	23.7	0	19	12	4	0	0	0		0	3	24	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan(—*Contd.*)																											
Ratnagiri	0830	35	1012·8	1008.8	−1·3	20·7	16·6	13·0	15·6	63	..	2·3	..	9·2	0	2	28	2	2	16	10	0	0	0	0	1	0
	1730	,,	1009·4	1005·5	..	27·7	21·0	16·7	19·5	53	..	1·3	..	8·5	0	0	30	1	0	0	0	0	0	2	27	1	0
Devgarh	0830	36	1012·5	1008.4	−1·2	20·7	18·2	16·3	18·9	77	+6	1·4	−0·4	11·0	0	1	30	0	5	22	4	0	0	0	0	0	0
	1730	,,	1009·2	1005·2	..	27·9	23·4	21·0	25·0	67	.	1·3	..	21·6	0	18	13	0	0	0	0	0	0	5	26	0	0
Vengurla	0230	9	1010·8	1009·8	..	19·2	17·3	16·0	18·3	82	..	0·6	..	0·7	0	0	3	3	0	0	0	0	0	0	0	28	0
	0530	,,	1010·6	1009·6	..	17·7	16·1	14·9	16·9	84	..	0·3	..	1.8	0	0	13	11	1	1	0	0	0	0	0	18	0
	0830	,,	1012·9	1011·9	−1.0	18 9	16·6	14·8	17·0	78	+4	0·9	−0·4	2·7	0	0	17	13	3	0	0	0	0	1	0	14	0
	1130	,,	1012·9	1011.9	..	20.0	19.5	12.5	14.9	38	..	1·2	..	7·4	0	0	29	6	1	7	0	4	6	5	0	2	0
	1730	,,	1009·4	1003·4	..	27·9	21·3	17.4	20·0	54	..	1·0	..	7·7	0	0	31	0	0	9	0	0	0	19	6	0	0
	2330	,,	1012·0	1011·0	..	21·0	18·7	17·2	19·7	80	.	0·7	..	2·6	0	0	15	11	1	1	0	0	1	0	1	16	0
Madhya Maharashtra																											
Nandurbar	0830	206	1015·2	991·3	..	18·9	12·3	4·9	9·0	41	..	0·6	..	7.8	0	0	27	0	4	15	2	1	4	1	0	4	0
	1730	,,	1010·4	987.2	..	26 8	16·6	7.3	10·7	29	..	0·6	..	4·5	0	1	20	1	9	3	0	0	0	5	3	10	0
Jalgaon	0830	201	1015.9	992.1	−0.2	13.9	9·9	5.4	9.0	57	−2	1.1	−0.5	8.7	0	1	29	0	2	13	6	1	1	2	0	1	0
	1730	,,	1011·1	988·5	..	28 0	16 1	4.6	8·7	23	..	1.0	..	9.7	0	3	25	3	2	10	0	0	0	10	3	3	0
Malegaon	0830	437	1016·3	965·1	−1·1	12·3	7·7	1·4	6.8	48	−4	1·0	−0.4	4·2	0	0	28	2	0	0	0	0	5	15	6	3	0
	1730	,,	1009·2	961·0	..	27 9	15·3	1·5	7·2	19	..	1·4	..	9·5	0	3	24	1	8	5	1	1	2	5	4	4	0
Deolali (Aerodrome)	0830	571	1016·7	950·4	..	12·5	9·4	6·1	9·5	66	..	1·5	..	3·4	0	0	17	13	1	0	1	0	0	2	0	14	0
	1730	,,	1010·9	947·2	..	26·7	15·4	5·5	9·3	27	..	1·3	..	8.9	0	1	30	7	4	2	1	0	9	6	2	0	0
Ahmednagar	0830	657	1015·5	940·2	−1·7	13·2	8.4	3·5	7·6	50	+3	0·7	−0·6	1·0	0	0	8	1	1	0	0	0	3	0	3	23	0
	1730	,,	1007·8	936·6	..	28·2	15·9	5·3	9.1	24	..	1.3	..	4·1	0	1	16	1	7	1	2	0	4	0	2	14	0
Poona (Aerodrome)	0230	593	1012·9	945·1	..	15·3	10·6	5·7	9·4	55	..	0·3	..	3 3	0	0	15	0	0	5	0	0	0	7	3	16	0
	0530	,,	1013·2	944·8	..	13·2	9·6	5·7	9·3	62	..	0·4	..	3·6	0	0	17	2	1	0	0	0	0	10	4	14	0
	0830	,,	1015·3	947·4	..	15·1	10·7	5·2	9·5	54	..	1·6	..	3·8	0	0	19	2	2	4	0	0	1	9	1	12	0
	1130	,,	1013·9	947·1	..	24·6	14·6	5·3	9·3	30	.	1·6	..	9·3	0	1	29	0	0	18	6	1	1	3	0	1	1
	1730	,,	1009·3	943·4	..	27·3	15·6	4·7	9·2	25	..	1·3	..	2·2	0	8	23	1	0	7	5	0	0	15	3	0	0
	2330	,,	1013·2	946·0	..	17·9	11·7	5·3	9·3	45	..	0·4	..	5·2	0	0	20	1	0	5	0	0	0	10	4	11	0
Poona	0530	559	1013·4	948·5	..	11·9	9·4	6·9	10·0	72	..	0·3	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	0830	,,	1015.5	950·9	−1·5	13·4	10·4	7·5	10·4	68	+2	1·3	−0·1	0·1	0	0	2	0	0	0	0	0	0	1	1	29	0
	1130	,,	1012.7	950·6	..	24·8	14·8	6·1	9·5	31	..	1·3	..	2·5	0	0	18	2	8	0	4	2	1	1	0	13	0
	1730	,,	1008·1	946·9	..	27·6	16·1	6·5	9·9	27	..	1·1	..	2·3	0	0	12	0	4	1	1	1	3	1	1	19	0
	2330	,,	1013 3	949·6	..	16·9	12·1	7·9	10·7	56	..	0·3	..	1·0	0	0	5	0	0	0	0	1	2	1	1	26	0
Jeur	0830	521	1015 3	955·4	−0.9	15.2	10·2	5·1	8·8	50	−5	2·1	+0·7	1·7	0	0	16	5	4	0	1	1	1	1	3	15	0
	1730	,,	1007·9	950·9	..	28·8	17·0	7·7	10·8	27	..	2·4	..	6·1	0	2	26	0	3	4	5	5	5	3	3	3	0
Baramati	0830	551	1015·4	952·0	−1·4	14·4	9·7	4·7	8·7	52	−10	0·8	−0 3	2·2	0	0	23	7	5	5	3	0	1	1	1	8	0
	1730	,,	1008·2	948·1	..	28·8	17.9	7·7	10·8	28	..	1·0	..	6·8	0	0	30	0	2	7	7	7	4	2	1	1	0
Sholapur	0530	479	1013·0	957·9	..	15·6	11·3	7·3	10·3	58	..	0 9	.	5·5	0	0	21	2	6	7	4	1	0	1	0	10	0
	0830	,,	1014·9	960·3	−1.1	18·8	13·1	7·9	10·9	50	−2	1·3	0	6·0	0	1	25	3	5	4	6	7	0	0	1	5	0
	1130	,,	1013·3	960·1	..	25·9	17·2	10·8	13·3	39	..	1·4	..	12·4	0	1	30	0	4	3	13	8	3	0	0	0	0
	1730	,,	1008·7	956·1	..	28·8	17·8	9·6	12·3	31	..	1·7	..	5·9	0	0	31	5	6	5	5	3	1	1	5	0	0
	2330	,,	1012 6	958.5	..	20·7	13·7	7·7	10·7	43	..	1·4	..	9·5	0	0	31	2	8	6	8	4	1	1	1	0	0
Miraj	0830	554	1014·7	951·5	−1.7	16·7	12·5	8·8	11.4	60	+1	3·5	+1·8	..	0	0	5	1	0	2	0	0	0	1	1	26	0
	1730	,,	1007·6	947·4	..	29·3	19·7	13·9	15·9	40	..	3·1	..	..	0	0	25	2	0	12	8	0	1	2	0	6	0
Kolhapur	0530	570	1012·7	947·3	..	14·3	11·1	7·9	10·9	66	..	0·8	..	4·1	0	0	26	0	3	9	2	2	6	4	0	5	0
	0830	,,	1014·3	949.5	−1·5	17·3	12.3	7·5	10·7	54	−8	1·5	+0·3	5·0	0	0	27	0	9	11	0	2	2	3	0	4	0
	1130	,,	1012.2	949.3	..	25·7	16.0	8.4	11.1	34	..	1·6	..	15·7	0	9	22	0	3	17	7	0	1	2	1	0	0
	1730	,,	1007.4	945·7	..	28.4	15·6	6.9	10·3	27	..	1·4	..	11·9	0	2	29	1	7	10	2	1	1	7	2	0	0
	2330	,,	1012·5	948·2	..	19·1	13 5	8·4	11 4	52	..	0·6	..	8·6	0	2	27	1	0	6	4	2	6	9	1	2	0
Marathwada																											
Aurangabad	0830	581	1015·3	949·3	−1 3	17 8	11·2	4·5	8·5	42	−5	1·6	0	4·1	0	1	23	1	6	14	0	0	0	3	0	7	0
	1730	,,	1009·4	945.7	..	27·1	15·6	5·9	9·3	26	..	1·6	..	5·2	0	2	22	0	2	3	2	3	3	10	1	7	0
Aurangabad (Chikalthan)	0230	579	1014·0	946·7	..	11·4	7·6	3.0	7·7	57	..	0·3	..	0·8	0	0	3	1	0	0	0	0	0	2	0	28	0
	0530	,,	1014·2	946·6	..	9·5	6·4	2 7	7·4	63	..	0·5	..	1·9	0	0	5	1	1	0	1	0	0	2	0	6	0
	0830	,,	1015·1	949·0	..	16·7	11·1	5·6	9·1	48	..	0·8	..	1·4	0	0	5	1		1	1	0	0	2	0	26	0
	1130	,,	1013·5	949·1	..	24·4	15·6	8·7	11·3	38	..	0·9	..	12·6	0	1	29	0	1		14	3	2	4	1	1	0
	1730	,,	1008·8	945·3	..	27·0	16·6	8·7	11·3	32	..	0·8	..	5·4	0	2	12	0	1	2	3	0	1	6	1	17	0
	2330	,,	1014·2	947·6	..	13·9	9.3	4·2	8·4	52	..	0·4	..	1·7	0	0	4	1	0	1	1	0	0	1	0	27	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*Contd.*																											
Parbhani	0830	423	1016.0	967.0	−0.4	15.9	10.7	4.7	8.7	48	−8	0.8	−0.8	4.1	0	0	27	4	8	2	6	1	2	1	5	4	0
	1730		1010.0	963.0	..	27.4	16.5	6.6	9.9	27	..	1.7	..	5.0	0	0	28	5	14	7	6	0	1	2	5	3	0
Nander	0830	358	1015·6	9743.	..	18.0	13·2	8·7	11·5	55	..	0·1	..	2·0	0	0	15	0	0	1	3	0	1	0	2	16	0
	1730	,,	1010·8	971·0	..	28·0	18.8	12.1	14.2	37	..	0 1	..	2·3	0	0	24	2	14	2	1	1	3	0	1	7	0
Bir	0830	519	1016·0	956·5	..	16·3	12·4	8·8	11·5	63	..	1·6	..	3·4	0	0	23	0	0	0	9	7	5	0	2	8	0
	1730	,,	1009·7	952·7	..	27·5	18·3	12·0	14·3	39	..	2·3	..	6·6	0	0	28	7	1	1	1	1	3	1	0	3	0
Vidarbha																											
Gondia	0830	313	1016·7	980·0	−0·8	14·2	11·0	7.7	10·6	66	−5	1·2	−0·5	3·0	0	1	17	3	5	1	1	4	2	0	2	13	0
	1730	,,	1011·7	976·3	..	24·6	15.2	6·2	9·7	31	..	1.5	..	1·8	0	0	22	4	4	0	1	0	7	0	6	9	0
Nagpur (Sonegaon)	0230	310	1013·5	977·1	..	13·4	10·7	7·8	10.7	69	..	0 6	..	3·7	0	0	22	8	3	0	0	0	1	0	10	9	0
	0530	,,	1014·0	977·4	..	11 9	9·8	7·4	10·4	74	..	0·9	..	3·0	0	0	20	10	0	1	0	0	0	1	8	11	0
	0830	,,	1016·3	980·0	−1·1	14·9	11·1	7·1	10·1	60	−3	1·3	−0·5	4·1	0	0	24	15	3	1	1	0	0	1	3	7	0
	1130	,,	1014·9	979·7	..	23·8	14·9	6·5	9·7	33	..	1·1	..	6·7	0	0	30	1	7	10	7	1	3	1	0	1	0
	1730	,,	1010·8	975.9	..	25·5	15·9	7·2	10·3	31	..	1·3	..	3·3	0	0	23	2	3	8	6	2	0	2	0	8	0
	2330	,,	1014·2	978·0	..	15·5	11·7	7·8	10·7	61	..	0·8	..	3·5	0	0	21	9	6	1	1	1	0	0	3	10	0
Amraoti	0830	370	1015·4	972·7	−1·3	18·0	11·5	4·1	8·4	41	−8	0·8	−0·9	5·3	0	0	31	3	16	7	1	4	0	0	0	0	0
	1730	,,	1009·0	967·8	..	26·7	15·7	4·8	9·0	26	..	1·2	..	6·0	0	0	31	4	2	4	5	3	6	2	5	0	0
Akola Aerodrome	0530	309	1013·2	976·7	..	12·5	8·5	3·4	7·9	54	..	0·3	..	3·4	0	0	26	0	0	21	2	0	1	2	0	5	0
	2330	,,	1012·9	977.2	..	18·0	11·7	4·4	8·7	42	..	0·4	..	3·3	0	0	24	2	2	14	2	1	0	3	0	7	0
Akola	0830	282	1015·7	982·7	−1·1	15·2	10·4	4·9	8·8	51	−3	0·7	−1·0	1·0	0	0	10	0	2	6	0	0	1	1	0	21	0
	1130	,,	1014·4	982·5	..	24·3	14·9	6·1	9.3	32	..	0·8	..	3·5	0	0	27	2	4	12	6	1	0	2	0	4	0
	1730	,,	1009·8	978·3	..	27·7	16·6	6·5	9·9	27	..	1·0	..	2·1	0	0	25	3	7	4	0	2	0	6	3	6	0
Bramhapuri	0830	229	1016·3	989·3	..	14·6	12·2	10·0	12·3	74	..	0 9	..	4·2	0	0	28	10	8	2	2	1	2	1	2	3	0
	1730	,,	1011·5	985·6	..	25·6	17·0	9·9	12.4	38	..	0·6	..	4.6	0	0	30	8	6	2	4	5	1	0	2	1	2
Buldhana	0830	650	1015·1	941·0	−1·1	16·2	10·8	5·4	9·0	49	−6	0·4	−1·4	1·4	0	0	20	0	2	0	6	0	0	0	12	11	0
	1730	,,	1009·2	937·9	..	25·4	15·3	6·9	10·1	31	..	0·7	..	1.5	0	0	21	0	3	0	1	0	2	0	15	10	0
Yeotmal	0830	451	1015·0	963·3	−1·3	18·0	11·9	5·1	9·0	44	−10	1·5	−0·6	9·9	0	3	28	4	6	9	4	4	1	0	3	0	0
	1730	,,	1010·0	959·9	..	26·1	15·3	4·7	8·7	26	..	1·8	..	9·0	0	1	30	6	9	6	0	4	3	1	2	0	0
Chanda	0830	193	1015·5	992·8	−1.5	15·8	12·9	10·3	12·5	70	+2	1·0	−0·6	2·6	0	0	22	3	1	8	4	3	1	1	1	9	0
	1730	,,	1010.6	988·8	..	26·8	17·1	9·0	11·2	33	..	0·9	..	4·0	0	0	28	4	6	12	4	2	0	0	0	3	0
Pusad	0830	334	1016·5	977 5	..	15·4	11·1	6·5	9·8	56	..	0·4	..	1·5	0	0	16	1	3	1	0	2	2	2	5	15	0
	1730	,,	1010·5	973·2	..	27·4	17·7	9·7	12·3	35	..	0·7	..	4 3	0	0	31	2	12	3	3	1	6	0	4	0	0
Sironcha	0830	123	1016·2	1001·7	−0·9	17·3	14·9	13·0	15·1	76	+1	1·0	−0·6	3·4	0	0	28	6	3	10	5	1	1	1	1	3	0
	1730	,,	1011·5	997·3	..	26·4	18·1	11·8	14·0	41	..	1·0	..	3.2	0	0	24	3	6	7	5	0	0	0	3	7	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1015·9	1015·2	−0·9	19·1	16·4	14·3	16·5	73	−7	0·7	−1·2	3·9	0	0	30	2	0	0	0	0	0	4	24	1	0
	1730	,,	1012·4	1011·7	..	23·2	18·5	15·3	17·5	62	..	0·6	..	0·8	0	0	31	0	4	15	8	4	0	0	0	0	0
Vishakhapatnam	0230	3	1012·9	1012·5	..	16·9	15·3	14·1	16·1	83	..	0·8	..	0·5	0	0	2	0	0	0	0	0	0	0	2	29	0
	0530	,,	1013·0	1012·6	..	15·7	14·4	13·4	15·2	86	..	0·8	..	0·2	0	0	1	0	0	0	0	0	0	0	1	30	0
	0830	,,	1015·6	1015·2	−0·9	20·9	17·1	14·4	16·4	67	−8	0·8	−1·8	2·6	0	0	9	0	3	2	0	0	0	0	4	22	0
	1130	,,	1014·7	1014·3	..	26·3	18·5	12·8	14·9	44	..	1·5	..	10·8	0	2	28	0	3	13	12	0	0	0	1	1	1
	1730	,,	1012·0	1011·6	..	23.7	18·4	14·7	16·9	58	..	0·8	..	13·6	0	1	30	0	1	20	9	1	0	0	0	0	0
	2330	,,	1014·3	1013·9	..	18·3	16·3	14·3	16·9	80	..	0·9	..	0·9	0	0	5	0	2	1	0	0	0	0	2	26	0
Kakinada	0830	8	1015·6	1014·7	−0·8	23·3	18·7	15·6	17·8	62	−13	0·6	−2·1	13·0	0	2	29	0	31	0	0	0	0	0	0	0	0
	1730	,,	1011·8	1010·9	..	24·1	19·6	16·7	19·3	64	..	0·4	..	13·4	0	0	31	0	19	0	12	0	0	0	0	0	0
Nidadavole	0830	12	1015·5	1014·0	..	19·9	17·2	15·4	17·6	75	..	3·1	..	4·6	0	0	30	0	19	0	0	0	8	5	6	1	0
	1730	,,	1011·2	1009·8	..	26·3	19·3	14·5	16·7	49	..	3·5	..	4·7	0	0	25	0	0	6	18	0	1	0	0	6	0
Bentachintala	0830	106	1015·4	1003·1	..	20·9	17·4	14·9	17·0	69	0	2·3	−1·3	1·7	0	0	22	4	0	6	6	0	0	5	1	9	0
	1730	,,	1010·2	998·1	..	28.6	18·7	11·1	13·6	34	..	1·5	..	2·7	0	0	31	8	7	13	2	0	0	0	1	0	0
Ichnavaram	0230	24	1012·5	1009·7	..	18·9	17·8	17·1	19·5	89	..	1·5	..	4·7	0	1	24	8	14	2	0	0	0	0	1	6	0
	0530	,,	1010·0	1012·8	..	18·2	17·2	16·5	18 8	90	..	1·2	..	7·1	0	1	27	9	15	3	1	0	0	0	0	3	0
	0830	,,	1015.5	1012·7	..	21·0	18·3	16·6	18·8	76	0	1·5	−0·2	9·9	0	4	26	9	12	9	0	0	0	0	0	1	0
	1130	,,	1014·8	1012·0	..	26·2	20·4	16·8	19·3	56	..	2·0	..	13·0	0	7	23	4	3	16	7	0	0	0	0	1	0
	1730	,,	1011·2	1008·5	..	26·8	20·0	15·5	17·8	51	..	2·0	..	8·6	0	3	28	1	2	11	15	2	0	0	0	0	0
	2330	,,	1014·0	1011·2	..	20·0	18·2	17·1	19·5	83	..	1·2	..	4·8	0	0	25	6	9	6	1	0	0	1	2	6	0
Nagarjunakonda	0830	..	..	..	..	21·9	18·2	15·6	17·8	67	..	2·9	..	7·0	0	1	20	1	5	5	6	3	0	1	0	10	0
	1730	..	..	..	..	28·5	19·7	13·7	15·8	41	..	2·3	..	13·6	0	7	24	6	9	9	6	1	0	0	0	0	0
Masulipatam	0830	3	1015·3	1014.9	−1·1	21·5	19·3	18.0	20·6	81	−2	2·0	+0·1	4·0	0	0	30	2	19	9	0	0	0	0	0	1	0
	1730	,,	1011·6	1011·2	..	24·4	20·5	18·3	21·0	69	..	2.7	..	5·2	0	0	31	0	0	16	15	0	0	0	0	0	0
Ongole	0830	12	1015·1	1013·8	..	22·2	19·6	17·9	20·6	77	..	3·2	..	2·9	0	0	31	7	23	1	0	0	0	0	0	0	0
	1730	,,	1011·1	1009·8	..	25·8	21·1	18.3	21·1	64	..	3·0	..	7·2	0	0	31	0	3	21	6	0	0	0	0	0	1

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean temperature in °C. Dry bulb	Mean temperature in °C. Wet bulb	Mean temperature in °C. Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind speed, in km. per hour	Wind speed (km p.h.) 62 or more	Wind speed (km p.h.) 20 to 61	Wind speed (km p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Coastal Andhra Pradesh—*Contd.*																										
Nellore	0530	20	1012·1	1009·8	..	19·2	18·4	17·9	20·5	92	..	1·8	..	0·1	0	0	1	0	1	0	0	0	0	0	0	30
	0830	„	1014·8	1012·5	..	20·9	19·4	18·4	21·3	85	+1	4·1	+0·7	1·2	0	0	14	4	1	0	0	0	0	0	9	17
	1130	„	1014·2	1011·9	..	26·9	21·0	17·5	20·0	56	..	4·8	..	3·5	0	0	30	7	22	1	0	0	0	0	0	1
	1730	„	1011·5	1009·2	..	25·3	20·4	17·3	19·7	62	..	4·0	..	3.3	0	0	30	0	19	11	0	0	0	0	0	1
	2330	„	1013·5	1011·2	..	20·9	19·5	18·7	21·6	87	..	2.1	..	0·2	0	0	2	0	1	1	0	0	0	0	0	29
Telangana																										
Ramgundam	0830	156	1015·0	996·7	—1·2	16·7	14·3	12·4	14·3	76	+10	0·8	—1·1	2·6	0	1	11	4	0	0	0	7	0	1	0	19
	1730	„	1010·6	993·0	..	27·6	17·5	9·3	11·9	32	..	0·7	..	4·8	0	0	28	11	1	5	0	4	0	0	1	3
Nizamabad	0830	381	1015·3	971·3	—1·1	17·8	13·8	10·2	12·5	62	—1	0·8	—0·6	0·5	0	0	6	0	1	0	0	2	0	2	1	25
	1730	„	1010·0	907·7	..	27·4	16·6	6.8	10·1	28	..	1·3	..	1·1	0	0	13	2	7	1	0	1	1	0	1	18
Hanamkonda	0830	269	1015·2	984·3	—1·5	20·0	17·7	16·0	18·4	78	+5	0·4	—2·2	2·1	0	0	27	3	1	0	4	18	0	0	1	4
	1730	„	1011·2	981·1	..	26·9	19·0	13·5	15·6	45	..	0·3	..	1·8	0	0	27	8	8	2	0	8	1	0	0	4
Hakimpet Aerodrome	0530	613	1013·3	943·4	..	15·5	13·5	11·9	14·0	79	..	1·5	..	9·2	0	3	28	0	2	20	9	0	0	0	0	0
	0830	„	1014·4	945·1	..	18·2	14·8	12·1	14·1	69	..	2·9	..	10·5	0	2	29	0	3	8	18	2	0	0	0	0
	1130	„	1013·2	945·3	..	23·8	16·1	10·1	12·0	43	..	1·8	..	15·9	0	9	22	0	4	10	15	2	0	0	0	0
	1730	„	1010·6	942·7	..	25·1	15·7	8·0	10·1	34	..	1·8	..	11·5	0	3	28	4	4	15	6	1	1	0	0	0
Bhadrachallam	0830	111	1015·7	1002·7	—1·1	18·0	15·5	13·9	17·8	76	—1	2·8	+0·5	2·4	0	0	29	1	9	6	4	3	0	4	2	2
	1730	„	1010·8	998·4	..	26·9	18·3	11·9	14·0	40	..	0·7	..	2·0	0	0	29	0	20	2	0	2	0	1	4	2
Hyderabad (Begampet)	0230	545	1013·3	950·8	..	14·8	12·2	10·1	12·3	74	..	0·9	..	5·5	0	1	18	3	3	3	9	1	0	0	0	12
	0530	„	1013·6	950·8	..	13·4	11·8	10.4	12·7	82	..	1·2	..	5·2	0	0	24	6	5	6	7	0	0	0	0	7
	0830	„	1015.5	950·2	—1·1	16·4	13·9	12·0	14·1	75	+5	3·1	+0·9	5·1	0	2	11	0	0	3	6	3	0	0	1	18
	1130	„	1013.7	953·1	..	24·0	16·2	10·3	12·7	43	..	1·7	..	13·5	0	3	28	0	3	7	15	5	0	1	0	0
	1730	„	1009·7	949·7	..	25·8	16·0	8·3	11·0	34	..	2·1	..	8·1	0	0	29	1	2	14	9	1	2	0	0	2
	2330	„	1014·0	952·0	..	17·3	13·5	10·4	12·7	65	..	1·2	..	6.0	0	23	1	2	4	4	13	1	0	0	0	7
Khammam	0830	112	1015·2	1002·2	..	19·4	17·0	15·3	17·4	77	..	1·5	..	1·7	0	0	13	1	0	10	1	1	0	0	0	18
	1730	„	1010·6	998·0	..	28·0	18·9	12·3	14·5	39	..	2·1	..	3·0	0	0	20	1	1	11	4	1	0	0	2	11
Mahbabubnagar	0830	505	1014·4	957·1	..	20·0	15·5	12·2	14·3	62	..	2·1	..	9·3	0	1	28	0	11	15	1	0	1	0	1	2
	1730	„	1009·1	953·4	..	26 7	16·3	7·8	10·0	31	..	1·8	..	4·7	0	0	30	0	4	18	4	1	2	1	0	1
Rayalaseema																										
Kurnool	0830	281	..	..	..	19·5	15·3	12·0	14·0	62	—7	1·6	—0·1	3·6	0	0	30	0	0	23	3	3	0	1	0	1
	1730	„	..	..	..	29·2	13·0	8·9	11·4	29	..	1·9	..	5·2	0	0	28	1	1	22	4	0	0	0	0	3
Anantapur	0530	350	1012·2	971·9	..	17·1	14·2	11·9	13·8	72	..	1·3	..	2·6	0	0	14	0	1	7	4	0	1	0	1	17
	0830	„	1014·5	974·4	—0·7	19·8	15·7	12·5	14·5	63	—5	1·8	+0·4	3·9	0	0	16	1	3	9	2	0	0	0	1	15
	1130	„	1013·1	973·8	..	25·6	17·6	11·4	13·7	41	..	1·8	..	12·8	0	7	24	0	5	19	5	0	0	0	1	0
	1730	„	1008·5	969·8	..	28·4	18·0	9·8	12·2	32	..	2·4	..	13·9	0	7	24	0	13	15	2	0	0	1	0	0
	2330	„	1012·3	972·5	..	21·7	16·3	12·0	14·1	54	..	1·3	..	14·6	0	10	20	1	0	24	5	0	0	0	0	1
Cuddapah	0830	130	1015·1	1000·1	—0.7	22·8	19·7	17·8	20·4	74	0	1·3	—0.9	2·1	0	0	13	0	0	13	0	0	0	0	0	18
	1730	„	1010·1	995·5	..	28·1	21·8	18·2	20·4	55	..	1·9	..	6·1	0	0	30	0	6	24	0	0	0	0	0	1
Arogyavaram	0830	701	1014·6	935·8	..	18·0	15·6	14·0	15·9	77	..	3·3	..	2·3	0	0	19	2	3	3	1	10	0	0	0	12
	1730	„	1008·8	932·2	..	25·2	17·0	11·0	13·4	42	..	3·6	..	6·5	0	0	30	6	5	16	1	1	0	0	1	1
Madras State																										
Madras	0830	6	1014·3	1013·6	..	23·2	20·5	18·9	21·8	77	..	5·3	..	5·8	0	0	29	12	9	1	0	0	0	1	6	2
Madras (Minambakkam)	0230	16	1011·6	1009·8	..	21·1	19·4	18·3	21·1	85	..	3.6	..	4·8	0	1	21	7	2	1	0	0	0	4	8	9
	0530	„	1011·9	1010·1	..	20·5	19·0	18·1	20·8	87	..	3·7	..	5·8	0	0	24	7	2	0	0	0	0	4	11	7
	0830	„	1014·3	1012·5	—1·1	22·5	19·9	18·4	21·1	78	—6	4·5	+1·4	10·0	0	0	31	15	2	1	0	0	0	3	10	0
	1130	„	1013·8	1012·0	..	26·9	20·4	16·3	18·8	53	..	5·6	..	17 0	0	10	21	10	17	4	0	0	0	0	0	0
	1730	„	1011·1	1009·3	..	25·4	20·3	17·1	19·7	61	..	3·7	..	17·8	0	15	16	6	20	5	0	0	0	0	0	0
	2330	„	1013·3	1011·5	..	22·2	19·8	18·3	21·1	79	..	3·2	..	8·1	0	1	28	9	8	2	0	0	0	2	8	2
Vellore	0530	214	1012 5	987·6	..	18·1	17·3	16·9	19·3	93	..	4·2	..	0·1	0	0	1	0	0	1	0	0	0	0	0	30
	0830	„	1014·5	989·8	—1·2	20·2	18·3	17·1	19·5	83	—3	4·9	+2·1	0·1	0	0	1	0	1	0	0	0	0	0	0	30
	1130	„	1013·7	989·4	..	25·5	20·0	16·6	18·9	58	..	5·1	..	4.7	0	0	28	7	19	2	0	0	0	0	0	3
	1730	„	1009·4	985·4	..	26·8	20·1	15·8	18·1	51	..	3·8	..	5·9	0	0	31	0	31	0	0	0	0	0	0	0
	2330	„	1013·5	988·9	..	21·8	19·2	17·5	20·0	77	..	3·3	..	4·7	0	0	24	0	20	4	0	0	0	0	0	7
Tambaram (Aerodrome)	0830	29	1014·0	1010·6	..	22·7	20·8	19·7	22·9	84	..	4·7	..	8·4	0	0	30	15	2	1	0	0	0	0	12	1
	1730	„	1010.7	1007·4	..	25·9	21·1	18·2	21·0	63	..	3·4	..	18.4	0	13	18	1	17	13	0	0	0	0	0	0
Tiruppattur	0830	390	1014·6	970·0	..	18·6	17·1	16·1	18·3	85	..	4·6	..	3·7	0	0	29	18	8	0	0	3	0	0	0	2
	1730	„	1008·6	965·5	..	27·1	19·3	14·0	16·0	45	..	4·5	..	9·2	0	0	30	22	8	0	0	0	0	0	0	1
Cuddalore	0530	12	1010·9	1009·5	..	20·7	19·5	18·9	21·7	89	..	5·3	..	3·0	0	0	20	5	3	0	0	0	0	0	12	11
	0830	„	1013·7	1012·3	—1.4	22·5	20·4	19·2	22·4	82	—2	6·3	+2·8	7·0	0	0	29	7	15	0	0	0	0	0	7	2
	1130	„	1013·2	1011·8	..	26·5	21·3	18·3	21·0	61	..	6·1	..	15·5	0	8	23	7	22	0	1	0	0	0	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—Contd.																											
Cuddalore—*(contd.)*	1730	12	1010.4	1009.1	..	25.2	21.4	19.2	22.4	70	..	5.5	..	12.0	0	2	29	5	26	0	0	0	0	0	0	0	0
	2330	,,	1012.5	1011.1	..	22.9	20.5	19.4	22.7	81	..	5.3	..	6.6	0	1	27	13	14	0	0	0	0	0	1	3	0
Nallakkurichchi	0830	127	1013.9	999.4	..	22.6	19.6	17.8	20.4	75	..	3.6	..	6.9	0	1	20	15	1	0	0	0	0	0	5	10	0
	1730	,,	1009.5	995.2	..	22.4	20.5	16.1	18.5	51	..	4.0	..	10.1	0	2	26	5	18	5	0	0	0	0	0	3	0
[illegible]	0530	278	1011.6	979.7	..	20.0	17.3	15.5	17.6	75	..	4.5	..	3.2	0	0	23	0	6	17	0	0	0	0	0	8	0
	0830	,,	1013.7	982.0	—1.5	22.2	18.1	15.4	17.4	66	—10	5.3	+2.8	4.2	0	0	26	1	8	16	1	0	0	0	0	5	0
	1130	,,	1012.3	981.3	..	27.9	19.8	14.4	16.5	44	..	5.1	..	5.8	0	0	28	0	6	21	1	0	0	0	0	3	0
	1730	,,	1008.1	977.3	..	29.1	20.2	14.4	16.4	41	..	5.0	..	8.1	0	1	27	2	24	1	1	0	0	0	0	3	0
	2330	,,	1012.1	980.5	..	23.0	18.7	15.8	18.1	64	..	3.1	..	16.3	0	9	21	0	6	24	0	0	0	0	0	1	0
Coimbatore (Pilamedu)	0530	399	1011.5	966.1	..	19.0	17.5	16.4	18.8	85	..	4.5	..	5.2	0	0	26	7	8	7	0	0	0	0	3	5	1
	0830	,,	1013.7	968.5	..	21.5	18.7	16.9	19.3	75	..	4.8	..	9.8	0	1	30	3	22	6	0	0	0	0	0	0	0
	1130	,,	1012.3	967.8	..	25.6	20.1	16.7	19.0	58	..	4.5	..	15.5	0	8	23	1	20	9	0	0	0	0	1	0	0
	1730	,,	1007.9	964.5	..	28.3	21.3	16.9	19.6	51	..	3.6	..	11.7	0	0	30	2	11	15	0	0	2	0	0	1	0
	2330	,,	1012.2	967.1	..	21.8	18.6	16.4	18.9	72	..	3.6	..	12.6	0	5	24	1	6	12	5	2	2	0	1	2	0
Coimbatore	0830	409	1013.5	967.3	—1.4	21.6	18.5	16.4	18.8	75	—7	5.1	+1.7	18.3	0	15	16	0	8	15	8	0	0	0	0	0	0
	1730	,,	1007.9	963.0	..	28.6	19.9	13.9	16.2	41	..	4.7	..	18.0	0	12	19	1	6	13	8	1	1	1	0	0	0
Nagapattinam	0830	9	1013.3	1012.3	—1.1	23.5	21.3	20.1	23.5	82	+3	5.9	+1.6	9.6	0	4	27	13	5	0	0	0	0	1	12	0	0
	1730	,,	1010.0	1008.9	..	25.6	22.3	20.5	24.1	74	..	5.2	..	25.1	0	26	5	9	20	2	0	0	0	0	0	0	0
Tiruchirappalli	0230	88	1011.3	1001.1	..	21.4	19.6	18.5	21.3	83	..	3.1	..	19.9	0	2	27	4	21	4	0	0	0	0	0	2	0
	0530	,,	1011.4	1001.3	..	21.0	19.2	18.0	20.8	83	..	3.1	..	11.5	0	3	27	7	21	2	0	0	0	0	0	1	0
	0830	,,	1013.9	1003.8	—1.3	23.1	19.9	18.0	20.6	73	—7	3.9	+1.0	14.0	0	6	24	13	16	1	0	0	0	0	0	1	0
	1130	,,	1013.0	1003.1	..	27.3	20.9	17.1	19.5	54	..	4.3	..	18.1	0	11	20	9	20	2	0	0	0	0	0	0	0
	1730	,,	1009.6	999.7	..	27.3	21.4	18.0	20.8	57	..	4.3	..	17.2	0	9	22	0	16	15	0	0	0	0	0	0	0
	2330	,,	1012.9	1002.8	..	22.0	20.3	19.3	22.4	85	..	3.3	..	11.9	0	1	30	2	20	9	0	0	0	0	0	0	0
Vedaranniyam	0830	4	1013.1	1012.6	..	24.0	21.5	20.1	23.5	80	..	5.6	..	10.0	0	0	31	16	10	1	0	0	0	0	4	0	0
	1730	,,	1009.5	1009.0	..	25.4	22.1	20.3	23.8	73	..	4.6	..	13.9	0	4	27	12	17	1	0	0	0	0	1	0	0
Atirampattinam	0830	6	1012.9	1012.2	..	23.2	21.1	19.9	23.2	82	..	5.6	..	12.6	0	1	30	23	4	0	0	0	0	0	4	0	0
	1730	,,	1009.6	1008.9	..	26.3	22.2	20.0	23.5	69	..	5.1	..	15.5	0	4	27	3	26	0	2	0	0	0	0	0	0
Madurai	0830	133	1012.8	997.5	—2.0	23.8	20.7	18.9	21.8	74	—5	6.0	+2.4	5.7	0	0	31	10	14	2	0	0	0	0	5	0	0
	1730	,,	1008.4	993.5	..	28.4	22.3	18.9	22.0	58	..	5.4	..	6.4	0	0	31	3	18	5	3	0	2	0	0	0	0
Madurai Aerodrome	0530	130	1011.0	995.9	..	21.0	19.5	18.7	21.6	86	..	4.5	..	8.7	0	0	29	0	27	2	0	0	0	0	0	2	0
	0830	,,	1013.0	997.9	..	23.3	20.4	18.7	21.6	75	..	5.1	..	14.9	0	10	19	1	27	1	0	0	0	0	0	2	0
	1130	,,	1012.3	997.5	..	27.4	21.5	18.1	20.8	57	..	5.0	..	27.9	0	22	7	0	28	0	0	0	0	0	0	2	1
	1730	,,	1008.5	993.8	..	28.4	22.0	18.3	22.1	55	..	5.2	..	18.5	0	16	15	0	24	6	1	0	0	0	0	0	0
Tondi	0830	5	1013.1	1012.5	..	23.6	20.8	19.2	22.2	77	..	5.5	..	8.1	0	0	25	4	2	1	0	0	0	0	18	6	0
	1730	,,	1009.6	1009.0	..	26.2	22.9	21.1	25.3	74	..	5.0	..	23.2	0	20	11	0	13	17	1	0	0	0	0	0	0
Pamban	0830	11	1012.7	1011.4	—1.3	24.6	22.8	22.0	26.3	85	+2	4.3	+1.0	9.0	0	0	31	19	6	1	0	0	0	0	5	0	0
	1730	,,	1009.6	1008.3	..	25.5	23.3	22.2	26.7	82	..	3.8	..	9.2	0	0	30	14	14	2	0	0	0	0	0	1	0
Tuticorin	0830	4	1013.1	1012.7	..	24.3	21.6	20.1	23.5	78	+1	4.6	+1.7	16.5	0	9	22	20	10	0	1	0	0	0	0	0	0
	1730	,,	1009.2	1008.8	..	26.5	23.7	22.3	26.9	78	..	5.2	..	32.6	0	29	2	1	9	19	2	0	0	0	0	0	0
Palayankottai	0830	51	1013.2	1007.4	..	24.1	20.7	18.7	21.7	72	—4	5.9	+1.7	4.8	0	0	28	26	0	0	0	0	0	0	2	3	0
	1730	,,	1008.9	1003.1	..	27.8	21.9	18.6	21.4	58	..	5.7	..	6.1	0	1	26	7	2	14	3	1	0	0	0	4	0
Kanniyakumari	0830	37	1011.5	1007.4	..	25.3	21.0	18.5	21.3	67	..	4.2	..	27.0	0	26	5	11	18	1	0	0	0	0	1	0	0
	1730	,,	1008.5	1004.4	..	27.1	22.7	20.3	24.0	68	..	5.9	..	23.5	0	22	9	4	15	10	0	1	1	0	0	0	0
Coastal Mysore																											
Karwar	0830	4	1012.6	1012.1	—1.3	20.0	17.5	15.5	17.9	77	+1	2.8	+1.1	5.0	0	0	23	0	7	16	0	0	0	0	0	8	0
	1730	,,	1008.9	1008.4	..	26.2	22.8	19.5	23.5	61	..	2.1	..	10.6	0	2	27	0	0	1	0	0	0	1	27	2	1
Honavar	0830	26	1012.4	1009.4	—1.8	21.8	17.4	14.0	16.3	63	—6	3.3	+0.7	5.3	0	0	26	0	11	14	0	0	0	0	1	5	0
	1730	,,	1008.6	1005.7	..	28.8	21.9	17.9	20.6	53	..	2.1	..	10.1	0	1	30	0	2	1	0	0	2	14	12	0	0
Mangalore (Bajpe)	0230	102	1009.7	998.0	..	22.3	19.9	18.5	21.3	80	..	1.8	..	6.1	0	0	28	2	7	14	5	0	0	0	0	3	0
	0530	,,	1009.7	998.1	..	21.1	18.9	17.3	20.0	79	..	1.9	..	8.3	0	0	29	2	4	22	1	0	0	0	0	2	0
	0830	,,	1012.0	1000.3	..	23.4	19.1	16.3	18.6	65	..	2.4	..	9.2	0	0	30	0	6	21	3	0	0	0	0	1	0
	1130	,,	1011.5	1001.1	..	29.7	20.6	14.5	16.8	40	..	2.3	..	10.5	0	0	31	0	6	11	8	2	0	0	4	0	0
	1730	,,	1008.0	996.6	..	28.3	21.8	18.1	20.8	55	..	2.3	..	15.0	0	3	28	1	0	1	0	0	0	16	13	0	0
	2330	,,	1011.1	999.5	..	23.7	20.9	19.3	22.4	77	..	1.6	..	6.1	0	0	28	9	9	7	2	0	0	0	1	3	0
Bangalore	0830	22	1011.9	1009.3	—2.0	24.3	19.8	16.9	19.5	64	—4	2.9	+0.9	3.3	0	0	31	1	3	26	1	0	0	0	0	0	0
	1730	,,	1008.3	1005.8	..	28.7	22.9	19.7	22.9	59	..	3.1	..	6.5	0	0	31	1	0	0	0	0	2	16	12	0	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1962 (PAUSA 11—MAGHA 11, 1883 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Interior Mysore (North)																										
Bidar	0830	664	1014·9	940·1	..	18·7	14·3	11·0	13·1	62	+3	0·5	−1.6	11·6	0	1	30	0	0	13	11	2	4	0	1	0
	1730	,,	1009.5	936.7	..	25·4	16·4	9.6	12·1	37	..	0·8	..	11·4	0	0	31	0	14	7	3	1	3	0	3	0
Gulbarga	0830	458	1015·0	962·9	−0·9	20·2	13·9	8·6	11·2	48	−8	1·8	+0.5	6.5	0	0	30	1	2	14	10	2	1	0	0	1
	1730	,,	1008·9	958·4	..	28·3	16·2	6·3	9·6	25	..	2·1	..	6·2	0	0	24	0	5	11	5	2	1	0	0	7
Bijapur	0830	594	1014.7	947·1	−1.4	17·2	12·9	9·1	11·7	60	0	1·9	+0.4	4·4	0	0	20	1	2	1	7	7	0	11	1	11
	1730	,,	1008.1	943·3	..	27·9	17·1	9·1	11.5	31	..	2·0	..	3·1	0	0	31	0	1	25	1	1	1	2	0	0
Raichur	0830	400	1014·5	969·0	−1.2	20·3	16·0	12·5	14·7	62	−2	3·5	+2·0	4.5	0	0	27	0	8	1	15	0	1	0	2	4
	1730	,,	1009.2	965.0	..	27·9	17·9	9·9	12·3	33	..	3·1	..	5·9	0	0	31	0	19	0	10	0	1	0	1	0
Belgaum	0830	753	1014.6	929.6	−1·5	15.4	12·8	10·7	12·9	75	+12	1.5	0	2·3	0	0	16	0	0	12	0	0	1	1	2	15
	1730	,,	1007.4	926.1	..	27.2	19.5	14·7	17.0	48	..	1.5	..	7.0	0	0	31	0	4	18	3	1	0	2	2	0
Belgaum (Samra)	0530	747	1012·5	928.1	..	15·2	11·4	7.8	10·7	63	..	1·9	..	3·3	0	0	16	2	3	6	2	0	1	2	0	15
	0830	,,	1013·7	930·1	..	18·7	13·5	9·0	11·7	55	..	1·9	..	6·6	0	3	17	1	5	8	4	0	1	1	0	11
	1130	,,	1012·1	930·2	..	24·3	15·9	9·5	11·9	40	..	2·0	..	15·8	0	10	20	1	1	13	10	2	1	1	0	1
	1730	,,	1007.7	926.9	..	27.2	16·3	7·4	10·7	30	..	1·3	..	9·5	0	4	20	0	5	10	4	2	0	3	0	6
Gadag	0530	649	1012.3	938.8	..	16.5	14·8	13·6	15·7	84	..	1·0	..	4·3	0	0	19	0	1	13	2	1	0	1	1	12
	0830	,,	1014·1	940·9	−1.5	18·7	16·5	15·4	17·1	81	+19	1·3	−0.1	4.6	0	0	26	0	1	16	6	1	0	1	1	5
	1130	,,	1012·2	940·9	..	26.0	21·0	18·4	21·1	64	..	1·9	..	7·9	0	0	30	0	2	15	10	0	1	2	0	1
	1730	,,	1007·8	937.2	..	27·9	21·9	18·6	21·8	58	..	2·8	..	5·5	0	0	30	0	7	14	5	0	3	0	1	1
	2330	,,	1012.5	939·8	..	20·0	16·6	14·4	16.4	71	..	0.9	..	10·0	0	0	29	0	1	22	2	0	0	3	1	2
Interior Mysore (South)																										
Bellary	0830	449	1014·9	963.3	−1.2	19·2	17·0	15·4	17·6	79	+15	1·3	−0·8	4·1	0	0	18	0	0	0	15	0	1	1	1	13
	1730	,,	1008·0	958.7	..	29·0	22·9	19·8	22·9	57	..	2·0	..	6·8	0	0	30	0	0	0	26	1	1	1	1	1
Chitradurga	0830	733	1013·4	931.6	−1·4	19·2	15·3	12·5	14·6	66	+4	1·8	−0.4	6.0	0	0	28	0	0	16	11	0	1	0	0	3
	1730	,,	1007·4	928·0	..	26·6	16·2	7·9	10·9	31	..	2·3	..	2·5	0	0	23	0	0	22	0	0	0	1	0	8
Shimoga	0830	571	1013·4	948.8	−1·6	18·1	14.6	11·8	14.1	67	−9	7·9	+5·5	0·7	0	0	9	0	0	0	1	2	4	1	1	22
	1730	,,	1006.1	944.2	..	29.0	17.8	9.4	12.2	31	..	7.9	..	5.0	0	0	23	2	10	5	1	1	2	1	1	8
Agumbe	0830	..	..	..	..	16·8	14·7	12·8	15·2	80	..	2·3	..	12·6	0	6	22	0	23	5	0	0	0	0	0	3
Balehonnur	0830		..	..	..	15.7	13.5	11.7	13.8	78	+5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1517.8	907·5	..	18.4	15.2	13.0	15.0	72	0	3.9	+1·4	2.7	0	0	28	0	2	14	8	0	3	1	0	3
	1730	,,	1501·0	904·0	..	25·8	16.4	8·9	11·8	35	..	4·1	..	2.3	0	0	26	6	1	13	2	0	3	1	0	5
Bangalore	0230	921	1493·5	909.5	..	16·2	14·9	14·0	16·0	87	..	3·0	..	7.9	0	0	31	0	3	22	6	0	0	0	0	0
	0830	,,	1516.9	911.9	−1.2	17·1	15·0	13·5	15·5	81	+3	4·9	+1.9	9·2	0	0	30	0	2	24	3	0	0	0	1	1
	1130	,,	1525.1	911·5	..	22·9	16.5	11.9	14·1	51	..	3·8	..	10·6	0	0	31	1	4	20	5	0	0	0	1	0
	1730	,,	1500.1	908.4	..	24·9	16·6	10·5	12·9	41	..	3.7	..	8·3	0	0	29	0	2	19	5	0	1	1	1	2
Bangalore Aerodrome	0530	897	1493·1	912·2	..	15·6	14·7	14·1	16·1	91	..	3.3	..	5·1	0	0	24	0	1	19	4	0	0	0	0	7
	0830	,,	1518·4	914·5	..	17·6	15·5	14·1	16·1	80	..	4.8	..	8.4	0	0	29	0	2	24	2	0	0	0	1	2
	1130	,,	1527·2	914·1	..	23·4	17·2	12·8	15·1	53	..	3.8	..	9·2	0	0	29	0	4	19	6	0	0	0	0	2
	1730	,,	1501·4	911·0	..	25·7	17·4	11·5	13·8	42	..	3·7	..	9·6	0	0	28	0	1	21	4	0	0	1	1	3
	2330	,,	1510·3	913·5	..	18·3	15·7	13·9	15·9	76	..	2·1	..	9.1	0	1	26	0	0	24	3	0	0	0	0	4
Mysore	0830	767	1013·3	928·5	−0.9	21·6	18·6	16·9	9·3	74	+3	5·3	+2.6	7·3	0	0	31	0	1	19	0	1	0	10	0	0
	1730	,,	1008.4	925·6	..	27·6	20·3	16·3	18·5	50	..	5.4	..	8·0	0	0	31	0	3	15	0	1	0	12	0	0
Kerala																										
Calicut	0530	5	1009.9	1009·3	..	22·7	20·9	19·9	23·2	85	..	2·7	..	10.2	0	1	29	2	6	22	0	0	0	0	0	1
	0830	,,	1012.0	1011·4	−1.5	24·5	20·9	18·9	21·	71	−7	2·7	+0·5	8·7	0	0	30	2	5	23	0	0	0	0	0	1
	1130	,,	1011.7	1011·1	..	29·2	22·8	19·4	22·5	56	..	2·4	..	11·2	0	1	29	1	2	4	1	0	11	7	4	1
	1730	,,	1008·4	1007·8	..	29.1	23·8	21·1	25·0	62	..	2·2	..	13.7	0	2	29	0	0	0	0	0	1	18	12	0
	2330	,,	1011·2	1011·6	..	25·3	22·4	20·9	24·7	77	..	1·3	..	7·4	0	0	30	13	11	3	0	0	0	0	3	1
Palghat	0830	97	1012·3	1001.2	..	24·3	20·3	17·8	20·5	67	..	3.6	..	12·9	0	2	28	0	0	27	2	0	0	1	0	1
	1730	,,	1007·3	996·5	..	30·9	21·8	16·3	18·8	42	..	3·6	..	9·7	0	0	31	0	0	25	0	0	1	5	0	0
Fort Cochin	0830	3	1011.6	1011.3	−1.6	26.4	22.1	19.7	23.1	67	−3	5.5	+3.6	6.0	0	0	31	3	16	10	1	0	0	0	1	0
	1730	,,	1007.6	1007.3	..	28.3	23·6	21.1	25·3	66	..	5.9	..	10.1	0	3	28	1	0	0	0	0	3	15	12	0
Cochin (Naval Air Station)	0230	,,	1009.9	1009.6	..	24.5	22·5	21·4	25·6	83	..	5·2	..	2·8	0	0	15	2	3	6	1	1	0	0	2	16
	0530	,,	1009.8	1009.5	..	23·4	21·4	20·4	23·8	83	..	4·5	..	3·7	0	0	23	1	14	6	2	0	0	0	0	8
	0830	,,	1011.6	1011.3	..	24·8	21.3	19.3	22.4	72	..	5.3	..	7.2	0	0	31	4	18	8	1	0	0	0	0	0
	1130	,,	1011.4	1011.1	..	29·6	22.7	18.9	21.7	53	..	4.9	..	10.7	0	1	29	3	6	4	3	3	1	5	5	1
	1730	,,	1008·3	1008.0	..	29.1	23.4	20.4	24.1	60	..	5.5	..	14.6	0	2	28	1	0	0	0	0	3	21	5	1
	2330	,,	1011.3	1011.0	..	25.7	23.3	22.1	26.6	81	..	5.4	..	3.8	0	0	20	2	0	10	3	0	0	1	4	11
Alleppey	0830	4	1011·4	1011.0	−1.3	25.7	22.5	20.7	24.7	74	−1	4.5	+0.8	8.1	0	0	31	1	3	12	14	0	0	0	1	0
	1730	,,	1007·6	1007.2	..	29.6	24.7	22·3	27·1	65	..	4.3	..	20.2	0	19	12	0	0	0	0	0	0	11	20	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Punalur	0830	34	1011·3	1007·5	..	25·0	21·3	19·1	22.4	71	..	5·3	..	2·3	0	0	15	0	4	6	3	1	0	1	0	16	0
	1730	,,	1007·3	1003·5	..	30·2	22·7	18·4	21·4	50	..	5·9	..	3·5	0	0	28	0	2	5	9	8	2	1	1	3	0
Trivandrum	0230	64	1009.1	1001.8	..	24·1	21·6	20·1	23·4	79	..	3·4	..	4·8	0	0	29	9	9	7	1	0	1	1	1	2	0
	0530	,,	1009.0	1001·7	..	23·2	20·6	19·0	22·1	78	..	3·2	..	5·2	0	1	24	3	17	2	1	0	0	0	2	6	0
	0830	,,	1011·2	1003·9	—1·6	25·3	21·4	19·1	22·4	69	—8	4·0	+1·4	4.1	0	0	26	9	12	2	1	0	0	0	2	5	0
	1130	,,	1010·7	1003·5	..	30·4	22·7	18·3	21·3	50	..	3·8	..	6.1	0	0	31	6	4	1	5	3	6	2	3	0	1
	1730	,,	1008·1	1000·9	..	28·6	23·3	20·6	24·3	63	..	4·9	..	6·2	0	0	31	0	0	0	1	5	16	5	4	0	0
	2330	,,	1003·7	1011·0	..	25·5	22·6	21·1	25·0	77	..	4·2	..	3·9	0	0	27	8	7	6	1	0	2	2	1	4	0
Trivandrum Aerodrome	0830	8	1011·1	1010·2	..	25·6	21·4	18·9	22·1	68	..	4.2	..	4·8	0	0	26	5	20	1	0	0	0	0	0	5	0
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1443·2	798·6	—0·9	5·7	1·5	—5·6	4·1	48	—19	3.1	—0.1	3.3	0	0	31	0	12	0	14	0	4	0	1	0	0
	1730	,,	1439·1	798·3	..	6·1	3·4	0·2	6·1	67	..	3.7	..	3.1	0	0	31	0	3	1	19	0	5	1	0	0	2
Dharmsala	0830	1211	1563.3	887.5	+1.5	7·2	4·0	—0·3	5·8	59	—3	3·2	—0·4	1·0	0	0	16	3	10	0	0	0	0	0	3	15	0
	1730	,,	1563.3	886.8	..	12·4	8·0	—2·9	7·1	54	...	4·1	.	2·0	0	0	31	1	0	0	0	0	30	0	0	0	0
Simla	0830	2202	1482·5	779.3	—2·4	5·0	0·9	—6·4	3·7	44	+1	1·7	—2·1	2·0	0	0	29	2	14	1	4	4	1	0	3	2	0
	1730	,,	1479·6	779·8	..	5·2	2·0	—2·5	4.4	59	..	2.5	.	2·1	0	0	31	1	3	4	13	1	6	0	3	0	0
Lokpal	0830	..	..	..	..	—9·2	—11·4	—18·1	1·2	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830									Closed during Winter Months.																	
Joshimath	0830	..	..	..	..	—4·0	0·3	—9·1	3·3	44	..	2·1	..	7·5	0	2	23	0	1	9	8	5	0	1	0	6	1
	1730	..	..	..	..	6·5	2·1	—5·0	4·1	47	..	3·3	..	3·0	0	0	22	0	0	0	4	12	5	0	1	9	0
Mussoorie	0830	2042	1490·8	795·1	—2·8	4·6	0·6	—6·6	3·6	51	—5	1·8	—1·8	2·3	0	0	22	6	4	0	4	5	0	0	3	9	0
	1730	,,	1478·9	794·3	..	5.7	3·8	—1·4	6·7	76	..	3·1	..	2·7	0	0	23	1	1	0	8	10	2	0	1	8	0
Almora (Kumaun)	0830	2311	3087·1	770·7	—2·5	4·1	0·8	—7.6	3·2	49	0	1·7	—1.4	10·4	0	2	27	0	7	7	1	0	1	6	7	2	0
	1730	,,	3077·8	769·6	..	4·9	2·1	—2·7	4·9	63	..	2·0	..	9·0	0	1	27	0	2	3	1	0	2	12	8	3	0
Nainital	0830	1958	1493·9	803·7	—1·9	2·4	0·1	—4·4	4·4	65	—1	1·5	—1.7	4·1	0	2	13	5	0	1	1	0	0	8	0	16	0
	1730	,,	1470·9	801·7	..	4·9	2.3	—1·2	5·3	67	..	2·1	..	5·7	0	0	31	4	0	2	2	1	2	19	1	0	0
Kalimpong	0830	1209	1468.3	876.8	—6·2	12.6	10.5	8.6	11·2	77	+2	2·0	—0·4	3·1	0	0	31	0	0	0	2	0	0	0	29	0	0
	1730	,,	1469·5	877·0	..	12·1	9·8	7·6	10·4	75	..	2·2	..	3·1	0	0	31	0	0	0	29	0	0	0	2	0	0
Darjeeling	0830	2128	1478·1	786·0	—3·3	5·0	2·6	—0·6	5·8	69	+5	3·9	+0·5	0·4	0	0	4	2	0	0	0	0	2	0	0	27	0
	1730	,,	1452·1	783·7	..	5.6	4·1	2·8	7·5	80	..	5·1	..	0·3	0	0	3	0	0	0	0	0	0	3	0	28	0
Kohima (R)	0830	1406																									
(R)	1730	,,																									
Shillong	0830	1500	1508.0	851·0	—1.6	10·6	6.9	2·0	7·3	59	—11	1·2	—0·3	1·4	0	0	11	0	3	1	3	1	2	1	0	20	0
	1730	,,	1488.8	849·1	..	10·2	8·7	7·1	10·1	82	..	6·2	..	0·2	0	0	2	0	1	0	0	0	0	0	1	29	0
Cherrapunji	0830	1313	1510·2	870·3	—1.2	12·2	9·6	7·1	10·1	71	+8	2.8	+0.8	3.3	0	0	30	0	5	15	0	1	8	0	0	1	1
	1730	,,	1507·2	870·0	..	11·8	9·4	7·0	10·1	72	..	3.4	..	0.6	0	0	4	0	0	1	0	0	2	0	0	27	1
Abu	0830	1195	1486·1	880·6	—3·4	9·3	5·5	0	6·3	54	+10	0·3	—1·4	2·0	0	0	13	1	2	0	0	0	4	4	1	18	1
	1730	,,	1497.4	880·9	..	16·1	8·5	—1·6	5·6	31	..	0·5	..	2·2	0	0	16	4	2	0	1	0	2	3	1	15	3
Ajmal	0830	..	..	..	..	15·4	11·1	6·7	9·8	59	..	2·0	..	3·0	0	0	31	3	1	12	2	6	2	5	0	0	0
	1730	..	..	..	..	17·4	11·7	6·4	9·6	50	..	1·4	..	3·0	0	0	31	0	0	1	0	1	3	24	2	0	0
Pachmarhi	0830	1075	1519·8	896·7	—1·0	11.0	8·4	4·7	7·4	68	+6	0·6	—1·3	2·1	0	0	20	1	3	0	1	7	4	2	2	11	0
	1730	,,	1508.6	894·1	..	19·7	12·2	5·1	10·4	39	..	1·2	..	3·9	0	0	31	5	5	0	0	2	1	4	14	0	0
Mahabaleshwar	0830	1382	1515·8	863·8	—1·6	15·2	10·1	4·5	8·7	50	—2	0·4	+0·6	9·6	0	0	31	0	1	8	14	5	3	0	0	0	0
	1730	,,	1505·3	862·4	..	20·1	12·9	6·3	9·7	43	..	0·5	..	10·0	0	0	31	10	2	6		0	2	3	5	0	0

(R) Register not received.

*Data given as addenda in December 1962, issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill stations excluding Kashmir—*contd.*																											
Mercara	0830	1152	1510·5	886·9	−0·9	16·3	13·8	12·0	13·7	76	−2	1·8	−1·6	12·3	0	3	28	0	15	16	0	0	0	0	0	0	0
	1730	,,	1495·3	884·3	..	23·3	17·1	12·6	14·0	52	..	3·2	..	9·8	0	1	28	0	9	10	0	0	0	5	5	2	0
Ootacamund	0830	2249	1511·9	779·9	−0·7	13·5	8·9	4 2	8·5	59	+1	2·4	+0·2	0·6	0	0	6	1	2	2	0	1	0	0	0	25	0
	1730	,,	1488·1	778·1	..	15·3	11.8	11·5	11·5	67	..	4·1	..	1·5	0	0	16	0	9	4	1	1	0	0	1	15	0
Coonoor (R)	0830	1747																									0
Kodaikanal	0830	2343	3148·5	771·3	−0·7	12 9	9·0	3·5	8·7	63	+8	4·3	+1·5	10·4	0	3	26	3	5	4	10	1	0	1	5	2	0
	1130	,,	3160·2	771·5	..	16 5	10·9	4·5	9·0	53	..	4.5	..	11·8	0	4	26	4	6	5	10	1	0	1	3	1	0
	1730	,,	3133·3	769·6	..	14·0	10·8	7·0	10·6	70	..	5.6	..	4 7	0	1	17	2	4	2	4	1	0	0	5	13	0
Nepal																											
Katmandu	0830	1324	1503·8	869·2	..	3·8	3·3	2·8	7·4	93	..	4 8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1500·7	868·2	..	13·1	8·7	3·7	8·1	54	..	2·0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1477·4	866·0	..	11 0	7·8	4·3	8.3	64	..	2.3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sikkim																											
Lachen	0830	..	..	..	..	2·0	−1·0	−3·3	4.6	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	14·7	10·6	6·0	9·4	58	..	1·0	..	9·0	0	1	23	1	0	2	2	0	8	10	1	7	0
	1730	..	..	..	..	18·2	12·0	5 0	9·0	44	..	1·2	..	7·0	0	0	28	3	0	2	0	0	0	15	8	3	0
Hazaribagh	0830	615	1016·1	945·4	..	13·7	9·8	5·5	9·3	59	..	0·8	..	4·7	0	0	23	1	0	2	3	0	1	5	11	8	0
	1730	,,	1012·6	942·6	..	16·2	10·8	5·4	9·1	49	..	1·0	..	3·5	0	0	21	3	0	1	1	0	0	4	12	10	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	0 5	..	9·0	0	3	28	0	0	1	2	0	0	28	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	0·9	..	13·1	0	3	28	0	0	2	1	0	0	28	0	0	0
Bokaro	0830	242	1016 9	988·3	..	12·9	9·9	6·5	9·6	65	..	0.6	..	3·0	0	0	19	0	0	1	3	0	9	0	6	12	0
	1730	,,	1015·7	987·9	..	19·9	12·7	5·1	8·9	38	..	0	..	1·1	0	0	11	0	0	0	2	0	2	0	7	20	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	0·8	..	5·4	0	0	29	4	0	4	1	0	2	14	4	2	0
	1730	..	..	..	..	..	..	..	..	..	..	1·2	..	8·8	0	0	31	13	1	0	1	0	0	4	12	0	0
Ramgarh	0830	..	..	..	..	10·9	9·7	8·7	11·2	86	..	0·6	..	1·5	0	0	15	1	2	1	0	1	6	2	2	16	0
	1730	..	..	..	..	19·7	15·9	12·9	14·9	66	..	0·9	..	0·8	0	0	8	1	1	0	0	0	0	4	2	23	0
Panchet Hills	0830	..	.	..	..	16 5	13·3	8 2	11·4	58	..	1·5	..	6·5	0	0	31	0	0	2	3	0	20	2	4	0	0
	1730	..	..	..	..	20·5	14 1	7·7	10·9	46	.	2·7	..	2·0	0	0	20	4	0	0	2	0	0	2	12	11	0
Durgapur	0830	..		..	..	16·4	13·3	10·4	12·8	68	.	0.8	..	5·0	0	0	31	10	4	0	0	1	0	0	16	0	0
	1730	..	..	..	..	21·3	15·1	9 6	12·2	48	..	1.0	..	4·7	0	0	31	6	1	2	1	2	2	0	17	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	14·5	10·3	6·0	9·1	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1016·6	997·0	..	17·3	13·5	10·1	12·6	63	..	0·6	..	1·7	0	0	17	6	4	3	0	0	1	0	2	14	1
	1130	..	1015·3	997·0	..	22·5	15·3	9·1	11.5	43	..	0.6	..	2·9	0	0	28	1	6	1	4	1	2	3	10	3	0
	1730	..	1012·2	994·1	..	23·2	15·6	8·6	11·5	40	..	0·9	..	1·5	0	0	16	4	0	1	2	1	1	0	6	15	0
Bhimkund	0830	..	..	.	..	13·3	11·2	9·3	11·6	77	..	0·9	..	1·8	0	0	13	4	0	0	0	0	0	0	9	18	0
	1730	..	..	..	..	21·5	14·5	8·0	11·0	42	..	1·2	..	0·2	0	0	2	1	0	0	0	0	0	0	1	29	0
Sonepur	0830	..	..	..	..	16·2	13·7	11·5	13·7	74	..	..	..	2·4	0	0	20	3	1	6	1	2	3	4	0	11	0
Khijrawan	0830	..	..	..	..	17·0	12 5	8·0	10·9	56	..	0·5	..	4·4	0	0	28	1	1	5	15	3	1	2	0	3	0
	1730	..	..	..	..	17·2	12·6	8·3	10·9	57	..	0·4	..	5·6	0	0	31		0	2	16	3	8	2	0	0	0
Narbada Catchment																											
Bagra Tawa	0830	..	..	..	..	14·6	10·3	5·4	9·1	55	..	0·3	..	5·2	0	0	22	0	15	0	0	1	6	0	0	9	0
	1730	..	..	..	..	22·3	14·7	7·3	10·6	40	..	0·8	..	2·3	0	0	11	1	5	2	1	0	1	1	0	20	0
Punasa	0830	..	..	..	..	14 7	10·7	5·7	9·4	56	..	..	..	6·2	0	1	20	2	16	1	0	0	1	1	0	10	0
	1730	..	..	..	..	26·0	16·5	7·9	9·9	31	..	..	..	1·9	0	0	13	0	6	2	0	0	0	2	3	18	0
Thikri	0830	..	..	..	..	16·2	11·0	5·9	8·7	49	..	1·9	..	..	..	..	.	..	..	..	..	..	..	0	..	..	..
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	14·3	9·3	2·9	7·7	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·6	12.8	−0·9	6·1	21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim (R)	0830	..																									
(R)	1730	..																									
Tehri (R)	0830	..																									
(R)	1130	..																									
(R)	1730	..																									

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Gandak Catchment																											
Jomosom	0830	..	..	..	..	−1·0	−2·1	−3·5	4·6	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	4·1	1·4	−2·1	5·1	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	10·3	7·9	5·8	9·2	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·3	10·8	8·2	10·9	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	3·8	1·5	−1·8	5.3	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·4	5·0	1·0	6·6	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	10·4	8·5	6·5	9·7	77	..	2·2	..	3·5	0	0	21	9	2	0	1	1	1	0	7	10	0
	1130	..	..	..	..	15·4	11·4	7·8	10.6	61	..	2·3	..	5·9	0	0	29	1	0	0	15	7	5	0	1	2	0
	1730	..	..	..	..	14·1	11·1	8·5	11·0	69	..	2·8	..	1·8	0	0	12	0	1	1	9	1	0	0	0	19	0
Gorkha*	0830																										
	1730																										
Nuwakot	0830	..	..	..	..	11·5	9·3	7.2	10·1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·9	10·1	6·4	9.6	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh*	0830																										
	1730																										
Ghaghara Catchment																											
Mansiari (R)	0830																										
(R)	1730																										
Dadeldhura	0830	..	..	..	..	5·9	2·8	−1·5	5·4	59	..	1·8	..	..	..	..	..	0	1	7	12	1	1	0	0	9	0
	1730	..	..	..	..	6·6	3·9	0·5	6·3	65	..	2·2	..	..	..	..	..	1	2	2	4	2	1	3	10	6	0
Sallayana	0830	..	..	..	..	7·3	5·2	2·5	7·3	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·0	7·6	5·0	8·7	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	17·0	13·6	10·7	12·9	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	†1730	..	..	..	..	18·9	15·1	12·1	14·1	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu‡	0830	1324																									
	1130	"																									
	1730	..																									
Kosi Catchment																											
Chautara	0830	..	..	..	..	7·8	5·6	3·2	7·7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·7	7·2	2·5	7·3	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	4·7	2·5	0·1	6·1	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6·3	4·7	2·9	7·5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	1·0	0·4	−0·3	6·0	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	−0·9	−1·7	−2·6	4·9	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	10·0	6·4	2·0	7·1	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·7	7·3	2·0	7·1	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	9·0	6·1	2·9	7·5	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·1	6·5	4·9	8·7	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	6·9	4·8	2·3	7·3	74	..	3·3	..	..	..	..	..	0	1	1	1	0	1	1	1	25	0
	1130	..	..	..	..	11·2	7·2	3·1	7·6	59	..	3·3	..	..	..	..	..	2	2	0	0	0	3	10	5	9	0
	1730	..	..	..	..	8·5	5·5	2·2	7·1	64	..	3·6	..	..	..	..	..	0	0	0	0	7	9	7	1	7	0
Kosi Catchment																											
Okhaldunga	0830	..	..	..	..	7·4	5·1	2·3	7·3	72	..	2·3	..	4·3	0	0	19	0	1	1	4	3	5	2	2	12	1
	1130	..	..	..	..	11·1	7·1	2·9	7·6	59	..	3·5	..	3·8	0	0	20	0	0	1	1	3	6	8	1	11	0
	1730	.	..	..	..	7·5	5·6	3·5	7·9	76	..	4·6	..	4·4	0	0	18	1	0	1	0	0	2	7	7	13	0
Chainpur	0830	..	..	..	..	10·2	7·8	5·2	8.8	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·8	9·0	6·2	9·5	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	12·3	8·7	4·9	8·7	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·0	9·4	4·6	8·5	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1017·3	999·9	..	12·3	10·6	9·0	11·4	91	..	6·4	..	4·0	0	0	31	1	12	5	7	1	4	0	1	0	0
	1130	"	1015·3	998·3	..	19·1	14·2	9·9	12·3	56	..	6·7	..	4·6	0	0	31	0	0	0	1	2	21	4	3	0	0
	1730	"	1013·0	995·8	..	16·1	13·5	11·3	13·4	73	..	6·4	..	3·8	0	0	31	1	4	8	9	1	6	2	0	0	0
Tista Catchment																											
Gangtok	0830	1812	1510·7	819·7	..	5·6	3·7	1·3	6·8	76	..	2·7	..	0·9	0	0	7	3	4	0	0	0	0	0	0	24	0
	1130	"	1496·8	818·8	..	10·3	7·1	3·8	8·1	67	..	3·9	..	3·0	0	0	28	0	3	0	5	2	13	3	2	3	0
	1730	"	1484·2	817·2	..	7·0	5·3	3·6	7·9	79	..	5.0	..	2·0	0	0	19	0	3	1	6	3	6	0	0	12	0
Gazing	0830	..	..	..	..	9·7	6·6	3·3	7·7	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·3	6·9	4·5	8·4	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Date not available.

†Observations for 29 days.

(R) Register not received.

‡Data included under "Hill Stations".

MONTHLY MEANS OF UPPER WINDS

January, 1962 (*Pausa* 11–*Magha* 11, 1883 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n=represents the number of observations;

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

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

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

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

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1, 16·2, 18·0, 21.0, 24·0, 27·0 and 30·0 km. a.m.s.l. are considered standard as the best approximations to the pressure levels 850, 700, 500, 400, 300, 200, 150 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7	Aurangabad/Chikalthana	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8	Bahraich	27°34′	81°36′	134	1st October, 1961	0530		1730	
9	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11	Begumpet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0830		1730	
21	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
22	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
23	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27	Gorakhpur	26°45′	83°22′	83	5th January, 1943.	0530		1730	
28	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31	Jagdalpur	19°05′	82°02′	562	25th March, 1948.	0530		1730	2330
32	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35	Jodhpur	26°18′	73°01′	229	15th October, 1934.	0530*	1130	1730*	2330
36	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
48	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
49	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
50	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
51	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
52	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
53	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

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

Table IV— Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	AGARTALA												AHMADABAD										
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface	31	0·3	0·1	173	31	1·3	0·7	310	31	0·6	0·2	303	31	2·3	1·9	030	31	4·3	3·1	066	31	2·7	2·0
0·15 a.g.	30	3·5	1·4	032	31	3·5	2·0	305	30	4·5	2·9	318	31	8·3	6·6	046	31	3·7	2·7	089	31	5·3	3·5
0·3 a.m.s.l.	30	3·6	1.5	355	31	3·6	2·0	303	30	4·1	2·7	317	31	7·3	5·1	048	31	3·8	2·7	064	31	5.0	3.3
0·6 ,,	30	3·3	1·3	345	31	3·6	1·7	315	30	3·7	2·5	316	31	5·3	2·1	033	31	4·6	2·5	059	31	3·7	1·9
0·9 ,,	30	3·5	0·9	340	31	3·3	0·9	305	30	3·1	1·3	302	31	5·0	1·3	013	31	4·8	1·8	042	31	3·8	1.6
1·5 ,,	29	5·0	2·0	260	30	3·8	1·3	274	30	4·0	1·3	252	31	5·6	2·7	288	31	5·5	2·1	297	31	4·2	1·5
2·1 ,,	29	7·1	4.6	282	30	6·3	4·2	270	30	6·7	4·6	275	31	7·1	5·2	267	31	6·5	4·4	266	31	6.9	5·2
3·0 ,,	28	13·0	10·9	284	28	12·3	11·1	277	28	11·8	11·1	274	31	11·4	10·1	278	31	10·1	8·9	271	30	11·5	9·8
3.6 ,,	25	15·8	14·6	275	25	16·1	15·2	280	9	15·5	15.1	275	31	13·8	12·5	281	31	13·4	11·9	275	30	14.3	12·5
4.5 ,,	14	19·2	18·0	284	24	22·8	22·1	276	4	18·7	18·7	270	31	19·1	17·8	279	31	17·9	16·4	275	30	18·0	16.7
5·4 ,,	7	19·3	18·7	289	16	25·9	25·0	276					31	22·9	21·6	277	30	22·2	20·8	275	30	22·5	21·2
6·0 ,,	5	26·2	24·6	295	13	28·0	27·1	280					30	25·0	23·5	280	28	23·5	22·2	275	29	24·6	23·3
7·2 ,,	1	21·5	21·5	300	5	32.5	30.6	281					29	30·8	29·6	279	21	24·7	23·9	274	26	29·7	28·7
9·0 ,,	1	34·5	34·5	250									24	36·1	35·4	273	3	37·3	36·6	274	17	34·8	34·1

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA		
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface	31	2·9	2·1	351	31	0·6	0·1	270	31	1·9	0·6	294	31	1·8	1·1	320	31	0·7	0·2	290	31	1·1	0·2
0.15 a.g.	31	7·0	5·4	002	31	5·9	2·3	315	31	3·5	1·2	293	31	4·4	2·9	308	31	5·2	2·3	339	27	7·9	3·1
0.3 a.m.s.l.	31	6·6	5·0	360	31	5·9	2·3	316	31	3·5	1·2	291	31	4·4	2·9	308	31	5·8	2·3	340	27	3·1	1·5
0·6 ,,	31	5·1	3·6	004	31	6·4	3·3	320	30	4·8	2·5	286	31	4·8	3·1	305	30	6·1	1·7	354	27	8·4	3·9
0·9 ,,	31	4·5	1·9	007	31	7·0	4·2	302	30	6·0	3·9	293	31	5·2	3·3	290	30	6·3	4·2	282	27	8·4	3.6
1·5 ,,	31	4·6	0·4	239	31	8·9	6·4	280	29	8·9	7·1	292	31	7·8	6·5	280	29	8·1	6·7	286	26	8·0	3·3
2·1 ,,	31	6·5	3·6	261	31	10·9	8·9	280	29	10·5	8·7	287	31	9·9	8·3	283	26	9·4	8·1	291	25	6·5	4.5
3·0 ,,	28	9·2	7·6	278	31	12·9	11·9	275	28	13·7	12·7	286	33	13·5	11·8	276	17	10·3	9·9	287	25	7·7	4·8
3.6 ,,	9	10·8	9·7	295	31	15·4	13.7	275	26	16·4	15·3	284	31	16·8	14·2	275	1	14·0	14·0	275	21	8·5	4·5
4·5 ,,					31	20.4	18·9	276	23	20·2	19·4	283	31	20·4	18·7	273					16	11·8	10·5
5·4 ,,					31	26.0	24·7	275	19	26·6	25·8	285	31	26·1	24·6	270					11	17·7	16·9
6·0 ,,					30	29·4	28·3	271	12	27·9	27·3	286	31	29·3	27·8	270					7	20·5	18·9
7·2 ,,					29	36.4	35.1	271	3	31·5	31·3	287	30	37·3	33·5	270					1	15·5	15·5
9·0 ,,					15	48·8	45·9	268					15	50·4	48·9	273					1	33·5	33·5

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	AMBALA												ANANTAPUR											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
urface . .	31	2·1	0·6	331	31	1.9	0.9	318	31	1.2	0.3	322	31	1.4	1.3	091	31	4.0	3.7	080	31	4.1	3.8	091
.15 a.g. .	29	5.2	1.6	321	31	5.1	1.6	311	30	8.1	4.2	336	31	4.6	4.1	098	31	5.6	4.8	074	31	7.5	7.2	098
.3 a.m.s.l. .	29	3.0	0.8	321	31	3.3	1.4	312	30	2.9	1.3	341												
.6 ,, .	29	6.4	1.7	324	31	5.8	1.7	329	30	7.9	4.0	336	31	5.4	4.8	109	31	5.3	4.7	076	31	7.7	7.3	099
.9 ,, .	29	7.5	1.8	337	31	6.3	2.4	317	30	7.1	2.7	336	31	6.5	5.5	104	31	4.8	4.2	081	31	7.2	6.7	094
.5 ,, .	29	7.9	1.3	357	31	7.2	2.1	323	30	6.5	1.7	326	31	5.5	4.2	082	31	4.8	3.7	081	31	4.8	3.6	079
.1 ,, .	27	5.9	5.4	341	28	7.2	1.8	321	28	5.6	2.2	293	29	5.1	2.7	065	31	4.2	2.4	066	30	4.8	1.0	040
.0 ,, .	27	7.1	2.8	274	26	6.5	3.2	302	26	5.7	2.8	270	29	3.7	2.2	047	29	4.8	1.5	020	29	4.8	1.1	355
.6 ,, .	26	9.1	5.6	279	26	8.4	6.1	287	6	4.8	2.9	254	28	4·4	2.0	027	29	5.0	1.2	342	29	4.8	1.6	357
.5 ,, .	24	11.7	8.7	284	24	11.9	8.9	283	2	5·0	3·8	229	28	4·7	1.8	008	28	6·1	2·6	318	28	4.7	2.2	012
.4 ,, .	22	17.0	13.9	281	21	19.2	16·6	277					28	5·4	1.7	001	28	7.2	2·9	330	18	5·2	2·1	006
.0 ,, .	19	22.7	20.6	281	18	21.6	19.4	275					28	6·3	1·6	348	27	7·1	3·0	342	10	6.3	2.4	029
.2 ,, .	10	37.7	34.7	277	9	28.6	27.4	271					25	5·9	1·3	340	24	7.4	1.1	027	1	9.0	9.0	225
.0 ,, .	5	43.7	42.7	285	1	53.5	53.5	280					14	5.0	2.3	297	20	6.8	2.2	274				

ation	ASANSOL												AURANGABAD/CHIKALTHAN											
me in I.S.T.	0530				1730				2330				0530				1730				2330			
t. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
rface . .	31	0.7	0.5	303	31	1.3	1.0	319	31	0.4	0.1	026	31	0.5	0.2	234	31	1.0	0.7	272	31	0.3	0.1	338
15 a. g. .	30	4.8	3.4	317	31	4.0	3.1	327	31	6.0	3.5	357	29	5.3	3·3	088	30	2.7	1.0	259	29	5.8	3.6	048
3 a.m.s.l. .	30	4.9	3.5	330	31	4·0	3.1	325	31	6.0	3.6	357												
6 ,, .	30	6.3	4.7	326	31	4.4	3.5	313	31	6.5	3.4	338												
9 ,, .	30	7.2	5.5	305	31	4.7	3.8	307	30	6.1	4.0	303	29	5.8	3.6	110	30	2.3	0.9	246	29	5.4	2.6	055
5 ,, .	30	8.7	7.1	296	31	6.4	5.4	300	30	7.7	6.2	285	29	4.3	2.6	202	30	2.8	1.2	256	29	4.2	2.0	181
1 ,, .	29	10·2	8·4	297	29	10.3	9.6	304	30	10.7	9.3	294	29	5.7	4.4	235	30	4.4	2.9	274	29	5.4	4.0	220
) ,, .	22	13.5	12.8	288	29	15.7	8.0	307	27	15.2	14.6	292	27	7.6	5.5	292	28	7.8	6.1	283	28	6.8	4.3	285
5 ,, .	12	16.9	16.0	282	25	18.7	9.5	283	10	14.0	13.1	287	9	10.1	9.0	299	26	8.9	7.3	294	16	10.1	8.0	300
,, .	7	21.7	20.8	272	17	22.3	21.3	281	4	19.7	18.9	288					26	10.5	9.3	287	3	12.3	11.8	273
,, .	2	25.0	23.6	260	10	26·3	24·8	282									26	12.3	11.0	286				
,, .					6	28·9	28·3	283									25	15.1	13.1	288				
,, .					4	36·7	35·5	285									4	17.3	16.4	289				
,, .																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	BAHRAICH								BANGALORE															
Time in I. S. T.	0530				1730				0530@				1130				1730@				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·1	218	31	1·6	0·6	234	29	2·6	2·5	085	31	3·0	2·0	093	31	2·7	2·1	082	31	3·4	3·2	09[illegible]
0·15 a.g.	28	5·5	2·9	312	30	3·9	1·9	266	24	7·1	6·6	088	30	4·2	3·7	091	31	4·7	3·5	083	30	8·5	8·1	10[illegible]
0·3 a.m.s.l.	28	5·7	3·1	319	30	4·1	2·0	263																
0·6 ,,	28	6·0	2·3	313	30	4·8	2·3	262																
0·9 ,,	28	6·0	1·8	313	30	5·3	1.9	265																
1·5 ,,	27	7·5	2·9	298	30	6·6	2·4	290	23	5·9	4·7	078	30	4·2	3·0	078	31	4·9	3·9	091	30	6·3	4·6	089
2·1 ,,	25	8·3	5·3	296	29	8·2	5·4	304	21	4·3	3·0	080	29	5·2	3·0	081	31	4·3	3·3	077	30	3·9	1·0	066
3·0 ,,	24	9·7	9·2	295	29	11·5	10·0	303	21	4·7	2·7	096	28	5·2	1·7	073	31	4·3	1·6	048	29	5·0	2·4	061
3·6 ,,	19	10·9	10·2	288	28	12·9	11·9	298	21	4·8	2·9	088	27	6·0	2·6	069	28	5·3	2·0	056	26	5·0	4·1	070
4·5 ,,	18	16·7	15·8	283	28	17·2	16·1	291	21	5·0	3·0	054	24	6·0	3·7	072	28	5·3	2·8	047	20	4·9	2·7	067
5·4 ,,	13	19·7	18·9	280	27	23·3	22·0	289	21	5·6	2·6	055	24	6·5	4·4	064	28	5·9	3·0	048	12	6·2	3·6	077
6·0 ,,	4	18·6	17·7	280	27	28·4	27·2	284	21	6·5	2·7	081	24	7·1	4·2	060	27	6·7	4·3	054	5	5·1	2·7	068
7·2 ,,	3	22·7	22·3	292	25	36·8	35·0	282	21	7·8	3·7	096	23	9·0	5·2	089	25	9·3	5·4	065	1	3·0	3·0	270
9·0 ,,					15	55·1	52·0	277	19	7·5	2·9	095	21	6·7	2.9	104	24	6·4	2·8	072				

Station	BAREILLY								BEGAMPET												BHAGALPUR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·1	286	31	1·4	0·8	265	31	1·1	1·0	108	31	1·5	1·2	091	31	1·5	1·2	110	31	1·0	0·7	232
0·15 a.g.	29	7·1	2·8	315	30	4·8	2·3	284	27	5·3	4·4	110	31	3·2	2·5	094	31	6·1	5·3	255	30	5·1	3·3	289
0·3 a.m.s.l.	29	6·7	2·6	311	30	4·5	2·1	286													30	5·5	3·8	309
0·6 ,,	28	7·6	3·8	308	30	2·9	2·6	283	27	3·8	3.1	107	31	3·3	2 7	095	31	4·6	4·0	102	30	5·2	3·1	313
0·9 ,,	28	7·6	3·6	306	30	6·0	3·0	298	27	5.9	4.6	105	31	3·3	2·2	086	31	6·1	5·2	102	30	4·7	2·0	290
1·5 ,,	27	7·6	4·2	289	29	5·5	3·8	307	26	5·3	2·7	027	31	3·5	1·8	066	31	5·0	2·3	075	30	6·7	4·3	285
2·1 ,,	25	7·6	4·8	290	29	7·7	5·5	303	25	5.8	3·1	355	31	4·3	1·2	352	31	4·5	1·5	352	27	8·7	6·1	300
3·0 ,,	23	9·5	7·6	287	28	9·2	7·2	286	25	6·1	3·0	339	31	5·6	3·3	293	30	5·5	4·0	320	25	11·7	10·5	290
3·6 ,,	19	11·6	9·7	284	26	10·4	9·1	289	25	6·1	3·6	318	30	7·2	4·5	299	22	6·3	3·8	304	22	15·0	13·7	285
4·5 ,,	12	14·8	14·0	272	26	16·4	14·0	283	25	7·1	5·4	304	28	7·4	5·6	296	13	7·5	6·0	287	15	17·8	16·0	282
5·4 ,,	8	22·8	22·1	272	25	22·9	21·5	284	23	7·5	5·8	290	28	8·3	6·7	288	7	9·5	8·4	292	6	21·7	21·1	290
6·0 ,,	5	25·3	24·4	262	20	24·3	22·2	280	23	8·9	6·7	291	28	10·2	8·1	286	2	11·0	10·3	201	4	25·5	24·9	295
7·2 ,,					7	28·9	28·3	268	23	11·1	8·0	288	26	11·9	9·7	286					1	24·0	24·0	280
9·0 ,,					2	29·7	29·5	273	20	10·5	9.7	269	18	12·0	11·0	271								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	BHAGALPUR				BHOPAL/BAIRAGARH												BHUBANESHWAR							
Time in I. S. T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.8	1.4	289	31	1.2	0.4	074	31	1.7	0.8	310	31	1.8	0.9	035	31	0.8	0.5	348	31	1.6	0.4	056
0.15 a.g.	31	4·1	3.1	287	31	5.5	2.5	091	31	3.8	1.5	305	31	6.2	2.0	068	31	3.2	0.8	336	31	2.9	1.0	017
0.3 a.m.s.l.	31	4.2	3.1	290													31	3.1	0.2	283	31	2.9	1.1	054
0.6 ,,	31	4.2	3.1	292	31	4.9	2.5	087	31	3.2	1.2	314	31	6.1	2.6	049	31	3.4	0.6	043	31	2.9	1.6	354
0.9 ,,	30	4.6	3.4	289	31	5.3	0.7	209	31	3.6	1.4	284	31	4.6	0.9	018	30	4.0	2.0	017	31	2.8	1.7	339
1.5 ,,	30	6.7	4.8	290	31	6.3	4.7	261	31	4.1	2.5	270	31	4.6	3.3	245	30	6.3	4.8	348	30	5.5	4.7	323
2.1 ,,	29	9.0	7.4	289	31	9.1	7.1	260	31	7.4	6.0	267	30	8.2	6.3	260	30	6.7	5.2	315	30	8·6	7.3	314
3.0 ,,	28	14.1	13.7	289	28	12.0	10.4	273	26	12.0	10.6	282	26	11.7	10.7	275	28	8.9	7.6	293	30	11.3	10.5	294
3.6 ,,	28	17.9	17.3	288	25	13.2	12.6	288	26	14.5	12.8	285	9	13.4	11.5	278	26	10.2	8 9	289	30	12.6	11.4	287
4.5 ,,	28	23.6	22.8	284	23	18.0	17.5	287	25	18.6	17.5	285					21	12.5	11.8	278	28	15.3	13.4	283
5.4 ,,	23	28.9	27.9	279	16	20.0	19.0	283	20	20·4	19·8	278					9	11·7	9·9	282	28	16.5	15·8	280
6.0 ,,	19	32.4	31.1	277	13	22.7	22.1	275	13	21.3	20.7	282					4	13·3	12.8	289	25	17·5	16·2	280
7.2 ,,	5	34·4	34·1	283	7	29.3	28.4	289	6	26.7	26.5	289									12	19·6	17.9	282
9.0 ,,					1	28.0	28.0	265	2	32.7	32.3	287												

Station	BHUBANESHWAR				BHUJ/RUDRAMATA												BIKANER							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.3	0.4	180	31	1.2	0.7	243	31	3.2	2.4	018	31	1.2	0.7	274	31	0.1	0.1	270	31	0.4	0.2	326
0.15 a.g.	31	4.8	3.2	155	31	5.7	4.1	001	31	4.3	3.0	011	31	5.3	3.6	347	30	5.3	2.2	108	31	3.0	1.9	320
0.3 a.m.s.l.	31	4.7	2.6	163	31	6.3	4.7	017	31	4.4	3.0	012	31	5.7	3.9	356	30	4.4	1.8	065	31	2.4	1.5	321
0.6 ,,	31	4.3	3.5	151	31	6.6	2.2	060	31	4.4	2.8	006	31	6.1	4.4	012	30	4.2	1.2	016	31	3.0	1.9	310
0.9 ,,	31	4.6	2.0	335	31	5.8	3.4	022	31	4.7	3.0	003	31	5.9	4.3	017	30	4.3	1.9	340	31	3.4	1.9	307
1.5 ,,	31	6.7	4.9	331	31	6.0	2.0	337	31	5.1	2.9	327	31	5.8	2.3	347	29	5.5	3.2	323	31	4.6	2.3	287
2.1 ,,	31	7.6	5.9	323	31	6.6	4.5	298	31	6.7	4.7	299	30	7.0	3.7	293	29	6.7	4.0	305	31	6.6	4.1	268
3.0 ,,	29	9.7	7.4	300	30	9.3	7.9	285	29	11.5	9.6	285	29	9.0	7.8	286	25	7.9	5.9	291	29	9.4	7.1	268
3.6 ,,	6	11.7	11.0	277	3	9.2	7.8	280	29	13.7	11.9	286	4	10.7	9.7	288	22	10.6	8.9	281	29	15.8	10.1	274
4.5 ,,									27	16.9	15.6	281					15	15.0	13.8	280	28	18.2	16.6	277
5.4 ,,									27	19.2	18.0	281					2	8.7	8.2	274	19	21.4	20.8	274
6.0 ,,									26	21.7	20.6	277					1	9.5	9.5	280	10	23.7	22.4	272
7·2 ,,									2	25.7	25.7	265									2	30.7	29.6	272
9·0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	BIKANER				BOMBAY/SANTA CRUZ AERODROME																CALCUTTA/DUM DUM			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·7	0·5	335	31	1·1	0.8	060	31	1·7	1·1	126	31	4·3	3·9	315	31	2·0	1·7	349	30	C	A	L M
0·15 a. g. .	31	6·3	3·9	025	31	4·5	3·3	030	31	3·1	2.2	063	31	5·6	5·2	330	31	6·1	5·0	352	30	4·7	2·8	002
0·3 a.m.s.l. .	31	5·5	3·4	025	31	4·5	3·3	034	31	3·7	2.5	075	31	4·6	4·0	335	31	5·8	4·5	353	30	4·6	2·7	353
0·6 ,, .	30	3·9	3·0	018	31	4·0	2·2	039	31	3·7	1·7	099	31	3·1	1·6	316	31	4·2	2·9	344	30	4·7	2·7	350
0·9 ,, .	29	4·3	0·9	355	31	4·1	0·8	041	31	3·5	0·6	160	31	3·0	0·4	337	31	3·5	1.1	354	30	5·4	3·4	338
1·5 ,, .	29	5·3	2·6	260	31	4·9	3·3	190	31	4·3	2·8	216	31	4·0	1·1	205	31	4·5	2·2	140	30	7·8	6·2	322
2·1 ,, .	29	6·6	4·9	278	31	5·0	3·3	228	30	5·5	2.7	248	31	4·6	1·5	236	30	4.6	0.8	153	30	8·7	7·3	322
3·0 ,, .	28	8·6	7·7	282	31	7·0	4·7	285	29	6·9	4·6	291	31	6·3	4·0	286	30	6·0	3·7	288	30	12·8	11.7	289
3·6 ,, .	10	10·8	10.0	288	31	8·6	6·7	290	29	7·9	5·8	290	31	8·2	6·3	287	25	7·9	5·9	053	30	14·7	13·3	284
4·5 ,, .	1	7·5	7·5	305	30	10·3	8·7	290	28	8·4	6·9	286	31	10·1	9·1	289	15	7·3	5·4	297	30	19·7	18·8	282
5·4 ,, .	1	12·5	12·5	285	30	12·3	10·7	290	27	9·9	8·8	280	30	11·5	9·9	287	8	9·2	8·1	281	29	23·2	22·4	280
6·0 ,, .	1	14·5	14·5	280	30	13·8	11·9	290	27	13·0	11·6	280	30	14·3	12·8	290	7	10·0	9·0	280	28	26·0	24·6	278
7·2 ,, .					30	17·5	15·3	278	20	15·7	13·9	269	30	17·6	16·2	280	1	12·0	12·0	275	26	28·6	27·5	280
9·0 ,, .					27	18·4	17·1	273	13	15.0	13·5	269	29	18·5	17·4	270					18	24·5	23·1	278

Station	CALCUTTA/DUM DUM												COCHIN/WILLINGDON†											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·7	1·1	321	31	0·2	0·2	352	31	0·2	0·1	180	31	1·1	1·0	061	31	3·9	3.5	277	31	1·1	0·2	034
0·15 a.g. .	31	3·9	2·7	332	31	3·9	3·4	319	31	3·9	1·6	353	31	3·8	2·6	061	31	4·5	4·1	280	31	3·1	0·3	309
0.3 a.m.s.l. .	31	3·9	3·0	335	31	4·1	3·9	322	31	3·7	2·2	344	31	3·5	2·1	054	31	4·6	4·1	286	31	3·2	0·7	310
0·6 ,, .	31	4.0	3.0	331	31	4.3	3.8	330	31	4·3	3·1	335	31	3·2	0.8	031	31	3.0	2·2	320	31	3·1	0·4	007
0·9 ,, .	30	5·3	4·0	322	31	4·7	4·1	326	31	5.0	4.1	329	31	2.8	0·8	060	31	2.8	1·9	019	30	3·1	0·9	109
1·5 ,, .	30	7·6	6·6	315	31	6·9	6·1	328	31	7.5	6.6	316	31	3.2	1·7	043	31	4.0	3·4	078	29	3·5	2·4	097
2·1 ,, .	29	9·2	8·0	307	31	4·8	7·5	306	30	8·8	8.0	303	29	3·7	2.5	081	30	4·1	3·3	078	25	4·1	3·2	060
3·0 ,, .	26	12·8	11·6	293	31	13·5	12.4	294	22	12·3	11·2	292	28	4·7	3·0	092	27	4.4	2.7	073	21	5·1	3·9	077
3·6 ,, .	26	16.7	16·0	286	31	16·3	14·8	287	3	12·0	10·3	288	21	5·2	3·7	089	24	5·8	3·1	061	16	5·6	4·1	087
4·5 ,, .	26	20.4	19.9	281	30	20.7	19.3	284					8	6·6	3·8	067	17	7·3	4·7	068	7	8·4	8.1	082
5·4 ,, .	20	24.5	23.2	278	30	25.3	24.0	281					2	3.5	3.2	022	9	9·0	6·9	075	2	8·5	8·1	066
6·0 ,, .	15	26.6	24·6	275	30	27.3	25.5	284					2	3.3	2.9	029	6	8·4	7·7	077	2	11·3	10·7	069
7·2 ,, .	5	29.6	28.6	282	29	29·1	27·7	278									4	11·9	11·5	084				
9·0 ,, .					15	32.7	31.1	277									3	9.2	8.9	101				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	DARJEELING								DEHRA DUN								DIBRUGARH/MOHANBARI							
Time in I. S. T.	0830				1730				0530				1730				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	C	A	L	M	31	0·5	0·5	225	31	0·7	0·7	042	31	1·7	0·6	215	31	0·5	0·5	042	31	1·4	0·9	045
0·15 a.g.	18	1 7	0.9	120	18	2·0	1.4	230	30	1·9	1·5	068	30	3·0	1·4	212	27	4.5	4·3	055	30	1·7	1·2	041
0·3 a.m.s.																	27	4·5	4.2	052	30	1·7	1·3	046
0.6 ,,																	27	3·2	2·9	043	30	2·0	1·6	054
0.9 ,,									30	1.9	1.5	094	30	3·0	1·4	211	27	3·2	2·9	052	29	2.3	1.8	058
1·5 ,,									30	2.5	0.9	118	30	2·5	0·7	139	27	2·4	1·5	081	25	2·5	0·9	107
2·1 ,,									30	5.0	1.8	180	29	4·4	0·4	313	23	2·7	1·0	104	28	3·2	1·0	188
3.0 ,,	18	6·1	2·9	274	18	4.3	2.7	289	28	6·7	2·7	275	29	5.7	1·1	281	20	3·7	0·6	173	27	4·9	1.6	217
3·6 ,,	14	10·5	7·5	282	15	8·5	6.7	278	27	6.6	5·0	292	28	6.6	2·4	292	19	5 8	2·3	277	24	7·6	4·9	269
4·5 ,,	12	21.4	20.9	278	12	20·9	19.9	294	26	11·0	9·1	283	25	9·0	6·8	290	12	14.3	12·3	277	21	16 9	15.1	268
5.4 ,,	5	20·6	20.0	290	9	25.9	25.5	276	18	16.6	15.2	278	24	16·7	15.0	279	8	17.4	16.9	270	20	24·1	21.8	271
6·0 ,,	4	23.0	22·5	294	7	30·1	29.5	282	13	20.9	19.9	278	22	21·1	19·7	276	2	21·0	21·0	278	18	28·1	24.7	271
7·2 ,,	1	38·0	38·0	295	5	37.3	36.4	285	5	32.2	31.0	273	12	31.6	30.7	270					1	33.2	25·1	281
9·0 ,,					1	85.5	85.5	295													2	46·5	9·2	159

Station	DIBRUGARH/MOHANBARI								GADAG												GAUHATI			
Time in I. S. T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·2	0·2	044	31	0·3	0.2	059	31	3·4	2·8	115	31	2·4	1·8	104	31	4·2	3.1	089	31	0.2	0·1	090
0·15 a.g.	30	1·7	1·1	027	29	2·8	2·2	030	31	7·6	6·2	115	31	3·9	2·5	092	31	9·0	6·8	080	31	1·7	0·8	082
0·3 a.m.s l.	30	1·5	1·0	028	29	2·6	1·9	040													31	1.8	0.7	085
0·6 ,,	30	1·7	0.9	059	29	1·8	1.3	059													31	3.3	1.7	088
0·9 ,,	30	1·9	0·9	068	29	2.1	1·5	072	31	8.1	6.7	108	31	4 5	2·9	096	31	8·5	6.6	084	31	3.5	1·8	089
1·5 ,,	30	2·5	1·1	196	28	2.4	1.2	109	31	6.2	3.8	099	31	4·9	3·1	091	31	5·8	4·3	099	31	4.0	1.7	096
2·1 ,,	30	4.0	2·7	196	28	3.1	1.5	207	31	5.1	0.8	118	31	4·4	1·6	064	31	4.6	1.5	085	31	4.9	0.6	159
3.0 ,,	27	5·0	2·7	204	20	4·3	1·8	219	31	5·0	1·1	347	31	5·0	1·5	006	31	5·0	1·1	345	31	8.2	6·0	269
3·6 ,,	24	7·0	2·9	250	18	5·7	2·9	235	31	6·0	2·4	345	31	5.3	1·7	346	30	5·5	1·6	310	30	14.0	12.1	271
4.5 ,,	22	14·3	11·6	264					30	5·1	2·0	330	28	5·9	2·8	315	28	4.6	2·0	309	30	21·4	20.0	237
5·4 ,,	21	21·4	18·5	270					29	6.5	3.6	331	28	7·1	3·6	319	23	6 0	2·1	318	30	27.9	27·3	273
6·0 ,,	19	21·7	19·3	272					29	7.3	3.2	311	28	6·4	4·0	310	16	7.7	2·9	307	29	32·8	30·3	271
7·2 ,,	9	22.7	19·4	272					29	7.9	2.7	284	26	8·9	3.5	305	7	8 6	5·0	320	29	41.4	37.9	276
9·0 ,,	3	44·8	43·2	283					26	6.8	4.9	267	22	6.3	3.8	268	1	3.0	3.0	330	9	52.3	50.0	280

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	GAUHATI												GAYA											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.3	1.0	015	29	0.3	0.1	360	31	0.4	0.1	173	31	1.8	0.6	187	31	3.7	2.9	324	31	1.8	0.3	172
0·15 a. g. .	29	2.2	1.8	035	29	3.2	2.3	049	30	1.9	0·7	145	30	5.0	2.4	255	30	5.1	4.4	312	30	5.2	3·0	326
0·3 a.m.s.l. .	29	2·4	1·6	064	29	3·3	2.2	046	30	2.2	0.8	095	30	4.9	2.1	277	30	5.1	4.2	313	30	5.3	3.1	326
0·6 ,, .	29	3.1	2.2	074	29	2.9	1.6	051	29	2.9	1.0	068	30	5.1	3.1	296	30	5.2	4.4	303	30	6·0	3.9	307
0·9 ,, .	29	3.7	2.3	091	29	2.7	0.5	075	29	2.7	0.4	038	30	6.3	4.7	289	30	5.7	5.0	292	30	6·6	5.0	286
1·5 ,, .	29	4.4	1.6	131	29	3.1	1.5	230	28	3.5	0.5	289	30	9.3	7.9	292	30	7.7	7.2	283	30	8.6	7.1	271
2·1 ,, .	29	4.7	1.1	178	29	4.6	3.4	233	26	4.6	1.4	269	27	10.2	9.4	296	30	10.6	9.8	289	23	9.8	7.4	289
3·0 ,, .	29	8.0	5.4	269	29	6.3	4.8	254	19	7.0	3.5	255	16	13.8	13.2	303	30	13.7	13.1	291	11	8·9	7.8	289
3·6 ,, .	27	13.1	10.8	271	29	11.3	9.6	272	10	14.0	11.1	269	6	12.9	11.7	299	28	16.8	16.2	288	1	10.5	10.5	275
4·5 ,, .	24	22.8	22.2	273	29	20.7	18.3	277	1	5.0	5.0	350	3	14.7	13.8	272	16	19.2	18.0	284				
5·4 ,, .	23	30.5	29.9	273	29	26.4	25.7	277					1	19·0	19.0	290	6	23.6	21.5	273				
6·0 ,, .	22	34.7	33.6	273	29	30·0	29.6	277									4	23·6	22.3	275				
7·2 ,, .	23	39.8	38.6	272	29	39·0	38.3	278									1	31.0	31.0	284				
9·0 ,, .	3	52.0	51.8	282	16	45·4	43·7	278																

Station	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.0	2·9	327	31	4.7	3.6	107	31	1.7	0.8	272	31	0.8	0.3	291	31	1.3	0.9	253	31	0·8	0.2	145
0·15 a.g. . .	31	4.3	3.5	337	31	5.1	4.1	110	31	3.0	1.5	149	30	5.2	3.1	305	30	3.1	2.1	268	29	3.6	0.3	065
0·3 a.m.s.l. .	31	2.7	0.8	024	31	4.9	3.8	101	31	2·8	1.5	143	30	5.4	2.1	333	30	3.4	2.1	271	29	2.9	0.3	302
0·6 ,, .	31	3.3	0.9	050	31	3.8	2.5	045	31	3.2	1.7	105	30	5.5	2.4	297	30	3.9	2.4	276	29	4.3	0.7	325
0·9 ,, .	31	4.3	2.3	024	31	4.6	3.4	003	31	3.9	2.3	053	29	5.4	2.6	289	30	4.6	2.9	280	29	4.6	1·9	293
1·5 ,,	29	5.8	5.0	350	31	7.1	6.1	327	30	5.8	4.1	343	29	6.6	4.0	292	30	6.8	4.3	288	29	7.1	0.5	291
2·1 ,, .	30	6.3	5·1	317	31	7.8	6.8	309	29	6.7	5.1	320	28	9.9	7.4	291	30	8.6	6.6	295	28	8.3	0.7	286
3·0 ,, .	29	7.2	6.2	295	31	8.8	7.5	297	24	7.5	6·1	292	24	13.7	11.8	289	29	12.5	11.4	292	28	11.5	9.9	276
3·6 ,,	28	8.7	7·6	287	31	9.7	8.5	284	5	8.8	5.6	303	19	14.6	14.2	287	28	15.2	14.8	291	28	15.1	13.6	277
4·5 ,,	22	10.1	9.2	280	30	11.7	11.0	284					10	15.6	15.2	277	27	20.3	19.5	286	25	18.4	17.8	280
5·4 ,, .	16	11.3	10·7	267	30	13.2	12.0	282					5	24.0	23.2	278	22	26.6	26.1	283	23	25.0	24.3	278
6·0 ,, .	12	11·8	10.8	277	30	15.2	13.5	281					2	28.3	28.1	278	19	30.8	30.1	279	17	27·1	26·7	279
7·2 ,,					19	18.7	17.1	277									8	41.0	40.2	283	14	33.4	32·5	279
9.0 ,, .					6	19.9	18.3	277													2	43.5	40.2	268

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	GWALIOR												IMPHAL/TULIHAL											
Time in I.S.T.	1130				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.6	0.2	307	31	1.8	0.9	319	31	0.2	0.1	323	31	0.1	0.1	045	31	0.5	0.1	197	31	1.2	1.0	277
0.15 a.g. .	31	3.3	0.6	298	30	3.9	2.2	337	31	5.0	2.4	056	30	1.6	0.9	090	31	1.2	0.5	186	31	3.0	2.2	265
0.3 a.m.s.l. .	31	3.2	0.5	050	30	3.9	2.1	339	31	4.1	2.0	061												
0.6 ,, .	31	3.5	1.0	237	30	4.1	2.1	331	30	5.1	1.6	003												
0.9 ,, .	30	4.6	2.6	275	30	4.2	2.2	307	30	5.0	2.7	293	30	1.5	1.1	068	31	1.3	0.7	179	31	3.0	2.0	265
1.5 ,, .	30	6.5	4.9	291	30	5.7	4.3	289	30	6.7	5.6	277	30	2.8	0.7	006	31	2.9	1.3	186	31	3.0	2.2	242
2.1 ,, .	30	7.7	2.9	294	30	8.0	6.4	274	29	8.0	6.7	275	28	5.5	2.5	235	29	5.6	3.5	228	31	4.9	3.9	248
3.0 ,, .	29	11.0	9.6	275	29	12.8	11.1	272	27	11.6	10.0	277	19	8.8	7.1	262	23	10.8	8.0	266	29	11.3	9.6	265
4.6 ,, .	29	14.9	13.2	272	29	15.6	13.7	275	13	12.8	12.0	286	11	15.1	13.3	275	18	15.5	12.6	269	26	16.8	15.7	270
5.5 ,, .	28	21.0	19.1	277	25	20.5	19.2	283					5	19.8	16.9	279	5	17.9	17.7	275	22	25.2	24.7	275
6.4 ,, .	26	26.8	25.2	274	22	25.3	24.4	280									2	19.7	19.6	281	11	30.3	29.7	276
7.0 ,, .	22	28.2	27.1	277	21	28.0	27.3	277									1	14.0	14.0	280	7	34.1	33.7	277
8.2 ,, .	11	31.3	29.9	280	12	34.9	34.5	282									1	25.5	25.5	280	3	45.3	42.5	285
9.0 ,, .	2	38.0	37.6	275	2	38.5	38.5	282																

Station	IMPHAL/TULIHAL				JABALPUR												JAGDALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.4	0.3	043	31	0.6	0.4	124	31	1.1	0.3	310	31	0.7	0.5	116	31	CALM			31	1.0	0.2	350
0.15 a.g. .	31	1.6	0.2	357	31	3.8	1.4	111	31	3.7	1.3	328	31	5.5	2.3	076	27	2.5	1.0	056	31	2.5	1.1	040
0.3 a.m.s.l. .																								
0.6 ,, .					31	4.6	1.8	105	31	3.7	1.3	325	31	5.7	2.7	067	27	1.1	0.4	056	31	1.9	0.7	038
0.9 ,, .	31	1.7	0.4	003	31	5.9	0.4	012	31	4.0	1.3	300	31	5.1	1.1	058	27	3.5	1.6	050	31	2.7	1.0	038
1.5 ,, .	31	2.7	1.3	213	30	6.6	3.5	283	31	5.2	3.2	279	31	6.1	3.4	251	27	4.4	2.0	006	31	3.0	1.8	350
2.1 ,, .	30	5.2	3.9	233	30	9.4	6.9	280	31	7.9	6.3	277	29	8.6	6.7	277	27	5.7	4.0	321	31	4.6	3.2	327
3.0 ,, .	21	13.5	11.9	272	27	11.7	11.1	290	29	12.4	11.4	284	28	11.8	10.6	286	27	7.4	5.8	297	30	6.9	4.7	288
4.6 ,, .	11	18.8	18.5	274	22	13.2	12.5	288	28	14.7	13.8	285	12	12.5	10.9	293	26	8.5	6.9	292	29	8.7	7.7	292
5.5 ,, .	1	10.0	10.0	305	13	13.5	12.8	291	28	18.9	18.0	283					26	10.0	9.0	278	29	10.6	9.9	288
6.4 ,, .	1	9.0	9.0	300	5	11.7	10.8	282	26	22.8	21.8	279					21	11.9	10.5	276	28	12.7	11.3	258
7.0 ,, .					3	16.2	16.1	291	23	24.0	23.4	283					16	13.8	12.7	289	26	14.1	12.4	282
8.2 ,, .									7	21.9	21.4	290					1	12.5	12.5	270	5	17.9	17.5	256
9.0 ,, .																								

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TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

January 1962 (Pausa 11— Magha 11, 1883 Saka)

Station	JAGDALPUR				JAIPUR/SANGANER												JAMSHEDPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.3	0.2	074	31	1.6	1.1	037	31	2.7	0.8	312	31	2.1	1.5	057	31	0.9	0.7	317	31	1.1	0.7	319
0.15 a.g. .	31	3.9	2.9	077	31	4.5	0.8	064	31	4.0	1.4	289	31	5.7	2.3	081	30	3.6	3.0	304	31	2.3	1.4	326
0.3 a.m.s.l. .																	30	3.6	2.8	307	31	2.3	1.5	324
0.6 „ .	31	2.7	2.2	080	31	4.5	0.6	052	31	3.9	1·3	290	31	5.6	2.4	072	30	4.2	2.2	322	31	2·8	1·7	319
0.9 „ .	31	4.0	2.4	064	31	4.6	1.0	261	31	3.8	1.3	294	31	5.2	1.3	081	30	5.1	2.9	309	31	3.3	2.4	312
1.5 „ .	31	3.2	1·4	340	31	5.7	4.0	282	31	4.6	2.3	300	31	4.9	2.3	254	30	7.1	5.5	303	31	5.6	5.0	304
2.1 „ .	31	4.6	1.4	303	31	7.7	6.0	285	31	7.3	4.1	275	31	7.2	4·8	268	30	9.6	8.1	302	31	9.7	9.1	304
3.0 „ .	30	7.4	5.7	290	30	9.5	8.4	286	30	11.8	5.6	272	28	10.5	8.7	277	22	13.2	12.2	298	30	13.8	13.3	291
3.6 „	10	8.5	7.4	283	24	13.4	11.5	288	29	15.0	12.0	271	25	14.0	12.2	278	14	13.1	11.6	292	28	17.5	16.8	284
4.5 „ .									26	22.6	20.0	277	5	18·0	16.4	260	7	18·3	18.1	273	23	20·9	20·2	279
5.4 „ .									22	28.5	22.7	273					1	29.0	29.0	255	12	24.3	23.3	262
6.0 „ .									14	30.0	26·2	271									1	20·5	20.5	295
7.2 „ .									4	24·4	23.4	278												
9.0 „ .									2	30.5	30.5	274												

Station	JHARSUGUDA												JODHPUR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.5	1.4	021	31	1.0	0.5	198	31	0.9	0.3	035	30	2.5	1.8	036	31	1.2	0.8	054	31	2.6	1·1	007
0.15 a.g. .	30	4.8	4.1	039	31	2.1	0.8	312	31	4.6	0.6	217	30	6.8	4.2	029	31	2.9	1.2	063	31	5.0	2.8	341
0.3 a.m.s.l. .	30	4.4	3.8	039	31	2.2	0.9	313	31	3.8	0.3	125	30	5.3	2·6	027	31	2.8	1.4	053	31	3.8	1.8	325
0.6 „ .	30	4.4	1.7	015	31	3.5	1.7	254	31	4.5	1.3	273	30	5.2	1.9	013	31	3.7	0.8	043	31	4.2	2.0	315
0.9 „ .	30	4.3	1.5	321	31	2.5	1.9	280	31	4.0	1.8	288	30	4.6	2.4	303	31	4.1	1.0	338	31	3.9	2.3	270
1.5 „ .	30	5.5	3.8	312	31	5.1	3.5	321	30	4.4	2.8	326	30	5.4	3.3	283	31	4·8	2.0	292	31	4.0	2.2	270
2.1 „ .	30	8.4	7.3	315	31	8.7	7.2	316	30	7.3	6.1	317	30	6.8	3.4	302	31	5.8	3.6	280	31	6.3	4.7	261
3·0 „ .	27	11.5	10.1	295	28	12.3	11.3	297	25	10.8	9.8	294	30	9.8	8.3	283	29	9.1	6.8	269	31	10.3	7.6	270
3.6 „	16	12.6	11.3	285	27	14·2	13·3	292	11	13.1	12·0	284	30	13.1	8.8	276	29	13.3	11.2	273	31	13.8	11.9	276
4.5 „ .	6	17.4	16.3	284	24	17.1	16.0	287					30	11·5	9.9	268	29	19.2	17.3	273	30	18.2	16.8	269
5.4 „ .	1	21.5	21·5	270	15	21.8	21.0	278					29	21.0	20.1	269	26	23.4	22.2	273	29	23.1	20.4	271
6.0 „ .					8	25·0	24·0	273					26	25.5	24.9	271	22	24.3	22.8	272	29	26 6	25.7	27[illegible]
7·2 „ .					1	32.5	32·5	275					26	33.0	31.9	270	14	29.6	28.8	273	26	32.1	30.1	27[illegible]
9·0 „ .													13	42.5	40.9	269	4	32·1	31.0	277	15	42.6	38.7	26[illegible]

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	JODHPUR				LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
urface . .	31	1.9	1.4	006	31	2.8	0.8	268	31	3.4	1.9	289	31	2.3	0.5	258	31	2.5	2.0	020	31	4.5	4.2	034
.15 a.g. . .	31	6.3	4.0	011	28	7.4	5.0	318	30	4.1	2.1	290	28	6 8	3.9	312	31	6.0	5.6	039	31	5.2	4.9	039
.3 a.m.s.l. .	31	5.5	3.8	005	28	7.5	4.9	324	30	4.2	2.3	292	28	6.9	4.5	315	31	5.7	5.3	043	31	5.3	5.1	041
.6 „ .	31	6.0	3.3	014	28	7.5	4.8	310	30	4.9	2.6	292	29	6.6	4.4	300	31	5.5	5.2	056	31	5.5	5.3	045
.9 „ .	31	4.9	1.5	352	27	7.7	6.0	308	30	5.4	3.7	298	28	6.9	4.7	300	31	5.4	5.0	060	30	4.9	4.6	051
.5 „ .	30	5.0	1.2	279	26	9.8	8.4	299	29	8.2	6.5	298	25	7.6	6.1	292	31	5.2	4.3	064	22	5.3	4.7	055
.1 „ .	29	5.8	4.1	273	23	9.9	8.9	298	28	10.7	9.4	294	26	9.2	8.5	295	31	4.8	2.4	062	16	5.3	3.7	047
.0 „ .	27	9.5	7.9	272	23	12.8	11.7	285	27	13.7	12.5	286	22	13.3	12.3	287	31	4.6	1.9	051	10	4.5	3.2	048
.6 „ .	11	13.6	13.1	271	10	12.5	11.9	290	27	17.2	15.9	284	9	17.1	16.6	279	31	4.5	2.1	060	9	5.5	3.9	035
.5 „ .	4	17 3	17.3	280	1	11.0	11.0	270	23	21.9	20.9	284					31	4.4	2.1	060	9	6.2	4.8	042
.4 „ .	2	23.7	23.7	285					20	28.9	27.7	283					30	5.5	2.7	073	9	6.3	5.6	047
0 „ .	1	17.0	17.0	290					13	29.9	29.6	280					29	6.5	4.0	079	7	6.5	5.9	043
2 „ .									8	38.0	38.0	288					29	7.3	4.6	064	6	8.0	6.1	051
0 „ .									1	44.5	44.5	275					28	6.0	2.4	048	4	6.6	3.2	040

ation	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY			
me in I.S.T.	1730*				2330				0530				1730				2330				0530			
. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
face . .	31	4.7	4.3	046	31	2.4	2.0	026	31	2.4	2.3	083	31	3.6	3.3	290	31	1.5	1.1	015	31	1.5	0.9	020
5 a.g. . .	31	8.2	7.8	050	31	5.8	5.6	050	31	5.9	4.7	081	31	5.0	4.8	287	31	5.1	4.5	337	31	3.7	2.7	020
a.m.s.l. .	31	7.7	7.4	050	31	6.4	6.3	054	31	6.1	4.5	074	31	5.1	4.9	288	31	5.3	4.7	334	31	4.2	3.0	028
„ .	31	6.5	6.2	052	31	7.1	6.9	055	31	5.2	2.8	067	31	3.4	2.6	312	31	5.0	4.4	335	31	4.1	2.9	036
„ .	31	5.7	5.3	055	31	6.7	6.3	054	31	4.3	1.9	089	31	2.5	1.3	013	31	3.7	1.7	359	30	4.3	2.9	048
„ .	31	5.6	4.2	045	30	5.7	4.6	048	30	3.6	2.3	133	31	5.1	4.5	082	31	4.8	3.5	095	30	4.5	2.1	073
„ .	31	4.9	2.7	030	26	4.8	2.7	026	29	4.4	1.9	109	31	6.9	4.9	084	31	6.8	5.6	099	28	4.7	2.6	084
„ .	31	4.3	1.4	029	22	5.1	1.3	357	29	5.1	2.8	069	31	5.6	2.4	057	31	6.0	2.5	084	25	6.1	2.8	072
„ .	29	4.6	1.4	025	21	4.7	1.7	045	29	5.8	2.8	059	31	5.9	2.5	042	31	6.2	2.4	057	21	5.9	2.3	065
„ .	29	4.5	1.5	025	18	5.4	2.7	052	29	5.9	3.1	040	31	6.2	2.4	043	21	6.3	3.1	054	16	6.3	4.2	062
„ .	30	5.7	2.6	048	14	5.8	4.1	056	28	6.5	4.5	043	31	6.9	3.6	033	8	6.6	1.1	042	15	7.7	4.8	070
„ .	30	6.9	3.6	054	12	6.9	5.5	052	26	8.3	4.3	055	31	8.7	4.8	033	1	8.5	8.5	105	15	9.2	6.5	075
„ .	30	8.4	4.7	061	6	6.3	5.1	035	22	8.7	4.8	091	28	9.0	3.7	060					11	9.5	7.7	087
„ .	27	6.0	3.2	055					8	6.6	2.4	317	21	5.4	2.1	082					4	4.3	3.5	125

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

January 1962 (Pausa 11— Magha 11, 1883 Saka)

Station	MINICOY								NAGPUR/SONEGAON															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.4	1.1	010	31	1.5	1.3	022	31	1.0	0.8	340	31	1.6	0.5	093	31	1.1	0.3	090	31	1.2	0.3	0[illegible]
0.15 a.g. . .	31	4.5	3.5	017	31	3.8	3.0	027	31	4.7	2.5	064	31	2.8	0.4	110	31	3.0	0.6	059	31	6.5	4.1	1[illegible]
0.3 a.m.s.l. .	31	4.4	3·5	016	31	4·2	3·3	030																
0.6 ,, .	31	4.7	3.5	023	31	4.6	3.4	035	31	4.8	2.1	075	31	3.3	0.8	113	31	3.0	0.5	084	31	6.3	3.6	1[illegible]
0.9 ,, .	31	4.5	2.8	028	31	4.5	2.8	042	31	4.6	1.1	144	31	3.9	1.0	217	31	2.8	0.1	192	31	4.6	1.8	1[illegible]
1.5 ,, .	31	4.9	2.2	066	31	4.6	1.9	071	31	5.0	2.8	256	31	5.2	2.9	273	31	3.8	1.5	279	31	4.2	2.4	27[illegible]
2.1 ,, .	30	5.0	1.5	076	28	4.5	2.3	064	31	7.1	5.1	285	30	7.3	5.6	283	31	6.5	4.7	293	30	7.1	5.8	28[illegible]
3.0 ,, .	24	5.1	1.8	042	23	5.8	3.6	078	31	9.7	7.9	286	28	9.4	8.0	279	31	9.7	8.5	285	30	10.3	8.9	28[illegible]
3.6 ,, .	20	6.1	3.2	064	11	6.0	2.9	077	31	11.6	9.5	286	28	11.1	10.0	281	31	11.7	10.5	280	9	9.4	8.3	27[illegible]
4.5 ,, .	15	6.2	4.1	053	3	6.3	5.7	069	31	13.0	11.6	280	29	13.9	12.8	278	31	15.3	14.3	278	2	11.7	10.8	30[illegible]
5.4 ,, .	14	6.5	5.5	060	1	11.0	11.0	110	31	16.8	15.4	277	28	16.9	15.4	275	31	16.9	16.0	273				
6.0 ,, .	12	8.9	7.6	075					31	19.2	17.5	279	26	17.0	16.0	278	31	19.1	17.6	277				
7.2 ,, .	7	9.1	7.0	075					30	23.1	21.4	279	24	23.6	22.6	283	31	22.7	21.3	277				
9.0 ,, .	5	9.4	7.5	108					29	25.3	24.4	272	10	25.3	23.9	278	30	24.9	24.0	272				

Station	NEW DELHI/SAFDARJUNG																POONA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.7	1.2	310	31	3.8	1.4	280	31	1.9	0.9	308	31	1.7	0.6	333	31	0.1	0.1	256	31	0.5	0.3	266
0.15 a.g. . .	31	6.0	3.3	328	31	4.8	1.7	292	31	6.0	2.8	315	31	6.4	2.6	338	31	3.1	1.2	117	31	2.9	0.5	265
0.3 a.m.s.l. .	31	4.9	2.4	322	31	4.5	1.6	301	31	3.1	0.8	320	31	5.5	2.1	341								
0.6 ,, .	31	8.1	3.6	320	31	6.6	2.8	300	31	6.1	3.0	310	31	6.4	2.4	323	31	1.6	0.9	214	31	2.0	0.3	321
0.9 ,, .	31	7.0	3.5	312	31	7.7	3.0	301	31	5.6	2.8	313	31	6.7	3.4	305	31	4.4	1.9	109	31	3.0	0.4	25[illegible]
1.5 ,, .	31	7.7	4.4	300	31	7.8	3.6	298	31	6.7	3.5	309	30	7.1	4.2	301	31	5.6	3.2	162	31	3.0	0.9	23[illegible]
2.1 ,, .	31	8.3	4.4	284	29	7.2	3.7	299	31	6.9	3.1	292	25	7.3	4.4	299	30	4 9	2.7	187	29	3·8	0.5	29[illegible]
3.0 ,, .	31	8.3	6.0	284	25	9.9	6.8	284	31	8.9	6.3	277	22	8.8	6.5	291	29	6.4	3.5	309	28	5.2	2.6	31[illegible]
3.6 ,, .	31	10.2	7.8	279	25	11.7	9.1	286	31	10.3	7.5	276	1	6.0	6.0	310	21	7.0	5.9	323	27	6.6	4.8	30[illegible]
4.5 ,, .	31	15.4	12.9	275	24	15.4	12.6	279	31	14.9	11.6	278					5	5.2	4.1	289	27	8.2	6.8	28[illegible]
5.4 ,, .	31	20.6	16.9	273	21	20.0	18.4	280	31	20.1	17.7	275					1	8.0	8.0	265	27	11.2	9.0	28[illegible]
6.0 ,, .	31	23.5	20.2	271	17	24.0	22 2	282	31	24.2	21.5	275									26	11.9	10.3	28[illegible]
7.2 ,, .	31	28.6	26.8	271	6	32.0	30.7	278	31	30.7	28.6	272									20	14.9	12.8	27[illegible]
9·0 ,, .	28	41.8	40.7	270	2	43.7	42.4	271	29	46.1	44.5	269									11	15.6	15.1	26[illegible]

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

Jaunary 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	POONA				PORT BLAIR																RAIPUR			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·5	0·3	221	31	2.2	2·0	073	31	4·2	3·8	058	31	2·9	2·0	086	31	3·1	2·9	067	31	0·7	0·2	062
0·15 a. g. .	31	3·6	1·5	271	31	6.1	5·5	065	31	8·1	7·2	060	31	6·7	5·6	066	30	5·9	5·2	068	30	4·0	2·0	061
0·3 a.m.s.l. .					31	6·1	5·5	065	31	8·1	7·1	065	31	6·7	5·8	067	30	6·0	5.1	068				
0·6 „ .	31	2·2	1·3	236	31	7.0	6·0	077	31	7·2	6·4	076	31	6·6	5·8	073	30	5·9	5·2	080	30	4·4	1·6	082
0·9 „ .	31	4·6	0·9	299	31	6·3	6·1	092	27	7·2	6·5	088	30	6·7	6·1	088	25	5·1	4·6	095	30	3·4	0·7	088
1·5 „ .	31	4·5	1.6	122	30	7·2	6·2	102	18	6·0	4·8	099	29	5·8	5·1	093	18	4·4	3·4	105	29	4·6	2.5	317
2·1 „ .	31	4.9	2.2	131	31	5·1	4·2	110	13	5·7	4·3	111	29	4·7	2·8	100	11	3·6	2·7	101	25	7·0	5·0	313
3·0 „ .	31	6·6	3.0	280	29	4·2	2·5	105	6	4.3	2.3	065	29	5·0	2·7	096	7	3·2	0·6	183	18	9·7	8·2	289
3·6 „ .	24	6·3	4.6	310	29	4·3	2·7	105	4	3·6	2.9	048	26	4·3	1·8	112					17	11·9	10.0	293
4·5 „ .	13	8.0	6.5	304	30	4·3	2.3	105	1	8·0	8·0	086	28	4·9	2.4	100					13	13·0	12·2	286
5·4 „ .	5	10·6	7·9	309	30	5·0	3·1	106					25	4.9	3.1	084					5	13·2	12·2	274
6·0 „ .	4	10·5	8·2	277	30	6·5	4·5	103					24	6.1	4.5	092					2	16·7	16·7	297
7·2 „ .					30	8·1	5·0	086					22	7.4	5.8	082					1	18·0	18·0	305
9·0 „ .					23	7.7	4·5	073					17	6·5	4.0	077								

Station	RAIPUR								RAXAUL								SILIGURI/BAGHDOGRA							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·6	0·3	006	31	1·1	1·1	121	31	0·7	0·1	270	31	0·9	0·9	266	31	1·0	0·9	032	31	1·2	0·7	240
0·15 a. g. .	31	2·0	0·8	357	31	4·4	2·6	114·	25	3·0	1·2	331	30	3·7	2·9	257	28	3·3	2·6	046	29	2·5	1·9	228
0·3 a.m.s.l. .									25	3·2	1·5	318	30	3·7	2·9	257	28	3·4	2·5	067	29	2·5	1·9	227
0·6 „ .	31	2·1	0·9	348	31	4·0	1·7	129	25	3·4	0·6	239	30	3·9	3·0	254	28	3·3	2·7	075	29	2·5	2·0	230
0·9 „ .	31	2·3	1·0	326	31	3·5	0·5	277	25	3·6	1·1	161	30	3·9	2·3	263	27	3·1	2·3	083	29	2·4	1·6	229
1·5 „ .	31	5·0	3·3	311	31	4·7	2·3	311	25	4·1	0·8	109	30	4·2	1·0	314	27	3.7	2·7	094	28	2·4	0·1	166
2·1 „ .	31	7·6	5·6	298	29	6·2	4·9	308	22	6·5	3·0	291	30	5·7	2·3	310	27	4·2	1·9	274	25	3·7	0·9	315
3·0 „ .	29	10.9	9·6	288	27	10·3	8·7	291	20	10·3	8·5	283	29	9·0	8·7	288	27	7·7	5·9	288	25	8·3	7·0	290
3.6 „ .	29	12·7	11·9	280	14	11·8	11·3	291	10	24·3	23·9	285	26	12·8	12·5	285	25	14·2	13.4	281	22	14·7	13·0	279
4·5 „ .	27	15·9	15·3	279	2	13·7	13·0	279	11	15·7	15·2	280	15	17.2	16·8	286	20	19·7	19·1	283	19	20·2	19·9	284
5·4 „ .	24	18·8	17·5	277					6	19·8	19·2	281	11	23.5	22·6	281	9	20·4	19·5	283	15	25·7	25·0	280
6·0 „ .	17	18·9	17·7	276									4	27.5	26·9	275	5	19·2	18·8	293	13	28·2	27·6	280
7·2 „ .	5	19·9	19·2	283													2	26·5	26·5	315	8	38·6	36·9	285
9·0 „ .	1	28·0	28·0	290																	1	43·0	43·0	285

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	SILIGURI/ BAGHDOGRA				TIRUCHCHIRAPPALLI												TRIVANDRUM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.8	0.7	355	31	2.7	2.3	015	31	3.9	3.5	075	31	3·3	3.1	054	31	1.6	1.6	035	31	0.9	0.5	018
0.15 a.g. .	30	2.5	0.9	315	31	7.5	7.3	028	31	6.2	5.9	069	31	8·3	8.1	055	31	3.5	2.7	029	31	1.9	0.7	359
0.3 a.m.s.l.	30	2·5	0·9	294	31	8.2	8.1	032	31	6.4	6.2	069	31	9.0	8.8	055	31	3.4	2.6	029	31	1.8	0.7	344
0.6 ,, .	30	3.1	2.0	276	31	8.1	8.0	047	31	6.9	6.6	058	31	10.3	10.1	058	31	2.7	1.0	024	31	1.9	0.4	045
0.9 ,, .	29	2.6	0.8	288	31	6.9	6.4	050	31	7.0	6.7	049	31	9.0	8.7	051	31	2.7	0.5	035	31	2.3	1.1	008
1.5 ,, .	28	3.7	0.8	105	31	4.9	3.8	043	31	6.2	5.3	039	29	5.7	4.6	030	31	3.4	0.8	010	29	2.9	1.3	045
2.1 ,, .	28	4.0	1.5	092	26	4.9	3.1	042	29	5.7	3.9	044	26	5.2	3.2	041	31	4.2	1.9	081	28	3.8	2.4	087
3·0 ,, .	25	6.8	5.3	280	23	4.9	2.6	079	25	5·5	1·9	034	23	4.5	2.2	064	31	4.6	2.7	083	26	5.5	3.2	085
3.6 ,, .	14	11.2	9.6	278	21	4.7	2.5	071	25	5·5	2·1	052	18	4.8	2.0	056	31	5.8	3 0	087	24	7.7	5.5	083
4.5 ,, .	7	12·4	9·4	280	20	6.0	4.6	075	23	5·7	3·2	045	12	6.7	4.8	071	31	6.7	4.7	070	23	7·6	5·7	078
5.4 ,, .	1	19·0	19·0	275	19	6.1	5.4	070	22	5·8	4·0	073	6	5.6	4.3	114	31	8.4	6.7	078	23	9·4	7·9	081
6.0 ,, .	1	23.0	23·0	280	14	8.3	6.3	069	22	7·8	5·9	072	5	8.2	5.9	104	31	9.1	7.6	077	23	10·5	9·4	082
7.2 ,, .					10	7·1	5·2	067	19	10·8	8·5	071					31	11.1	9·7	080	20	12·9	11·9	075
9.0 ,, .					8	6·8	5·1	066	16	9·6	7·2	072					29	10.8	9.5	085	17	11·6	10·3	089

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.9	1.4	246	31	0.9	0.4	005	31	0.1	0.1	296	31	1.3	0.5	250	31	0.3	0.1	315	31	0.4	0.4	352
0.15 a.g. .	31	3.4	2.9	250	31	2.7	0.8	296	31	2.5	1.9	359	31	3.1	0.8	299	30	3.3	1.8	346	31	4.0	2.9	054
0.3 a.m.s.l. .	31	3.4	2.5	250	31	2.9	1.2	302													31	4.6	2.7	057
0.6 ,, .	31	3.0	1.8	245	31	2.9	1.3	326													31	5.0	2.8	072
0.9 ,, .	31	2.6	0.4	356	30	3.1	1.9	026	31	3.6	1.4	022	31	3.3	1.0	300	31	4.1	0.8	010	31	5.1	2.7	081
1.5 ,, .	31	4.5	4.1	035	29	4.3	3.5	034	31	5.5	2.1	284	31	3.5	1.5	284	31	3.5	0.7	228	30	4.8	2.6	114
2.1 ,, .	31	4.1	3.1	047	27	3.8	2.1	069	31	6.4	4.5	271	31	5.5	4.8	272	31	5.6	4.5	264	30	5.0	1.1	135
3.0 ,, .	31	5.7	3.0	061	24	4.7	3.1	074	30	9·1	8.0	277	31	11.8	10.5	275	30	11.0	9.5	273	30	6.9	1.1	352
3.6 ,, .	31	6.1	3.8	073	21	6.4	4.7	069	28	12.0	11.0	278	31	15.3	13.9	275	22	13.6	12.4	279	3	7.2	3.7	337
4.5 ,, .	31	7.0	4.7	057	20	7.5	4.9	073	22	16.4	15.0	278	31	19.1	17.8	275	1	19·5	19·5	305				
5.4 ,, .	31	8.0	5.8	070	12	7·0	5·3	081	10	15.1	14.6	284	26	21·1	20·1	279								
6.0 ,, .	31	8.8	7.8	075	8	7·9	6·0	082	6	13.6	13.1	281	24	24·3	23.2	280								
7.2 ,, .	31	10.3	8.7	079	1	3·0	3·0	005					12	26.8	26.2	275								
9.0 ,, .	27	11.5	9·4	087																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Station	VENGURLA								VERAVAL												VIJAYWADA/ GANNAVARAM			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·4	2·2	271	31	0·7	0·7	359	31	4·1	3.8	015	31	6·0	3·5	296	31	4·4	3·5	351	31	2·2	2·1	047
0·15 a. g.	31	4·0	3·7	278	31	5·0	4·6	359	31	10·2	9·0	021	31	5·2	3·3	298	31	8·5	7·1	359	31	5·1	4·8	069
0·3 a.m.s.l.	31	4·3	3·5	280	31	6·0	5·1	357	31	8·9	7·3	021	31	4·9	2·8	312	31	7·9	6·3	005	31	4·5	4·1	085
0·6 ,,	31	3·2	1·4	318	31	5·2	4·0	357	31	5·9	4·0	019	31	4·5	3·1	358	31	6·3	4·9	020	31	4·3	3·6	105
0·9 ,,	31	3·7	1·4	038	31	4·4	2·5	013	31	4·0	2·0	007	31	4·8	3·6	005	31	5·0	3·5	035	31	4·9	3·2	078
1·5 ,,	31	6·0	4·0	079	30	5·9	4·6	088	31	4·7	1·5	318	31	4·6	2·6	355	31	4.3	1·4	353	29	5·5	3·0	045
2·1 ,,	30	6·5	4·1	074	30	6·2	4·8	090	31	5·8	3·9	288	31	5·8	4·6	290	31	5·7	3·9	280	29	4·3	1·4	012
3·0 ,,	30	5·8	2·4	040	30	6·3	1·6	068	31	7·0	5·5	283	30	9·3	7·8	286	31	8·3	6·8	277	28	4·6	2·2	329
3.6 ,,	30	6·0	2·0	008	11	5·7	1·7	323	19	10·3	9·3	284	30	11·3	9·4	283	28	9·1	7·7	287	28	5·2	3·2	319
4.5 ,,	29	5·4	2·9	358					9	11·3	10·9	280	30	14·1	12·7	281	19	11·2	9·9	282	28	5·4	3·9	293
5·4 ,,	29	6·1	3·8	329					5	13·8	13·8	277	30	16·0	15·0	280	9	11·9	11·0	283	28	6·0	3·7	292
6·0 ,,	29	7·9	4·9	324					2	13·3	12·9	289	30	18·5	17·2	281	4	13.5	12.7	272	28	7·8	4·4	298
7·2 ,,	18	9·4	4·1	301									28	22·7	21·1	276					19	8·4	6·0	287
9·0 ,,	2	10·0	8·9	273									23	23·7	22·6	268					9	8·4	7·4	259

Station	VIJAYWADA/GANNAVARAM								VISHAKHAPATNAM															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·6	2·0	110	31	1·5	1·2	071	31	0·8	0·8	041	31	1·8	1·4	095	31	2·1	2·0	041	31	0·2	0·1	022
0·15 a. g.	31	3·2	2·8	112	31	5·6	4·9	117	31	7·7	7·6	023	31	3·1	2·0	097	31	5·7	5·5	056	31	2·3	1·4	061
0·3 a.m.s.l.	31	3·1	2·7	109	31	5·9	5·4	113	31	6·8	6·5	032	31	2·7	1·8	082	31	5·7	5·1	060	31	2·9	2·0	088
0·6 ,,	31	2·8	2·1	088	31	5·0	4·6	098	31	4·6	3·8	058	31	3·1	2·7	047	31	4·8	3·8	072	31	3·6	2·6	088
0·9 ,,	31	3.0	2·2	059	31	4·4	3·6	068	31	3·8	3·2	041	30	3·7	3·0	040	31	4·5	3·4	024	31	3·9	2·6	060
1·5 ,,	30	4·3	2·7	022	30	4·9	2·9	034	31	4·4	2·7	356	30	4·5	2·9	008	31	6·3	5·1	343	30	4·2	2·6	011
2·1 ,,	30	4·6	1·9	346	30	4·5	2·0	001	31	5·0	2·6	312	28	5·4	3·5	320	31	6·6	5·0	317	30	5·0	2·6	322
3·0 ,,	31	4·9	2·7	312	30	4·4	2·3	287	31	5·5	4·2	294	25	6·1	4·5	295	31	5·6	4·0	255	28	5·8	3·7	287
3·6 ,,	28	4·9	2·9	306	23	5·5	3·4	284	31	6·5	4·9	288	24	6·3	4·8	287	31	6·4	4·9	283	20	7·3	5·8	285
4·5 ,,	28	5·7	4.1	293	15	5·4	3·8	284	31	8·1	7·1	279	24	8·1	6·9	276	31	8·4	7·2	282	1·3	72	5·7	283
5·4 ,,	28	7·2	5·1	299	11	6·0	2·9	315	31	8·6	7·4	273	23	10·0	8·6	280	31	9·5	7·9	279	4	7·9	7·7	276
6·0 ,,	28	8·2	5·5	295	8	6·3	4·1	299	31	9·7	8·1	282	23	10·6	9·1	277	31	10·8	8·9	283				
7·2 ,,	25	9·8	7·0	289	1	1·5	1·5	070	31	12·5	9·9	281	20	12·7	11·1	266	31	12·4	10.6	277				
9·0 ,,	15	10·0	8·9	278					29	12·8	11·7	273	13	13·3	12·3	265	31	12·5	11·5	276				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

AHMADABAD

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	19	38·9	38·2	269
12·0	15	39·2	37·9	264
14·1	8	33·3	32·2	269
16·2	2	27·7	26·3	267

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	10	33·1	32·3	268
12·0	5	41·6	41·3	264
14·1	2	38·7	38·6	258

ALLAHABAD/BAMHRAULI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	1	60·0	60·0	255

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	4	38·7	38·5	282
12·0	1	50·0	50·0	270

AMBALA

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	34.5	34.5	270
12·0	1	57·5	57·5	270

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	53.5	52.3	282
12·0	1	57·5	57·5	265

ANANTAPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	8	6·3	4·9	215
12·0	4	8·5	8·4	171
14·1	1	5·5	5·5	360

1730 hr.

Ht. in Km.	n	V	v	D
10·5	13	7·1	5·4	246
12.0	10	9·8	8·3	205
14·1	9	12·3	10·3	181
16·2	6	7·3	4·3	232
18·0	3	5·3	1.4	139

BAHRAICH

1730 hr.

Ht. in Km.	n	V	v	D
1·05	5	61·2	60·4	287
12·0	2	69·0	69·0	285

BANGALORE

0530 hr.@

Ht. in Km.	n	V	v	D
10·5	15	6·0	2·2	152
12·0	13	8·2	6·8	174
14·1	13	12·0	9·7	166
16·2	12	9·0	6·9	112
18·0	6	7·6	4·0	068
21·0	5	3·9	0·8	249
24·0	4	7·5	0·7	133
27·0	1	16·5	16·5	065

1130 hr.

Ht. in Km.	n	V	v	D
10·5	17	5·5	2·0	138
12·0	12	8·3	7·1	161
14·1	11	13·0	11·2	171
16·2	9	7·8	5·6	112
18·0	7	7·2	3·5	096
21·0	3	7·2	6·5	261

1730 hr.@

Ht. in Km.	n	V	v	D
10·5	21	5·3	2·3	152
12·0	19	8·9	7·7	167
14·1	18	12·5	10·6	153
16·2	13	7·7	3·9	114
18·0	11	7·7	1·7	160
21.0	7	7·7	6·1	270
24·0	4	7·5	1·9	135

BEGAMPET

0530 hr.

Ht. in Km.	n	V	v	D
10·5	18	12·7	11·9	260
12·0	18	13·7	13·3	240
14·1	13	13·3	12·1	237
16·2	9	7·7	5·9	253
18·0	4	2·6	2·0	343
21·0	1	5·5	5·5	210

1730 hr.

Ht. in Km.	n	V	v	D
10·5	15	12·1	11·4	266
12·0	11	13·5	13·3	250
14·1	5	13·6	13·2	320
16·2	4	8·9	7·3	250
18·0	4	8·0	5·7	267

BOMBAY/SANTA CRUZ AERODROME

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	26	20·1	19·2	269
12·0	20	19·9	18·8	256
14·1	11	21·0	20·1	251
16·2	5	21·5	20·3	251
18·0	1	5·5	5·5	195

1130 hr.

Ht. in Km.	n	V	v	D
10·5	8	17·6	16·8	255
12·0	5	20·1	18·9	257
14·1	5	21·1	20·6	255
16·2	4	20·7	20·2	252
18·0	1	10·1	10·1	300

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	26	20·0	19·2	265
12·0	18	19·9	18·7	250
14·1	8	21·9	21·0	249
16·2	4	20·9	12·6	214
18·0	2	17·7	17·7	236

CALCUTTA/DUM DUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	5	35·2	33·9	272
12·0	2	39·7	39·5	258

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	12	32·3	29·5	272
12·0	7	34·1	33·1	270
14·1	1	31·0	31·0	280

COCHIN/WILLINGDON

1730 hr.

Ht. in Km.	n	V	v	D
10.5	2	7·5	7·3	143
12.0	1	4.5	4·5	195

DIBRUGARH/MOHANBARI

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	44·5	44·5	280

GADAG

0530 hr.

Ht. in Km.	n	V	v	D
10·5	19	8·2	6·9	232
12·0	12	9·0	8.0	229
14·1	9	5·4	2·7	176
16·2	8	5.3	2·2	255
18·0	8	5.0	2·7	212
21·0	8	6·9	1·9	230
24·0	1	9·0	9·0	225
27·0	1	5·0	5·0	315
30·0	1	16·5	16·5	160

1730 hr.

Ht. in Km.	n	V	v	D
10·5	22	8·1	6·1	231
12·0	21	10.9	10.2	208
14·1	15	9·4	6·9	198
16·2	10	6·7	3·9	079
18.0	4	4.7	3.9	229

GAUHATI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	4	54.2	51.2	290
12.0	1	61.0	61.0	300

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	5	51.4	49.6	286
12.0	1	53.5	53.5	285

GWALIOR

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	60.0	60.0	290

1730 hr.

Ht. in Km.	n	V	v	D
10.5	1	55.0	55·0	285

JODHPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	6	48.9	46.7	269
12.0	1	53.5	53.5	255

1730 hr*.

Ht. in Km.	n	V	v	D
10·5	4	40·2	39·7	264

MADRAS/MINAMBAKKAM

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	24	6.5	1.5	080
12.0	19	6.6	5.4	091
14.1	13	11.2	8·6	161
16.2	9	8.4	5.5	129
18.0	6	6.9	3.1	113
21.0	4	6.3	1.0	068

1130 hr.

Ht. in Km.	n	V	v	D
10.5	4	4.0	1.8	174
12.0	3	6.3	6·1	180
14.1	3	13.2	13.2	162
16·2	2	8.7	8.5	084
18·0	2	8.5	8·5	105
21.0	1	4.0	4·0	195

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	23	5.1	2.5	130
12.0	22	7.6	6.1	174
14.1	16	12.6	11.6	157
16·2	8	8·5	4·7	118
18·0	6	7.0	0.8	017
21.0	4	6.6	5.0	276

MANGALORE/BAJPE

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	9.5	9.5	245
12.0	1	8.5	8.5	250
14.1	1	15.5	15.5	170

1730 hr.

Ht. in Km.	n	V	v	D
10.5	15	5.8	2.6	155
12.0	6	8.3	7.1	155
14.1	2	15.0	15.0	177

MINICOY

0530 hr.

Ht. in Km.	n	V	v	D
10.5	3	8.5	7.6	125
12.0	2	18.3	17.6	227

1730 hr.

Ht. in Km.	n	V	v	D
10.5	2	9.5	9.5	167
12.0	1	18.5	18.5	150

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

January 1962 (Pausa 11—Magha 11, 1883 Saka)

NAGPUR/SONEGAON

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	29	25.6	24.7	269
12.0	29	28.2	28.2	261
14.1	27	24.4	23.9	253
16.2	23	18.7	15.0	263
18.0	22	11.4	10.6	280
21.0	7	8.2	7.4	274
24·0	1	6·5	6·5	155

1130 hr.

Ht. in Km.	n	V	v	D
10.5	4	28·6	27.4	267
12.0	3	27.7	27.6	271
14.1	2	29·5	28.1	268

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	29	27.0	26.4	267
12.0	29	26.7	26.1	260
14·1	28	24.3	23.8	257
16.2	25	16.7	16.1	263
18.0	18	13.5	13.0	275
21.0	8	10.4	4.1	264

NEW DELHI/SAFDARJUNG

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	21	46.3	44.5	269
12.0	15	47·5	46.6	266
14.1	3	49·8	49.7	274

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	24	52.9	50.8	270
12·0	21	58.7	57.5	267
14.1	12	41.8	40.8	261
16·2	9	31.6	29.7	269
18·0	7	15.4	11.6	261
21·0	3	9.7	7.7	265

POONA

1730 hr.

Ht. in Km.	n	V	v	D
10.5	6	17.5	17.0	257
12.0	4	19.7	19.5	234
14.1	2	8.7	8.7	255

PORT BLAIR

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	19	8.6	3.3	111
12.0	14	9.7	5.1	162
14.1	1	14.5	14.5	130

1730 hr*

Ht. in Km.	n	V	v	D
10.5	14	7.7	3.4	110
12.0	11	6.9	5.5	173
14.1	5	13.4	12.4	163
16.2	2	22·0	22·0	164

TIRUCHIRAPALLI

0530 hr.

Ht. in Km.	n	V	v	D
10.5	3	8·0	7.1	130
12.0	1	4.5	4.5	090
14.1	1	12.0	12.0	090

1730 hr.

Ht. in Km.	n	V	v	D
10.5	13	7.8	6.3	112
12.5	13	9.5	8.6	133
14.1	10	14.7	13.6	133
16.2	8	14.2	11.1	125
18.0	7	7.9	4.9	095
21.0	3	6.5	6.5	264

TRIVANDRUM

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	27	9.3	7.9	105
12·0	25	13·8	11·8	121
14·1	24	17·1	16·6	122
16.2	23	11.1	7.5	102
18.0	14	9.4	7.2	080
21.0	6	9.4	8.9	258
24.0	1	9.0	9.0	265

1130 hr.

Ht. in Km.	n	V	v	D
10.5	17	10.1	9.0	101
12.0	15	13.4	12.5	124
14.1	12	18·3	17.4	138
16.2	8	15.3	14.0	120
18.0	2	10.5	9.1	118
21.0	2	9.7	7.9	293

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	25	10·6	9·7	102
12.0	24	12·5	11.3	133
14.1	24	16.9	14.8	130
16.2	19	10.1	7.6	110
18.0	15	6.5	2.4	127
21.0	6	11.2	5.5	252

VERAVAL

1730 hr.

Ht. in Km.	n	V	v	D
10.5	17	24.4	23.1	267
12.0	10	25.9	25.1	261
14.1	3	28.5	27.1	254
16.2	2	33.0	32.0	244
18.0	2	25.7	25.5	253
21.0	1	9.0	9.0	280

VIJAYWADA/GANNAVARAM

0530 hr.

Ht. in Km.	n	V	v	D
10.5	3	7.5	7.5	242
12.0	1	11.0	11.0	200

1730 hr.

Ht. in Km.	n	V	v	D
10.5	9	11.0	10.2	243
12.0	7	14.6	13.9	237
14.1	2	5.5	4.3	226

VISHAKHAPATNAM

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	25	13.9	12.3	260
12.0	24	15.9	14.5	245
14.1	23	15.0	13.7	228
16.2	18	9.6	7.8	238
18.0	12	6.6	5.3	268
21.0	4	5.7	3.4	286

1130 hr.

Ht. in Km.	n	V	v	D
10.5	4	13.1	12.8	255
12.0	2	15.0	13.9	256
14.1	2	17.5	17.0	247
16.2	2	8.0	7.3	218
18.0	2	2.3	1.8	152
21.0	2	4.5	3.9	250

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	29	14.4	13.2	259
12.0	28	15.8	14.1	244
14.1	26	16.4	15.5	237
16.2	23	12.0	10.5	229
18.0	14	8.5	6.8	252
21.0	4	6.3	5.3	261
24.0	1	4.5	4.5	025

RADIOSONDE DATA

January 1962 (Pausa 11—Magha 11, 1883 Saka)

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

LIST OF RADIOSONDE STATIONS IN INDIA

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

RADIOSONDE DATA

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

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

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1007 mb.)						ALLAHABAD/BAMRAULI (1003 mb.)						BANGALORE (849 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	285.3	289	280	276.5	31	098	281.4	287	278	279·1	30	921	288.4	294	285	286.4
1000	30	111	..	..	..	..	31	122	..	..	..	..	30	112	..	..	..	..
900	30	1011	289.0	294	283	271.3	31	1008	285.3	292	281	271.6	28	1019	288.3	291	285	285.3
850	30	1495	286.1	298	279	269.1	31	1486	283.3	290	278	267.6	28	1503	287.4	291	284	280.2
800	30	2002	283.5	288	275	265.2	31	1988	281.5	288	275	265.0	28	2014	286.2	289	275	273.8
700	30	3103	278.8	285	275	256 4	31	3083	276.9	283	271	256.8	28	3132	283.5	287	279	261.4
600	30	4349	272.3	278	265	246 8	31	4321	270.9	276	265	..	28	4399	276.8	280	273	256.3
500	30	5787	264.5	270	255	..	31	5749	263.5	268	259	..	28	5859	269.0	272	263	..
400	30	7486	254.4	260	247	..	31	7440	253.4	258	246	..	27	7585	258.1	264	254	..
300	30	9576	240.1	245	235	..	28	9514	242.6	250	237	..	26	9698	242.7	246	239	..
250	27	10837	231.4	237	224	..	24	10775	234.8	243	227	..	25	10971	232.6	239	225	..
200	25	12320	220.3	230	213	..	16	12306	224.3	230	218	..	23	12459	220.6	229	212	..
175	23	13161	213.5	221	206	..	16	13098	217.9	224	213	..	21	13287	212.3	227	205	..
150	22	14068	206.3	213	198	..	13	14156	212.2	217	206	..	21	14237	205.3	220	198	..
125	22	15190	200.4	206	194	..	11	15274	205.9	215	198	..	18	15291	198.7	206	193	..
100	21	16498	197.0	203	187	..	9	16643	202.7	207	196	..	18	16599	194.5	200	191	..
80	13	17777	197.4	207	191								17	17864	197.9	204	192	..
70	10	18627	199.6	207	193								14	18710	201.5	208	191	..
60	6	19473	204.0	211	195								14	19660	204.6	210	192	..
50	5	20555	208.0	214	199								11	20635	206.8	214	192	..
40		..	..	..	..								7	21989	211.4	216	200	..

	BOMBAY/SANTA CRUZ AERODROME (1010 mb.)						CALCUTTA/DUM DUM (1013 mb.)						GAUHATI (1009 mb.)					
Surface	31	013	288.9	295	282	284.6	31	006	283.9	290	280	282.8	31	049	282.7	289	280	281.7
1000	31	095	..	..	..	..	31	116	..	..	..	..	31	121	..	..	..	..
900	31	1006	292.7	296	287	272.9	31	1002	283.5	288	278	273.7	31	1003	283.4	288	279	278.2
850	31	1496	288.9	293	283	268.8	31	1477	281.1	288	278	270.3	31	1478	280.5	285	275	273.6
800	31	2010	287.2	290	280	265.1	31	1978	280.0	287	275	264.0	31	1975	277.4	282	272	270.3
700	31	3129	282.8	286	275	254.5	31	3070	277.2	283	271	259.8	31	3051	271.9	278	267	258.0
600	31	4395	276.3	280	273	247.6	31	4312	271.5	277	262	252.4	31	4269	267.4	271	263	..
500	31	5851	267.8	271	264	..	30	5747	264.4	271	257	..	31	5681	260.4	267	253	..
400	31	7572	257.2	262	251	..	29	7445	254.5	263	249	..	31	7355	251.6	259	243	..
300	27	9690	243.0	246	237	..	20	9529	242.5	249	237	..	21	9384	240.3	244	235	..
250	26	10965	233 6	237	226	..	13	10832	233.2	239	229	..	15	10676	232.3	237	226	..
200	24	12456	222.4	227	214	.	9	12332	224.5	231	219	..	11	12187	224.1	229	216	..
175	21	13325	216.8	220	209	..	7	12992	217·3	223	213	..	9	12942	218.2	226	217	..
150	19	14292	210.3	215	204	..	5	14087	209·5	213	207	..	7	13895	215.2	224	211	..
125	15	15399	203.7	209	198	..												
100	9	16730	199.2	204	197	..												
80	6	18069	200.2	205	194	..												

RADIOSONDE DATA

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

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

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR. Surf. Pr. (988·5 mb.)						MADRAS/MINAMBAKKAM (1010 mb.)						NAGPUR/SONEGAON (977 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	282·6	286	278	270.9	31	015	293.7	297	291	291.3	31	311	284.9	292	280	280.7
1000	31	121	..	..	..	..	31	102	..	..	..	..	31	118	..	..	..	..
900	31	1006	286.0	292	276	270.4	31	1008	289.8	296	285	282.6	31	1014	289.4	293	287	276.0
850	31	1484	283.1	288	272	268.4	31	1494	287.9	293	283	277.2	31	1498	286.7	289	283	273.7
800	31	1986	280.6	287	276	265.3	31	2007	287.0	291	283	269.5	31	2007	284.0	288	279	271.7
700	31	3079	276.0	282	272	259.1	31	3126	282.8	286	279	264.0	31	3113	280.2	284	274	258.2
600	31	4311	270.3	276	262	..	31	4392	276.4	280	273	255.3	31	4369	274.7	280	270	254·1
500	31	5718	262.3	267	255	..	30	5848	268.3	279	263	..	31	5817	266.8	271	262	..
400	30	7412	252.7	259	246	..	30	7567	257.4	263	252	..	31	7529	266.5	263	252	..
300	26	9510	241.0	252	234	..	29	9680	243.0	250	237	..	30	9636	241.9	248	236	..
250	18	10787	232.8	239	227	..	25	10946	232.7	240	225	..	30	10902	231.5	238	226	..
200	15	12279	221·8	227	209	..	20	12447	221.3	231	210	..	30	12383	220.3	226	214	..
175	11	13111	217.3	223	213	..	17	13293	214.7	227	204	..	29	13223	214·4	221	209	..
150	9	14125	213.0	218	204	..	13	14265	208.8	223	197	..	28	14193	207.6	215	202	..
125	7	15195	207.3	214	200	..	11	15367	202.3	209	192	..	28	15275	201.6	209	194	..
100	6	16543	201.7	207	197	..	9	16740	198.0	205	193	..	26	16606	196.4	204	181	..
80							6	17941	197·8	202	194	..	24	17910	197·4	204	190	..
70							6	18772	199.1	207	195	..	20	18699	199·3	205	192	..
60							6	19679	201.6	211	196	..	16	19645	203·5	209	195	..
50							6	20753	206.3	214	197	..	11	20759	207·7	218	199	
40							5	22072	209·0	217	201	..						

	NEW DELHI/SAFDARJUNG (990 mb.)						PORT BLAIR (1001 mb.)						TRIVANDRUM (1002 mb.)					
Surface	31	209	280.6	289	277	277.2	31	079	296.9	300	292	295.6	31	064	297·0	300	295	292.1
1000	31	122	..	..	..	..	31	088	..	..	..	..	31	077	..	..	..	..
900	31	1003	284.3	287	279	268.9	31	1003	292.2	295	289	290.0	31	995	292.0	295	289	286.2
850	31	1489	283.2	288	278	263.9	31	1494	290.1	294	286	286.4	31	1485	289.6	293	287	281.9
800	31	1982	280.5	289	275	261.1	31	2011	287.8	291	285	283.8	31	2001	287.5	291	283	276.0
700	31	3070	274.5	282	267	253.1	31	3131	282.4	287	279	277.1	31	3120	281.5	285	274	269.7
600	31	4295	267.4	273	263	..	31	4393	276.0	280	273	268.7	31	4382	275.4	278	271	260.3
500	31	5703	259.8	263	255	..	31	5858	268.3	273	265	..	31	5833	267.1	271	263	..
400	31	7368	249.5	255	243	..	31	7577	257.0	263	252	..	31	7547	257.6	269	251	..
300	31	9442	239.1	244	230	..	31	9661	241.6	250	233	..	29	9665	242.6	251	234	..
250	25	10709	232.6	238	229	..	31	10890	231.3	241	222	..	27	10916	231.8	239	224	..
200	20	12196	224.0	233	220	..	30	12380	219.5	229	209	..	25	12407	220·6	227	213	..
175	16	13045	219·0	225	212	..	28	13220	212.3	220	202	..	25	13243	213·9	223	208	..
150	14	14033	214.0	219	208	..	23	14226	206.4	216	198	..	25	14209	206·8	217	199	..
125	12	15118	209.5	218	203	..	20	15317	201.1	209	193	..	25	15277	200.8	208	194	..
100	10	16509	204.6	212	197	..	17	16628	196.8	203	190	..	25	16593	195·4	201	189	..
80							6	18118	199.0	205	192	..	19	17883	194·6	201	189	..
70							5	18694	199.0	209	193	..	17	18638	196.1	203	187	..
60													13	19748	198·5	202	189	..
50													10	20654	201.7	208	191	..
40													7	21986	205·1	213	195	..

RADIOSONDE DATA

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

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

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	292.1	296	289	288.2
1000	31	113	..	..	..	..
900	31	1019	289.3	291	285	278.3
850	31	1505	287.5	292	284	270.2
800	31	2017	286.7	290	281	261.4
700	31	3135	285.2	286	277	257.2
600	31	4401	276.7	281	268	251.3
500	31	5861	268.6	272	261	..
400	31	7587	258.5	263	253	..
300	29	9707	242.6	251	233	..
250	26	10977	232.5	239	227	..
200	25	12464	220.8	228	213	..
175	24	13319	214.1	221	209	..
150	24	14265	207.0	214	193	..
125	21	15335	200.8	207	189	..
100	23	16648	194.7	207	187	..
80	19	17945	196·8	205	191	..
70	16	18744	200.2	208	191	..
60	13	19700	201.8	213	190	..
50	9	20771	204·8	212	190	..
40	6	22049	208·5	219	190	..

RADIOSONDE DATA

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

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

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1006 mb.)						ALLAHABAD/BAMRAULI (1002 mb.)						BANGALORE (908 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	300.0	303	288	278.7	31	098	292.8	295	287	281.4	29	921	298.6	301	294	283.7
1000	30	105	..	..	..	..	31	116	..	..	..	..	29	072	..	..	..	..
900	30	1020	289.9	294	284	273.3	31	1013	286.7	291	283	273.7	29	1002	297.5	302	293	282.7
850	30	1505	286.3	291	282	269.6	31	1492	284.5	288	280	267.7	29	1497	292.2	296	286	280.6
800	30	2012	283.3	289	277	265.6	31	1997	282.5	289	277	262.3	29	2014	288.2	291	285	277 8
700	30	3115	278.9	286	268	258.2	31	3094	277.6	283	270	246.7	29	3133	282.8	287	279	266.2
600	30	4361	272.1	278	266	254.3	31	4335	271.9	276	261	256.2	28	4400	277 0	281	272	255.1
500	30	5795	264.3	270	258	..	31	5767	263.7	270	255	..	28	5858	268.7	273	265	..
400	30	7490	253.4	258	246	..	30	7458	254.4	260	247	..	28	7579	257.7	263	254	..
300	27	9574	239.6	246	234	..	27	9558	243.1	250	238	..	26	9688	242.3	250	236	..
250	27	10829	229.5	234	221	..	26	10832	234.3	241	228	..	26	10952	231.1	242	221	..
200	25	12299	218.1	225	210	..	22	12326	224.5	233	219	..	23	12425	219.4	231	209	..
175	22	13143	211.7	218	204	..	20	13195	218.9	227	214	..	22	13259	212.5	222	204	..
150	19	14075	205.2	214	196	..	18	14179	213.3	222	207	..	19	14233	206.1	215	197	..
125	16	15127	199.6	206	191	..	14	15235	207.0	214	199	..	16	15311	200.1	206	193	..
100	15	16442	197.1	204	189	..	10	16599	202.2	209	196	..	15	16652	195.3	200	191	..
80	12	17718	198.2	204	188	..	8	17937	203.6	211	196	..	14	17944	197.2	205	192	..
70	8	18527	201.1	208	191	..	6	18770	206.5	215	198	..	11	18757	198.5	208	192	..
60	..	..	..	..	..	..	..	..	..	..	..	..	11	19642	202.3	212	197	..
50	..	..	..	..	..	..	..	..	..	..	..	..	8	20687	208.6	218	200	..
40	..	..	..	..	..	..	..	..	..	..	..	..	6	22033	208.5	211	202	..

	BOMBAY/SANTA CRUZ AERODROME (1009 mb.)						CALCUTTA/DUM DUM (1012 mb.)						GAUHATI (1007 mb.)					
Surface	31	013	300.0	302	295	286.9	31	006	294.5	300	289	285.1	30	049	291.7	296	287	285.8
1000	31	089	..	..	..	..	31	106	..	..	..	..	30	106	..	..	..	..
900	31	1011	294.4	299	288	274.0	31	1012	289.2	294	285	275.8	30	1006	286.8	291	283	279.1
850	31	1503	291.0	293	284	268.7	31	1495	285.9	290	282	270.4	30	1483	283.4	289	279	275.8
800	31	2020	288.4	292	282	263.9	31	2002	283.8	290	278	267.8	30	1985	280.1	287	275	272.9
700	31	3142	283.6	287	279	254 6	31	3110	280.6	285	276	260.2	30	3070	274.0	280	269	261.8
600	31	4411	277.0	281	273	246.2	30	4366	274.8	279	269	256.1	30	4297	268.7	273	263	..
500	30	5870	268.1	272	265	..	29	5821	267.3	273	262	..	30	5717	262.6	268	254	..
400	30	7593	258.2	264	253	..	27	7539	257.9	263	251	..	30	7405	253.2	258	245	..
300	30	9712	243.4	250	235	..	21	9660	244.3	251	239	..	20	9497	242.1	248	233	..
250	28	10989	233.6	238	231	..	16	10954	235.9	243	231	..	14	10752	233.4	241	229	..
200	27	12480	222.4	229	218	..	15	12470	226.2	233	221	..	10	12262	223.8	227	218	..
175	25	13328	215.3	220	200	..	7	13386	220.0	228	215	..	..	..	..	..	..	..
150	17	14275	208.1	211	205	..	5	14380	215.0	221	210	..	..	..	..	..	..	..
125	14	15372	202.0	207	195	..	..	..	..	..	..	..	..	..	..	..	..	..
100	13	16673	196.6	204	192	..	..	..	..	..	..	..	..	..	..	..	..	..
80	6	17894	196.3	199	191	..	..	..	..	..	..	..	..	..	..	..	..	..
70	5	18680	199.2	203	191	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

January 1962 (Pausa 11—Magha 11, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (988 mb.)						MADRAS/MINAMBAKKAM (1009 mb.)						NAGPUR/SONEGAON (976 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	295.7	298	289	274.1	31	015	298.5	300	296	291.0	31	311	298.4	302	292	281.9
1000	31	108	..	..	..	..	31	096	..	..	..	..	31	097	..	..	..	..
900	31	1015	289.0	294	281	271.3	31	1010	291.7	296	288	284.4	31	1015	292.5	295	289	276.7
850	31	1499	285.6	291	280	267.6	31	1499	289.6	293	284	278·4	31	1504	288.5	292	285	275 0
800	31	2005	282.5	287	278	264.4	31	2016	288.6	293	285	273.7	31	2015	284.8	288	281	270.7
700	31	3102	277.2	283	269	256.3	31	3140	284.3	288	281	263.0	31	3124	280.7	284	275	259.0
600	30	4347	272.0	278	263	253.7	30	4412	277.4	283	273	257.4	31	4381	274.6	279	271	250.1
500	30	5779	264.0	279	254	..	30	5873	268.9	273	262	..	31	5828	266.4	270	263	..
400	29	7483	254.0	259	246	..	30	7598	258.1	265	250	..	31	7539	256.0	264	252	..
300	20	9567	242.5	247	236	..	27	9713	242.9	249	239	..	31	9644	241.9	248	236	..
250	18	10839	236.1	243	227	..	24	10989	232.8	239	227	..	30	10914	231.6	234	228	..
200	14	12330	225.4	227	212	..	23	12483	221.2	228	215	..	30	12392	220.2	225	216	..
175	12	13199	219.9	227	212	..	20	13318	213.9	221	207	..	30	13238	214.0	220	209	..
150	10	14205	215.5	225	105	..	16	14276	207.1	216	200	..	30	14196	206.9	213	202	..
125	5	15382	206.8	213	201	..	13	15329	200.3	209	195	..	29	15271	201.0	206	195	..
100	..	..	..	..	..	..	10	16618	197.0	202	192	..	28	16586	196.0	202	188	..
80	..	..	..	..	..	..	8	17892	197·6	205	189	..	25	17883	197.8	206	189	..
70	..	..	..	..	..	..	8	18677	198.8	207	188	..	20	18699	199.3	208	191	..
60	..	..	..	..	..	..	6	19554	202.3	209	189	..	17	19606	203.1	213	195	..
50	..	..	..	..	..	..	6	20643	206.2	214	192	..	15	20675	206.3	216	196	..
40	5	..	..	..	..	..	..	..	..	..	..	..	9	21106	210.0	222	197	..

	NEW DELHI/SAFDARJUNG (989 mb.)						PORT BLAIR (1000 mb.)						TRIVANDRUM (1000 mb.)					
Surface	31	209	291.8	294	289	279.8	31	079	298.8	300	297	295.8	31	064	301.8	303	301	293.9
1000	31	114	..	..	..	..	31	079	..	..	..	..	31	067	..	..	..	..
900	31	1007	285.5	291	281	271.6	31	997	292.3	295	289	291.0	31	993	293.5	297	288	287.5
850	31	1484	282.2	288	277	265.9	31	1488	290.0	293	287	287.5	31	1486	290.4	294	287	284.9
800	31	1986	280.4	288	272	262.5	31	2004	287.7	290	283	284.2	31	2002	287.6	290	284	278.9
700	31	3074	274.8	282	266	256.0	31	3126	282.6	285	279	276.4	31	3124	283.2	287	277	270.3
600	31	4298	267.6	273	259	..	31	4392	276.5	280	271	268.0	31	4393	276.5	280	271	259.7
500	31	5707	259.5	266	253	..	30	5852	268.3	273	263	..	31	5852	268.3	273	264	..
400	31	7373	249.5	255	244	..	30	7575	257.7	263	253	..	31	7575	258.1	263	253	..
300	27	9444	238.7	247	231	..	30	9687	242.0	249	235	..	28	9692	243.6	251	235	..
250	21	10699	231.3	236	224	..	27	10956	232.5	239	224	..	25	10951	233.4	241	225	..
200	17	12194	223.5	233	219	..	26	12446	219.7	229	209	..	24	12440	221.4	227	213	..
175	15	13046	218.8	229	214	..	20	13313	213.2	220	206	..	24	13285	214.9	221	208	..
150	9	14007	215.7	224	210	..	19	14246	206.1	215	197	..	24	14247	207.0	213	201	..
125	7	15166	211.9	218	205	..	16	15357	199.5	208	193	..	24	15318	201.3	207	192	..
100	6	16520	206.8	210	203	..	14	16653	196.2	202	190	..	21	16652	198.4	203	191	..
80	..	..	..	..	..	..	7	17878	196.0	201	193	..	19	17969	198.6	207	184	..
70	..	..	..	..	..	..	7	18710	197.8	205	193	..	18	18736	199.9	211	186	..
60	..	..	..	..	..	..	..	..	..	..	..	..	13	19610	201.0	210	189	..
50	..	..	..	..	..	..	..	..	..	..	..	..	11	20742	205.5	215	194	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22194	209.4	215	203	..

RADIOSONDE DATA

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

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

January 1962 (Pausa 11—Magha 11, 1883 Saka)

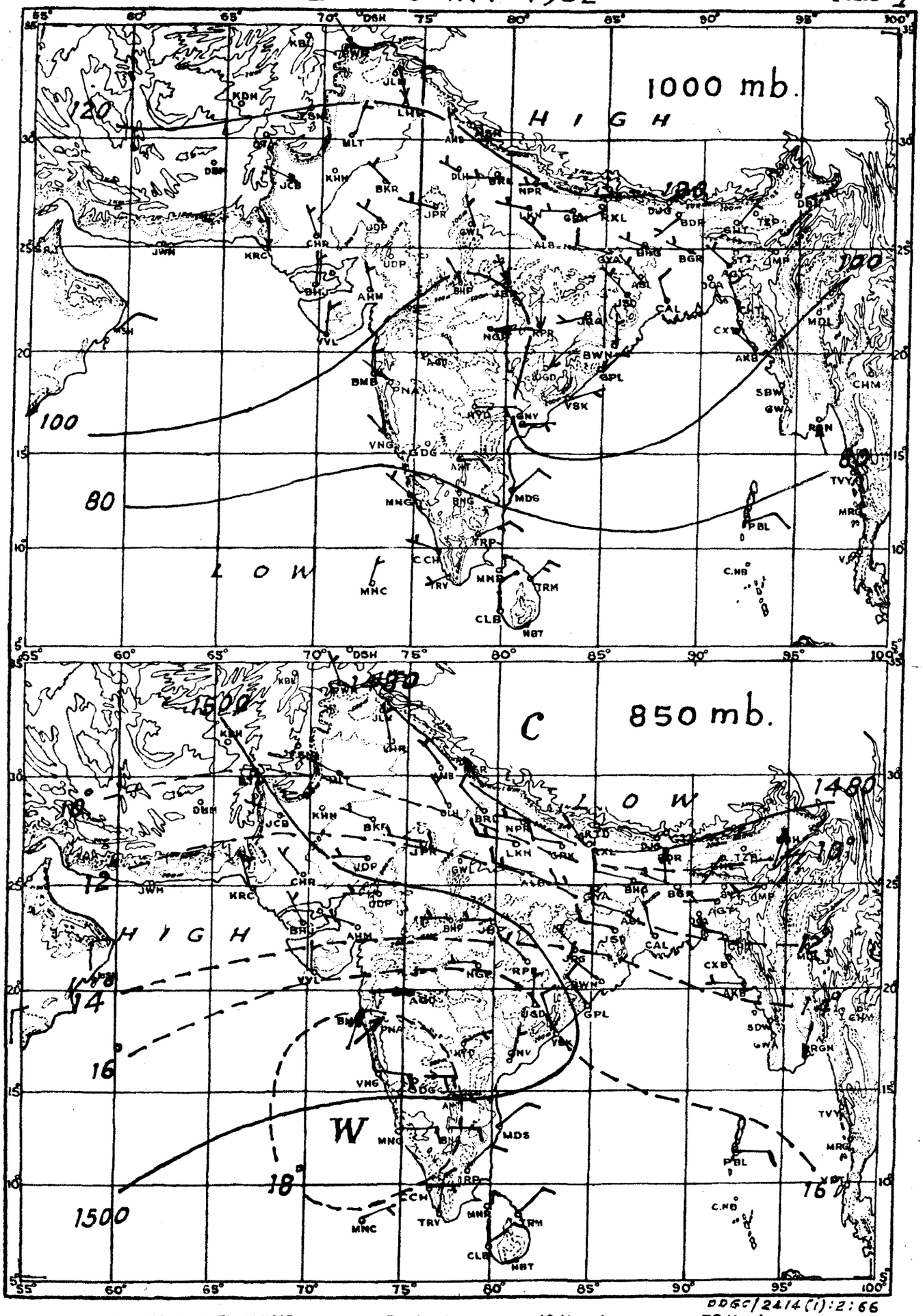
Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (996 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	297.4	299	296	289.7
1000	31	105	..	..	..	..
900	31	1017	290.3	293	287	279.7
850	31	1504	288.5	293	284	272.9
800	31	2016	286.6	290	281	269.1
700	31	3134	282.8	287	277	260.4
600	31	4399	276.5	281	271	257.9
500	31	5859	269.0	274	263	..
400	31	7584	257.8	263	254	..
300	31	9700	243.3	250	237	..
250	30	10971	232.5	240	224	..
200	29	12450	220.4	227	211	..
175	27	13285	214.2	225	203	..
150	26	14259	207.8	218	197	..
125	26	15330	201.2	210	191	..
100	25	16657	195.2	207	185	..
80	17	17964	194.9	205	192	..
70	14	18770	197.1	204	192	..
60	10	19651	201.0	208	194	..
50	9	20718	206.2	215	202	..
40	5	22194	209.0	214	206	..

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

GIPN—S4—565 D. G. Obs. P/65—9-3-66—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. — JANUARY 1962 — Plate I



DDGC/2414(1):2:66

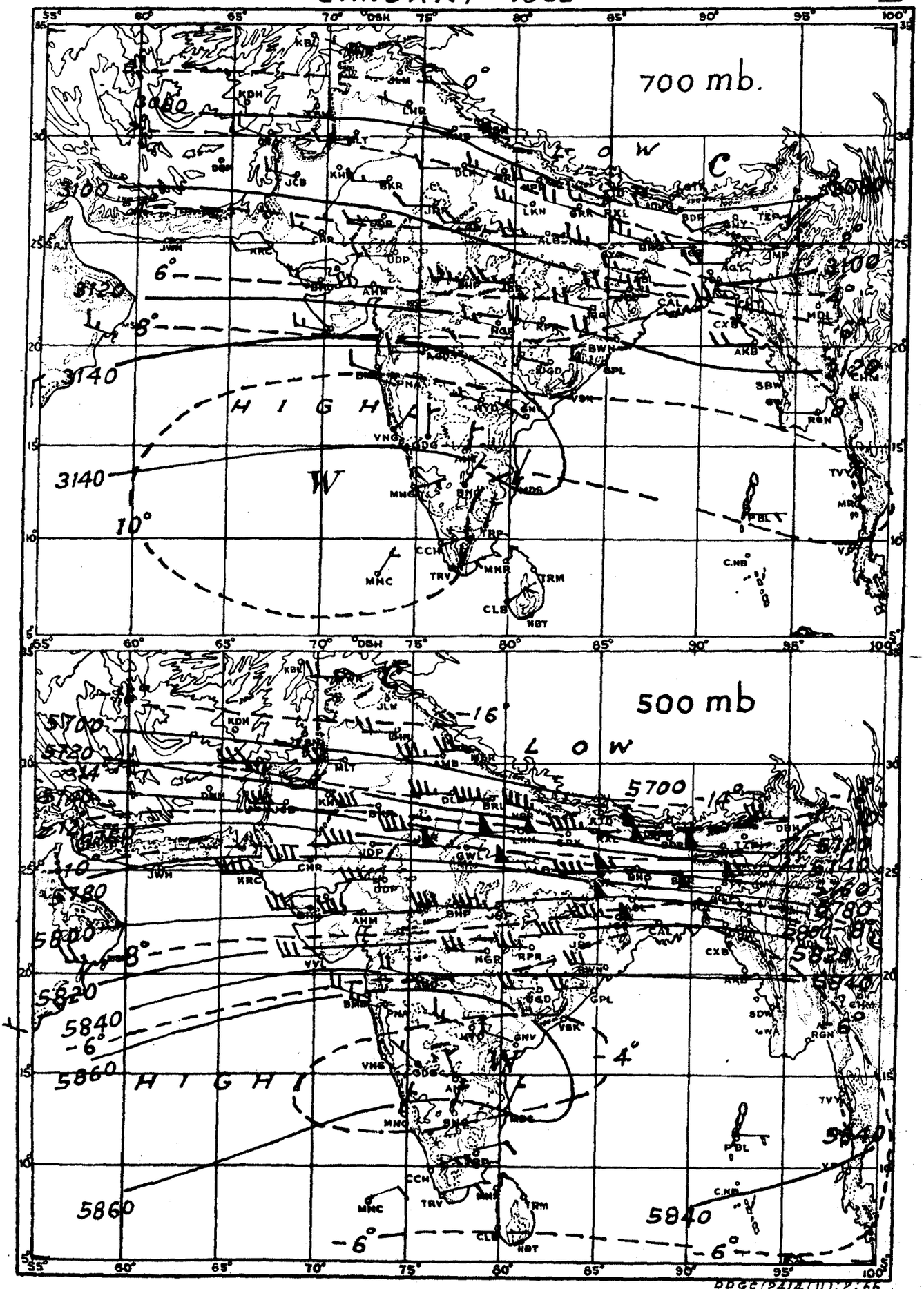
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

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

G.P.Z.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. JANUARY 1962 *Plate II*



DDGC/2414(11):2:66

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

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

G.P.E.P. POONA, 1963

Registered No. MH-75

INDIA WEATHER REVIEW, 1962

Monthly Weather Report

February

Published by authority of the Government of India

Chief features:—

(i) Passage of a series of western disturbances, most of them feeble, in quick succession and

(ii) mild winter conditions.

A western disturbance that moved across Rajasthan between 31st January and 1st February caused scattered rain or snow in west Uttar Pradesh and the Punjab (I) on 1st and 2nd. Scattered or local thundershowers occurred in east Rajasthan on 5th and in Madhya Pradesh between 5th and 7th, in association with an upper air through which appeared over north Gujarat State and neighbourhood on 4th and moved away slowly eastwards.

Another western disturbance lay over north Baluchistan and Afghanistan on 6th and was over north Rajasthan and the adjoining Punjabs on 7th. It lay over Uttar Pradesh and north Madhya Pradesh on 8th and moved away eastwards across Assam by 10th. It caused a good spell of rain or snow over the Western Himalayas and well distributed rainfall over northeast India on 8th and 9th. Dharamsala reported 5 cm of rain on 8th. The disturbance was quickly followed by another which lay over Rajasthan and the Punjabs on 9th and moved away across the Western Himalayas by 12th, after causing there a few showers of rain or snow on 11th and 12th.

A fresh western disturbance lay over west Rajasthan and adjoining Sind on 15th and over the Punjabs on 16th As it progressed eastwards, it became more active and also extended southwards as a trough. On 18th it lay over west Uttar Pradesh with a trough extending to north Interior Mysore. It weakened as it moved further eastwards and became unimportant by 20th. The disturbance caused local thundershowers in the Western Himalayas from 16th to 19th. Thundershowers also occurred at some places in west Madhya Pradesh, Vidarbha and Andhra Pradesh on 18th and 19th and in northeast India outside Assam on 19th and 20th. The chief amounts of rainfall reported were: Banihal 6 cm and Srinagar 4 cm on 17th and Mussoorie 5 cm and Umaria 4 cm on 18th. A severe hailstorm is reported to have hit Patna and neighbourhood on 19th and caused heavy damage to crops and houses.

In association with a feeble upper air trough that developed over southeast Madhya Pradesh on 22nd and moved away across Assam on 24th, local showers occurred in Bihar Plateau on 22nd and scattered showers in West Bengal on 23rd and in Assam on 24th and 25th.

The last western disturbance of the month moved into north Rajasthan and the Punjab (P) on 23rd and intensified by 24th. It weakened thereafter, had a slow easterly course and moved away across Assam by the end of the month. The disturbance caused a good spell of rain or snow over the Western Himalayas between 24th and 26th. Widespread thunderstorms also occurred over east Uttar Pradesh on 25th and over most parts of northeast India on 26th and 27th.

Good thunderstorm activity and prevailed over the Peninsula between 18th and 22nd and continue over Kerala and the Madras State till 27th. The principal amounts of rainfall reported were : Palayamkottai 6 cm on 19th, Hanamkonda 8 cm on 20th, Coonoor 9 cm on 21st, Kodaikanal 7 cm and Coonoor 6 cm on 22nd and Trivandrum 11 cm and Mangalore 7 cm on 24th.

Night temperatures were below normal in Orissa during the first week, in west Madhya Pradesh between 2nd and 4th and in north Maharashtra State and adjoining west Madhya Pradesh on a few days towards the end of the month. Otherwise they were generally normal or above normal over the country during the month, being appreciably above normal in the Punjab (I), Rajasthan and west Uttar Pradesh between 10th and 12th.

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1—556 D.D.G. Obs. P./65

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

The mean maximum temperature was above normal in Assam, Jammu and Kashmir, east Rajasthan, the Konkan and coastal Mysore, below normal in Orissa, coastal Andhra Pradesh, Telangana and Rayalaseema and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in the Bay Islands, Assam, Sub-Himalayan West Bengal, Uttar Pradesh, the Punjab(I), and Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Uttar Pradesh, the Punjab(I), Rajasthan, Madhya Pradesh, Saurashtra and Kutch and Rayalaseema and below normal in coastal Mysore. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in the Bay Islands, Sub-Himalayan West Bengal, west Madhya Pradesh, Madhya Maharashtra, the Madras State, the Interior Mysore State and the Arabian Sea Islands, below normal in Gangetic West Bengal and normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,

The 1st May, 1962.

R. ANANTHAKRISHNAN,

for *Director General of Observatories.*

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	35·3	89	25·9	13·3	76	60	2·8	2·6
	−4·3		+1·3	+1·7	−3		−0·5	
2. West Bengal	13·7	61	27·7	15·1	71	52	1·6	1·9
	−8·9		−0·2	+0·6	+1		−0.3	
3. Orissa	6·5	27	28·6	16·6	71	54	1·9	1·9
	−17·2		−1·3	−0·5	+2		+0	
4. Bihar	10·4	43	26·4	12·9	70	51	1·9	1·9
	−13·9		+0·2	+0·5	+4		0	
5. Uttar Pradesh	15·2	73	24·7	11.7	80	53	2·0	2·4
	−5·5		−0·4	+1·5	+11		0	
6. Punjab (India) (Including Himachal Pradesh, Delhi)*	27·4	129	23·1	9·9	81	55	2·9	3·2
	+6·1		+0·1	+1·5	+9		+0·4	
7. Jammu and Kashmir	56·1	119	12·1	0·1	70	55	5·7	5.6
	+8·9		+2·9	+1·1	+1		0	
Sub-Division								
1. Bay Islands	13·6	48	30·1	22·9	68	74	3·5	3·5
	−14·6		+0·4	+1·5	−3		+0·6	
2. Assam (Including Manipur, Tripura)	35·3	89	25·9	13·3	76	60	2·8	2·6
	−4·3		+1·3	+1·7	−3		−0·5	
3. Sub-Himalayan West Bengal	12·0	79	25·8	13·2	76	56	2·0	2.4
	−3·2		−0·2	+1·4	+2		+0·4	
4. Gangetic West Bengal	14·3	57	28·3	15·7	69	51	1·5	1·7
	−10·9		−0·2	+0·3	+1		−0·5	
5. Orissa	6·5	27	28·6	16·6	71	54	1·9	1·9
	−17·2		−1·3	−0·5	+2		0	
6. Bihar Plateau	20·0	54	26·9	13·2	68	45	1·7	2·0
	−16·9		+0·1	+0·2	+4		−0·3	
7. Bihar Plains	4·6	28	26·3	12·7	72	56	2·1	1·8
	−12·1		+0·3	+0·7	+4		+0·3	
8. Uttar Pradesh (East)	14·7	87	25·1	12·1	82	54	2·1	2·1
	−2·2		−0·8	+1·3	+12		+0·3	
9. Uttar Pradesh (West)	15·9	61	24·1	11·1	77	51	1·9	2·8
	−10·2		0	+1·6	+9		−0·4	
10. Punjab (India) (Including Delhi).	27·4	129	23·1	9·9	81	55	2·9	3·2
	+6·1		+0·1	+1·5	+9		+0·4	
11. Himachal Pradesh	96·0	..	19·7	6·2	89	55	4·5	5·0
	..		..	..	..	..	..	
12. Jammu and Kashmir	56·1	119	12·1	0·1	70	53	5·7	5·6
	+8·9		+2·9	+1·1	+1		0	
13. Rajasthan (West)	0·5	8	27·3	11·5	65	29	2·1	2·1
	−5·5		+0·9	+1·0	+7		−0·3	
14. Rajasthan (East)	1·2	24	27·5	11·3	60	28	1·7	2·0
	−3·9		+1·1	+0·3	+10		0	
15. Madhya Pradesh (West)	12·2	169	28·3	12·1	61	31	1·8	1·9
	+5·0		−0·1	+0·2	+10		+0·3	
Division—(contd.)								
8. Rajasthan	0·9	16	27·4	11·4	62	29	1·9	2·0
	−4·7		−1·0	+0·6	+9		−0·1	
9. Madhya Pradesh	18·7	137	28·4	12·6	64	33	1·8	2·1
	+5·1		−0·1	+0·3	+8		+0·2	
10. Gujarat State	0	0	31·1	15·0	63	37	1·2	1·1
	−1·7		+0·9	+0·6	+5		0	
11. Maharashtra State	1·7	41	32·2	16·7	54	33	1·2	1·6
	−2·4		+0·6	+0·3	0		+0·1	
12. Andhra Pradesh	18·8	196	31·0	19·3	71	46	1·9	1·8
	+9·2		−1·4	−0·1	+2		−0·1	
13. Madras State	19·4	124	30·6	21·9	79	60	4·4	3·7
	+3·7		−0·6	+0·8	0		+1·5	
14. Mysore	8·3	218	31·5	18·5	65	39	2·5	3·0
	+4·5		−0·3	+0·5	+1		+0·9	
15. Kerala	82·6	375	32·0	23·3	75	67	3.2	3·4
	+60·6		−0·6	−0·2	−2		+0·5	
Sub-Division—(contd.)								
16. Madhya Pradesh (East)	27·0	124	28·7	13·2	68	37	1·8	2·5
	+5·2		0	+0·3	+6		+0·2	
17. Gujarat Region	0	0	32·9	14·8	57	22	1·1	1·1
	−1·5		+0·9	+0·5	0		0	
18. Saurashtra and Kutch	0	0	29·9	15·2	66	45	1·3	1·1
	−1·8		+0·9	+0·7	+8		0	
19. Konkan	0	0	31·2	19·5	67	62	1·2	1·0
	−0·8		+2·0	+0·4	−1		0	
20. Madhya Maharashtra	0·9	47	33·3	15·1	47	22	1·2	1·8
	−1·0		+0·5	+0·6	−2		+0·3	
21. Marathwada	0	0	32·5	15·8	39	21	1·3	2·2
	−5·3		+0·3	+0·3	−2		+0·2	
22. Vidarbha	4·8	48	31·7	16·2	55	27	1·3	1·7
	−5·2		−0·4	−0·2	+4		−0·2	
23. Coastal Andhra Pradesh	13·8	115	29·9	19·6	75	59	2·0	1·9
	+1·8		−1·5	−0·8	−2		−0·3	
24. Telangana	36·2	141	31·4	18·5	68	34	2·2	1·5
	+27·3		−1·3	+0·5	+5		+0·1	
25. Rayalaseema	1·4	27	32·9	19·9	65	35	1·5	2·2
	−3·7		−1·1	+0·4	+6		+0·2	
26. Madras State	19·4	124	30·6	21·9	79	60	4·4	3·7
	+3·7		−0·6	+0·8	0		+1·5	
27. Coastal Mysore	24·4	244	32·5	21·0	69	60	1·8	2·1
	+23·4		+1·4	+0·1	−6		−0·2	
28. Interior Mysore (North)	5·5	108	32·0	18·3	55	29	1·9	2·6
	+0·4		−0·6	+0·3	+1		+0·9	
29. Interior Mysore (South)	3·8	95	30·6	17·7	72	38	3·4	3·9
	−0·2		−0·8	+0·8	+5		+1·4	
30. Kerala	82·6	375	32·0	23·3	75	67	3·2	3·4
	+60·6		+0·6	−0·2	−2		+0·5	
31. Arabian Sea Islands	0	0	31·3	23·1	79	67	3·5	4·1
	−9·9		+0·9	−1·0	+5		+0·7	

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya bandar	29·3	..	31·4	24	21·9	..	17·4	27	6·6	42·8	..	42·8	17	1	..	14·8	10·7	..	0	1	0	0	0	0	0	0	0	0	0
Long Island	29·5	..	30·6	22	22·4	..	18·6	27	0	3·1	..	3·1	16	1	..	5·1	3·4	..	0	1	0	0	0	0	0	0	0	0	0
Port Blair	30·1	+0·4	30·9	26	22·9	+1·5	18·9	27	9·8	13·6	−14·6	6·8	17	3	+1·0	10·1	9·4	−2·0	0	4	0	0	1	4	0	0	0	0	0
Car Nicobar	29·4	..	30·2	22	24·0	..	18·1	28	1·4	6·6	..	3·2	17	1	..	9·9	6·7	..	0	3	0	0	0	0	0	0	0	0	0
Nancowry	31·8	..	32·8	12	24·5	..	22·3	21	0	2·2	..	2·2	1	0	..	0.6	0·3	..	0	1	0	0	0	0	0	0	0	0	0
Kondul	28·1	..	29·4	25	25·9	..	23·9	23	0·1	0·1	..	0·1	12	0	..	..	..	..	1	0	0	0	1	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	24·9	..	29·4	22,23	14·7	..	11·9	9	23·5	87·1	..	29·4	28	5	..	8·6	12·7	..	0	6	0	0	2	0	0	0	0	0	0
Dibrugarh (Mohanbari)	25.3	+2.5	29.3	22	12·0	+0·6	7·8	4	6·9	75·3	+13·3	33·8	28	4	−2·2	5·7	3·2	−0·1	1	8	0	2	8	2	0	0	0	0	0
Dibrugarh	25·9	+3·1	29·5	22	13·4	+0·8	10·0	8	3·5	65·4	+3·4	28·2	26	5	−1·2	0·7	0·5	−1·1	0	7	0	0	2	0	0	0	0	0	0
Digboi (R)																													
North Lakhimpur	25·3	+1.9	36·8	6	12·1	+0·4	7·5	1	16·3	82·7	+28·5	20·3	25	7	+0·8	5·4	3·1	..	0	10	0	0	3	0	0	0	0	0	0
Sibsagar	25·5	+2·7	29·4	22	12·9	+0.9	8·9	1	6·4	39·3	−12·0	16·0	28	4	−1·2	4·2	2·9	0	0	5	0	0	2	0	0	0	0	0	0
Gohpur	25·8	..	28·8	16	10·3	..	7·2	1, 14	18·2	31·2	..	12·8	8	4	..	3·0	3·0	..	0	5	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	0	23·1	..	22·1	8	1	..	6·3	2·6	..	0	2	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	25.3	..	29·7	22	12·6	..	8·4	1	2·0	21·5	..	10·9	28	4	..	..	..	..	0	5	0	0	7	5	0	0	0	1	0
Tangla	27·3	..	30·2	4days	12·3	..	5·9	3	2·0	9·5	..	4·0	8	1	..	0·3	0·1	..	0	3	0	0	0	0	0	0	0	0	0
Tezpur	25·9	+1·2	29·4	21,22	15·9	+2·6	11·2	1	10·4	26·3	−1·1	9·2	26	4	+1·3	5·5	4·1	+0·4	2	5	0	0	1	0	0	0	0	0	0
Golaghat	25·7	..	30·0	17	13·0	..	8.9	1	4·0	30·2	..	10·6	28	5	..	..	(d)	..	0	6	0	0	0	0	0	0	0	0	0
Rangia	27·0	..	30·6	20	12·0	..	8·8	2	0	36·5	..	14·0	7,25	3	..	..	3·1	..	0	3	0	0	0	0	0	0	0	0	0
Chaparmukh	27·3	..	30·6	20	13·2	..	9·7	1, 21	0	1·6	..	1·6	8	0	..	5·8	4·5	..	0	1	0	0	0	0	0	0	0	0	0
Goalpara	27·5	..	30·6	24	12·7	..	9.1	1	0	8·0	..	5·4	9	2	..	4·3	2·3	..	0	2	0	0	0	0	0	0	0	0	0
Gauhati	26·5	+0·9	29.7	21	14·8	+2·7	10·8	1	0	16·4	−13·3	13·4	8	1	−1·6	0	0	−2·4	0	3	0	0	0	2	0	0	0	0	0
Gauhati (Bhorjor)	26·6	+1.0	29·9	22	12·4	+2·2	7·8	1	1·1	10·7	−19·0	7·6	8	1	−1·6	6·4	3·9	..	0	3	0	0	3	2	0	0	0	0	0
Dhubri (Rupsi)	27·1	..	29·9	22	12·0	..	9·8	2	3·4	4·6	..	4·6	9	1	..	6·2	3·1	..	0	1	0	0	2	0	0	0	0	0	0
Dhubri	25·9	+0·9	29·4	23	15·5	+2·1	12·8	10	3·6	13·7	−5·1	8·6	9	2	+0.5	4·8	4·0	−1·6	0	2	0	0	2	0	0	0	0	0	0
Lumding	26·5	+1·4	29·8	19	15·6	+5·4	11·6	1	22·0	40·2	+7·2	28·6	9	2	−1·0	3·0	1·4	..	0	4	0	0	0	0	0	0	0	0	0
Tura	26·3	..	29·4	19	12·9	..	8·9	10	0	5·3	..	4·3	8	1	..	5·3	5·7	..	0	2	0	0	0	0	0	0	0	0	0
Haflong	23·7	..	27·1	19	13·2	..	10·4	1	4·0	20·0	−18·9	8·6	9	3	−0·3	..	..	..	0	3	0	0	0	1	0	0	0	0	0
Silchar (Kumbhirgram)	27·9	.	31·3	21	13·7	..	10·4	1	1·2	42·5	..	25·0	27	3	..	6·2	7·9	..	0	4	0	0	5	0	0	0	0	0	0
Silchar	25·2	−1·8	30·6	20	14·1	+0·9	10·8	1	5·2	36·9	−11·1	24·8	27	2	−1·6	2·3	1·1	−1·3	0	4	0	0	4	0	0	0	0	0	0
Imphal (Tulihal)	23·8	+1·0	27·2	21,22	8·1	+1.6	5·1	1	4·4	26·7	−4·4	10.0	26	5	+2·3	8·0	4·6	−2·1	1	5	0	1	2	2	0	0	0	0	0
Kailashahar	28·6	.	31·1	21,22	12·2	..	7·2	1	12·1	63·2	..	44·1	27	3	..	3·0	1·5	..	0	4	0	1	5	0	0	0	0	0	0
Agartala	28·8	+0·3	31·6	27	13·4	+0·1	8·7	2	0·3	5·1	−23·5	2·8	9	1	−0·7	7·8	4·0	−1·1	0	3	0	0	3	1	0	0	0	1	0
Sub-Himalayan (West Bengal)																													
Baghdogra	26·4	−0·2	29·3	22	11·5	+0.6	8·1	1	0·1	8·1	+5·8	8·0	8	1	+0·8	10·0	8·0	+3·2	1	1	0	0	4	0	0	0	0	0	0
Jalpaiguri	23·5	−1·4	26·7	19	13·9	+1·8	10·3	9	2·6	19·8	+2·8	11·8	8	3	+1·6	6·6	4·8	+2·7	0	3	0	0	3	0	0	0	0	0	0
Cooch Behar	26·5	..	29·8	21	12·1	..	9·5	1	1·6	18·0	−2·6	14·4	8	2	+0·2	5·5	2·9	..	0	3	0	0	1	1	0	0	0	1	0
Balurghat	28·7	..	31·5	27	12·2	..	8·5	1	0	11·0	..	10·8	8	1	..	5·3	3·4	..	1	2	0	0	0	0	0	0	0	0	0
Malda	27·4	+1·1	31·1	27	14·1	+1·8	11·3	1	0	2·2	−18·9	1·6	20	0	−1.7	(e) 7·4	5·3	+0·6	0	2	0	0	2	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	28·1	+0·6	33·4	27	13·0	−0·6	10·6	1	16·3	23·6	+2·5	17·3	9	2	+0·3	4·2	2·4	0	0	3	0	0	0	12	0	0	0	0	0
Suri	28·1	..	32·7	27	15·4	..	11·2	1	..	12·4	..	7.0	9	1	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Asansol	27·7	−0·2	31·7	27	15·1	+1·0	11·2	1	22·6	29·6	−2.1	22·6	9	2	−0·5	8·2	(d) 5·5	−0·3	0	3	0	0	2	0	0	0	0	2	0
Shanti Niketan	28·3	..	32·5	27	14·4	..	10·1	1	3.0	17·3	..	11·4	20	2	..	5·7	5·4	..	0	4	0	0	2	1	0	0	0	0	0
Krishnanagar	29·3	+1·1	32·8	18,27, 28	14·7	+1.5	11·1	1	1·0	9·0	−20·2	6·0	26	2	+0·2	1·4	0·9	−1·8	0	2	0	0	1	0	0	0	0	0	0
Purulia	27·1	−1·9	31·7	27	15·0	−0·3	10·4	1	0	8·6	−4·5	8·6	8	1	−0·5	5·4	3·5	−0·2	0	1	0	0	1	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	12·8	−16·2	6·6	9	2	−0·1	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Burdwan	29.2	+0·7	33·7	27	15.7	+1·0	11·1	1	0	2·6	−30·9	2·6	8	1	−1·0	(d) 4·4	(e) 3·1	+0·7	0	1	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	28.4	..	31·7	19,26, 27	14·5	..	8·9	1	3·6	30·1	..	15·0	27	4	..	..	..	..	0	4	0	0	3	7	0	0	0	0	0
Calcutta (Dum Dum)	29·2	0	31·8	19	14·9	−0·3	9·8	1	0	6·2	−9·9	2·8	27	1	−0·5	6·5	3·6	−1.5	0	3	0	0	2	11	0	0	0	0	0
Calcutta	29·2	+0·5	32·0	27	16·7	+1·5	11.9	1	1·2	14·3	−15·4	11·2	8	2	+0·2	10·7	6·7	+2·5	0	3	0	0	1	3	0	0	0	0	0
Midnapore	29·8	−0·4	33·3	26	16·1	−0·1	11·2	1	0	14·0	−20·3	9·6	8	2	0	6·5	4·8	+1·7	0	2	0	0	0	0	0	0	0	0	0

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal— *(contd.)*																													
Contai	28·0	−1·4	30·7	19	16·9	−0·6	12·6	1	0	13·3	+2·3	4·5	27	3	+2·3	(d) 9·6	5·9	−0·8	0	4	0	0	0	5	0	0	0	0	0
Sagar Island	26·4	−0·6	29·3	22	18·4	+0·3	13·0	1	0	23·8	−5·4	20·0	9	1	−0·8	15·7	12·6	+1·8	0	4	0	0	2	10	0	0	0	0	0
Sandheads	28·5	..	32·0	15	21·9	..	18·2	1	0	0	−14·2	0	..	0	−1·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	29.9	..	34·3	26	15·1	..	10·6	1	0	6·6	..	3·0	8	1	..	(d) 4·3	2·4	..	0	3	0	0	0	9	0	0	0	0	0
Jharsuguda	29·7	−0·9	33·4	26	14·9	+0·5	11.0	1	0	4·0	−19·4	2·2	26	0	−1·5	7·2	5·7	−0.7	0	2	0	0	1	0	0	0	0	0	0
Keonjhargarh	27·6	..	31·1	26	14·1	..	10·6	1,2	2·0	7·2	..	3·2	27	1	..	5·8	3·5	..	0	3	0	0	0	1	0	0	0	0	0
Balasore	29·0	−0·3	32·9	27	16·3	−0·1	11·8	2	0·4	3·2	−31·6	2·8	27	1	−1·4	7·5	4·2	0	0	2	0	0	0	0	0	0	0	0	0
Sambalpur	30·2	0	33·3	26	15·1	−0·1	11·8	1	0	0	−23·9	0	..	0	−2·0	5·3	3·1	−0·8	0	0	0	0	0	0	0	0	0	0	0
Angul	29·6	−0·8	33·7	26	16·2	−0·1	12·1	1	0	0	−28·7	0	..	0	−2·1	4·4	3·0	−2·6	0	0	0	0	0	3	0	0	0	0	0
Cuttack	31·1	−0·1	34·2	13	17·9	−0·3	13·3	2	9·6	12·0	−7·8	9·6	9	1	−0·5	(d) 6·3	(d) 4·2	+1·8	0	3	0	0	0	4	0	0	0	0	0
Chandbali	29·2	−0·3	33·6	27	16·2	−1·4	10·6	2	0	1·6	−31·7	1·6	22	0	−1·8	9·9	(d) 7·1	−0·5	0	1	0	0	0	5	0	0	0	0	0
Bolangir	30·3	..	34·6	26, 27	16·7	..	11·6	1	0	12·2	..	6·4	21	2	..	5·7	(d) 4·9	..	0	2	0	0	0	0	0	0	0	0	0
Phulbani	28·5	..	32·7	26	11·1	..	7·2	1	0·8	0·8	..	0·8	22	0	..	3·9	2·2	..	0	1	0	0	1	0	0	0	0	0	0
Titlagarh	32·2	..	36·4	27	16·5	..	10·9	20	0	0·5	..	0·5	21	0	..	4·5	3·0	..	0	1	0	0	0	0	0	0	0	0	0
Bhubaneswar	30·0	−2·0	33·6	14	17·9	−0·6	13·9	2	24·6	24·6	−0·1	12·8	23	3	+1·7	11·6	8·8	−2·2	0	3	0	1	2	4	0	0	0	0	0
Puri	26·7	−1·6	28·4	15	19·9	−0·7	15·6	1	0	0	−23·4	0	..	0	−1·2	26·1	13·3	−0·4	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	27·2	−1·4	28·4	14, 18	18·5	−1·1	14·6	3	19·6	19·6	−3·3	19·6	9	1	−0·2	14·0	11·2	−1·0	0	1	0	0	0	6	0	0	0	0	0
Koraput	23·1	−5·1	28·3	27 28	13·2	−0·9	10·0	1,2	0	0	−2·1	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bihar Plateu																													
Dumka	27·9	+1·0	32·2	27	13·5	+0·3	10·0	1	3·2	8·4	−15·5	5·2	8	2	0	4·9	3·5	+1·1	0	3	0	0	3	1	0	0	0	0	0
Daltonganj	25·0	−1·6	30·9	27	12·1	+1·0	7·3	1	4·4	9·6	−22·7	4·4	22	2	−0·4	..	..	..	0	3	0	0	1	1	0	0	0	0	0
Hazaribagh	24·9	−0·2	29·0	18	11·8	−0·5	8·0	1	7·6	17·7	−14·3	8·4	26	3	+0·5	9·0	6·4	+2·5	1	5	0	0	5	2	0	0	0	0	0
Dhanbad	27·1	..	31·6	27, 28	14.7	..	11·4	1	16·0	25·4	..	16·0	9	2	..	7·4	4·9	..	0	4	0	1	1	3	0	0	0	0	0
Ranchi	26·0	+1·1	30·6	13,18	12·3	−0·5	7·6	1	31·0	52·3	+6·6	19·0	22	3	−0·4	5·5	4·1	−2·3	0	4	0	0	4	0	0	0	0	0	0
Ranchi Aerodrome	52·2	..	29·3	18	12·5	..	9·9	2	..	23·4	..	12·8	22	2	..	..	7·3	..	0	3	0	0	6	0	0	0	0	0	0
Jamshedpur	29·0	+0·5	33·2	27	15·0	+0·7	10·3	1	8.8	28·6	−20·9	17·2	8	3	−0·7	5·7	3·6	−0.1	1	3	0	0	1	1	0	0	0	0	0
Jamshedpur(P.B.O.)	28·0	..	32·8	27	14·6	..	10·0	1	7·8	22·8	..	12·3	8	3	..	6·8	4·7	..	0	3	0	0	2	1	0	0	0	0	0
Chaibasa	28·6	−0·2	32·9	18	14·5	+0·4	10·2	1	0	3·2	−34·7	2·0	8	0	−2·5	4·2	2·6	0	0	3	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari(R)																													
Forbeshganj	27·5	..	30·1	18	12·2	..	9·3	9	3·4	5·6	..	3·0	20	1	..	7·4	4·4	..	0	3	0	0	1	0	0	0	0	0	0
Darbhanga	25·8	+0·3	28·6	17	12·5	+0·9	9·3	1	0	9·6	−3·9	4·8	19, 25	2	+0·6	5·2	2·3	−1·1	0	2	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	5·3	−9·2	5·3	25	1	−0·7	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Chapra	25·5	..	28·8	25,28	10·9	..	9·7	1	0	8·5	−8·8	5·1	25	1	−0·6	8·5	4·1	..	0	3	0	0	0	4	0	0	0	0	0
Purnea	27·0	+0·9	30·2	18	12·1	+1·2	8·8	4	5·9	6·1	−9·6	5·8	9	1	−0·3	6·2	2·6	−0·8	2	1	0	0	0	0	0	0	0	0	0
Patna	26·0	+0·6	29·2	25,27	13·8	+1·1	9·9	1	0	5·8	−13·0	2·8	20	2	+0·4	5·9	5·3	+0·8	2	2	0	0	2	1	4	0	0	0	0
Patna Aerodrome	25·1	..	28·4	27	12·0	..	7·2	1	0·2	17·7	..	14·0	20	1	..	8·2	3·7	..	1	3	0	1	3	4	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	1·0	−20·1	0·6	19	0	−1·6	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Bhagalpur	26·7	−0·7	30·5	18	14 4	+0·1	10·3	1	1·5	1·5	−2·0	1.5	20	0	−0·5	9·1	5·6	−0·7	0	1	0	0	2	1	0	0	0	1	0
Sabaur	26·4	+0·7	30·1	18	11·2	+0·4	7·2	1	1·6	2·2	−17·9	2·2	20	0	−1·7	9 0	4·3	−1·3	0	1	0	0	2	1	0	0	0	0	0
Jamui	26·9	..	30·8	27	13·1	..	8·2	1	1·7	1·7	..	1·7	20	0	..	7.8	4·0	..	0	1	0	0	0	5	0	0	0	0	0
Dehri	26·1	..	30·6	26,27	13·9	..	10·1	1	1·0	1·0	−20·3	1·0	9	0	−1·8	5·4	4·2	..	0	1	0	0	0	2	0	0	0	0	0
Gaya	26·0	+0·3	30·8	26	12·0	+0·4	8·3	1	4·3	4·9	−16·7	2·8	7	1	−0·8	8·9	6·3	−0·1	0	3	0	0	5	2	0	0	0	1	0
Uttar Pradesh (East)																													
Kheri(R)																													
Bahraich	24·3	−0·7	28·0	13	12.0	+1·5	8·3	3	5·2	20·4	−2·7	8·0	8	4	+2·0	7·2	5·1	+1·7	0	5	0	0	2	0	0	0	0	0	0
Nautanwa	25·4	..	28·7	19	11·7	..	8·6	3	27·2	53·5	..	27·2	20	3	..	5·3	3·3	..	1	3	0	0	0	0	0	0	0	0	0
Hardoi	24·5	−1·6	28·8	25	11·8	+1·1	8·0	2	1·8	17·6	+7·9	8·2	8	3	+1·9	..	..	..	0	6	0	0	2	1	0	0	0	0	0
Gonda	24·5	−1·1	27·9	25	12·4	+1·6	9·4	2,4	3·6	20.6	−2·5	7·2	19	3	+0·7	5·1	4·5	−0·5	0	5	0	0	1	0	0	0	0	0	0
Lucknow	24·5	−1·4	29·3	25	10·8	0	7·7	2	5·0	8.9	−9·4	3·9	8	1	−0·6	4·0	2·8	+0·1	0	4	0	0	3	0	0	0	0	0	0
Lucknow (Amausi)	24·3	−1·1	28·5	27	10·9	+1·9	7·4	3	4·0	9·1	−9·2	5·0	8	2	+0·4	9·9	7·1	..	0	4	0	0	3	1	0	0	0	3	0
Faizabad	24·7	..	28·4	25	12·0	..	8·5	2	0·2	22·5	..	14·2	19	3	..	5·1	2·5	..	0	4	0	0	3	0	0	0	0	0	0
Gorakhpur	26·3	+0·9	29·6	25,27	12·6	+1·4	8·4	1	0	25·4	+9·4	17·8	19	2	+0·2	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Kanpur	24·5	−0·5	29·	25	12·3	+1·7	8·9	2,5	7·0	11·4	−5·4	6·0	18	2	+0·4	12·0	9·7	+3·1	0	3	0	0	4	0	0	0	0	0	0
Kanpur (Aerodrome)	24·4	..	29.9	25	11·8	..	7·6	2,3	10·1	23·5	..	8·1	25	4	..	..	..	..	0	4	0	1	5	2	0	0	0	0	0
Sultanpur	25·7	..	30·1	25	12·7	..	9·6	1	2·4	10·6	..	4·2	8	1	..	6·4	4·1	..	0	4	0	1	3	0	0	0	0	0	0

(d) Mean of 27 days.

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(Contd.)																													
Azamgarh	26·2	..	29·9	25	10·0	..	6·5	1	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	25·0	−1·6	30·9	25	12·9	+1·6	9·6	3	6·4	15·2	−2·8	6·9	19	2	−0·4	8·1	4·9	+0·7		4	0	1	2	0	0	0	0	0	0
Ballia	26·0	..	29·5	26,27	13·1	..	8·5	1	0	6·8	..	4·6	25	1	..	1·4	0·6	..	3	0	0	0	0	0	0	0	0	0	0
Banda	27·3	..	33·0	26	12·2	..	9·4	4	9·2	9·2	..	9·2	19	1	..	5·5	3·1	..	0	1	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	26·7	+0·5	32·0	25	12·4	+1·9	8·7	2,4	0·6	13·2	−2·8	6·6	19	2	+0·3	6·9	4·2	−0·9	0	3	0	0	3	5	0	0	0	3	0
Varanasi (Babatpur)	25·9	−1·4	30·2	25	11·9	+0·3	8·3	16	0	14·1	+6·4	8·8	18	3	+2·2	11·2	7·6	−1·5	1	3	0	0	1	3	0	0	0	0	0
Varanasi	25·7	−0·6	30·7	25	12.7	+1·5	8·3	1	0	5·4	−12.6	2·6	18	1	−0·9	6·5	4·6	+0·1	0	3	0	0	0	3	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	21·3	+0·6	25·6	17	8·2	+0·1	3·2	2	7·2	40.3	−22·4	15·7	18	5	+1·2	1·8	3·9	+1·2	0	7	0	0	3	0	0	0	0	0	0
Roorkee	22·3	−0·2	26·1	25	10·3	+2·0	6·3	2	4·4	38·0	−0.6	17·3	18	4	+1·2	6·3	4·7	+1·2	0	6	0	0	4	0	0	0	0	0	0
Najibabad	23·5	..	27·6	25	10·1	..	6·3	2	0	22·2	..	19·4	25	2	..	4·3	2.8	..	0	2	0	0	1	0	0	0	0	0	0
Meerut	23·5	0	26·7	23,24	11.0	+2·1	7·7	1,2,3	..	7·0	−18·9	5·0	25	1	−1·2	..	6·1	..	0	2	0	0	0	2	0	0	0	0	0
Bareilly	24·3	+0·4	27·5	25,26	12·3	+2·2	7·8	3	5·4	17·1	−7·5	8·6	8	3	+1·1	9·3	6·3	+3·1	0	3	0	0	2	0	0	0	0	0	0
Aligarh	24·1	−0·2	29·4	25	10·7	+0·4	6·7	2	6·2	17·4	−1·9	8·4	25	3	+0·9	12·9	11·0	+5·4	0	3	0	0	2	2	0	0	0	0	0
Mainpuri	25·3	−0.1	30·2	25	11·7	+1·8	6·2	2	2·4	7·6	−6·1	5·2	17	1	−0·2	..	..	..	0	2	0	1	2	1	0	0	0	0	0
Agra	25·2	0	32·0	25	11·6	+2·6	7·3	2	0	0	−12·5	0	..	0	−1·1	5·5	4·4	−0·7	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	25·6	..	31·7	25	10·8	..	5·0	2	0	6·1	..	5·6	27	1	..	..	..	..	0	2	0	0	3	0	0	0	0	0	0
Orai (R)																													
Jhansi	26·9	−0·3	31·5	26	13·3	+1·9	8·8	1	0	0	−11.4	0	...	0	−1·1	6·1	3·8	−0·5	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	21·3	−0·9	24·1	23	8·8	+0·4	4·0	8	32·2	67·4	+25·5	26·1	25	6	+3·7	9·1	7·3	+0·9	0	9	0	2	8	0	0	0	1	1	0
Amritsar (Rajasansi)	22·3	+0·2	26·1	24	8·5	+2·2	4·4	8	8·6	34·0	+19·0	16·6	25	3	+1·4	7·7	5·8	−2·1	0	4	0	0	5	0	0	0	0	0	0
Adampur (Aerodrome) (R)																													
Ludhiana	23·3	+1·5	26·4	23	8·7	+0.1	5·6	2	6·3	10·1	−24·2	5·5	25	2	−0·7	8·0	4·7	+2·0	0	4	0	1	3	2	0	0	0	0	0
Ferozepore	22·6	..	27·8	24	8.8	..	5.2	4	3·6	8·0	..	5·8	17	1	..	5·2	3·1	..	0	2	0	0	0	0	0	0	0	0	0
Halwara Aerodrome	22·5	..	26·4	24	7·9	..	4·5	4	15·1	19·2	..	11·7	25	1	..	..	..	..	0	6	0	1	7	0	0	0	0	0	0
Chandigarh	23·1	−0.3	27·5	17	10·7	+1·8	5·9	3	8·6	24·5	−1.0	6·9	18	3	+1·4	7·6	6·2	..	0	6	0	0	0	0	0	0	0	0	0
Ambala	23·3	+0·5	26·2	23	11·5	+2·7	6·7	2	18·4	28·9	−18·6	10·5	26	4	+0·9	4·0	3·2	−2·1	0	5	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	23·0	..	26·4	17	9·3	..	3·6	2	8·2	29·4	..	11·5	26	3	..	..	..	..	1	5	0	1	6	1	0	0	0	0	0
Patiala	22·9	..	26·5	24	10·4	..	5·6	1	0·4	26·4	−9·7	8·4	26	3	+0·3	11·6	9·0	..	0	5	0	1	2	0	0	0	0	0	0
Bhatinda	23·5	..	28·1	24,25	9·5	..	5·6	4	0	5·1	..	5·1	1	1	..	6·3	4·4	..	0	1	0	0	1	0	0	0	0	0	0
Karnal	23·0	..	26·0	19,24	9·8	..	6·0	2,4,5	5·0	27·6	..	13·0	18	3	..	..	..	..	0	4	..	0	0	0	0	0	0	0	0
Hissar	24·5	−0.1	28·8	24	9·3	+0·9	3·2	5	2.2	14.4	+0·7	10·2	1	1	−0·2	8·2	6·4	+0·1	1	4	0	0	3	0	0	0	0	0	0
New Delhi (Safdarjung)	23.8	−0.5	27·6	24	11·5	+2·1	8·2	2	1·9	12·6	−8·5	8·0	27	2	+0·3	12·7	8·9	−1·7	0	4	0	0	3	5	0	0	0	3	0
Palam (Aerodrome)	23·7	..	27·9	24	9·7	..	5·0	2	2·3	6·0	..	2·6	27	2	..	..	..	..	1	3	0	0	4	4	0	0	0	0	0
Himachal Pradesh																													
Mandi	19·7	−1·6	24·5	25	6·2	+1·3	2·9	4	25.0	96·0	+65·9	25.0	26	6	+3·5	4·8	3·0	+0·5	3	8	0	2	4	6	0	0	0	0	0
Bilaspur	21·5	..	26·1	25	7·2	..	5·0	2	32·5	47·0	..	34·5	26	3	..	..	..	..	0	6	1	1	3	15	0	0	1	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras*																													
Sonamarg*																													
Leh	3·3	+2·7	7·0	23,25	−9·5	+2·6	14.0	8	0·8	12·0	+4·1	7·6	9	2	+1·1	6·0	5·1	+2·8	0	4	5	0	0	0	0	0	0	0	0
Srinagar	9·7	+3·0	13·9	23	0·9	+2·3	−3·2	4	19·8	80·4	+8·3	37·1	17	6	−0·2	5·5	5·3	+1·4	1	11	6	0	0	0	0	4	0	0	0
Srinagar (Aerodrome)	9·1	..	12·9	23	0·2	..	−3·7	4	20·1	55·1	..	26·4	17	6	..	..	..	..	0	9	7	0	0	4	0	1	0	0	0
Gulmarg	Closed during winter months																												
Banihal	11·7	..	16·7	22	1·7	..	−0·2	4	65·0	206·2	..	55·9	17	12	..	..	..	..	0	12	4	0	1	0	0	0	0	0	0
Jammu	23·2	+2·9	26·6	27	9.0	−1·7	5·6	8	..	75·9	+14·2	26·5	26	4	+0·3	..	7·7	..	0	4	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	21·1	..	23·9	23	10·0	..	6·3	8	22·2	56·2	..	17·0	25	5	..	..	..	..	0	7	0	0	7	0	0	0	0	0	0

(R) Register not received.

*Date not available.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during (0830-1730 hours)	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between (0830-1730 hours)	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more.)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Rajasthan (West)																													
Ganganagar	24·4	—0·6	30.3	24	8·9	—0·2	5·9	5	0	1·2	—3·9	1·1	16	0	—0·5	6·4	4·[illegible]	+0·8	1	1	0	0	0	0	0	0	0	0	0
Anupgarh (R)																													
Mahajan	26.5	..	33.0	24	..	..	..	..	0	0	..	0	..	0	..	4·0	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Churu	26·0	..	32.0	24	8·8	..	5·2	2	0	3·0	..	3·0	1	1	..	9·1	6·8	..	0	1	0	1	3	0	0	0	0	0	0
Bikaner	27·0	+0·8	32·8	24	9·0	+0·6	4.2	2	0	1·3	—5·6	1·3	16	0	—0·7	5·4	4·6	—1·2	0	1	0	0	1	0	0	0	0	0	0
Nagaur	26·4	..	30·6	24	11·3	..	5·5	2	0	0	..	0	..	0	..	8.7	7·4	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	26·5	..	32·8	24	10·7	..	6·0	3	0	0	—4·8	0	..	0	—0·5	11·8	9·6	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	27·0	..	31·9	24	11.5	..	8·2	7	0	0	..	0	..	0	..	10.6	8.5	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	28·4	+1·4	32·4	24	13.2	+1·8	10.2	3	0	0	—6·1	0	..	0	—0·6	11.4	9·2	—1·7	0	0	0	0	0	0	0	0	0	0	0
Barmer	29.2	+1.3	34·4	23	15·0	+1·9	9·7	2	0	0	—7·1	0	..	0	—0·6	9·4	7·5	—0·4	0	0	0	0	0	0	0	0	0	0	0
Munabao(s)	30·1	..	34·0	24	9·8	..	4.0	2	0	0	..	0	..	0	..	(g) 10.1	(g) 6·[illegible]	.	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	25·7	..	31·1	24	8·3	..	3·6	2	0	0·4	..	0·4	1	0	..	13.0	9·9	..	0	1	0	0	0	0	0	0	0	0	0
Sikar	26·1	..	30·3	24	8·8	..	2·2	2	0	0	..	0	..	0	..	8·3	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	25·2	..	31·6	24	11·0	..	7·2	2	6·9	11·7	..	10.5	27	1	..	4·1	1·9	..	0	3	0	0	1	0	0	0	0	0	0
Jaipur (Sanganer)	26·1	+1.3	31·1	25	11·7	+1·4	6·6	2	0	0	—8·1	0	..	0	—0·8	..	..		0	0	0	0	2	0	1	0	0	0	0
Dholpur	26·1	..	33·6	25	10·9	..	6.2	2	0	1·0	..	1·0	17	0	..	6·7	4·3	.	0	1	0	1	3	1	0	0	0	0	0
Ajmer	26·7	+1.7	30·1	24	10·9	+1·0	7·3	3	0	0	—6·6	0	..	0	—0·7	8.3	5.4	+2·0	0	0	0	0	0	0	0	0	0	0	0
Tonk	25.5	..	30·2	24,25	10·4	..	6·5	3	0	0	..	0	..	0	..	7·6	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	27·2	..	36·0	10	10·5	..	6.6	3,4	0	0	..	0	..	0	..	8·4	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	28·0	..	34·5	25	13·8	..	8·6	2	0	0	..	0	..	0	..	10.4	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Kota	28·6	+0·8	33·0	25	10·5	—2·5	6·0	2	0	0·2	—5·1	0·2	5	0	—0·5	4·5	3·7	+1·0	1	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam)	29·0	..	32·2	16	11·6	..	6·1	3	0	0	..	0	..	0	..	6.4	5.3	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	28·4	..	32·8	12,25	12·3	..	8·8	2	0	0	..	0	..	0	..	8·4	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	27·6	+1·3	33·1	12	11·3	+1·0	7·2	3	0	0	—3·6	0	..	0	—0·5	5·4	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	28·5	+0·6	33·0	17	12.3	+0·7	8.5	2,3	2·4	5·8	+3·8	3.4	5	1	+0·6	6·3	3·9	—0·3	0	2	0	0	1	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	26·1	—0·8	33·8	25	10·6	+0·7	5·0	2	0	0·6	—7·5	0.6	17	0	—0·8	8·1	4·4	..	0	1	0	0	2	0	0	0	0	0	0
Sheopur	28·2	—0·2	31·6	12	10.7	+0·8	6·4	3	0	0	—5·5	0	..	0	—0.6	8.1	6.3	+1·2	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	26·3	..	31·2	25	10·0	..	4·4	2	0	0	..	0	..	0	..	8·1	5·5	..	0	0	0	0	0	1	0	0	0	0	0
Nowgong	26·6	—0·1	31·1	17	9·9	—0·5	5·9	3	12·0	12·8	—1·7	12·8	19	1	—0·3	6·6	4·0	+1·4	0	1	0	0	3	2	0	0	0	0	0
Guna	27·4	+0·1	32·1	12	10·3	+0.2	5·9	2	1·9	9·1	+4·3	7·2	5	1	+0·4	10·4	6·7	..	0	2	0	0	1	1	0	0	0	0	0
Neemuch	27·8	+0·7	31·8	12	12·9	+1·8	8·7	2	0	0	—3·8	0	..	0	0·4	10.6	8·4	+1.0	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	28·8	..	33·8	17,25	11·2	..	5·8	3	0	0·5	..	0·5	5	0	..	10·7	7·7	..	0	1	0	0	0	0	0	0	0	0	0
Sagar	26·3	—1·0	31·4	17	12·7	—0.5	7·2	2	11·0	25·0	+13·1	11.0	6	4	+2·8	8·8	7·5	..	0	4	0	1	4	2	0	0	0	0	0
Ratlam	29·9	+0·6	34·1	12	12·9	—0.1	8·7	3	0	0	—1·7	0	..	0	—0·3	11·4	10·3	+2·1	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	27·7	—0·5	31·9	12	12·4	—0·2	7·2	3	3·2	22·7	+18·9	22·4	6	1	+0.5	12·0	9.3	+1.6	0	2	0	1	4	4	0	0	0	0	0
Ujjain	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Narsinghpur	(m) 30·3	..	33·4	17	(m) 11·3	..	7·8	15	6·2	50·9	..	29·5	19	2	..	(m) 4·8	(m) 2·7	..	0	2	0	0	0	0	0	0	0	0	0
Hoshangabad	29·0	—0·4	33·6	17	14·0	—0·2	9·7	3	0	21.8	+12·1	21·8	6	1	+0·1	7·2	5·6	+2·1	0	1	0	1	0	0	0	0	0	0	0
Indore	28·9	+0·2	33·6	17	11·3	+0·7	5·4	3	0.4	0·4	—3·2	0·4	6	0	—0·5	13·4	10·8	..	0	1	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	31·1	..	34·8	13	12·2	..	7·4	1	0	0	..	0	..	0	..	8·2	4·9	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	28·4	—0·5	32·6	13	12·2	—0·5	8·0	3	5·1	19·9	+14·0	8.6	6	3	+2·6	4·8	2·4	—2·8	0	5	0	0	4	0	0	0	0	0	0
Seoni	28·4	+0·1	33·5	14	13·1	+0·4	9·6	3	44·8	53·2	+32·6	38·2	21	5	+3·0	8·5	6·2	+1·7	0	5	0	0	4	0	0	0	0	0	0
Betul	29·1	—0·4	33·4	14	12·3	0	8·4	23	1·4	5·2	+3·0	5·2	18	1	+0·7	7·8	5·3	+0·1	0	1	0	0	3	0	0	0	0	0	0
Khandwa	32·2	+0·7	37·4	16	13·9	+0·6	8·7	3	0	0	—4·1	0	..	0	—0·4	9·9	7·5	+2·0	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	27·3	+1·0	31·9	12	11·9	+0·7	8·1	4, 15	1·0	43·8	+24·0	24·2	19	2	+0·2	5·9	3·9	—0·5	0	2	0	0	2	0	0	0	0	0	0
Sidhi	27·5	..	31·4	12	11·5	..	7·0	4,15, 16	0	39.6	..	34·4	18	2	..	6·2	3·6	..	0	2	0	0	0	0	0	0	0	0	0
Umaria	27·5	+0·2	32·3	12	11·4	+0·5	6·6	3	11.5	68.3	+42·9	39·2	18	3	+1·1	6·3	4·1	+0·1	0	5	0	1	4	2	0	0	0	0	0
Jabalpur	28·0	+0·6	33·2	12	12·5	+1·9	8·5	3	3·6	35.6	+16·3	17·4	6	3	+1·3	6·6	4·4	+1·7	0	3	0	0	4	2	0	0	0	0	0
Ambikapur	26·8	—0·3	31·8	18	11·2	+0.8	6·5	3	3·0	19·2	—3.0	5.8	22	4	+2·1	9·3	7·4	+0·5	0	6	0	0	3	0	0	0	0	0	0
Pendra	26·6	+1·0	31·0	12	13·0	+0·5	9·6	4	23·9	32·1	—5·2	13.0	21	2	—0·9	9·8	6·6	..	0	8	0	0	4	0	0	0	0	0	0
Mandla	28·3	—1.0	32·5	12	9·7	—0·4	4·5	4	7·0	14·8	—0·5	7.8	18	2	+0·3	5·1	2·9	+0·5	0	3	0	0	4	2	0	0	0	0	0
Champa	29·9	—0·8	33·0	12,13	15·4	—0·4	10·7	1	1·0	23·6	+10·3	13.0	26	3	+1·8	6·3	5·6	—0·2	0	3	0	0	4	0	0	0	0	0	0
Raigarh	30·5	—1·4	33.4	12,26	15·7	—0·2	11·4	1	0	5·6	—9·9	5·6	8	1	—0·3	3.7	3·1	—1.3	0	1	0	0	4	0	0	0	0	0	0
Raipur	30.4	+0·4	33·7	13,27	16·0	+0.4	11·5	1	0	3·2	—18·9	3·0	22	1	—0·8	7·5	6·0	+0·2	1	1	0	0	3	0	0	0	0	0	0
Kanker	30·1	+0·3	33·4	17,18	14·8	+0·1	11·2	4	3·1	18·4	—3·4	11·2	22	2	—0·1	5·6	4·5	+0·2	0	4	0	0	1	0	0	0	0	0	0
Jagdalpur	29·8	—0.5	33·0	13	14·0	—0·3	9·6	1	0·7	32·3	+4·9	31.6	21	1	—0·6	6·1	3·7	..	0	2	0	0	1	2	0	0	0	0	0

R—Register not received. (m) Mean of 19 days. (g) Mean of 24 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Gujarat Region																														
Deesa	30·7	..	33·4	12	13·0	..	8·5	2	0	0	..	0	..	0	..	10·0	8·0	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	30·6	..	33·8	24	12·6	..	8·5	2	0	0	..	0	..	0	..	8·5	6·4	..	0	0	0	0	0	0	0	0	0	0	0
Idar	30·4	..	33·8	16	17·6	..	13·1	9	0	0	..	0	..	0	..	9·3	8·0	..	0	0	0	0	0	0	0	0	0	0	0
Ahmedabad	31·8	+1·4	35·0	16	14·6	+0·6	11·0	2	0	0	−2·0	0	..	0	−0·2	11·8	6.8	+2·6	0	0	0	0	0	0	0	0	0	0	0
Dohad	30·2	−0·4	33·4	13	14·1	−0·1	9·0	3	0	0	−1·7	0	..	0	−0·2	11·0	9·7	−0.6	0	0	0	0	0	0	0	0	0	0	0
Baroda Aerodrome	32·8	..	36·4	12,16	14.1	..	10·1	1	0	0	..	0	..	0	..	9·4	6·5	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	33·2	+0·6	36·9	13	14·1	+1·7	10·5	1	0	0	−1·4	0	..	0	−0·3	5·3	3·4	−0·2	0	0	0	0	0	2	0	0	0	0	0
Broach	34 9	+0·6	39·4	13	15·2	+0·3	11·6	1	0	0	−0·3	0	..	0	−0·1	6·8	6·3	+0·4	0	0	0	0	0	0	0	0	0	0	0
Surat	34 4	+2·5	38 9	15	15·8	+0·2	13·4	3	0	0	−2·0	0	..	0	−0·2	9·4	8·3	+3·2	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Bhutakia Bhimasar (R)																														
Naliya	30·1	..	34·2	23	11·4	..	5·7	1	0	0	..	0	..	0	..	12·1	6·2	..	0	0	0	0	0	7	0	0	0	0	0
Bhuj (Rudramata)	31 0	+2·4	34·6	24	11·9	−1·0	7·4	5	0	0	−4·3	0	..	0	−0·4	12·6	7·9	−1·4	0	0	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	30·9	..	34·7	24	14·4	..	10·4	9	0	0	..	0	..	0	..	..	18·1	..	0	0	0	0	0	1	0	0	0	0	0
New Kandla	27·9	..	32·1	15	17·1	..	13·7	5	0	0	..	0	..	0	..	13·0	13·4	..	0	0	0	0	0	1	0	0	0	0	0
Mandvi	27·3	+1.0	31·3	22	15·9	+1·1	12·7	1	0	0	0	0	..	0	0	18·5	15·6	−0·8	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	31·9	+0·5	35 0	15	15·9	+1·1	9·9	1	0	0	0	0	..	0	0	11·6	9·9	−0·4	0	0	0	0	0	1	0	0	0	0	0
Jamnagar Aerodrome	29·2	+0·4	32·5	15	13·7	+1·7	10·0	6	0	0	−2·0	0	..	0	−0·2	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Dwarka	27 8	+2·0	33·9	23	17·3	0	13·2	1	0	0	−6·1	0	..	0	−0·5	17·3	14·5	+0·5	0	0	0	0	0	0	0	0	0	0	0
Rajkot	31·4	−0·1	35·1	16	13·9	+1·1	9·4	2	0	0	0	0	..	0	0	17·5	13·6	0	0	0	0	0	0	2	0	0	0	0	0
Bhavnagar Aerodrome	31·3	+1·8	34·8	13	15·4	+0·7	10·6	2	0	0	−1·5	0	..	0	−0·2	18·1	14·9	+2·1	0	0	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	31·1	..	36·1	23	15·9	..	13·2	1	0	0	..	0	..	0	..	16.9	13.2	..	0	0	0	0	0	4	0	0	0	0	0
Porbander	29 4	−0·7	34·9	23	17·6	+0·8	15·3	1	0	0	−0·8	0	..	0	−0·1	12·1	10·7	−1·3	0	0	0	0	0	2	0	0	0	0	0
Keshod	32.9	..	36·8	15	14·8	..	11·5	2	0	0	..	0	..	0	..	17·6	14·3	..	0	0	0	0	0	2	0	0	0	0	0
Mahuva	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	12·6	9·2	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	30·6	..	36·0	14	16·1	..	14·2	5,16	0	0	−1·8	0	..	0	−0·2	17·3	14.4	..	0	0	0	0	0	2	0	0	0	0	0
Konkan																														
Dahanu	..	..	..	..	17.7	+0·5	15·3	2	0	0	−0·3	0	..	0	−0·1	16.3	11·9	0	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	32·6	+3.2	37·0	16	17·1	+1.4	15·0	26	0	0	−1·7	0	..	0	−0·1	11.8	8 4	..	0	0	0	0	0	0	0	0	0	0	0
Bombay	31·6	+3·2	36·5	16	20·5	+0·8	18·7	1	0	0	−2·0	0	..	0	−0·1	8·3	6·4	−4·9	0	0	0	0	0	0	0	0	0	8	0
Alibag	29·9	+1·8	34·4	21	18·7	+0·4	16.6	7	0	0	−0 8	0	..	0	−0·2	..	8.5	−0·2	0	0	0	0	0	0	0	0	0	0	0
Harnai	29·5	+1·8	35 0	14	22·7	+0·7	17·5	10	0	0	−0·1	0	..	0	0	15.5	13·5	−0·4	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	32·1	..	35 4	24	21·4	..	19·1	20	0	0	−1·0	0	..	0	−0·1	11·8	7·6	..	0	0	0	0	0	4	0	0	0	0	0
Devgarh	30·9	+1·1	34 7	14	21·3	−0·3	19·1	5	0	0	−0·1	0	..	0	0	16·2	12·9	−1·3	0	0	0	0	0	0	0	0	0	0	0
Vengurla	32·8	+1·1	37·6	14	18·6	−0·4	15·4	20	0	0	−0 3	0	..	0	−0 1	11.3	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																														
Nandurbar	33·5	..	37·0	13,14	..	..	..	..	0	0	..	0	..	0	..	8·5	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	33·9	+0·6	37.6	14	13·6	−0·7	9·3	23	0	0	−2·7	0	..	0	−0·4	12.9	10·6	+2·2	0	0	0	0	0	0	0	0	0	0	0
Malegaon	33·2	+1·0	36·6	14,17	12·3	−0·3	9·0	16	0	0	−2·3	0	..	0	−0·2	8·5	6 6	−0·2	0	0	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	32·7	..	36 0	11	12·1	..	7·2	27	0	0	..	0	..	0	..	9.5	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Ahmednagar	33 4	+2·9	35.7	14	13·9	+0·6	11·5	18	0	0	−3·3	0	..	0	−0·3	9.7	7·5	−0·2	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	0	−3·1	0	..	0	−0·3	..	..	..	0	0	..	..	0	..	..	..	..	..	..
Poona (Aerodrome)	32·4	.	34·9	12	15·5	..	11·4	27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Poona	33·4	+0·9	35 5	14,16, 17	13·6	+0·8	11 2	27	0	0	−1·5	0	..	0	−0·2	4·7	2·8	−4·0	0	0	0	1	0	0	0	0	0	0	0
Jeur	33·3	−0·3	35·3	16	15·0	+0·3	10·9	24	0	0	−2·1	0	..	0	−0·2	11·9	8·1	+1·8	0	0	0	0	0	0	0	0	0	0	0
Baramati	33·1	−0·2	35·3	14	15·7	+1·2	13·2	28	0	0	0	0	..	0	0	9·1	8·6	+1·0	0	3	0	0	0	1	0	0	0	0	0
Sholapur	33·1	−0·5	35·1	14	17·9	+0·8	15.2	3	4·5	8.8	+5·5	4·3	18	2	+1·7	11·9	10·1	+1·2	0	0	0	0	1	0	0	0	0	0	0
Miraj	33·2	+0·7	35·0	15	16·9	+1·9	14·1	19	0	0	0	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	33·2	+0.4	35·3	14	16·6	+0·7	14·4	19	0	0	−0·5	0	..	0	−0·1	13·0	10·0	+1·0	0	0	0	0	0	1	0	0	0	0	0
Marathwada																														
Aurangabad	32·3	+0·9	35·4	14	15·8	+0·5	12·9	26	0	0	−4·3	0	..	0	−0·4	9·6	8·4	−0·3	0	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	31·7	..	34 6	12,14	12·1	..	8.9	9	0	0	..	0	..	0	..	11·2	7·5	..	0	0	0	0	0	0	0	0	0	0	0
Parbhani	32·7	−0·4	35·1	15	15·8	+0·1	12·2	25	0	0	−6·2	0	..	0	−0·7	9·3	6·9	+0·5	0	0	0	0	0	0	0	0	0	0	0
Nander	33·0	..	35·6	14,15	16.3	..	12·4	24	0	0	..	0	..	0	..	5·9	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Bir	32·9	..	35·2	14	15·1	..	11·5	3	0	0	..	0	..	0	..	8·4	5·3	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Vidarbha																													
Gondia	30·3	−0·4	34·5	14	15·4	+0·1	12·1	1	4·6	16·6	+1·9	14·2	19	1	−0·1	5·8	3·3	−0·2	0	2	0	0	1	0	0	0	0	0	0
Nagpur (Sonegaon)	31·5	−0·6	35·1	12	14·2	−1·1	10·8	4	5·0	10·9	−5·6	5·4	19	2	+0·6	10·1	8·6	..	0	3	0	0	2	0	0	0	0	2	0
Amraoti	32·5	+0·7	36·1	14	17·3	+0·6	14·0	3	0	4·0	−7·2	4·0	18	1	+0·2	11·6	10·6	+4·2	0	1	0	0	0	0	0	0	0	0	0
Akola	33·1	+0·5	36·8	12	14·8	+0·5	10·1	2	0	0·6	−7·0	0·6	18	0	−0·6	7·5	5·8	+0·8	0	1	0	0	0	0	0	0	0	0	0
Bramhapuri	31·2	..	35·0	14	15·4	..	12·0	4	1·2	6·1	..	3·0	19	1	..	7·6	4·7	..	0	3	0	0	3	0	0	0	0	0	0
Buldana	30·4	0	34·1	13	16·4	−1·3	12·2	3	0	0	−0·3	0	..	0	0	11·6	9·3	+0·7	0	0	0	0	0	0	0	0	0	0	0
Yeotmal	31·6	−0·7	35·0	13	17·4	−0·5	14·2	1,2	0	0	−4·1	0	..	0	−0·3	12·1	10·2	+0·7	0	0	0	0	0	0	0	0	0	0	0
Chanda	32·0	−0·4	35·8	26	16·4	+1·1	12·3	4	0·4	3·6	−17·0	2·0	21	0	−1·3	7·3	5·0	+1·6	0	3	0	0	2	0	0	0	0	0	0
Pusad	32·6	..	38·0	14	15·2	..	12·1	3,4	3·2	3·2	..	3·2	21	1	..	7·6 (j)	5·8 (i)	..	0	1	0	0	0	0	0	0	0	0	0
Sironcha	32·0	−1·9	35·7	14	17·4	−0·7	14·2	3	0	2·7	−2·0	1·5	20	0	−0·6	6·7 (d)	4·3 (e)	−0·2	0	2	0	0	1	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	28·5	−1·7	33·4	14	19·9	0	16·6	3	0	0	−15·5	0	..	0	−1·3	12·5	8·7	+0·7	0	0	0	0	0	0	0	0	0	0	0
Vishakhapatnam	30·0	−1·7	34·3	14	18·0	−1·8	14·5	18	0	0	−23·9	0	..	0	−1·1	18·3	8·9	+3·8	0	0	0	0	1	0	0	0	0	0	0
Kakinada	29·0	−0·8	33·4	28	19·4	−1·5	16.5	5	0	8·0	−0·1	6·2	21	1	+0·4	14·6	11·4	+3·8	0	2	0	0	0	0	0	0	0	0	0
Nidadavolu	31·0	..	35·2	14	19·0	..	15.1	5	2·4	6·6	..	4·2	21	1	..	9·3	7·1	..	0	2	0	0	0	0	0	0	0	0	0
Rentachintala	32·2	−1·4	36·2	14	19·4	−1·2	16·3	2	13·2	26·8	+13·3	13·6	19	3	+1·7	8·0	6·4	−1·5	0	3	0	0	2	0	0	0	0	0	0
Gannavaram	30·3	−2·6	32·6	14,15	19·7	−0·3	17·3	2	0·4	1.3	−1·8	1·1	21	0	−0·5	15·5	10·8	+1·5	1	1	0	0	2	1	0	0	0	0	0
Nagarjuna Konda	33·7	.	36·4	14	20·7	..	15·4	4	3·6	41·6	..	31·6	21	3	..	14·3	13·0	..	0	3	0	0	0	0	0	0	0	0	0
Masulipatam	29·0	−1·1	31·7	14	19·8	−0·5	17.6	2	0·4	49·0	+35·5	48·6	21	1	+0·4	6·7	4·2	−1·9	0	2	0	0	2	0	0	0	0	0	0
Ongole	29·2	..	32·3	20	20·1	..	17·0	2	0·2	47·2	..	47·0	21	1	..	11·3	7·0	..	1	1	0	0	0	0	0	0	0	0	0
Nellore	30·5	−1·4	32·8	26,28	20·8	−0·2	18·6	14	9·0	11·2	+5·1	9·0	22	1	+0·5	5·2	5·1	−0·2	0	2	0	0	0	1	0	0	0	0	0
Telangana																													
Ramgundam	32·5	−1·4	36·0	14,15	19·3	+0·5	16·1	3	0	6·2	+4·0	6·0	21	1	+0·7	8·7	6·2	+0·5	1	1	0	0	2	0	0	0	0	0	0
Nizamabad	30·8	−1·9	34·8	15	17·8	+1·1	15·1	4	12·0	12·0	−5·0	12·0	12	1	−0·2	7·6	5·7	+1·7	0	1	0	0	1	0	0	0	0	0	0
Hanamkonda	31·3	−0·6	35·2	14	19·8	+1·0	17·1	21	0	95·1	+80·4	82·0	20	3	+1·9	9·5	8·4	+0·5	0	3	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome).	29·1	..	32·8	15	19·2	..	14·8	2	10·2	72·7	..	50·0	21	2	..	..	..	..	..	3	0	1	2	0	0	0	0	0	0
Bhadrachalam	32·3	−1·7	35·8	14	19·0	0·0	14·0	4	18·0	35·0	+33·7	18·0	21	2	+1·8	6·1	5·1	−1·4	0	2	0	0	0	0	0	0	0	0	0
Hyderabad (Begam Pet)	29·9	−0·8	33·5	15	16·7	−0·1	13·0	3	3·6	32·5	+23·4	29·6	21	2	+1·1	13·3	9·3	+1·1	0	3	0	1	3	0	0	0	0	2	0
Khammam	31·9	..	36·3	14	20·1	..	18·6	12	0	30·2	..	26·2	19	2	..	6·3	5·3	..	0	2	0	0	1	0	0	0	0	0	0
Mahbubnagar	31·1	..	34·6	15	17·8	..	15·7	3	7·0	16·0	..	8·0	21	2	..	11·8	9·4	..	0	3	0	0	2	0	0	0	0	0	0
Rayalaseema																													
Kurnool	33·1	−1·1	35·6	15	19·4	+0·5	14·8	13	1·2	2·5	−4·6	1·2	20, 21	0	−0·5	9·6	7·2	+1·6	1	2	0	0	0	0	0	0	0	0	0
Anantapur	32·6	−0·8	36·0	27	19·4	+0·7	14·2	13	0	0	−5·2	0	..	0	−0·3	12·6	11·7	+2·6	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	33·1	−1·5	36·9	27	20·8	−0·1	17·0	12	0	1·8	−1·3	1·8	19	0	−0·2	11·9	9·3	−3·6	0	1	0	0	0	0	0	0	0	0	0
Arogyavaram	29·0	..	31·8	26	16·8	..	13·3	2	0	0	..	0	..	0	..	9·8	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	29·4	..	31·3	24	21·8	..	18·2	4	..	2·6	..	1·6	4	0	..	..	8·3	..	0	2	0	0	0	0	0	0	0	0	0
Madras (Minambakkam).	30·0	−1·3	33·0	26	21·7	+1·5	19·4	13, 14	0	3·2	−7·2	3·2	4	1	+0.3	17·1	11·6	+1·1	0	1	0	0	0	3	0	0	0	0	0
Vellore	31·8	+0·2	35·6	28	19·5	+0·5	14·6	14	0	7·2	+0·9	6·2	22	1	+0·4	8·0	8·5	+4·2	0	2	0	0	0	1	0	0	0	0	0
Tambaram (Aerodrome)	31·3	..	34·3	27	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Tirupattur	31·7	..	35·4	28	17·8	..	13·6	4	0	16·4	..	16·4	19	1	.	6·6	5·3	..	0	1	0	0	0	0	0	0	0	0	0
Cuddalore	28·8	−0·7	31·0	25	21·4	+0·3	18·4	14	0·9	8·9	−14·0	5·7	4	2	+0·8	14·5 (g)	10·5 (g)	+4·5	0	2	0	0	0	0	0	0	0	0	0
Kallakkurichchi	31·9	..	35·7	28	21·2	..	18·0	4	13·6	13·7	−0.5	10·8	22	1	+0·4	11·8	9·0	..	1	3	0	0	0	0	0	0	0	0	0
Salem	33·3	−0·6	35·9	28	21·2	+1·8	17·7	15	0	0·2	−8·2	0·2	19	0	−0·6	13·2	13·5	+6·3	1	0	0	0	2	0	0	0	0	0	0
Coimbatore (Pilamedu)	30·9	.	33·7	28	19.5	..	15·4	11	0	32·2	..	15·7	18	3	..	15·9	12·6	..	0	3	0	0	2	0	0	0	0	0	0
Coimbatore	31·3	−1·4	34·3	27,28	19·7	+0·5	17·1	10, 12	0	19·6	+10·5	12·6	18	3	+2·5	10·2	7·5	+3·3	0	3	0	0	0	0	0	0	0	0	0
Negapattinam	27·8	−1·5	30·2	26	24·3	+1·4	21·2	12	0	29·2	+8·1	22·6	3	3	+2·0	20·3	20·8	+10·0	0	3	0	0	0	0	0	0	0	0	0
Tiruchchirapalli	32·5	−0·6	35.1	28	21·9	+1·2	18·6	14	6·0	6·6	−5·9	5·0	4	1	+0·4	13·4	11·4	+5·3	0	3	0	0	0	0	0	0	0	0	0
Vedaranniyam	29·7	..	32·8	26	..	..	..	..	1·8	28·8	..	15·0	3	3	..	10·9	9·1	..	0	3	0	0	0	0	0	0	0	0	0
Pirampattinam	30·8	..	32·7	18	22·1	..	20·0	10	13·2	21·0	..	6·8	20	4	..	14·3	10·1	..	0	6	0	0	0	0	0	0	0	0	0
Madurai	32·5	+0·1	34·9	28	22·7	+1·9	20·2	14	0	1·2	−12·3	0·6	25	0	−0·7	10·1	7·4	+1·3	1	2	0	0	0	0	0	0	0	0	0
Madurai Aerodrome	31·7	.	34·2	28	21·8	..	18·7	12, 14	0	3·2	..	3·2	20	1	..	16·4	12·6	..	0	1	0	0	0	0	0	0	0	0	0
Pondi	29·9	..	30·6	23	23·1	..	20·6	12	0	1·0	..	1·0	4	0	..	20·9	18·3	..	0	1	0	0	0	0	0	0	0	0	0
Pamban	29·3	0	30·6	22,25	24·1	+0·2	22·1	4	3·7	21·3	−0·5	11·4	3	2	−0·6	17·9	15·9 (e)	+5·1	0	5	0	0	0	0	0	0	0	0	0
Tuticorin	28·0	−0·2	29·3	19,28	22·7	−0·3	20·4	10	0	21·4	+1·0	12·6	19	2	+1·3	24·2	21·5	+2·1	0	2	0	0	0	0	0	0	0	0	0

(d) Mean of 27 days. (e) Mean of 26 days. (j) Mean of 21 days. (i) Mean of 22 days. (g) Mean of 24 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Madras State— (*Contd.*)																													
Palayankottai	31·6	—1·1	34·4	28	22·1	—0·6	20·2	12	36·8	100·6	+72·9	61·0	19	5	+3·3	8·4	6·3	—2·0	0	8	0	0	0	0	0	0	0	0	0
Kannyakumari	31·2	..	32·6	19	23·9	..	22·0	12	1·8	1·8	..	1·8	24	0	..	25·6	21·7	..	0	1	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·4	+1·6	38·1	14	19·8	+0·1	17·6	19	0	0	—0·7	0	..	0	—0·1	7·5	4.4	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	32·4	+1·0	35·9	4	20·8	+0·4	18·4	15,20	0	0	—0·3	0	..	0	0	10·6	9·0	+3·9	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	33·3	..	35·7	16	22·0	..	19·1	14	0	0	..	0	..	0	..	12·4	8·0	..	0	0	0	0	0	4	0	0	0	0	0
Mangalore	32·8	+1.6	36·7	16	22·3	—0.2	19·3	14	0	73·1	+71.3	73·1	24	1	+0·9	12·0	9·1	+0·9	0	1	0	0	0	0	0	0	0	0	0
Interior Mysore North																													
Bidar	30·2	—1·0	32·8	25	17·6	—1.0	14·8	2	0·0	5·0	—4.1	5·0	21	1	+0·3	13·1	11·6	+1·6	0	1	0	0	0	0	0	0	0	0	0
Gulbarga	32·4	—1·1	35·2	15	18·1	+0·2	15·4	4	7·6	18·8	+11·9	18·8	21	1	+0·5	11·3	10·4	+1·7	0	1	0	0	1	0	1	0	0	0	0
Bijapur	32·6	—0·2	34·4	4 days	19·0	+1·3	16·8	3	0	5·4	+3·1	5.4	21	1	+0·8	5·4	3·2	—2·3	0	1	0	0	0	0	1	0	0	0	0
Raichur	32·6	—0·8	35·0	25	19·7	—0·5	17·2	1	0·0	4·0	—3·1	4·0	21	1	+0·4	12·8	11·8	+3·3	0	1	0	0	0	0	0	0	0	0	0
Belgaum	32·1	—0·3	33·7	15	16·6	+1·4	14.2	18	0	0	—1·3	0	..	0	—0·1	9·0	7·2	+1·2	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	31·4	..	33·6	15	17·5	..	16.1	18	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Gadag	32·2	—0·4	34·3	20	18·5	+0·2	15·7	3	0	0	—4·1	0	..	0	—0·4	11·3	8·5	+1.6	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore South																													
Bellary	32·7	—1·6	35·2	26	19·6	+0·7	16·3	3	0	0	—4·6	0	..	0	—0·3	11·0	7·7	+3·0	0	0	0	0	0	0	0	0	0	0	0
Chitradurga	30·9	—1·1	33·3	25	19.3	+0·3	16·0	3	0	0	—2·8	0	..	0	—0·2	10·1	8·9	+2·8	0	0	0	0	0	0	0	0	0	0	0
Shimoga	32·2	—0·7	33·8	18	16·5	+0·4	13·5	15	0	3·2	+3·0	3·2	18	1	+1·0	9·0	5·6	+1·3	0	1	0	0	0	0	0	0	0	0	0
Agumbe	30·4	..	33·0	15	..	..	..	..	..	0	..	0	..	0	..	..	4·1	.	0	0	0	0	0	0	0	0	1	0	0
Balehonnur	30·0	+0·9	32·2	17	16·3	+0·7	15·0	7,20	..	0	—1·5	0	..	0	—0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hassan	29·8	—0·8	31·8	18,20	16·7	+1·4	13·3	12	0	3·0	—3·1	3·0	26	1	+0·6	7·1	5·3	+0·6	0	1	0	0	0	0	0	0	0	0	0
Bangalore	28·7	—1·1	31·4	28	16·9	+1·3	13·6	13	2·3	8·3	+1·7	3·8	27	1	+0·6	10·1	10·5	+2·7	1	4	0	0	0	0	0	0	0	0	0
Bangalore (Aerodrome)	29·4	..	31·4	19	16·4	..	13·4	12	0.6	16.9	..	14·2	27	1	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Mysore	30·1	—1·5	31·8	19	18·5	+0·6	15·8	1,3,4	0	12·0	+5·9	9·0	21	2	+1·5	23·7	18·2	10·6	0	2	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	31·5	+0·1	32·6	9	23·5	+0·7	20·7	12	30·8	40·2	+35·4	20·8	24	4	+3·7	11·7	11·1	+1·3	0	5	0	0	0	0	0	0	0	0	0
Palghat	34·1	..	37·0	18	22·9	..	21·2	1	0	21·8	..	18·0	18	2	..	13·6	10·8	..	0	2	0	0	2	0	0	0	0	0	0
Fort Cochin	32·1	+1·5	34·3	28	23·8	—0·4	22·3	15	0	98·3	+78·0	50·4	25	3	+1·8	12·5	9·7	+2·0	0	3	0	0	0	0	0	0	0	0	0
Cochin (Naval Air Station).	32.3	..	33·6	15	23·1	..	19·8	13	0	43·4	..	15·0	20	4	..	12·3	5·3	..	0	4	0	0	1	0	0	0	0	9	0
Alleppey	32·8	+0·9	35·8	4	22·8	—0·9	19·9	11	0	17·7	+24·0	48·6	25	3	+0·5	15·8	10·5	—0·2	0	3	0	0	0	0	0	0	0	0	0
Punalur	33·8	..	35·8	15	21·8	..	18·4	14	9·8	103.0	..	37·2	20	7	..	9·5	12·6	..	0	7	0	0	0	0	0	0	0	0	0
Trivandrum	31·7	0	34·4	18	22·9	0	20.2	15	20·4	124·3	+105·0	108·2	24	4	+2·7	8·1	5·9	+0·4	0	5	0	0	4	0	0	0	0	0	0
Trivandrum (Aerodrome)	31.4	..	32·3	5,14	22·2	..	19·3	15	..	35·5	..	29·6	24	2	..	..	7.1	..	0	3	0	0	1	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	14·8	+1.3	18·0	23	..	..	..	..	30·0	195·0	+38·4	104·0	25	10	+2·7	5·6	5·2	+1·3	0	11	2	0	2	16	0	0	0	0	0
Dharmsala	16·1	—1·0	20·1	23	7.9	—0·9	4·5	8,9	56·0	143·4	+51·1	49·6	8	7	+2.3	6·5	5.6	+1·0	0	8	0	1	4	0	0	0	0	0	0
Simla	10·1	+0·8	18·3	14	2.7	+0·4	—2·0	8	26·5	87·4	+13·2	24·5	18	9	+3·3	3.0	2.8	+0·1	0	12	7	0	2	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	76·7	—6·9	20·3	8	8	+2·5	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Lokpal	—5·6	..	—3·6	5,28	—10·5	..	—11·3	8,12	..	362·6	..	45·0	8,17	15	..	..	..	..	0	15	12	8	0	15	0	20	0	0	0
Badrinath	Closed							duirng		Winter		months																	
Joshimath	11·9	..	21·1	25	3·3	..	—1·1	8	5·6	125·9	..	26·7	8	13	..	6·1	7.1	..	0	14	4	0	2	8	0	1	0	0	0
Mussoorie	11·7	+1·4	16·7	16,23	3·2	0	—0·6	2	13·8	91·0	+4·4	45·0	18	4	—1·2	7·3	6·1	—1·1	0	7	0	3	6	5	19	0	0	0	0
Mukteswar (Kumaun)	11·3	+1·0	17·6	14	2·6	+0·5	—2·0	8	18·2	48.9	—15·4	16·2	25	7	+2·3	10.5	11·0	+1·7	0	7	6	2	3	4	0	27	0	0	0
Nainital	11·3	—1.8	16·2	14	3·5	—0·6	—0·6	1	19.0	86·5	+42·5	28·5	25	6	+3·6	8·0	5.6	—2·3	0	7	3	0	0	0	0	0	0	0	0
Kalimpong	20·0 (d)	+8·7	25·6	23	13·5 (d)	+4·4	3·9	1	12·7 (d)	12·7 (d)	—16·0	12·7	8	1	—2·0	5·4 (f)	4.1 (f)	—7·0	0	1	0	0	0	0	0	0	0	0	0
Darjeeling	11·6	+1·5	..	..	4·2	+0·4	..	..	12·8	22·4	..	..	..	..	..	2.8	2·4	—1·0	0	8	1	3	2	3	0	0	0	0	0
Kohima	17·3	..	12·2	20,21	9·9	..	6·0	9	10·2	39·0	..	19·6	9	3	..	..	4·2	..		7	0	0	0	0	0	0	0	0	0
Shillong	17·2	+0.3	20·2	19	6·5	+0·7	3·2	5	9·2	39·6	+12·7	12·2	11	4	+1.2	4.5	3.4	—0.3	0	5	0	0	0	0	0	0	0	0	0

*Data given as addenda in December 1962 issue.

(f) Mean of 25 days

(d) Mean of 27 days

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm or more)		Wind speed, km per hours			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunderhad	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir—(*Contd.*)																													
Cherrapunji	13·7	−3·1	16·2	28	6·8	−2·4	6·1	4 days	5·0	42.5	−11.1	13·5	9	4	+0·5	(f) 6·5	(e) 5·2	−2·8	0	4	0	0	1	0	0	0	0	0	0
Abu	23·5	+3.5	26·4	13	9·8	−1.9	4·4	3	0	0	−5·8	0	..	0	−0·6	13·3	8·5	+1.4	0	0	0	0	0	0	0	0	0	0	0
Aijal	22·2	..	26·1	19	13·7	..	11·5	8	9·0	13·0	..	9·0	28	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Pachmarhi	24·7	+0.6	28·9	12	10·3	−0.1	6·1	15	4·0	24·0	+7·0	19·6	6	2	+0·5	6·6	4·7	−0·3	0	3	0	1	3	0	0	0	0	0	0
Mahabaleshwa	26·7	+1·5	29·6	16	13·9	−0·7	11·7	19	0	0	−2.5	0	..	0	−0·1	10·2	10·4	+1·1	0	0	0	0	0	0	0	0	0	0	0
Mercara	26·4	−0·6	28·8	28	15·6	+0.6	14·2	11	5·8	5·8	−0·3	3·2	26	1	+0·5	13.8	10·4	+5·1	0	3	0	0	0	0	0	0		0	0
Ootacamund	18·8	−0·9	22·3	18	8·5	+1.9	4·6	6	18·6	40·2	+7.3	16·2	22	4	+2·9	7·4	4·8	+0·3	0	7	0	0	1	0	0	2	0	0	0
Coonoor (R)																													
Kodaikanal	16·8	−1.0	19·4	2	7·9	+0·7	5·7	11	41·6	130·6	+91.7	68·3	22	8	+5·6	13·5	12·8	+0.2	0	12	0	0	0	7	0	0	0	0	0
Nepal																													
Katmandu	18·5	..	22·6	17	5·1	..	1·0	9	42·5	66·8	..	24.8	20	5	..	1·9	1·3	..	0	8	0	0	4	14	0	0	0		0
Sikkim																													
Lachen	7·4	..	11·1	22, 23	−2·0	..	−4·2	1	..	4·5	..	..	..	..	..	..	..	..	..	..	6	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	25·7	..	29·7	18	12·9	..	7·5	1	8·5	11·3	..	4·8	20	2	..	10·0	6·0	..	0	5	0	0	0	0	0	0	0	0	0
Hazaribagh	24·8	..	28·8	18	11·6	..	8 2	15	9·6	12·7	..	5·0	20	2	..	9·5	5·3	..	0	5	0	0	5	3	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	7·0	13·8	..	4·8	9	3	..	..	..	..	2	5	0	0	0	1	0	0	0	0	0
Bokaro	27·2	..	31·4	18,28	11·3	..	6 7	1	0·8	13·5	..	6·7	22	2	.	7·5	5·0	..	0	4	0	0	3	2	0	0	0	0	0
Maithon	27·7	..	33·3	27	15·2	..	9·9	1	11·2	13·2	..	11·2	8	1	..	..	..	..	0	3	0	0	0	9	0	0	0	0	0
Ramgarh	27·2	..	31·2	18	12·2	..	7·4	1	5·4	24·2	..	11·6	20	2	..	3·5	1·5	..	0	4	0	0	0	0	0	0	0	0	0
Panchet Hills	28·1	..	32·2	27	15·1	..	10·6	1	6·0	8·9	..	6·1	9	1	..	5·8	3·8	..	0	3	0	0	1	0	0	0	0	0	0
Durgapur	29·7	..	33.8	18	14·2	..	9·4	1	14·5	15·7	..	10·5	9	2	..	9·3	6·8	..	0	3	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	28·6	..	32·2	12	12·1	..	7·8	1	..	24·1	..	12·2	21	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Hirakund	29·8	..	33·3	26	16·8	..	12·7	1	0	3·4	..	2·4	8	0	..	4·8	3·4	..	0	2	0	0	0	0	0	0	0	0	0
Bhimkud	29·5	..	32.2	25,26, 27	13·3	..	8·9	2	1·5	3·8	..	2 0	23	0	..	5·1	2·2	..	0	3	0	0	1	2	0	0	0	0	0
Sonepur	30·0	..	33·9	26	16·4	..	12·2	1	..	1·6	..	0·8	23	0	..	..	3·3	..	2	2	..	..	..	..	..	..	..	..	..
Khijrawan	29·8	..	33.3	12	14·2	..	10·8	4	0	39·0	..	17·0	21	3	..	5·7	5·1	..	0	3	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	29·6	..	33·6	12	13·0	..	9·0	2	2·5	12·4	..	10·2	6	1	..	7·0	4·6	..	0	2	0	0	1	0	0	0	0	0	0
Punasa	32·4	..	36·6	20	13·9	..	9·7	3	0	0	..	0	..	0	..	6·7	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Thikri	31·8	..	36·2	13, 17	14·2	..	9·1	2	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Dharoi	30·8	..	34·2	13	14·4	..	8·8	1	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Mahi Catchment																													
Mukhim																													
Tehri																													
Gandak Catchment																													
Somosom	10·3	..	16·4	14	−1·1	..	−5·3	2	2·5	18·6	..	8·8	19	2	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	36·0	67·2	..	25·2	20	6	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Timure	14·9	..	18·9	17	4·6	..	0·6	2	34·3	84·8	..	23·3	8	6	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Pokhara	20·2	..	23·4	15	9·3	..	5·3	20	41·6	73·6	..	20·7	19	6	..	4·8	4·1	..	1	9	0	1	8	0	0	0	0	0	0
Gorkha†																													
Siuwakot	20·8	..	24·9	17	9·8	..	6·1	9	26·2	62·6	..	16·4	20	5	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Kosi Catchment (Trans Himalayan Region)																													
Jilekh	(n) 16·9	..	20·4	17	(n) 8·2		6·1	26	(n) 26·4	(o) 34.1	..	15·2	25	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Kosi Catchment																													
Dansiary																													
Dadeldhura	12·8	..	17·5	17	4 6	..	−0·4	8	22·5	56·7	..	20·4	25	6	..	..	..	..	0	6	0	0	4	0	3	0	0	0	0
Dallayana	16·7	..	20·8	17	7·1	..	3·0	19, 20	7·2	35.5	..	20·5	19	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Butwal	24·9	..	27·9	19	14·6	..	11·4	20	8 4	46·4	..	32·0	19	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..

(f) Mean 25 days. (e) Mern of 26 days. (o) Total of 16 days. (R) Register not received. †Data not available. (n) Mean or total for 17 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squal	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories *(Contd.)*																													
Baghmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	17·8	..	22·5	17	7·0	..	2·9	9	30·9	64·8	..	24·3	20	5	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	20·4	73·2	..	22·2	20	6	..	..	..	..	1	8	..	..	..	..	..	..	..	..	..
Walungchung Gola	5·9	..	9·2	14,18	−4·5	..	−8·7	1	13.2	29·0	..	10·0	20	3	..	..	..	..	3	8	..	..	..	..	..	..	..	..	..
Taplethok	18·7	..	21·6	17	7·5	..	4·3	9	8.2	61·0	..	18·4	25	9	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Bhojpur	15·5	..	19·6	19	7·8	..	4·1	8	24.0	47.1	..	26·0	25	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Taplejung	15·1	..	18·0	14	5·9	..	1·7	9	12.6	53.4	..	14·8	20	5	..	..	..	..	0	9	0	0	5	1	0	1	0	0	0
Okhaldhunga	14·1	..	18·2	22	5·7	..	1·6	9	22·4	44·2	..	22·0	20	3	..	4·3	3·4	..	0	7	0	2	6	2	0	2	0	0	0
Chainpur	19·6	..	22·8	17	10·1	..	7·0	9	12·6	38·2	..	26·0	25	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Angbung	(f) 20·2	..	22·9	17,18	(f) 9·6	..	5·8	8	48·0	69·6	..	46·4	18	4	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Barahakshetra	25·9	..	29·1	22	13·5	..	9·6	9	14·4	40·7	..	23·4	8	2	..	8·3	6·4	..	0	3	0	0	4	0	0	0	1	1	0
Tista Catchment																													
Gangtok	15·4	..	18·9	22	5·6	..	1·7	9	10·4	36·2	..	11·2	7	4	..	(j) 2·3	(i) 2·2	..	1	10	0	2	5	1	0	0	0	0	0
Gezing	18·1	..	21·7	17	7·2	..	3·3	9	13·2	20·7	..	12·8	28	2	..	..	..	..	0	5	..	..	..	..	..	..	..		

*Data included under "Nepal". (f) Mean of 25 days. (j) Mean of 21 days. (i) Mean of 22 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1014·3	1011·2	..	26·6	23·4	21·8	26·1	75	..	2·6	..	6·0	0	1	18	0	10	9	0	0	0	0	0	9	0
	1730	,,	1011·3	1007·8	..	26·8	23·3	21·7	26·0	73	..	3·3	..	4·1	0	0	24	0	13	10	0	0	0	1	0	4	0
Long Island	0830	25	1014·1	1011·3	..	26·3	23·1	21·3	25·3	72	..	3·1	..	3·6	0	0	18	0	0	15	1	0	1	1	0	10	0
	1730	,,	1010·8	1008·0	..	26·7	23·0	21·1	25·0	72	..	3·2	..	2·7	0	0	11	0	1	12	1	0	0	0	0	14	0
Port Blair	0530	79	1012·3	1003·3	..	23·3	21·5	20·6	24·3	85	..	3·3	..	5·1	0	0	17	1	3	11	0	0	0	2	0	11	0
	0830	,,	1014·2	1005·3	+0·8	27·7	23·4	21·2	25·2	68	−3	3·5	+0·6	10·5	0	2	24	3	9	12	1	0	0	0	1	2	0
	1130	,,	1012·8	1004·0	..	28·9	24·1	21·9	26·3	65	..	3·6	..	10·8	0	1	26	1	11	15	0	0	0	0	0	1	0
	1730	,,	1011·1	1002·2	..	26·1	22·8	21·1	25·0	74	..	3·5	..	7·2	0	1	16	0	7	9	1	0	0	0	0	11	0
	2330	,,	1013·0	1004·0	..	24·2	22·2	21·2	25·2	83	..	3·4	..	5·8	0	1	18	1	9	9	0	0	0	0	0	9	0
Car Nicobar	0830	10	1013·5	1012·3	..	27·7	23·9	22·0	26·4	71	..	4·5	..	7·1	0	0	27	0	22	5	0	0	0	0	0	1	0
	1730	,,	1010·4	1009·2	..	26·3	23·6	22·0	26·4	76	..	4·1	..	4·6	0	0	20	0	14	5	1	0	0	0	0	8	0
Nancowry	0830	26	1013·0	1010·1	..	28·7	25·0	22·3	28·6	73	..	3·9	..	0·2	0	0	1	0	0	0	0	0	0	0	0	27	1
	1730	,,	1010·2	1007·3	..	27·0	24·0	22·6	27·4	76	..	3·7	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Kondul	0830	8	1012·9	1011·9	..	27·4	24·4	23·0	28·1	77	..	4·3	..	7·5	0	0	24	0	12	12	0	0	0	0	0	4	0
	1730	,,	1009·9	1008·9	..	27·1	24·2	22·8	27·7	77	..	4·8	..	7·6	0	0	26	0	13	13	0	0	0	0	0	2	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1017·5	999·1	..	17·8	14·6	12·0	14·0	70	..	4·4	..	16·6	0	9	15	0	0	0	0	0	0	0	24	4	0
	1730	,,	1013·4	995·2	..	19·1	16·4	14·4	16·4	75	..	2·9	..	3·1	0	1	5	0	0	0	0	0	0	0	26	22	0
Dibrugarh (Mohanbari)	0230	111	1014·7	1001·5	..	13·4	12·9	12·3	14·5	93	..	4·1	..	1·3	0	0	8	0	6	1	0	0	0	1	0	20	0
	0530	,,	1005·4	1002·2	..	12·6	12·1	11·6	13·7	94	..	4·4	..	1·9	0	0	10	1	7	1	0	0	1	0	0	18	0
	0830	,,	1017·5	1004·5	+1·1	17·9	15·6	13·7	15·9	78	−7	4·1	−0·3	4·5	0	0	24	0	20	3	1	0	0	0	0	4	0
	1130	,,	1015·9	1003·1	..	22·6	17·0	12·6	14·9	55	..	4·0	..	5·4	0	0	26	2	19	2	1	0	0	1	1	2	0
	1730	,,	1013·5	1000·7	..	19·8	16·3	13·7	15·7	68	..	3·4	..	2·4	0	0	11	4	6	0	0	0	0	0	1	17	0
	2330	,,	1015·3	1002·2	..	14·5	13·7	10·9	14·9	91	..	3·8	..	1·6	0	0	10	1	8	0	0	0	0	0	1	18	0
Dibrugarh	0830	106	1017·5	1005·1	+1·2	18·9	15·5	12·9	14·9	69	−16	3·0	−1·4	0·9	0	0	8	1	4	3	0	0	0	0	0	20	0
	1730	,,	1013·1	1000·9	..	21·1	16·9	14·0	16·0	64	..	2·8	..	0·4	0	0	4	0	3	1	0	0	0	0	0	24	0
Digboi (R)	0830	..																									
(R)	1730	..																									
North Lakhimpur	0830	102	1017·5	1005·5	+2·3	18·0	15·6	13·7	15·8	78	−1	4·0	−0·2	1·9	0	0	16	2	8	5	0	0	1	0	0	12	0
	1130	,,	1016·1	1004·3	..	22·6	17·1	13·2	15·1	57	..	3·9	..	5·9	0	1	26	1	8	8	6	2	0	2	0	1	0
	1730	,,	1013·6	1001·7	..	20·0	17·1	14·9	17·1	73	..	3·9	..	1·7	0	0	14	4	3	1	1	0	1	0	4	14	0
Sibsagar	0830	97	1019·4	1008·0	+3·2	18·4	16·3	14·8	16·8	80	−8	3·4	−2·4	1·8	0	0	12	2	5	1	0	0	4	0	0	16	0
	1730	,,	1013·7	1002·8	..	21·8	17·7	14·9	16·9	66	..	4·0	..	1·6	0	0	9	3	5	0	0	0	1	0	0	19	0
Gohpur	0830	..	..	..	..	17·8	15·7	14·2	16·1	80	..	..	..	4·0	0	1	27	2	9	6	7	2	2	0	0	0	0
	1730	..	..	..	..	29·9	17·3	14·6	16·7	69	..	..	..	3·1	0	0	28	7	12	2	3	0	3	0	1	0	0
Majbat	0830	77	..	..	..	..	..	..	..	..	..	2·3	..	2·2	0	0	8	0	4	2	2	0	0	0	0	17	0
	1730	,,	..	..	..	..	..	..	..	..	..	2·0	..	0·2	0	0	2	0	0	1	0	0	1	0	0	26	0
Jorhat (Aerodrome)	0530	90	1014·6	1003·9	..	13·2	13·0	12·7	14·7	97	..	3·4	..	0·8	0	0	4	0	2	1	0	1	0	0	0	24	0
	0830	,,	1016·7	1006·1	..	17·1	15·5	14·4	16·4	84	..	4·1	..	3·2	0	0	13	0	5	6	0	0	1	0	1	15	0
(R)	1130	,,																									
	1730	,,	1012·4	1002·0	..	20·9	17·2	14·3	16·3	65	..	3·2	..	4·4	0	2	12	6	5	1	0	0	2	0	0	14	0
	2330	,,	1004·7	1004·1	..	15·3	14·6	14·0	16·0	93	..	2·6	..	1·9	0	0	7	0	3	4	0	0	0	0	0	21	0
Tangla	0830	78	1016·3	1007·4	..	18·5	16·1	14·2	16·2	77	..	1·5	..	0·7	0	0	2	0	1	1	0	0	0	0	0	26	0
	1730	,,	1013·1	1003·8	..	21·0	17·7	15·4	17·6	70	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Tezpur	0830	79	1016·5	1007·2	−0·2	18·3	15·8	14·0	16·0	76	−5	3·0	0	2·8	0	0	19	0	19	0	0	0	0	0	0	9	0
	1730	,,	1014·0	1004·9	..	22·5	17·4	13·7	15·7	56	..	2·2	..	0·7	0	0	5	0	4	0	0	0	1	0	0	23	0
Golaghat	0830	..	..	..	..	18·3	15·8	13·9	15·9	76	..	4·9	..	0·1	0	0	1	0	0	0	1	0	0	0	0	27	0
	1730	..	..	..	..	24·3	18·2	13·9	15·9	54	..	3·2	..	(j) 0	0	0	0	0	0	0	0	0	0	0	0	21	0
Rangia	0830	..	..	..	..	19·6	16·7	14·7	16·7	73	..	(d) 1·7	..	(d) 3·7	0	0	24	0	4	18	2	0	0	0	0	3	0
	1730	..	..	..	..	23·5	18·3	14·8	16·8	58	..	(m) 1·1	..	(m) 1·4	0	0	4	0	0	1	0	0	0	3	0	14	0
Chaparmukh	0830	66	1017·5	1009·8	..	18·2	16·0	14·4	16·4	78	..	2·6	..	4·0	0	0	28	4	0	16	3	5	0	0	0	0	0
	1730	,,	1013·8	1006·3	..	22·7	18·3	15·4	17·5	65	..	3·0	..	3·4	0	0	28	6	1	9	1	8	1	2	0	0	0
Goalpara	0830	38	1017·3	1012·7	..	17·2	15·3	13·6	15·6	81	..	1·8	..	2·0	0	0	15	0	5	4	5	1	0	0	0	13	0
	1730	,,	1012·7	1008·3	..	26·7	19·4	14·3	16·5	49	..	0·7	..	(d) 3·6	0	0	26	3	8	1	3	0	5	0	6	1	0
Gauhati	0830	55	1016·8	1010·2	+1·1	18·4	16·2	14·6	16·6	78	−1	1·5	−1·2	0·4	0	0	4	0	2	2	0	0	0	0	0	24	0
	1730	,,	1012·5	1006·2	..	24·3	18·5	14·4	16·6	55	..	1·7	..	0·1	0	0	1	0	0	0	0	0	1	0	0	27	0

(j) Mean of 21 days. (d) Mean of 27 days. (m) Mean of 18 days (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations — Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —(*Contd.*)																											
Gauhati (Bhorjor)	0230	54	1014·1	1007·6	..	14.2	13·4	12·7	14·7	91	..	2·4	..	1·7	0	0	9	0	4	0	0	2	3	0	0	19	0
	0530	"	1014·5	1008·1	..	13·1	12·5	12·0	14·0	93	..	2·4	..	1·0	0	0	5	2	0	1	0	2	0	0	0	23	0
	0830	"	1016·8	1010·4	+1·2	18·3	16·1	14·5	16·5	79	+11	2·7	0	1·9	0	0	12	2	5	1	1	2	1	0	0	16	0
	1130	"	1015·4	1009·1	..	24·0	17·7	13·1	15·2	52	..	2·8	..	5·3	0	0	28	9	6	4	0	0	2	1	5	0	1
	1730	"	1012·4	1006·2	..	22·7	17·5	13·7	15·8	58	..	3·6	..	2·4	0	0	17	3	2	1	4	2	3	1	1	11	0
	2330	"	1014·9	1008·4	..	15·6	14·5	13·7	15·7	88	..	2·3	..	1·7	0	0	10	0	2	2	0	3	3	0	0	18	0
Dibrugarh (Rupsi)	0530	36	1013·5	1009·1	..	12·8	12·1	11·4	13·5	92	..	1·8	..	2·1	0	0	12	1	10	0	0	0	0	1	0	16	0
	0830	"	1015·8	1011·6	..	19·4	16.5	14·5	16·4	74	..	3·0	..	6·7	0	0	28	1	12	9	3	0	2	1	0	0	0
	1130	"	1054·9	1010·7	..	24·6	17·9	12·8	15·0	49	..	1·9	..	10·5	0	1	27	1	6	6	7	1	3	2	2	0	0
	1730	"	1011·8	1007·7	..	21·6	17·6	14·8	16·8	68	..	3·0	..	2·4	0	0	7	0	1	0	0	0	0	3	3	21	0
Dhubri	0830	35	1017·0	1012·8	+1·3	18·7	16·2	14·4	16·4	75	−1	1·3	−0·7	1·5	0	0	11	0	9	1	1	0	0	0	0	17	0
	1730	"	1013·3	1009·2	..	23·4	17·8	13·7	15·9	55	..	1·0	..	0·5	0	0	5	0	2	0	0	0	2	0	1	23	0
Lumding	0830	149	1017·1	999·6	..	17·2	15·1	13·6	15·5	79	−8	2·2	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	"	1012·6	995·5	..	22·8	18·1	15.2	16·9	62	..	3·6	..	0·9	0	0	6	1	1	0	1	1	1	0	1	22	0
Tura	0830	370	1017·0	974·4	..	18·8	15·0	12·1	14·1	66	..	2·7	..	2·7	0	0	19	1	3	9	2	2	2	0	0	9	0
	1730	"	1013·6	971·9	..	23·9	17·3	12·2	14·2	49	..	3·5	..	1·5	0	0	13	0	1	2	2	0	6	1	1	15	0
Haflong	0830	682	1015·8	938·8	..	17·2	13·4	10·4	12·4	66	..	2·3	..	6·2	0	2	26	2	0	0	0	1	23	0	2	0	0
	1730		1011·9	935·5	..	19·1	14·3	10·5	12·4	59	..	2·6	..	7·5	0	1	27	0	0	0	0	0	28	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1013·6	1002·1	..	14·3	13·2	12·2	14·2	88	..	1·7	..	8·3	0	0	28	0	3	24	1	0	0	0	0	0	0
	0830	"	1015·5	1004·2	..	18·4	15·8	13·9	15·9	75	..	2·4	..	6.3	0	0	28	0	1	23	3	0	0	1	0	0	0
	1130	"	1013·8	1002·7	..	24·5	18·3	13·9	15·9	53	..	2·6	..	4·3	0	0	22	1	1	5	3	1	9	2	0	6	0
	1730	"	1011·3	1000·2	..	23·5	18·0	14·2	16·2	57	..	1·8	..	1·8	0	0	11	0	3	0	1	0	2	5	0	17	0
Silchar	0830	29	1016·9	1013·3	+0.7	19·1	16·2	14·1	16·1	73	−4	2·6	+0·3	1·1	0	0	10	0	4	3	2	0	1	0	0	18	0
	1730	"	1512·7	1009·3	..	23.9	18·3	14·5	16·5	57	..	1·1	..	0·2	0	0	2	0	0	1	0	0	0	1	0	26	0
Imphal (Tulihal)	0530	781	1018·2	927·7	..	8·6	8·3	8·1	10·8	96	..	3·3	..	0·2	0	0	2	0	1	1	0	0	0	0	0	26	0
	0830	"	1018·4	929·5	+1·2	14·3	12·2	10·3	12·7	77	+7	3·0	+0·5	1·6	0	0	14	1	3	1	3	4	1	1	0	14	0
	1130	"	1014·8	928·1	..	20·9	14·9	10·3	12·5	52	..	3·9	..	5·9	0	0	28	1	2	0	0	4	7	14	0	0	0
	1730	"	1012·6	925·6	..	18·9	13·6	9·4	11·7	55	..	3·4	..	9·0	0	1	27	1	1	0	0	2	1	17	6	0	0
	2330	"	1016·8	927·7	..	12·7	11·3	10·0	12·3	84	..	2·7	..	1·6	0	0	8	0	2	1	0	0	1	0	4	20	0
Kailashshar	0530	29	1015·3	1011·7	..	13·0	12·6	12·1	14·1	95	..	3·0	..	0·7	0	0	3	2	1	0	0	0	0	0	0	25	0
	0830	"	1016·9	1013·5	..	18·1	15·9	14·3	16·3	77	..	2·9	..	1·6	0	0	9	0	1	0	1	4	2	1	0	19	0
	1130	"	1015·7	1012·4	..	25·9	18·9	14·0	16·0	50	..	2·7	..	3·9	0	0	23	5	2	1	1	4	2	7	1	5	0
	1730	"	1012·8	1009·4	..	23·5	18·6	15·1	17·1	59	..	2·4	..	2·0	0	1	4	1	0	1	0	1	1	0	1	23	0
Agartala	0230	16	1013·2	1011·3	..	15·1	14·0	13·1	15·1	89	..	1·7	..	1·8	0	0	8	1	0	0	3	2	0	1	1	20	0
	0530	"	1013·6	1011·7	..	14·1	13·2	12·6	14·6	91	..	2·3	..	2·3	0	0	10	1	1	0	3	3	0	1	1	18	0
	0830	"	1015·7	1013·8	+1·7	20·2	17·1	14.8	16·8	72	+1	2·4	+0·2	4·2	0	0	14	1	2	1	3	3	0	0	4	14	0
	1130	"	1014·6	1012·8	..	26·8	18·4	21·2	14·2	41	..	2·2	..	0·9	0	0	28	3	1	0	2	1	5	7	9	0	0
	1730	"	1012·0	1010·2	..	24·7	18·1	13·3	15·3	50	..	1·8	..	5·5	0	1	21	2	2	0	0	1	3	4	10	6	0
	0230	"	1013·9	1012·0	..	17·0	15·3	13·9	15·9	83	..	1·4	..	3·3	0	0	9	0	0	1	2	3	1	2	0	19	0
Sub-Himalayan West Bengal.																											
Baghdogra	0230	131	1013·9	993·5	..	14.6	13.6	12.8	15.8	89	..	2·2	..	3·0	0	0	17	14	1	0	0	0	1	1	0	11	0
	0530	"	1014·2	998·7	..	12·6	12·2	11·8	13·8	95	..	2·1	..	4·2	0	0	22	15	3	1	0	0	2	0	1	6	0
	0830	"	1016·2	1000·9	+2·0	18·7	16·2	14·3	16·3	76	+5	2·6	+0·8	5·1	0	0	24	6	2	10	2	3	1	0	0	4	0
	1130	"	1015·1	1000·2	..	24·9	18·8	14·9	16·8	56	..	3·1	..	6·6	0	0	24	0	0	2	13	3	3	1	1	4	1
	1730	"	1012·4	997·3	..	21·3	18·0	15·7	7·8	71	..	3·3	..	5·0	0	1	20	1	2	0	2	0	8	7	1	7	0
	2330	"	1014·4	999·1	..	16.8	14·9	13.6	15.6	81	..	2·2	..	4·1	0	1	18	12	3	1	0	0	2	0	1	9	0
Jalpaiguri	0830	83	1016·5	1006·7	+1·2	16·5	14·6	13·1	15·1	82	+2	1·3	−0·4	4·5	0	0	25	10	1	1	0	0	0	1	12	3	0
	1730	"	1012·4	1002·9	..	23·2	17·5	13·4	15·4	54	..	1·8	..	4·4	0	0	18	1	0	0	4	0	8	4	1	10	0
Cooch Behar	0830	43	1016·7	1011·7	..	18·7	15·8	13·7	15·7	73	..	2·0	..	4·8	0	1	18	1	4	12	0	0	2	0	0	9	0
	1130	"	1015·5	1010·7	..	24·1	18·1	14·2	16·2	54	..	1·9	..	8·1	0	1	24	0	2	13	2	2	2	3	0	3	1
	1730	"	1012·6	1007·7	..	22·6	18·0	14·9	16·9	62	..	2·1	..	1·5	0	0	5	0	2	0	0	0	1	2	0	23	0
Balurghat	0830	..	..	..	..	19·1	15·9	13·3	15·3	70	..	1·5	..	3·3	0	0	27	6	5	0	1	1	5	5	4	1	0
	1730	..	..	..	..	25·4	18·1	12·9	14·9	46	..	1·2	..	2·0	0	0	16	1	1	1	0	1	3	6	3	12	0
Malda	0830	31	1016·6	1012·9	+1·1	18·7	15·4	12·9	14·9	70	−1	2·2 (f)	+0·8	4·6 (f)	0	0	23	6	3	1	0	0	2	3	8	5	0
	1730	"	1013·2	1009·6	..	25·3	17·6	11·6	13·7	44	..	2·2	..	4·6	0	1	19	4	1	1	0	0	2	1	11	5	0

(f) —Mean of 25 days.

Division and station	Hour of observation I.S.T.	Station elevation in Meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	1016·4	1014·0	+0·9	19·7	16·4	14·1	16·1	71	+1	1·2	−1·0	3·3	0		21	6	1	3	1	3	2	2	3	7	0
	1730	,,	1012·3	1010·1	..	25·3	18·0	12·8	14·8	48	..	1·7	..	2·1	0	0	14	1	1	0	0	6	1	3	2	14	0
Suri	0830	77	..	..	..	19·2	15·5	12·6	14·6	64	..	2·5	..	4·2	0	0	25	4	0	0	0	2	5	8	6	5	0
Asansol	0230	126	1014·4	999·7	..	16·9	15·0	13·5	15·5	80	..	1·5	..	0·6	0	0	3	0	0	0	0	0	0	1	2	25	0
	0530	,,	1014·9	1000·0	..	15·6	14·3	13·1	15·1	86	..	1·5	..	0·6	0	0	4	0	0	0	1	0	0	1	2	24	0
	0830	,,	1016·9	1002·3	+1·9	19·8	16·6	14·3	16·3	71	+8	1·2	−0·9	5·5	0	0	22	3	0	1	0	0	1	8	9	6	0
	1130	,,	1015·9	1001·5	..	25·6	18·6	14·2	16·2	49	..	1·0	..	7·6	0	0	23	4	1	2	1	1	2	5	7	5	0
	1730	,,	1012·8	998·5	..	24·9	18·6	14·2	16·2	52	..	1·9	..	2·7	0	0	12	0	1	0	1	0	0	4	6	16	0
	2330	,,	1015·1	1000·4	..	19·8	16·0	13·1	15·0	75	..	1·5	..	1·6	0	0	6	1	1	0	0	2	0	1	1	22	0
Shanti Niketan	0830	59	1017·2	1010·3	..	19·9	15·8	12·7	14·7	65	..	1·9	..	3·9	0	0	23	5	2	0	0	1	1	4	10	5	0
	1130	,,	1016·3	1009·6	..	25·9	17·7	11·7	13·7	42	..	1·4	..	6·6	0	1	25	5	4	2	0	1	3	3	8	2	0
	1730	,,	1013·1	1006·4	..	24·2	17·4	12·4	14·4	48	..	2·0	..	4·3	0	1	18	1	2	0	0	1	4	4	7	9	0
Krishnanagar	0230	15	1017·4	1015·7	+2·1	19·9	16·7	14·7	16·7	72	−1	0·9	−1·3	0·1	0	0	1	0	0	0	0	0	0	0	1	27	0
	1730	,,	1013·4	1011·7	..	26·4	19·9	16·0	18·2	54	..	1·0	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Purulia	0830	255	1017·3	987·8	+1·8	18·9	14·9	11·7	13·7	64	+11	1·3	+0·1	2·6	0	0	19	1	0	0	2	0	3	1	12	9	0
	1730	,,	1013·1	984·4	..	24·9	17·2	11·3	13·4	44	..	2·0	..	1·6			12	0	4	0	1	0	1	0	6	16	0
Burdwan	0830	32	1017·0	1013·3	+1·8	21·2	16·8	13·6	15·6	62	−5	1·4	−0·9	1·3	0	0	7	2	2	2	0	0	0	0	1	21	0
	1730	,,	1012·4	1008·9	.	26·1	18·9	12·1	14·1	42	..	1·7	.	1·2	0	0	8	4	1	2	0	0	1	0	0	20	0
Barrackpore (Aerodrome)	0530	7	1014·6	1013·8	.	16·0	14·5	13·3	15·3	86	..	2·1	.	2·0	0	0	10	1	1	2	0	1	2	0	3	18	0
	0830	,,	1016·7	1015·9	+2·0	20·8	17·4	15·1	17·1	70	+1	2·0	+0·2	6·6	0	0	22	5	7	2	0	3	2	1	2	6	0
	1130	,,	1016·0	1015·2	..	26·1	18·3	12·9	14·9	46	..	1·4	..	9·6	0	0	26	7	4	2	1	1	5	3	3	2	0
	1730	,,	1012·9	1012·1	..	25·7	19·1	14·9	16·9	51	..	1·9	..	2·9	0	0	13	1	2	0	0	3	1	3	3	15	0
	2330	,,	1015·1	1014·3	..	18·3	16·1	14·5	16·5	79	..	0·9	..	1·8	0	0	7	1	1	0	1	1	1	2	0	21	0
Calcutta (Dum Dum)	0230	6	1013·8	1013·0	..	16·7	15·9	15·4	17·5	92	..	1·5	..	1·2	0	0	7	2	0	1	1	0	1	0	2	21	0
	0530	,,	1014·1	1013·3	..	15·6	14·9	14·4	16·4	93	..	1·8	..	1·6	0	0	8	4	0	1	0	1	1	0	1	20	0
	0830	,,	1016·5	1015·7	+1·6	20·6	17·3	15·0	17·0	72	+2	2·0	+0·1	4·5	0	0	24	8	4	0	1	3	2	1	5	4	0
	1130	,,	1015·6	1014·9	..	26·5	19·6	15·1	17·1	51	..	1·6	.	5·5	0	0	27	7	7	3	0	2	3	2	3	1	0
	1730	,,	1012·6	1011·8	..	25·7	20·0	16·5	18·8	57	..	2·3	.	1·3	0	0	6	1	0	0	0	3	1	1	0	22	0
	2330	,,	1014·5	1013·7	.	18·1	17·1	16·4	18·6	88	..	1·1	..	2·3	0	0	12	2	2	1	1	3	2	1	0	16	0
Calcutta Alipore	0830	6	1016·2	1015·4	+1·0	19·9	16·8	14·5	16·5	72	−7	2·1	−0·2	5·5	0	0	25	3	5	1	2	3	3	1	7	3	0
	1130		1015·2	1014·5	.	26·8	18·9	13·7	15·7	45	..	1·5	.	5·6	0	0	27	5	5	3	3	2	2	1	6	1	0
	1730	,,	1012·4	1011·7	.	26·3	19·2	14·4	16·4	49		2·0	.	4·7	0	0	26	1	0	0	2	3	5	3	12	2	0
Midnapore	0830	45	1016·4	1011·1	+1·2	20·5	16·5	13·7	15·7	64	0	1·3	−0·7	2·9	0	0	22	8	7	2	0	4	0	1	0	6	0
	1730		1012·3	1007·1	..	27·3	18·2	11·5	13·6	39	..	1·5	..	3·8	0	0	23	7	8	0	1	3	2	1	1	5	0
Contai	0830	11	1016·2	1015·0	+2·3	20·8	17·8	15·8	17·9	72	+4	1·2	0	3·2	0	0	23	15	1	0	1	1	2	1	2	5	0
	1730	,,	1012·4	1011·2	..	24·7	19·8	16·7	19·0	61	.	1·1	.	6·0	0	0	25	3	0	0	6	11	4	0	1	3	0
Sagar Island	0830	3	1015·8	1015·4	+0·8	21·6	18·8	17·1	19·5	75	−3	2·2	−0·4	10·6	0	1	25	6	6	1	1	1	2	4	5	2	0
	1730	,,	1012·4	1012·1		23·9	20·0	17·6	20·1	68	..	2·1		14·3	3	1	27	2	2	1	6	11	6	0	0	0	0
Saidheads	0530	10	1012·1	1011·0	..	22·6	20·3	18·8	21·7	80	..	1·7	..	9·6	0	3	21	4	1	1	0	2	7	3	6	4	0
	0830	,,	1016·8	1015·7	+1·6	23·5	20·7	18·9	21·8	75	+5	1·5	−0·3	6·8	0	1	23	7	4	0	0	1	5	5	2	4	0
	1130	,,	1016·7	1015·6	..	24·6	21·1	19·0	22·0	71	..	1·4		7·3	0	0	27	7	4	1	1	1	5	3	5	1	0
	1730	,,	1015·3	1014·2	..	25·0	21·2	19·1	22·1	70	..	1·6		5·7	0	2	14	0	1	2	1	4	6	2	0	12	0
	2330	,,	1016·0	1014·9	..	23·2	20·7	19·1	22·1	78	..	1·9		7·3	0	2	23	0	2	1	2	5	11	1	3	3	0
Orissa																											
Baripada	0830	54	1017·5	1011·2	..	19·9	16·1	13·4	15·4	66	..	0·8	..	3·5	0	0	23	7	5	0	1	1	1	1	7	5	0
	1730	,,	1013·3	1007·1	..	26·6	19·0	13·8	15·8	46	..	1·3	..	2·7	0	0	18	3	4	1	8	1	0	0	1	10	0
Jharsuguda	0230	230	1013·8	987·0	..	16·7	14·4	12·5	14·5	77	..	2·0	..	2·7	0	0	13	7	2	1	0	0	0	1	2	15	0
	0530	,,	1014·4	987·5	..	15·6	14·0	12·7	14·7	83	..	2·0		4·6	0	0	22	13	6	0	0	0	0	2	1	6	0
	0830	,,	1016·5	989·9	+1·8	19·3	15·5	12·4	14·4	65	+9	2·1	+0·8	5·5	0	0	25	17	6	0	0	0	1	0	1	3	0
	1130	,,	1015·4	989·4	..	26·0	17·5	10·9	13·0	40	..	1·8	..	6·7	0	1	26	3	4	6	5	2	4	1	2	1	0
	1730	,,	1011·8	986·0	..	26·9	18·0	11·3	13·4	38	..	2·3	..	4·3	0	0	19	1	1	0	3	3	4	4	3	9	0
	2330	,,	1014·6	988·0	..	19·4	15·7	12·9	14·9	66	..	1·6	...	4·3	0	1	14	5	2	2	1	1	0	0	4	13	0
Keonjhargarh	0830	463	1016·0	961·4	..	19·8	16·2	13·8	15·8	69	..	1·5	..	1·6	0	0	23	6	4	4	0	1	0	1	7	5	0
	1730	,,	1012·4	958·0	..	25·7	18·7	14·6	16·6	50	..	1·8	..	3·6	0	0	28	1	3	4	4	1	0	9	6	0	0
Balasore	0830	20	1016·4	1014·1	+1·2	20·9	17·3	14·9	16·9	69	0	1·6	−0·4	4·5	0	0	27	19	2	0	0	2	2	0	2	1	0
	1730	,,	1012·6	1010·3	..	24·5	19·8	16·9	19·3	63	..	1·8	..	3·7	0	0	19	0	0	1	10	8	0	0	0	9	0
Sambalpur	0830	148	1016·3	999·2	+1·2	21·6	17·1	14·1	16·1	61	−4	1·5	−0·2	0·4	0	0	4	1	1	0	1	0	0	0	1	24	0
	1730	,,	1012·0	995·3	..	27·3	18·6	12·5	14·5	42	..	1·2	..	0·4	0	0	4	0	0	0	2	2	0	0	0	24	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY 1962 (MAGHA 12, PHALGUNA 9, 1883 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*(Contd.)*																											
Angul	0830	139	1017·0	1000·9	+2·1	20·1	16·8	14·4	16·4	70	+3	2·0	−0·4	1·1	0	0	10	1	2	1	1	2	0	1	2	18	0
	1730	,,	1012·6	996·9	..	28·1	18·5	11·6	13.7	35	..	1·5	..	2·2	0	1	10	1	0	2	4	2	0	2	0	17	0
Cuttack	0830	27	1016·9	1013·8	+1·7	21·3	18·8	17·2	19·6	78	+2	1·1	−1·2	2·0	0	0	7	0	4	0	0	0	0	3	0	21	0
	1730	,,	1012·6	1009·6	..	27.3	20·9	16·9	19·3	51	..	2·1	..	2·5	0	0	10	0	1	1	3	2	2	0	1	18	0
Chandbali	0830	6	1016·6	1015·9	+1·7	21·5	19·1	17·5	20·0	79	+2	2·7	+0·5	4·0	0	0	24	3	4	0	1	1	5	2	8	4	0
	1730	,,	1013·4	1012·7	..	25·1	19·6	16·2	18·4	58	..	2·0	..	7·4	0	1	26	0	3	4	18	0	2	0	0	1	0
Bolangir	0830	190	1015·9	994·0	..	21·1	17·2	14·5	16·5	67	..	0·9	..	3.0	0	0	28	8	5	0	3	6	4	1	1	0	0
	1730	,,	1013·4	992·1	..	28·2	19·3	13·4	15·4	40	..	1·4	..	3·4	0	0	28	12	5	0	2	3	1	1	4	0	0
Phulbani	0830	464	1015·6	962·5	..	17·4	14·8	13·0	15·0	75	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	,,	1009·8	958·5	..	26·2	21·1	18·5	21·3	63	..	0·7	..	0·7	0	0	5	5	0	0	0	0	0	0	0	23	0
Titlagarh	0830	211	1015·1	991·0	..	23·3	22·0	21·3	25·3	87	..	0·2	..	3·0	0	0	28	0	19	0	9	0	0	0	0	0	0
	1730	,,	1012·9	989·2	..	27·4	25·1	23.9	29·7	83	..	0	..	3·0	0	0	28	0	21	0	7	0	0	0	0	0	0
Bhubaneswar	0230	46	1013·8	1008·4	..	19·4	18·1	17·4	19·9	87	.	1·1	..	3·0	0	1	17	5	0	1	0	5	4	0	3	10	0
	0530	,,	1014·1	1008·7	..	18·4	17·3	16·7	19·0	90	..	1·6	.	5·1	0	1	17	5	1	2	0	2	5	0	3	10	0
	0830	,,	1016·4	1011·0	+2·0	21·8	18·5	16·6	18·9	71	+3	2·0	−0·1	5·0	0	0	23	6	3	3	0	1	4	2	3	5	1
	1130	,,	1015·6	1009·6	..	27.4	19·2	13·6	15·6	43	..	1·4	..	8.5	0	2	22	2	3	5	2	6	4	1	0	4	1
	1730	,,	1012·8	1007·5	.	26·2	19·4	15·0	17.0	51	..	2·3	..	11·2	0	2	24	0	0	6	6	8	5	0	1	2	0
	2330	,,	1014·8	1009·4	..	20·8	18·9	17·9	20·5	83	..	1·4	..	5·1	0	2	19	1	1	0	1	5	1	2	1	7	0
Puri	0830	6	1016·4	1015·6	+1·5	23·3	20·3	18·8	21·7	76	0	2·8	+0·8	8·7	0	1	24	15	3	0	1	0	6	1	2	0	0
	1730	,,	1013·1	1012·4	.	24·4	21·1	19·2	22·2	74	..	2·2	..	16·7	0	5	23	1	0	1	10	13	3	0	0	0	0
Gopalpur	0530	17	1014·3	1012·3	..	19·2	18·1	17·4	19·9	89	..	2.0	..	8·1	0	1	26	9	0	0	0	1	3	1	13	1	0
	0830	,,	1016·5	1014·5	+1·7	22·0	19·4	17·8	20·4	77	+4	1·7	+0·5	10·6	0	2	25	11	1	0	0	1	2	1	11	1	0
	1130	,,	1016·0	1014·0	..	26·3	21·5	18·8	21·7	64	..	1·7	..	14·5	0	5	23	1	2	8	11	5	1	0	0	0	0
	1730	,,	1013·2	1011·3	..	24·5	21·3	19·5	22·7	74	..	2·3	..	14·8	0	4	24	0	0	7	11	8	1	1	0	0	0
	2330	,,	1015·1	1013·1		21·8	20·2	19·3	22·4	85	..	2·3	..	7·6	0	1	24	4	0	1	1	3	11	2	3	3	0
Koraput	0830	913	1546·8	915·1	+1·6	20·8	15·5	11·9	13·9	59	−3	1·2	−0·1	4·9	0	0	28	0	0	3	13	7	2	1	2	0	0
	1730	,,	1507.2	910·6	..	21·6	15·5	10·8	12·9	53	..	1·6	..	7·1	0	0	28	11	1	0	4	3	6	3	0	0	0
Bihar Plateau																											
Dumka	0830	149	1016·3	999·0	+1·0	19·5	15·4	12·3	14·3	63	+4	0·5	−1·1	0·5	0	0	3	0	0	0	2	0	0	1	0	25	0
	1730	,,	1012·0	995.0	..	24·3	17·2	11·9	13·9	49	..	0·9	..	3·3	0	0	16	1	1	0	2	0	7	0	5	12	0
Daltonganj	0830	221	1016·6	990·8	+0·8	17·2	14·3	11·9	13·9	72	−1	2·8	+1·2	0·4	0	0	3	1	0	0	1	0	1	0	0	25	0
	1730	,,	1012·2	987·1	..	24·1	16·9	11·3	13·4	46	..	2·0	..	2·1	0	0	8	2	2	0	1	0	0	3	0	20	0
Hazaribagh	0830	611	1016·7	947·1	+1·7	17·1	13·1	10·2	12·4	64	+4	1·6	−0·6	5·1	0	0	17	2	0	1	3	1	4	0	6	11	0
	1730	,,	1012·7	944·4	..	21·7	14·3	8·6	11·2	44	..	1·9	..	8·9	0	0	25	8	1	1	1	1	1	0	12	3	0
Dhanbad	0830	257	1016·6	986·7	..	18·7	15·5	13·2	15·2	70	..	1·3	..	3·1	0	0	27	7	2	0	2	0	1	7	8	1	0
	1730	,,	1012·8	983·7	..	24·2	17·8	13·2	15·2	51	..	2·3	..	2·0	0	0	17	4	0	2	2	2	0	3	4	11	0
Ranchi	0830	655	1016·7	942·4	+1·7	17·7	13·9	11·1	13·2	66	+12	1·8	−0·3	1·4	0	0	12	2	3	1	1	3	1	0	1	16	0
	1730	,,	1013·3	940·4	..	22·2	15·9	11·6	13·7	52	..	3·0	..	1·4	0	0	13		1	0	5	0	0	0	5	15	0
Ranchi (Aerodrome)	0530	652	1015·4	940.5	..	13.5	11·5	9.8	12.1	78	..	1.6	..	2·2	0	0	11	1	0	0	0	1	2	0	7	17	0
	0830	,,	1016·3	942.4	..	17.5	13·4	10.1	12.3	63	..	2.0	..	5·8	0	0	21	6	2	1	0	2	2	1	7	7	0
	1130	,,	1014·9	942.3	..	22.3	15.1	9.6	11.9	45	..	2.5	..	7·0	0	0	28	6	1	1	0	4	8	0	8	0	0
	*1730	,,																									
Jamshedpur	0830	129	1016·9	1001·8	+1·6	18·1	15·7	14·0	16·0	77	+5	1·5	−0·8	3.1	0	0	21	1	0	1	0	0	0	12	7	7	0
	1730	,,	1012·2	997·6	..	26·5	18·5	13·0	15·0	43	..	2·1	..	3·2	0	0	21	4	0	7	3	0	0	7	0	7	0
Jamshedpur (P.B.C.)	0530	142	1014·7	998·0	..	15·5	14·1	13·1	15·1	86	..	0·9	..	2·8	0	0	16	0	1	0	0	2	1	6	6	12	0
	0830	,,	1016·9	1000·4	..	18·1	15·4	13·4	15·4	75	..	1·6	..	4·1	0	0	19	1	0	0	0	0	7	4	7	9	0
	1130	,,	1015·7	999·6	..	24·7	17·4	12·0	14·0	45	..	1·7	..	5·9	0	0	26	2	2	1	1	3	6	4	7	2	0
	1730	,,	1012·2	996·2	..	26·5	17·8	11·1	13·2	38	..	2·3	..	5·4	0	1	22	5	3	3	2	0	1	5	4	5	0
	2330	,,	1014·7	998·2	..	18·4	15·9	14·2	16·4	77	..	1·5	..	3·7	0	0	18	1	4	1	0	1	2	2	7	10	0
Chaibasa	0830	226	1016·3	990·1	+1·1	18·3	15·2	12·7	14·7	69	−2	2·0	−0.1	3·2	0	0	23	0	0	0	2	0	19	0	2	5	0
	1730	,,	1012·4	986.6	..	26·2	17·4	10·6	12·8	39	..	2·0	..	2·5	0	0	16	0	4	0	2	0	6	1	3	12	0
Bihar Plains																											
Motihari (R)	0830	66																									
(R)	1730	,,																									
Forbesganj	0830	61	1016·4	1009·2	..	18·0	15·2	13·0	15·0	73	..	2·0	..	3·3	0	0	22	1	6	5	2	0	1	6	1	6	0
	1730	,,	1012.6	1005.6	..	23.2	17.4	13.2	15.2	55	..	2.0	..	2.6	0	0	19	1	0	1	0	0	2	14	1	9	0
Darbhanga	0830	49	1017.1	1011.3	+2.0	20.0	16.3	13.6	15.5	68	−5	1.6	−0.1	3.2	0	0	28	0	3	3	0	2	1	13	6	0	0
	1730	,,	1013.9	1008.1	..	22·3	17·5	14·2	16·2	59	..	1·4	..	1·1	0	0	8	0	0	0	1	0	0	5	2	20	0

*Data not availaqle.

(g) Mean of 22 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity	Departure from normal	Mean amount (Oktas)	Mean amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar plains—(Contd.)																											
Gaya (contd.)	0830	..	..	..	..	17.1	14.7	12.8	14.5	74	..	1.8	..	4·0	0	0	27	4	5	2	1	0	10	0	5	1	0
	1730	..	..	..	..	22.2	16·7	12·8	14.8	56	..	2.0	..	2·8	0	0	23	3	5	0	0	0	9	1	5	5	0
Purnea	0830	38	1017·0	1012.5	+1·7	18·7	15·5	13·3	15·4	71	−.5	1·9	+0.2	2·2	0	0	13	0	1	1	0	1	4	6	0	15	0
	1730	„	1013·1	1008.8	..	22·7	17·2	13·2	15·2	56	..	1·7	..	1·2	0	0	6	0	1	0	0	0	0	4	1	22	..
Patna	0830	53	1016.5	1010·2	+1.0	16·7	14·3	12·5	14·5	76	+.13	2.8	+0·9	6·4	0	0	26	0	6	0	1	5	7	4	3	2	..
	1730	„	1013·2	1007·1	..	23.9	17·1	11·8	13·8	48	..	1·8	.	5·3	0	0	24	1	2	2	1	0	1	11	6	4	.
Patna (Aerodrome)	0530	60	1014.2	1007·1	..	13·4	12·2	11·3	13·5	39	..	1·2	..	2·5	0	1	6	0	1	0	1	0	2	3	0	21	0
	0830	„	1016·4	1009.3	..	17·1	14·6	12·7	14·7	76	..	2·2	..	5·3	0	0	21	1	1	1	3	1	8	4	2	7	..
	1130	„	1015.9	1009·1	..	22·7	16·9	12·9	14·9	51	..	2.5	..	9·5	0	0	27	0	3	2	4	1	1	7	8	0	0
	1730	„	1012.9	1006·1	..	23·0	17·3	13·1	15.1	51	..	1·9	..	3.3	0	0	17	1	1	2	1	1	1	3	7	11	0
	2330	52	1015·2	1009·1	..	16·4	11·5	13.2	15·2	81	..	1·0	..	0·9	0	0	6	0	0	1	0	0	0	3	0	22	2
Bhagalpur	0530	49	1014·9	1009·1	..	15·3	13·3	11·9	13·9	80	..	0·9	..	3·2	0	0	11	0	0	0	2	4	5	3	0	11	0
	0830	„	1017·4	1011·6	+2·7	18·4	15·1	12·7	14·7	69	−.8	2·2	+1.1	4·5	0	1	18	0	1	2	0	1	6	7	2	9	0
	1130	„	1016 8	1011·1	..	23·2	17·3	13·2	15·2	53	..	2·1	..	7·0	0	1	23	1	1	4	1	0	0	8	9	4	0
	1730	„	1013.5	1007·9	..	22·9	17·6	13·9	15·9	58	..	1·9	..	4·9	0	1	17	1	2	1	0	0	1	9	4	10	..
	2330	„	1015·4	1009·7	..	13·0	15.1	13·0	15·0	72	..	0·9	..	4·9	0	0	18	0	0	3	0	4	4	7	0	01	0
Saharsa	0830	37	1016·9	1012·5	+2.0	18·0	15·4	13·4	15·4	71	−.5	2·0	−0·4	5·4	0	1	25	0	0	3	1	0	8	8	6	2	0
	1730	„	1013·1	1009·1	..	23·6	18·3	14.9	16·9	59	..	2·0	..	3·6	0	0	18	2	0	0	0	0	0	6	17	13	0
Purnea	0830	82	1018·2	1008·4	..	17·4	15·8	14·6	16·6	81	..	2·1	..	3·1	0	0	25	0	4	6	4	0	2	3	5	3	0
	1730	„	1013.9	1004·3	..	23·8	18·3	15·5	17·6	61	..	2·0	..	3·1	0	0	22	0	1	2	0	0	0	6	13	6	2
[illegible]	0830	107	1016·8	1004·2	..	17·9	15·2	13·0	15·6	77	..	2·1	..	3·1	0	0	28	2	0	2	5	4	11	2	2	0	0
	1730	„	1012·6	1000·3	..	21·5	16·9	11·3	13·4	41	..	1·9	..	3·4	0	0	28	5	7	4	1	0	1	6	4	0	0
Gaya	0230	116	1015·2	1001·4	..	14·3	12·9	11·8	13·8	85	..	0·7	..	3·9	0	0	21	0	0	2	5	4	7	3	0	7	0
	0530	..	1015·2	1001·3	..	12·9	12·0	11·1	13·2	89	..	0·8	..	3·9	0	0	22	1	0	2	8	4	6	0	1	6	0
	0830	„	1017·1	1003·5	1·8	17·3	14·8	12·9	14·9	76	+1.0	2·1	+0.3	4·9	0	1	22	1	0	0	6	5	8	2	1	5	0
	1130	„	1016·9	1003.5	..	23·4	17·7	13·9	15·9	58	..	2·2	..	8·5	0	2	25	2	2	4	2	1	0	6	10	1	0
	1730	„	1013.4	1000·1	..	23·9	18·4	14·4	16·4	55	..	1·8	..	7·0	0	0	27	8	7	1	0	1	0	0	10	1	0
	2330	..	1015·7	1002·0	.	16·0	14·1	12.8	14·8	81	..	1·0	..	3.3	0	0	21	0	1	2	5	6	4	2	1	7	0
Uttar Pradesh (Contd.)																											
Kheri (R)	0830	147																									
(R)	1730	„																									
[illegible]	0830	124	1016·7	1002.0	+2.1	15·1	13·2	11·3	13·7	80	+.6	3·0	+1.4	3·9	0	0	24	0	0	7	2	0	0	11	4	4	0
	1730	„	1014.0	999·7	..	21·0	16·3	12·8	14·8	60	.	2·5	..	2·6	0	0	20	1	0	4	1	0	3	11	0	8	0
[illegible]	0830	99	1017·5	1005·7	..	13·6	12·9	12·3	14·3	92	..	0.1	.	1·7	0	0	16	3	0	9	2	0	1	0	1	12	0
	1730	„	1015·6	1004.2	..	23·2	13·1	14·5	16·6	59	..	0.7	..	4·0	0	0	26	1	1	3	2	2	13	1	3	2	0
Hardoi	0830	142	1016·7	999 8	+2·7	14·4	12.8	11·3	13·5	83	+.11	1.8	+0·3	4·4	0	0	15	3	1	2	1	0	1	7	0	13	0
	1730	„	1013·4	997·1	..	22·8	16 8	12.2	14·3	53	.	2·1	..	4·3	0	0	13	1	0	4	2	0	0	6	0	15	0
[illegible]	0830	110	1016·7	1003.8	..	15·8	13·9	12·3	14·5	80	+.5	2·3	+0·1	3·2	0	0	23	0	1	7	0	1	0	7	7	5	0
	1730	„	1013·5	1000·9	..	21·8	16·5	12.8	14·8	53	.	2·1	..	2.0	0	0	15	1	0	2	0	0	0	4	8	13	0
Lucknow	0830	111	1016·9	1003.7	+1.6	14·4	13·1	11·9	14.0	85	+.13	2·3	+0·3	2·2	0	0	18	2	2	2	2	1	3	4	2	10	0
	1730	„	1014·1	1001.3	..	22·4	16·6	12·3	14·1	51	..	1·8	..	0·4	0	0	4	0	0	2	0	0	0	2	0	24	0
Lucknow (Amausi)	0230	128	1014·8	999·6	..	13·4	12·3	11·3	13·4	88	..	2·1	..	8 7	0	2	20	2	3	4	2	1	2	4	4	6	0
	0530	„	1014·5	999·3	..	12·3	11·4	10·7	12 8	90	.	1·8	..	8·4	0	1	23	2	4	4	1	1	2	6	4	4	0
	0830	„	1016.6	1001.5	+1·2	15·3	13·5	12 2	14·0	83	+15	2·4	+0·4	11·3	0	3	22	0	5	6	2	1	1	8	2	3	0
	1130	„	1016.6	1001·8	..	21·9	16·3	11·9	14·0	54	..	2·2	..	15·2	0	9	18	3	1	5	4	2	1	7	4	1	0
	1730	„	1013.4	998·7	..	22·2	16·6	12·2	14·4	55	..	2·5	..	10·1	0	0	27	3	6	3	2	1	1	6	5	1	0
	2330	„	1015.4	1000·3	..	14·5	13·4	12·2	14·5	83	..	2·3	..	8·8	0	1	26	3	6	3	2	1	4	5	3	1	0
Mizabad	0830	102	1016.7	1004·6	..	15·4	13·7	12·3	14·3	83	..	2·2	..	3·2	0	0	18	0	3	0	1	2	0	11	1	10	
	1730	„	1013.5	1001·7	..	21·6	17.0	13·9	15·7	63	..	2·4	..	1·6	0	0	11	1	1	2	0	0	0	6	1	17	0
Gorakhpur	0830	77	1015·3	1006·2	−0·5	16·3	14·2	12·3	14 8	74	+3	2·1	+0 6	7.8	0	0	26	3	1	2	3	0	6	10	1	2	[illegible]
	1730	„	1012 4	1003·3	..	23·5	17·3	12·4	14 8	54	..	1·7	..	6.8	0	0	24	1	1	2	1	3	2	1	9	4	[illegible]
Gorakhpur (P.B.O.)	0230	78	1014·5	1005·3	..	16·1	13·9	12·5	14·2	79	..	1·6	..	3·6	0	0	21	7	3	0	0	0	5	4	2	7	[illegible]
	0530	„	1014·4	1005·2	..	15·4	13.6	12·3	14·8	82	..	2·0	..	1·4	0	0	20	4	2	0	0	2	3	4	5	8	[illegible]
	1130	„	1016·5	1007·5	..	22·2	16·6	13·2	14·8	57	..	1.8	..	9·1	0	1	27	2	2	2	2	4	8	4	4	0	
	2330	„	1015·0	1005·9	..	17·8	15·1	13·3	15.3	76	..	1·1	..	4·4	0	0	21	2	5	0	0	0	5	6	3	7	0

(R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Kanpur	0830	126	1017.5	1002·5	+2.1	14·3	12·9	11·9	13·9	86	+18	2·0	+0·7	5·0	0	1	24	1	4	8	2	0	1	7	2	3	0
	1730	,,	1011·5	999·9	..	22·7	16·7	12·0	14·0	53	..	2·7	..	4·9	0	0	27	4	3	9	2	0	0	7	2	1	0
Kanpur (Aerodrome)	0530	126	1014·6	999·7	..	12·9	11·7	10·6	12·8	85	..	1·3	..	3.9	0	0	12	1	2	5	1	0	1	2	0	16	0
	0830	,,	1016·5	1001·7	..	15·3	13·4	11·8	13·8	81	..	2·2	..	9.7	0	1	22	1	3	5	3	1	2	7	1	5	0
	1130	,,	1016·5	1002·1	..	21·8	15·9	11·0	13·3	52	..	1·9	..	14.8	0	2	26	3	3	7	3	2	2	5	3	0	0
	1730	,,	1013·4	998·9	..	22·8	16·4	11·1	13·5	50	..	2·4	..	8.7	0	0	24	3	5	4	1	2	0	7	2	4	0
	2330	,,	1014·9	1000·5	..	16·3	14·0	11·9	11·1	76	..	1·8	..	6·6	0	0	15	0	3	6	0	2	1	2	1	13	0
Sultanpur	0830	97	1017·1	1005·6	..	15·5	13·9	12·5	14·6	83	..	1·8	..	2·6	0	0	20	0	2	7	1	0	1	5	4	8	0
	1730	,,	1013·5	1002·4	..	23·6	17·0	12·3	14·0	51	..	2·0	..	3·3	0	0	23	1	3	5	1	1	0	4	8	5	0
Azamgarh	0830	78	1016·4	1007·2	..	15·7	14·3	13·2	15·2	84	..	1·6	..	4.6	0	0	27	1	1	7	0	1	0	17	0	1	0
	1730	,,	1013·3	1004·3	..	23·2	17·9	14·2	16·2	57	..	1·6	..	1.6	0	0	15	4	0	2	0	0	0	9	0	13	0
Fatehpur	0830	114	1016·7	1003·2	..	15·5	13·9	12·5	14·6	89	+18	1·5	−0·3	5·4	0	0	26	1	3	9	3	0	3	6	1	2	0
	1730	,,	1013·6	1000.5	..	22·8	17·4	13·6	15·4	57	..	1·5	..	3·9	0	0	26	2	9	3	2	0	0	5	5	2	0
Ballia	0830	64	1017·3	1009·9	..	16·7	14·4	12·3	14·6	76	..	2·7	..	0·4	0	0	3	0	1	1	0	0	0	0	1	25	0
	1730	,,	1013·8	1006·4	..	24·3	18·6	14·9	16·8	57	..	1·9	..	1·2	0	0	10	0	1	3	0	0	2	3	1	18	0
Banda	0830	121	1016·3	1002·1	..	16·1	13·9	12·1	14·1	78	..	1·2	..	2·2	0	0	28	0	3	0	8	0	12	0	5	0	0
	1730	,,	1011·7	998·0	..	23·6	18·3	14·6	16·6	59	..	1·1	..	2·0	0	0	28	0	8	0	2	0	7	0	11	0	0
Allahabad (Bamhrauli)	0230	98	1014·7	1003·1	..	14·6	13·3	12·2	14·2	86	..	2·2	..	2·9	0	0	16	3	3	2	2	3	0	2	1	12	0
	0530	,,	1014·7	1003·0	..	13·6	12·5	11·6	13·7	88	..	1·6	..	3·1	0	0	18	1	3	5	0	1	0	2	6	10	0
	0830	,,	1017.0	1005·4	+1·5	16·4	14·2	12·3	14·4	77	+11	1·9	−0·3	3·7	0	0	20	1	3	5	1	0	3	6	1	8	0
	1130	,,	1016·7	1005·5	..	23·6	16·9	11·8	13·8	49	..	2·5	..	7·0	0	0	28	2	1	10	3	4	0	4	3	0	1
	1730	,,	1013·5	1002.3	..	23·6	17·2	12·3	14·4	50	..	2·4	..	5·4	0	0	26	5	8	3	0	0	0	1	9	2	0
	2330	,,	1015·4	1003·9	..	16·3	14·3	12·7	14·7	80	..	1·7	..	3·9	0	1	14	4	3	3	1	0	2	1	1	13	0
Varanasi (Babatpur)	0530	85	1015·9	1005·6	..	13·3	12·3	11·4	13·5	89	..	1·2	..	4·9	0	1	19	2	2	4	1	2	4	4	1	8	0
	0830	,,	1017·9	1007·8	+2·5	15·9	14·3	12·9	15·0	84	+21	1·9	+0·6	7·6	0	0	25	2	4	2	5	0	10	1	1	3	0
	1130	,,	1017·6	1007·6	..	22·8	17·1	12·8	14·9	55	..	1·9	..	10 4	0	3	23	1	0	3	7	2	2	5	6	2	0
	1730	,,	1014·5	1004·5	..	23·8	17·6	13·0	15·1	52	..	2·0	..	9·1	0	0	26	2	8	3	1	0	1	3	7	2	1
	2330	,,	1016.7	1006·4	..	15·8	14·1	12·7	14·7	82	..	1·0	..	5·4	0	0	16	0	3	3	1	1	2	3	3	12	0
Varanasi	0830	76	1017·1	1008·2	−1.8	16·3	14·4	12·6	14·9	80	+11	1·8	−0·1	2.1	0	0	24	1	2	3	3	2	4	7	2	4	0
	1730	,,	1013·2	1004·4	..	24·3	17·5	12·3	14·5	49	..	1·7	..	2.3	0	0	26	0	10	4	0	0	0	10	2	2	0
Uttar Pradesh (West)																											
Dehra Dun	0530	632	1016·4	937·1	..	10·3	8·9	7·5	10·3	83	..	2.5	..	2.0	0	0	19	12	3	0	0	2	0	2	0	9	0
	0830	,,	1017·2	938·6	+1·8	12·7	10·2	7·9	10·4	73	0	3·3	0	1.5	0	0	18	5	4	1	0	0	0	5	3	10	0
	1130	,,	1016·6	939·3	..	18·1	12·8	8·2	10·5	53	..	3·7	..	3·4	0	0	27	4	1	0	2	7	6	3	4	1	0
	1730	,,	1013·3	936·4	..	18·3	13·6	9·8	11·8	59	..	3·7	..	1·6	0	0	18	0	2	0	0	4	6	5	1	10	0
	2330	,,	1017·1	938·4	..	12·7	11·0	9·6	11·8	82	..	2·7	..	2·7	0	0	20	13	4	1	0	1	0	0	1	8	0
Roorkee	0830	274	1018·2	985·7	+2·7	12·7	11·6	10·4	12·8	87	+8	3·5	+0·9	1·4	0	0	20	0	0	0	4	0	0	0	16	8	0
	1730	,,	1004·6	983·1	..	20·9	15·7	11·4	13·6	56	..	4·1	..	1·1	0	0	16	0	0	1	2	0	0	0	13	12	0
Najibabad	0830	270	1016·8	984·9	..	12·5	11·3	10·4	12·4	88	..	3·1	..	1·7	0	0	17	0	5	0	2	0	5	0	5	11	0
	1730	,,	1014·4	983.5	..	21·4	15·8	11·7	13·4	56	..	3·8	..	2·6	0	0	22	1	4	0	0	0	9	1	7	6	0
Meerut	0830	222	1017·6	991·3	+2·0	14·4	12·7	11·1	13·3	81	+11	(c) 0·2	−2·1	6·7	0	0	26	0	9	0	3	0	1	3	10	2	0
Bareilly	0830	173	1016·7	996·3	+1·7	14·4	13·2	11·3	13·4	77	+2	2·0	−0·3	4·9	0	0	27	5	2	6	4	0	2	5	3	1	0
	1730	,,	1012·4	992·5	..	21·3	16·2	12·2	14·3	57	..	3·0	..	1.4	0	0	14	0	0	7	1	0	0	6	0	14	0
Bareilly (P.B.O.)	0230	172	1014·7	994·4	..	15·0	12·9	11·3	13·2	79	..	1·4	..	5·0	0	0	20	3	1	7	2	1	0	6	1	8	0
	0530	,,	1014·6	994·2	..	13·8	12·1	10·7	12·8	88	..	1.5	..	3·4	0	0	19	1	3	6	0	0	0	8	1	9	0
	1130	,,	1016·6	996·7	..	19·7	15·1	11·7	13·4	61	..	2·2	..	6.9	0	1	27	0	0	8	2	0	4	5	8	0	0
	2330	,,	1015·6	995·4	..	16·0	3·6	11·8	13·7	77	..	1·7	..	3.4	0	0	15	1	0	4	1	0	0	9	0	13	0
Aligarh	0830	187	1016·8	994·4	..	13·4	11·7	10·2	12·3	78	+10	2·2	+0·2	2·2	0	0	27	1	0	11	1	0	1	8	5	1	0
	1730	,,	1013·5	992·0	..	22·2	16·3	11·7	13·7	52	..	3·5	..	1.7	0	0	20	4	0	9	1	0	0	4	2	8	0
Mainpuri	0830	157	1017·0	998·5	+1·7	14 4	12·9	11·5	13.7	83	+17	1·2	−1·0	..	..	..	..	0	1	2	11	0	5	6	0	3	0
	1730	,,	1013·4	995.4	..	23·1	17·1	12·5	14·7	52	..	1·3	..	..	..	..	..	0	1	1	8	0	7	3	2	6	0
Agra	0830	169	1016·7	996·5	+0·7	15·2	12·4	9·9	12·1	72	+9	0·9	−1·2	1 6		0	10	0	1	2	2	0	1	0	4	18	0
	1730	,,	1013·4	994·0	..	23·5	16·0	10·0	12·2	43	..	2·2	..	2·2	0	0	12	0	3	3	0	0	0	0	6	16	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—(Contd.)																											
Agra (Aerodrome)	0530	169	1015·3	995·2	..	12·2	10·7	9·1	11.6	82	..	1·8	..	4·5	0	1	14	2	3	4	2	1	0	1	2	13	0
	0830	"	1017·1	996·9	..	13·9	11.6	9 5	11·8	75	..	2·4	..	7·4	0	1	19	1	0	3	5	1	0	6	4	8	0
	1130	"	1017.3	997·6	..	21·5	15.5	10·0	12·5	49	..	2·5	..	11·4	0	3	24	3	1	0	7	1	5	2	8	1	0
	1730	"	1013·2	994·0	..	23 2	15.6	9·0	11·5	42	..	2·9	..	8·4	0	0	23	6	2	5	2	0	1	1	6	5	0
	2330	"	1015·8	995·7	..	15·5	12.7	10·4	12·4	73	..	1·2	..	6·0	0	2	13	1	4	8	1	0	1	0	0	13	0
Orai . . (R)	0830	141																									
(R)	1730	"																									
Jhansi . . .	0830	251	1016·3	986·9	+0·2	17·0	13.7	10·6	13·0	67	+13	1·5	+0.1	0.7	0	0	7	2	0	0	0	2	0	2	1	21	0
	1730	"	1013 1	984·8	..	25·5	16.6	9·1	11·3	37	..	1·9	..	2.7	0	0	22	9	4	3	0	0	2	2	2	6	0
Punjab (India) (Including Delhi																											
Pathankot . .	0830	312	1017·6	980.7	+2·1	12·5	10.9	9 4	11·7	82	+8	3·9	+0·6	6.6	0	0	21	5	5	4	2	2	2	0	1	7	0
	1130	"	1017·5	981·3	..	18·2	13.7	9·7	12·0	58	..	3·8	..	6·9	0	1	24	4	6	2	0	5	5	3	0	3	0
	1730	"	1014 5	978·9	..	19·1	14·6	10·8	12·9	60	..	4·9	..	8·6	0	3	24	0	8	0	0	0	8	9	2	1	0
Amritsar (Rajasansi)	0530	234	1016·2	988·2	..	9·9	9·4	8·2	11·4	90	..	2·3	..	8·4	0	3	19	4	3	3	1	0	1	4	6	6	0
	0830	"	1017·5	989 5	+1·9	10·9	9·9	8 9	11·4	88	+3	2·8	+0·1	8·0	0	2	21	2	3	3	3	1	1	3	7	5	0
	1130	"	1017 8	990.5	..	18·5	13·7	9·4	11·9	56	..	2·7	..	12·9	0	4	22	2	4	4	2	1	1	1	11	2	0
	1730	"	1014·5	987·5	..	20·1	14·7	9·8	12·2	53	..	3·2	..	10·1	0	3	22	1	4	2	2	1	0	4	11	3	0
Adampur (Aerodrome) . (R)	0530	238																									
(R)	0830	"																									
(R)	1130	"																									
(R)	1730	"																									
(R)	2330	"																									
Ludhiana . .	0830	247	1017·9	988·4	+2·0	11.9	10·5	9·3	11 5	85	+9	3·6	+1·0	3·3	0	0	21	2	4	1	3	0	1	3	7	7	0
	1730	"	1014.0	985·5	..	21·1	15 1	10·1	12·4	50	..	3·5	..	4·1	0	0	28	3	3	1	4	2	1	2	12	0	0
Ferozepur . .	0830	200	1016·5	992·6	..	10 8	9 9	8·9	11·5	88	..	1·5	..	1·1	0	0	15	2	5	0	0	0	1	1	6	13	0
	1730	"	1014·3	991·2	..	21 4	15 9	11.3	13·4	55	..	1·8	..	2·3	0	0	25	5	6	0	1	0	2	1	10	3	0
Halwara (Aerodrome) . .	0830	242	1017.6	988·8	.	11·1	10·6	10·1	12·3	91	..	3·3	..	3 0	0	0	23	4	4	2	2	1	1	3	6	5	0
	1730	"	1014·7	986.6	..	20.6	17·6	15·4	17·7	73	..	3·3	..	7·9	0	2	24	4	2	2	3	1	2	5	7	2	0
Chandigarh . .	0830	347	1016·4	975·8	+2 2	15 0	11·9	9·1	11·5	69	+3	2·9	+1·4	3·4	0	0	24	0	12	0	2	0	3	0	7	4	0
	1730	"	1013·2	973·5	..	20·7	11.7	9·5	11·9	52	.	3·9	..	6·8	0	1	26	0	2	0	5	0	11	2	7	1	0
Ambala . . .	0830	272	1017.0	985·0	+1·9	15·3	13 6	12·0	14·2	81	8	1·1	−1·8	1.9	0	0	16	0	4	0	5	0	0	0	7	12	0
	1730	"	1014.2	983·0	..	20.7	17·2	14.6	16·7	73	..	1·2	..	1.8	0	0	15	0	3	0	10	0	0	0	2	13	0
Ambala (P.B.O.) .	0230	278	1015·4	982·0	..	14·3	12 3	10·9	13·2	81	..	2·4	..	5·9	0	2	15	1	3	2	2	0	1	0	8	11	0
	0530	"	1015·2	982·2	..	13·1	11·4	10·1	12·1	83	..	2·8	..	5·9	0	2	15	0	2	0	5	0	2	3	5	11	0
	1130	"	1016.8	984·6	..	19 4	15·0	12·0	14·2	63	..	3·6	..	7·9	0	1	24	2	2	2	5	2	0	2	10	3	0
	2330	"	1015·8	983·3	..	15·4	13·3	11·5	13·6	76	..	2·4	..	6·1	0	1	16	1	1	3	2	0	0	2	8	11	0
Ambala (Aerodrome)	0530	274	1015·3	982·7	..	10·9	10·0	9·1	11·5	89	..	2·5	..	5·4	0	2	12	0	0	5	0	0	0	5	4	14	0
	0830	"	1016·8	984·3	..	12·4	11·1	9·9	12·2	86	..	3.1	..	7·5	0	2	18	2	1	5	2	0	0	3	7	8	0
	1130	"	1016·8	985·1	..	19·5	14 7	10·5	12·9	57	..	3.5	..	14.8	0	9	17	3	0	3	7	0	0	4	9	2	0
	1730	"	1013·7	982·1	..	20·4	14·7	9·8	12·1	52	..	4·0	..	13.9	0	10	12	0	1	3	2	2	0	4	10	6	0
	2330	"	1016·4	984·1	..	13·5	11.8	10·3	12·4	81	..	2·5	..	8.1	0	6	8	1	1	4	0	0	0	3	5	14	0
Patiala . .	0830	251	1017.1	987·6	..	13·8	11.7	9·8	12 2	73	..	3.0	..	6.4	0	0	21	0	0	0	7	0	0	0	14	7	0
	1730	"	1014·4	985·5	..	20·5	14·9	10·0	12·4	52	..	4·0	..	6·4	0	1	20	1	0	1	6	0	0	0	13	7	0
Bhatinda . .	0830	211	1017·2	992·2	..	15·0	12·4	9·6	12·3	70	..	1·5	..	3·8	0	0	21	2	1	2	1	1	0	0	14	7	0
	1730	"	1013.8	989.5	..	21.8	15·1	9·6	11·8	47	..	1·8	..	3·8	0	0	23	6	3	1	2	1	0	0	10	5	0
Karnal . . .	0830	249	1016·4	987·2	..	14·3	12·5	10·9	13·0	80	..	0·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1013·3	984.7	..	21·2	17·7	15·2	17·8	70	..	0·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar . . .	0530	221	1015.7	989.3	..	11·2	10·2	9·3	11·6	80	..	1.5	..	6·8	0	0	25	1	3	5	2	3	2	6	3	3	0
	0830	"	1017·4	991.1	+1·6	12·5	10.7	9·3	11.7	83	+18	3·1	+0·9	5·4	0	0	26	2	1	3	5	2	3	8	2	2	0
	1130	"	1017·2	991·6	..	20.5	15·5	11·4	13.6	57	..	2·4	..	7·7	0	1	27	2	2	2	9	2	2	1	8	0	0
	1730	"	1014·1	988.7	..	22.3	16·1	10·9	13.3	50	..	2·5	..	8·3	0	0	26	1	1	10	3	0	0	4	7	2	0
	2330	"	1016.3	990.2	..	14.2	12.2	10·4	12·6	79	..	1·6	..	4·8	0	0	21	1	4	3	2	1	0	6	4	7	0
New Delhi (Safdarjung)	0230	216	1015·7	990.1	..	13.9	12·1	10·6	12·7	81	..	1·8	..	6.8	0	0	22	1	4	4	3	0	0	3	7	6	0
	0530	"	1015·3	988·8	..	12.6	11·2	9·8	12.2	84	..	1.4	..	5.9	0	0	21	2	1	4	2	1	1	8	2	7	0
	0830	"	1017.0	991·4	+1·4	13.8	11·7	9·7	12·0	77	+14	2.8	+0·4	10.0	0	1	25	3	2	5	2	0	4	6	4	2	0
	1130	"	1017·1	992·0	..	20.6	15·0	10.4	12.5	53	..	2·8	..	15.4	0	9	18	0	2	4	6	2	0	3	10	1	0
	1730	"	1013·8	989·0	..	22.0	15 5	9.9	12.3	47	..	3·4	..	10·5	0	3	22	3	0	9	1	0	0	4	8	3	0
	2330	"	1016·0	990·6	..	15.6	13·3	11.3	13.4	77	..	1·7	..	6·2	0	0	20	1	3	4	2	0	0	0	10	8	0

(R—Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Relative humidity %: Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km./p.h.): 62 or more	Wind speed (km./p.h.): 20 to 61	Wind speed (km./p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) —(*Contd.*)																											
Palam (Aerodrome)	0230	233	1015·6	987·9	..	12·6	11·4	9·7	12·0	82	..	1·7		8·2	0	1	23	0	1	9	1	3	4	4	2	4	0
	0530	„	1015·4	**987·7**	..	11·1	10·1	9·0	11·5	87	..	1·1	..	6·9	0	0	22	0	2	6	3	1	6	2	2	6	0
	0830	„	1016·9	989·4	..	12·7	11·3	9·9	12·3	84	..	2·9	..	9·5	0	1	23	1	3	5	3	3	6	3	0	4	0
	1130	„	1017·2	990·3	..	20·4	14·9	10·5	12·4	54	..	2·6	..	11·5	0	4	24	2	0	5	6	1	2	6	6	0	0
	1430	„	1014·3	987·6	..	22·9	15·9	9·9	12·5	41	..	3·3	..	15·3	0	10	17	2	1	5	4	2	0	3	10	1	0
	1730	„	1014·0	987·1	..	21·6	15·5	9·9	12·6	49	..	3·4	..	11·5	0	3	24	4	2	5	2	1	1	4	8	1	0
	2030	„	1015·3	988·1	..	16·6	13·8	11·3	13·6	71	..	2·1	..	5·3	0	0	25	0	2	11	2	1	3	3	3	3	0
	2330	„	1016·1	988·7	..	14·8	12·6	10·5	12·8	77	..	1·2	..	7·0	0	1	19	2	1	11	1	0	1	1	3	8	0
Himachal Pradesh																											
Mandi	0830	761	1019·0	930·4	+1·7	8·6	7·7	6·8	9·9	89	0	4·5	+1·3	0·1	0	0	2	0	0	0	0	0	0	1	1	26	0
	1730	„	1012·2	927·4	..	17·7	12·6	8·2	10·9	55	..	5·0	..	0·4	0	0	6	0	1	2	2	1	0	0	0	22	0
Bilaspur	0830	493	1019·2	961·2	..	11·0	9·7	8·6	11·1	86	..	4·8	..	(c) 1·0	0	0	3	0	0	0	0	3	0	0	0	23	0
	1730	„	1013·8	957·8	..	19·6	13·8	9·2	11·5	52	..	4·5	..	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Jammu and Kashmir																											
Mirpur (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730	„																									
Leh	0530	3514	3102·5	664·8	..	−9·6	−11·6	−18·5	1·3	48	..	(d) 3·9	..	6·7	0	0	21	1	20	0	0	0	0	0	0	7	0
	0830	„	3114·0	665·5	+1·9	−7·2	−9·7	−17·[illegible]	1·4	49	−15	(d) 4·8	−0·5	3·4	0	0	14	0	6	0	6	6	2	0	0	14	0
	1730	„	3070·1	662·6	..	−1·1	−4·5	−11·5	2·5	44	..	5·7	..	7·8	0	0	26	4	1	0	2	6	10	1	2	2	0
Srinagar	0830	1587	1540·9	845·5	+1·7	2·1	1·5	0·8	6·6	91	+3	6·7	−0·5	1·7	0	0	14	1	1	0	4	0	0	6	2	14	0
	1130	„	1544·2	845·8	..	6·4	4·2	1·5	6·8	72	..	5·7	..	1·6	0	0	16	0	1	0	6	2	1	4	2	12	0
	1730	„	1519·3	843·3	..	8·0	4·6	0·5	6·4	62	..	5·5	..	1·8	0	0	16	2	1	0	3	1	1	3	3	12	0
Srinagar (Aerodrome)	0530	1666	1524·1	835·9	..	1·2	0·4	−0·7	5·6	87	..	5·7	..	1·9	0	0	10	2	1	0	1	2	0	2	2	18	0
	0830	„	1535·7	837·1	..	1·7	0·8	−0·7	5·8	84	..	6·3	..	5·0	0	0	24	2	1	2	4	3	2	2	9	4	0
	1130	„	1540·5	837·7	..	5·9	3·7	1·3	6·6	75	..	5·5	..	4·9	0	0	25	5	8	5	0	0	0	0	7	3	0
	173	„	1515·2	835·2	..	7·3	4·2	0·3	6·4	64	..	5·9	..	6·7	0	0	23	2	4	1	1	3	1	3	13	0	0
	2330		1529·3	836·5	..	2·9	1·5	−0·4	5·8	79	..	4·1	..	2·4	0	0	8	4	0	1	0	2	0	1	0	20	0
Gulmarg	0830	2655					Closed during winter months																				
	1730																										
Banihal	0830	..	..	..	..	3·6	1·9	−0·3	6·0	76	..	3·9	..	2·3	0	0	7	3	0	0	0	0	0	2	2	21	0
	1730	..	..	..	..	8·7	4·6	−0·6	5·8	56	..	5·1	..	3·3	0	0	12	3	0	0	1	0	0	4	4	16	0
Jammu	0830	..	..	..	..	11·5	9·9	8·0	10·7	86	+14	..	..	..	..	..	..	11	13	3	0	1	0	0	0	0	0
Jammu (Aerodrome)	0530	292	1016·3	981·5	..	11·4	9·9	7·9	10·9	82	..	2·9	..	5·5	0	1	14	0	14	0	0	0	1	0	0	13	0
	0830	„	1017·5	982·7	..	12·2	10·1	7·9	10·7	76	..	4·0	..	5·5	0	1	18	1	16	1	0	1	0	0	0	9	0
	1130	„	1017·8	983·9	..	17·8	13·3	9·3	11·6	58	..	4·1	..	4·7	0	0	17	1	6	1	3	3	1	0	2	11	0
	1730	„	1014·8	980·8	..	19·1	14·3	10·1	12·4	58	..	4·8	..	4·5	0	0	16	1	2	0	0	2	3	6	2	12	0
	2330	„	1016·9	982·2	..	13·2	11·2	9·1	11·7	77	..	3·2	..	3·2	0	0	11	2	5	1	0	1	2	0	0	17	0
Rajasthan (West) Ganganagar	0530	177	1015·8	993·7	..	10·7	9·4	7·8	10·7	81	..	0·7	..	2·5	0	0	17	6	5	4	0	1	0	0	1	11	0
	0830	„	1017·3	996·1	+1·5	10·7	9·4	8·0	10·7	87	+17	2·1	+0·2	2·0	0	0	15	4	3	4	1	0	1	0	2	13	0
	1130	„	1017·5	996·9	..	20·3	14·3	8·9	11·4	49	.	2·0	..	5·5	0	0	27	4	4	2	5	2	3	3	4	1	0
	1730	„	1013·8	993·5	..	23·0	15·0	8·0	11·3	36	..	2·1	..	3·6	0	0	23	10	3	3	1	0	1	1	4	5	0
	2330	„	1016·3	995·4	..	14·5	12·0	9·6	12·0	72	..	0·6	..	2·9	0	0	19	6	5	3	2	0	0	0	3	9	0
Anupgarh (R)	0830	..																									
(R)	1730	..																									
Mahajan	0830	..	..	..	..	13·5	11·2	8·9	11·5	75	..	0·4	.	1·5	0	0	6	2	2	0	1	0	0	0	1	22	0
	1730	..	..	..	..	24·1	16·6	10·8	12·8	44	..	1·3	..	3·1	0	0	14	2	3	2	0	0	2	3	2	14	0
Churu	0830	291	1017·7	983·1	..	11·6	9·6	7·3	10·3	76	..	2·5	..	3·8	0	0	19	4	0	5	0	3	3	3	1	9	0
	1730	„	1013·1	980·1	..	24·5	15·7	7·[illegible]	10·7	36	..	2·8	..	10·6	0	1	27	13	2	3	0	0	0	4	6	0	0
Bikaner	0830	224	1017·4	990·7	+1·6	12·4	8·8	4·1	8·5	60	+1	1·2	−1·0	3·6	0	0	17	1	7	1	5	0	1	1	1	11	0
	1730	„	1012·9	987·5	..	25·3	14·2	[illegible]	7·3	23	..	1·3	..	5·3	0	0	27	5	7	2	3	0	1	1	8	1	0
Bikaner (P.B.O.)	0530	224	1015·5	988·7	..	11·0	8·3	[illegible]·7	8·7	67	..	1·2	..	0·8	0	0	5	2	2	0	0	1	0	0	0	23	0
	1130	„	1016·9	991·1	..	22·5	14·1	5·6	9·3	36	..	2·5	..	2·3	0	0	16	2	5	0	5	1	2	1	0	12	0
	2330	„	1015·7	989·9	..	16·5	10·8	4·1	8·4	45	..	0·7	..	1·7	0	0	9	5	4	0	0	0	0	0	0	19	0
Nagaur	0830	298	1016·5	981·8	..	16·9	11·1	4·7	8·5	47	..	2·1	..	5.4	0	1	27	5	8	3	3	3	1	0	5	0	0
	1730	„	1012·2	978·6	..	25·6	15·0	4.6	8·5	26	..	2·1	..	6·6	0	0	28	8	2	0	1	2	3	5	7	0	0

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) —(*Contd*)																											
Phalodi	0830	234	1017·1	989·3	..	12·9	8·9	4·1	8·2	57	..	2·7	..	5·1	0	2	19	6	3	1	4	5	1	1	0	7	0
	1730	,,	1013·9	987·4	..	25·7	14·3	2·2	7·1	21	..	2·5	..	8·4	0	3	25	11	5	3	2	0	1	1	5	0	0
Jaisalmer	0830	242	1016·7	988·0	..	14·5	9·9	4·8	8·5	51	..	2·6	..	11·1	0	3	21	9	8	1	1	3	1	0	1	1	0
	1730	,,	1012·5	985·2	..	26·3	14·3	0·9	6·5	20	..	1·8	..	15·4	0	7	20	10	7	0	0	2	2	6	0	1	0
Jodhpur	0230	224	1015·0	988·8	..	17·1	10·8	3·4	7·9	41	..	0·9	..	10·4	0	3	23	5	16	2	0	1	2	0	0	2	0
	0530	,,	1014·8	988·4	..	14·9	9·9	3·9	8·2	49	..	0·7	..	9·9	0	2	23	5	15	2	0	1	2	0	0	3	0
	0830	,,	1016·7	990·2	+2·3	15·2	10·3	4·3	8·6	50	+3	2·3	+0·1	8·9	0	1	23	2	18	1	0	0	3	0	0	4	0
	1130	,,	1016·8	991·1	..	23·1	14·1	4·5	8·8	32	..	2·2	..	11·5	0	3	21	2	6	7	3	0	4	2	0	4	0
	1730	,,	1012·5	987·2	..	27·2	15·0	2·0	7·2	21	..	2·4	..	11·6	0	2	26	6	9	2	0	0	5	3	3	0	0
	2330	,,	1015·1	989·3	..	19·8	11·8	2·4	7·4	33	..	1·2	..	10·9	0	1	26	10	12	1	0	0	4	0	0	1	0
Barmer	0530	194	1014·0	991·3	..	17·7	12·5	7·2	10·4	52	..	0·9	..	3·9	0	0	24	9	0	0	0	0	0	5	10	4	0
	0830	,,	1016·1	991·4	+1·7	16·1	12·4	8·7	11·4	63	+5	1·6	−0·5	3·6	0	0	23	8	1	0	0	0	0	6	8	5	0
	1130	,,	1016·4	994·1	..	24·4	17·0	10·9	13·4	43	..	1·9	..	5·0	0	1	26	5	9	5	0	1	2	4	1	1	0
	1730	,,	1012·1	990·2	..	27·9	18·1	10·3	12·9	34	..	2·4	..	4·4	0	0	26	9	4	0	1	0	1	4	7	2	0
	2330	,,	1014·7	992·2	..	20·4	14·1	8·6	10·9	47	..	1·6	..	3·6	0	0	25	3	1	0	0	1	2	5	13	3	0
Munabao	0830	80	1016·4	1007·0	..	14·9	11·0	6·3	9·9	59	..	(c) 1·8	..	(e) 3·5	0	0	16	0	12	2	1	0	1	0	0	10	0
	1730	..	1013·0	1003·9	..	28·4	17·4	7·6	10·9	29	..	(d) 1·0	..	(d) 10·1	0	2	25	4	10	1	0	0	7	1	4	0	0
Rajasthan (East)																											
Pilani	0830	301	1018·3	982·9	..	13·9	10·3	6·0	9·6	60	..	1·7	..	11·2	0	0	28	1	3	11	9	0	2	2	0	0	0
	1730	,,	1013·1	979·0	..	23·4	14·4	4·8	9·1	33	..	2·0	..	13·6	0	4	23	7	7	4	1	0	2	2	4	1	0
Sikar	0830	433	1017·2	967·0	..	16·9	13·0	9·1	11·9	62	..	3·1	..	2·4	0	0	20	1	3	2	10	3	0	1	0	8	0
	1730	,,	1012·8	964·2	..	24·5	16·9	10·5	13·0	42	..	2·5	..	2·0	0	0	18	3	2	2	0	0	3	5	5	10	0
Alwar	0830	271	1016·2	984·2	..	13·8	11·9	10·1	12·3	79	..	2·9	..	0·5	0	0	3	0	0	0	0	2	0	0	1	25	0
	1730	,,	1013·1	982·1	..	23·0	15·6	9·7	11·7	46	..	3·4	..	1·4	0	0	17	7	1	0	4	2	0	1	2	11	0
Jajpur (Sanganer)	0230	390	1014·7	969·3	..	15·0	11·2	7·3	10·2	61	..	1·3	..	7·4	0	1	24	4	13	2	3	0	0	0	3	3	0
	0530	,,	1014·9	969·2	..	13·0	10·2	7·3	10·2	69	..	1·6	..	6·6	0	1	23	4	14	2	0	0	1	0	3	4	0
	0830	,,	1016·4	971·0	+0·5	15·9	12·0	8·1	10·8	61	+13	2·4	+0·3	7·8	0	2	21	4	11	3	0	0	1	0	4	5	0
	1130	,,	1016·1	971·7	..	22·1	14·5	7·3	10·4	40	..	2·2	..	9·6	0	0	28	1	3	7	6	1	3	3	2	0	2
	1730	,,	1012·1	968·0	..	24·6	14·5	4·1	8·3	28	..	2·7	..	8·6	0	1	24	2	1	5	3	3	1	6	4	3	0
	2330	,,	1015·2	970·0	..	16·6	11·6	6·3	9·6	52	..	1·3	..	7·3	0	1	25	4	15	2	0	0	1	0	4	2	0
Dholpur	0830	176	1016·3	995·5	..	14·1	12·5	10·6	12·8	79	..	2·2	..	3·5	0	0	17	1	2	0	3	1	1	5	4	11	0
	1730	,,	1012·8	992·8	..	24·1	16·9	11·1	13·6	45	..	2·7	..	5·8	0	0	25	9	2	2	3	1	2	2	4	3	0
Ajmer	0830	486	1017·4	960·8	+0·8	13·3	9·9	6.6	9·6	65	+13	2·1	+0·4	2·1	0	0	12	0	5	1	0	0	1	2	3	16	0
	1730	,,	1013·0	959·0	..	24·8	13·9	3·2	7·1	26	..	2·6	..	5·7	0	0	26	2	5	2	2	0	5	6	4	2	0
Tonk	0830	272	1016·2	984·1	..	13·9	12·2	10·4	12·9	81	..	1·5	..	2·8	0	0	22	6	1	1	5	1	0	2	6	6	0
	1730	,,	1010·9	980·3	..	25·2	17·8	12·6	14·4	46	..	2·2	..	5·1	0	0	28	5	1	2	2	0	3	3	12	0	0
Bhilwara	0830	..	..	..	..	14·1	10·2	5·9	9·3	58	..	2·0	..	3·1	0	0	16	3	6	1	0	1	2	1	2	12	0
	1730	..	..	..	..	25·7	14·8	4·3	8·1	25	..	2·4	..	7·6	0	0	26	7	9	2	1	0	2	3	2	12	0
Kota (Aerodrome)	0530	274	1014·9	983·0	..	15·0	11·1	7·0	9·9	60	..	0·9	..	4·8	0	0	18	3	2	0	0	2	3	7	1	10	0
	0830	,,	1016·6	984·9	..	16·7	12·1	7·4	10·3	55	..	1·6	..	4·4	0	1	17	1	2	2	0	1	1	9	2	10	0
	1130	,,	1016·8	985·5	..	23·2	15·4	8·3	11·2	40	..	1·6	..	9·3	0	2	23	4	6	9	0	0	0	2	4	3	0
	1730	,,	1012·7	981·8	..	26·7	15·9	5·9	9·2	28	..	2·0	..	12·6	0	2	26	5	8	7	0	0	1	0	7	0	0
	2330	,,	1015·5	984·0	..	18·7	12·5	6·1	9·5	45	..	1·1	..	5·1	0	0	23	1	0	4	1	3	9	2	3	5	0
Kota	0830	257	1016·6	986·7	+0·7	17·9	13·0	8·3	11·0	55	+7	1·0	−0·8	1·9	0	0	13	0	0	0	4	0	1	5	3	15	0
	1730	,,	1012·7	983·7	..	25·4	15·9	7·3	10·4	33	..	1·4	..	2·9	0	0	15	2	0	1	2	0	0	5	5	13	0
Bringpura (Jawai Dam)	0830	295	1016·8	982·1	..	14·4	12·4	10·7	12·8	79	..	1·8	..	3·7	0	1	15	0	1	1	4	5	3	1	1	12	0
	1730	,,	1012·4	979·2	..	26·5	19·7	15·3	17·4	50	..	2·3	..	6·6	0	0	28	9	4	1	0	0	3	7	4	0	0
Chambal (Rawat Bhatta Dam)	0830	351	1017·0	976·0	..	15·8	11·8	8·4	10·7	64	..	1·3	..	1·1	0	0	11	2	0	0	1	2	0	0	6	17	0
	1730	,,	1012·0	972·8	..	26·7	15·8	5·1	9·1	27	..	1·5	..	5·3	0	0	27	7	5	3	0	1	2	1	8	1	0
Udaipur	0230	582	1015·6	948·5	..	13·8	10·3	6·9	9·9	65	..	0·5	..	0·2	0	0	2	0	0	0	1	0	1	0	0	26	0
	0530	,,	1015·9	948·5	..	12·4	9·5	6·8	9·8	69	..	0·3	..	0·1	0	0	1	0	0	0	0	0	0	0	1	27	0
	0830	,,	1017·3	950·3	+0·7	14·5	10·6	6·9	9·9	61	+11	1·4	0	0·1	0	0	1	1	0	0	0	0	0	0	0	27	0
	1130	,,	1015·8	950·9	..	23·7	14·7	6·7	10·1	35	..	1·4	..	3·4	0	0	17	0	4	4	2	0	3	1	3	11	0
	1730	,,	1011·6	947·3	..	25·3	15·1	6·2	9·7	30	..	1·9	..	3·4	0	0	18	2	3	3	0	0	8	1	1	10	0
	2330	,,	1016·1	949·4	..	15·7	11·3	7·1	10·2	58	..	0·7	..	0·9	0	0	6	0	0	0	0	1	4	1	0	22	0
Jhalawar	0830	321	1016·6	979·1	+1·2	15·4	11·6	7·7	10·6	60	+8	1·6	+0·1	0·7	0	0	7	2	1	1	0	0	1	0	2	21	0
	1730	,,	1011·7	976·0	..	27·6	16·0	5·0	8·8	25	..	1·3	..	3·8	0	0	26	4	9	1	1	0	3	4	4	2	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1015·3	990·7	..	12·7	10·8	8·9	11·4	79	..	0·7	..	1·1	0	0	7	0	0	1	1	0	2	3	0	21	0
	0530	,,	1015·1	990·5	..	11·5	10·0	8·3	11·1	83	..	0·9	..	1·9	0	0	7	1	0	1	3	0	0	0	2		0

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madhya Pradesh (West)—(*Contd.*) Gwalior—(contd.)	0830	207	1016·8	992·5	+0·9	15·7	12·5	9·5	11·9	68	+12	2·2	+0·5	1·9	0	0	12	2	1	2	2	0	1	1	3	16
	1130	"	1016·6	993·1	..	23·0	15·3	8·3	11·2	41	..	1·7	..	6·9	0	0	26	9	0	6	3	4	1	1	2	2
	1730	"	1013·0	989·4	..	24·1	15·3	6·8	10·0	34	..	2·6	..	6·1	0	0	24	10	2	4	2	1	0	1	4	4
	2330	"	1015·7	991·3	..	14·8	11·9	8·9	11·3	70	..	1·1	..	1·9	0	0	9	1	0	1	4	1	1	1	0	19
Sheopur	0830	235	1016·7	989·0	+1·3	14.5	11·8	9.2	11·7	72	+14	1·9	−0.1	3.2	0	0	23	6	5	1	4	4	1	1	1	5
	1730	"	1011·8	985·4	..	26·6	15·9	6·0	9·4	28	..	2·2	..	9·1	0	0	28	6	2	1	0	0	3	6	9	0
Shivpuri	0830	464	1016·4	962·9	..	16·9	12·6	8·7	11·5	59	..	1·4	..	5·1	0	0	23	3	2	7	6	2	1	0	1	5
	1730	"	1012.1	960·2	..	24·3	14.5	6·0	9·4	32	..	2·0	..	6·6	0	1	27	8	4	3	0	2	1	2	7	0
Nowgong	0830	229	1016.9	989·8	+0·9	13·6	12·4	11·4	13·5	87	+21	2·2	+0.1	2·5	0	0	15	0	3	5	0	3	4	0	0	13
	1730	"	1013·0	987.0	..	24·6	16·7	10.2	12·6	42	..	2·0	..	5·6	0	1	25	9	8	1	0	1	1	1	5	2
Guna	0530	478	1015 3	959·3	..	11·4	9·5	7·6	10·5	72	..	0·8	..	3·9	0	1	17	0	0	6	9	0	0	1	2	10
	0830	"	1016.7	961·5	+1·1	16 0	12·3	9·0	11·6	64	+7	1·8	+0·6	4·6	0	0	27	0	0	4	17	4	2	0	0	1
	1130	"	1015 5	961·8	..	24·0	15·1	8·9	10·7	38	..	1·4	..	9.4	0	2	26	4	3	5	4	3	2	3	4	0
	1730	"	1011·6	958·3	..	25·2	14·9	6·0	9·4	31	..	1·9	..	11·4	0	4	24	2	4	3	3	1	1	5	9	0
	2330	"	1015 7	960·4	..	15·2	11·3	7·7	10·6	63	..	0·5	..	3·9	0	0	20	2	1	3	5	1	2	2	3	8
Nimach	0830	496	1017·3	960·1	+1·2	15·7	10·4	5·0	8·7	50	+3	1·9	+0·5	6·1	0	0	27	1	17	1	1	1	1	2	0	1
	1730	"	1012·2	957·2	..	26.4	14·1	1·9	7.0	21	..	1·6	..	9·6	0	1	26	3	9	2	1	0	3	5	4	1
Rajgarh	0830	382	1016·2	971·8	..	15·0	11·3	7.3	10·2	63	..	0·7	..	2·5	0	0	21	11	0	3	1	2	1	3	0	7
	1730	"	1011·4	968·9	..	27·2	15·3	3·1	7·6	23	..	1·1	..	4·9	0	0	27	13	0	1	0	7	1	4	1	1
Sagar	0830	551	1016.0	953·1	+0·8	17·3	12·6	8·3	11·2	59	+13	1·6	0	5·3	0	0	24	0	6	8	2	1	2	4	1	4
	1730	"	1011·7	950·4	..	24·3	14·7	6·3	9.7	34	..	1·9	..	4·1	0	0	25	0	2	3	0	0	1	10	9	3
Ratlam	0830	486	1016·4	960·4	+1·2	16·7	12·0	7·5	10 7	54	+4	1·5	0	9·9	0	1	23	3	10	6	0	2	2	1	0	4
	1730	"	1011·1	957·5	..	28·5	17·1	8·3	11·2	29	..	1·9	..	9.4	0	0	28	3	8	3	1	0	4	5	4	0
Bhopal (Bairagarh)	0230	523	1014·5	954·2	..	15·3	11·6	8·2	10·9	65	..	1·2	..	7·8	0	0	27	5	8	1	3	3	4	1	2	1
	0530	"	1014·7	954.3	..	14·2	11·0	8·0	11·2	68	..	1·1	..	7.7	0	1	23	7	4	4	4	2	1	1	1	4
	0830	"	1016·7	956·6	+1·1	16·5	12·5	8·9	11 5	62	+14	1·6	+0·1	6.6	0	1	21	4	6	2	1	2	3	1	0	6
	1130	"	1015·3	956·7	..	24 0	15·7	9·1	11·6	41	..	1·5	..	12·1	0	2	26	2	5	6	7	1	3	2	2	0
	1730	"	1011·3	953.4	..	26·0	15·6	7·1	10·1	32	..	2·5	..	12·6	0	3	24	7	5	2	1	0	2	2	8	1
	2330	"	1015·1	955·4	..	17.8	12·9	8.4	11 2	56	..	1.6	..	9.1	0	1	24	4	9	4	1	4	1	1	1	3
Ujjain	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Narsinghpur *	0830	356	..	..	..	15·6	13·4	11·4	13·6	77	..	0·3	..	1.7	0	0	10	0	6	2	2	0	0	0	0	8
	*1730	"	..	..	..	28.2	18·3	10·5	13·0	35	..	0·8	.	3.8	0	0	19	1	4	1	1	0	1	5	6	0
Hoshangabad †	0830	302	1016·7	981·5	+1·0	17·4	14·7	12·4	14·4	73	+22	1·3	−0·1	4.1	0	0	24	1	10	6	4	1	1	0	1	4
	1730	"	1011·8	977·7	..	27·7	18·3	11·2	13.3	37	..	0·9	..	3·7	0	0	25	3	5	4	3	0	5	0	4	3
Indore	0530	567	1014·7	949·3	..	13·5	9·3	4·8	8·7	57	..	0.5	..	7·4	0	2	21	1	4	8	1	2	3	3	1	5
	0830	"	1016·2	951·5	+0.8	17·1	11·4	5·9	9·3	49	+3	0·6	−0·7	7·4	0	2	21	0	3	9	1	3	4	2	1	5
	1130	"	1014·7	951.7	..	25 4	14·7	5.5	9.0	29	..	0·6	..	13·3	0	6	21	3	4	8	3	1	2	1	1	1
	1730	"	1010·5	948.2	..	27.3	14·6	2·3	7.4	21	..	1.2	..	16·2	0	6	22	5	6	3	0	0	8	1	5	0
	2330	"	1015·1	950·4	..	17·1	10·6	3.8	8·1	43	..	0·8	..	9·3	0	0	28	2	10	4	2	0	6	0	4	0
Rajpur (Jhabua)	0830	293	1016·6	982.5	..	17.7	13·1	8 6	11·4	57	..	1·6	..	2.8	0	0	18	0	0	12	2	0	0	4	0	10
	1730	"	1010·9	978·4	..	30.1	18·0	7·6	10.8	27	..	1·6	..	10 9	0	5	23	3	1	3	1	0	2	9	9	0
Chhindwara	0830	685	1016·4	938·8	+1·5	17·4	13·0	9·3	11·8	61	+8	2·2	+0·9	1.3	0	0	4	1	2	0	0	1	0	0	0	24
	1730	"	1010.7	935·6	..	25·6	15·2	6·0	9·7	31	..	2·4	..	3.4	0	0	21	2	1	0	3	2	1	5	7	7
Seoni	0830	619	1015.6	945·4	0	17.4	12·9	9.0	11.6	60	+7	2·8	+1·2	2·4	0	0	23	4	10	0	1	1	4	1	2	5
	1730	"	1010·8	942·6	..	25.0	16·2	9.2	12·0	38	..	2.4	..	2·7	0	0	27	3	4	0	4	4	7	1	4	1
Betul	0830	653	1015·8	942·1	+1·6	19·2	14·1	8·7	12.3	52	+4	1·5	+0·2	3·1	0	0	19	1	3	5	9	0	1	0	0	9
	1730	"	1010·3	938.8	..	26.5	15·4	5·7	9·3	28	..	1·5	..	6·5	0	0	27	2	11	0	1	0	2	3	8	1
Khandwa	0830	318	1015 9	979.3	+1·0	19.3	13·3	7·4	10·4	47	+2	1·6	+0·5	2·6	0	0	26	0	8	3	4	0	6	3	2	2
	1730	"	1010·5	975.3	..	30·1	17·3	5·7	9·4	22	..	1·3	..	3·4	0	0	28	6	2	1	0	2	2	3	12	0
Madhya Pradesh (East) Satna	0530	317	1015·0	977·7	..	13·3	11·9	10·6	12·7	85	..	0·7	..	1·4	0	1	6	1	0	0	1	1	1	0	3	21
	0830	"	1016·7	979.7	+1·1	16·4	13·6	11·1	13·3	72	+13	2·0	+0·1	1·3	0	0	15	0	0	3	6	2	1	3	0	13
	1130	"	1015·6	979·6	..	23·3	15.8	9·3	11·9	43	..	1·7	..	5·3	0	1	24	4	2	2	5	2	1	2	7	3
	1730	"	1012·4	976·5	..	24·4	16·3	9·1	12·0	41	..	2·5	..	2.4	0	0	18	13	0	1	0	0	0	2	2	10
	2330	"	1015·6	978·7	..	16·1	13.5	11·2	13·4	73	..	0·6	..	2·3	0	1	7	2	1	1	2	1	0	0	1	20
Sidhi	0830	..	..	..	..	16 4	13·8	11.4	13·7	73	..	0·4	..	0·1	0	0	1	0	0	0	0	0	1	0	0	27
	1730	..	..	..	..	24·6	16·0	8·8	11·2	40	..	0.4	..	0·1	0	0	1	0	1	0	0	0	0	0	0	27
Umaria	0830	459	1016·8	963·9	..	16·3	13·7	11·5	13.6	74	+12	2·4	+0·3	4·0	0	0	24	4	3	10	6	0	0	1	0	4
	1730	"	1011·8	960·6	..	24·9	17·0	10·9	13·3	43	..	3·1	..	4·2	0	0	25	6	2	1	1	0	0	3	12	3

* Observations for 18 days.

†Observations of 19 days

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—*Contd.*																											
Jabalpur	0530	393	1014·7	968·9	..	13·8	12·4	11·1	13·3	85	..	1·3	..	2·3	0	0	16	0	3	2	9	0	1	1	0	12	0
	0830	"	1016·7	971·2	+1·4	16·3	13·5	11·0	13·1	72	+12	1·6	0	3.1	0	0	25	4	4	4	10	3	0	0	0	3	0
	1130	"	1015·3	971·0	..	24·0	16·8	11·0	13·3	46	..	1·5	..	5.6	0	0	28	3	6	1	7	2	2	5	2	0	0
	1730	"	1011·7	967·7	..	25·4	16·9	9·9	12·2	39	..	2·4	..	4·1	0	0	25	6	7	0	2	1	4	2	3	3	0
	2330	"	1015·1	969·8	..	17·1	14·1	11·5	13·7	71	..	1·5	..	2·5	0	0	14	2	5	1	5	0	0	1	0	14	0
Ambikapur	0830	611	1017·2	947·3	+1·5	16·1	13·2	11·0	13·0	73	+8	1·5	+0·4	2·9	0	0	19	3	2	0	1	6	5	2	0	9	0
	1730	"	1011.7	944·0	..	23·9	15·1	7·9	10·8	39	..	2·4	..	5.4	0	0	28	13	2	2	0	0	2	4	5	0	0
Pendra . . .	0530	625	1015·2	943 6	..	14·2	11.2	8·4	11·1	69	..	1.1	..	4·5	0	0	20	8	0	0	0	2	3	1	6	8	0
	0830	"	1016·8	945·7	+1·0	17·1	13·0	9·4	12·0	62	+3	1·7	−0·2	3·9	0	0	21	5	0	0	0	2	5	3	6	7	0
	1130	"	1015·0	945·5	..	23·7	15·6	9·3	11·9	42	..	1.8	..	8·6	0	2	26	7	7	0	3	6	2	1	2	0	0
	1730	"	1011·8	942·6	..	23·5	15·3	8·7	11·4	42	..	3·4	..	7·1	0	0	27	7	1	1	1	5	6	3	3	1	0
	2330	"	1015·5	944·5	..	16·8	12·5	8.7	11·4	64	..	1·5	..	4.9	0	1	23	6	1	0	1	1	4	4	7	4	0
Mandla . . .	0830	443	1017·2	965·8	+1·3	15·1	13 0	11·1	13.2	76	+2	1·6	0	0·8	0	0	4	1	1	1	0	1	0	0	0	24	0
	1730	"	1011·2	962.0	..	26·2	16·5	8·2	10·9	32	..	2·3	..	4·4	0	0	21	7	0	0	2	5	0	0	7	7	0
Champa . .	0830	245	1016·5	988·1	+1·8	18·8	15 1	12·1	14·1	66	+7	2·0	+0·5	3·0	0	0	23	18	0	5	0	0	0	0	0	5	0
	1730	"	1011·9	984·4	..	27·9	18·0	10·2	12·3	34	..	2·6	..	3·2	0	0	25	5	2	3	0	2	3	9	1	3	0
Raigarh . . .	0830	220	1016·5	991.1	+2·0	20·3	15·5	11·7	13·7	58	5	1·9	+0·6	2 6	0	0	23	1	19	3	0	0	0	0	0	5	0
	1730	"	1011 5	986·7	..	27.9	17·7	9.7	12·0	33	..	2·2	..	1·6	0	0	13	1	2	0	4	0	2	1	3	15	0
Raipur . . .	0530	298	1014·3	979·7	..	17·1	14 3	11·8	14·0	72	..	1·4	..	2 9	0	0	15	4	4	0	2	3	1	0	1	13	0
	0830	"	1016·4	982·1	+1·5	20·2	15·7	12·2	14·2	61	+5	2·1	+0·5	4·8	0	0	23	4	4	3	3	5	3	0	1	5	0
	1130	"	1015·4	981·8	..	26·8	18·5	12·3	14·5	42	..	1·3	..	7·1	0	0	26	2	4	3	5	4	3	4	1	2	0
	1730	"	1011·7	978·5	..	28·5	18·5	10 6	13·2	35	..	2·1	..	5·3	0	2	22	7	4	2	2	2	1	4	2	4	0
	2330	"	1014·4	980·3	..	21·6	16·3	11·9	14 3	56	..	1·5	..	5·4	0	0	25	2	1	6	7	2	2	2	3	3	0
Kanker . . .	0830	402	1016·0	970·1	+1·4	19·9	15·8	12.6	14·6	64	−4	1·8	0	0·6	0	0	4	0	0	0	1	1	2	0	0	24	0
	1730	"	1010·9	966·5	..	28·2	17·8	9·0	11·5	32	..	1·4	..	2·1	0	0	17	0	7	0	0	0	7	1	2	11	0
Jagdalpur . .	0530	553	1014·5	951·1	..	14·6	13·1	12·1	14·1	85	..	1·0	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	0830	"	1016·0	953.3	+1·0	18 3	15·1	12·9	14·9	71		1·3	−0·3	1·1	0	0	7	0	0	2	2	0	2	0	1	21	0
	1130	"	1013·8	952·9	..	26·8	17·6	11·0	13·4	38	..	1·4	..	5·3	0	0	27	4	7	2	4	1	4	1	4	1	0
	1730	"	1010·3	949·7	..	27·4	17·3	9·8	12·3	35	..	2·6	..	4·3	0	0	24	2	4	2	3	5	4	1	3	4	0
	2330	"	1014·4	951·9	..	18 6	15·3	13·0	15·0	70	..	0·5	..	0·5	0	0	3	0	0	1	2	0	0	0	0	25	0
Gujarat Region																											
Deesa . . .	0830	136	1016·1	1000·0	+0·9	15·7	11·1	6·3	9·5	54	..	1 5	..	5·6	0	0	28	3	15	6	4	0	0	0	0	0	0
	1730	"	1012·0	996·7	..	29·3	16·3	4 0	8·0	20	..	1·1	..	6.6	0	0	27	6	6	0	0	1	6	3	4	1	1
Radhanpur . .	0830	30	1015.7	1012·1	..	16 5	14·1	12·1	14·1	76	..	0·7	..	5·1	0	0	22	8	2	6	0	0	2	2	2	6	0
	1730	"	1012·3	1008·9	..	29·5	22·6	13·5	21·8	54	..	0·6	..	4·8	0	0	21	10	1	2	0	0	2	4	2	7	0
Idar . . .	0830	219	1015·7	990·4	..	20 3	12·8	4·6	8·8	38	..	1·5	..	5·7	0	0	22	1	10	6	0	0	1	3	1	6	0
	1730	"	1011·4	986·9	..	28·7	16·1	3·3	8·1	21	..	1·3	..	4·0	0	0	28	1	3	7	0	0	3	12	2	0	0
Ahmadabad . .	0230	55	1013·6	1007·1	..	17·7	12·2	6·7	9·8	49	..	0·4	..	8·6	0	0	22	2	12	2	0	0	1	2	3	6	0
	0530	"	1013·5	1007·0	..	16·1	11·5	6·5	9·9	54	..	0·3	..	9·1	0	0	21	2	9	5	0	0	0	2	3	7	0
	0830	"	1015·6	1009·1	+0·5	18·0	12·5	6·7	10·1	49	−7	1·4	+0·2	10·4	0	5	14	0	8	7	0	0	0	2	2	9	0
	1130	"	1016·1	1009·8	..	26·9	16 3	6·4	9·9	28	..	1·1	..	18·5	0	14	12	3	4	13	2	0	1	1	2	2	0
	1730	"	1011·9	1005·6	..	30·6	16·7	2·8	7·7	18	..	1·7	..	14·6	0	5	23	6	6	5	0	0	3	5	3	0	0
	2330	"	1014·1	1007·6	..	20·1	13·5	6·8	10·1	43	..	0·6	..	5·4	0	0	16	3	6	2	0	0	1	2	2	12	0
Dohad . . .	0830	333	1015·8	977·3	+0·8	17·6	11·9	5·8	9·3	47	−2	1·0	−0·1	8·4	0	1	26	1	5	11	1	5	1	2	1	1	0
	1730	"	1011·1	974·2	..	29·3	15·8	1·4	7·0	17	..	0·7	..	9·4	0	2	26	3	10	2	1	2	7	3	0	0	0
Baroda (Aerodrome)	0830	38	1015·3	1010·8	..	17·8	12·5	7·2	10·2	51	..	1·5	..	6·0	0	0	22	14	2	1	2	2	1	0	0	6	0
	1130	"	1015·6	1011·3	..	28·4	17·0	6 9	10·1	27	..	1·1	..	12·1	0	5	23	5	7	7	2	1	1	2	3	0	0
	1730	"	1011·2	1007·0	..	31·4	17·0	2 7	7·7	17	..	1·8	..	9·9	0	2	26	11	3	0	0	0	0	7	7	0	0
Baroda . .	0530	34	1013·3	1009·1	..	15·8	12·2	8·6	11·3	63	..	0	..	2·0	0	0	16	0	16	0	0	0	0	0	0	12	0
	0830	"	1015·6	1011·4	+1·3	16·0	12·5	9·1	11·7	65	+3	0·8	−0·1	2·9	0	0	17	0	12	2	1	0	2	0	0	11	0
	1130	"	1015·8	1011·8	..	28·8	17·8	8·7	11·5	29	..	0·3	..	3·7	0	0	23	2	12	3	1	0	1	4	0	5	0
	1730	"	1011·5	1007·6	..	30·7	17·9	6·6	10·1	23	..	1·1	..	4·2	0	0	25	2	10	2	0	0	2	6	3	3	0
	2330	"	1014·1	1010·0	..	20·2	14·5	9·4	11·9	51	..	0·2	..	2·1	0	1	16	1	12	1	0	0	1	1	1	11	0
Broach . . .	0830	17	1014·7	1012·6	+1·0	17·2	12·9	8·7	11·4	59	+3	1·2	+0·3	3·8	0	0	28	4	9	2	0	0	11	0	2	0	0
	1730	"	1010·7	1008·8	..	33·0	18·5	6·0	9·5	19	..	0·5	..	5·4	0	0	28	1	10	1	0	1	11	2	2	0	0
Surat . . .	0530	12	1012·5	1011·1	..	18·1	14·4	10·9	13.4	66	..	0·1	..	10·3	0	0	28	6	12	4	2	0	0	3	1	0	0
	0830	"	1014·8	1013·4	+0·4	18·8	14·9	11·9	13·7	64	+4	0·9	−0·1	5·8	0	0	25	11	9	0	4	0	0	0	1	3	0
	1130	"	1015·4	1014·0	..	29·9	19·3	11·2	13·7	34	..	1·0	..	9·4	0	1	27	2	9	10	0	0	1	0	6	0	0
	1730	"	1011·3	1010·0	..	30·9	20.2	12·7	15·0	34	..	1·7	..	10·9	0	1	27	4	3	0	0	1	4	4	12	0	0
	2330	"	1013·6	1012·2	..	22·3	16·8	12.1	14·7	56	..	0·6	..	11·9	0	3	25	9	6	0	1	0	1	5	6	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —*Contd.*																											
Bhutakia Bhimasar (R)	0830	47																									
(R)	1730	„																									
Naliya	0830	21	1015·9	1013·4	..	14·7	12·6	10·4	12·9	76	..	1·3	..	1·6	0	1	6	0	6	0	0	0	0	1	0	21	0
	1730	„	1012·9	1010·5	..	27·4	17·5	9·3	12·0	34	..	1·1	..	14·0	0	5	23	1	6	0	0	0	15	5	1	0	0
Bhuj (Rudramata)	0230	80	1014·3	1004·8	..	15.0	13·1	11·2	13·6	79	..	0.3	..	1.9	0	0	7	0	2	0	0	0	2	2	1	21	0
	0530	„	1014·2	1004·6	..	13·7	12·3	10·9	13·2	84	..	0·4	..	3·4	0	0	11	2	1	0	0	0	6	2	0	17	0
	0830	„	1016·1	1006·5	+1.0	15·3	13·4	11·7	13·8	80	+32	1.3	+0·1	2.1	0	0	7	1	1	0	0	0	4	1	0	21	0
	1130	„	1016·5	1007·3	..	26·6	18·4	12·2	14·5	43	..	1·1	..	12·3	0	4	22	4	8	7	0	0	1	0	6	2	0
	1730	„	1012·5	1003.4	..	29·4	20.0	13·6	15·8	39	..	0·8	..	14·9	0	5	22	6	13	2	0	0	0	6	0	1	0
	2330	„	1015·0	1005.5	..	17·3	14·3	11·7	13·9	71	..	0·3	..	4·5	0	1	13	0	0	0	0	0	7	5	2	14	0
Kandla Aerodrome	0830	35	1016·2	1012·1	..	17·8	14·7	12·2	14·2	70	..	1·2	..	12·4	0	2	25	6	2	1	0	0	3	1	14	1	0
	1130	„	1016·8	1012·7	..	26·5	18·5	12·5	14·9	43	..	1·2	..	18·9	0	11	15	5	8	6	1	0	1	3	2	2	0
*	1730	„	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Kandla	0830	14	1016·2	1014·5	..	18·4	14·9	11.8	14·1	67	..	2·1	..	10·7	0	1	27	15	4	0	1	0	1	5	2	0	0
	1730	„	1013·1	1011·4	..	26.8	17·9	10·5	13·3	38	..	1·3	..	18·3	0	7	21	10	6	1	1	1	7	2	0	0	0
Mandvi	0830	9	1015·4	1014·3	+0·4	18·4	14·7	11·3	13·7	64	—5	1·7	+0·7	13·9	0	2	26	5	11	1	0	0	2	1	5	0	1
	1730	„	1012·8	1011·7	..	24·3	19·1	15.4	17·8	60	..	1·5	.	19·8	0	12	16	0	3	0	3	3	12	6	1	0	0
Surendranagar	0830	74	1015·7	1007·0	+1·3	18·4	14·0	9·7	12·8	59	+5	1·4	+0·2	6.7	0	0	28	8	7	1	0	0	1	4	7	0	0
	1730	„	1011.8	1003·4	..	31.1	19·3	10·2	12·9	28	..	1·3	..	5·7	0	0	28	8	6	2	0	0	0	6	6	0	0
Jamnagar (Aerodrome)	0530	23	1013·7	1011·0	..	15·7	13·1	10·4	12·9	73	..	0·5	..	10·7	0	4	22	2	4	6	3	3	2	6	0	2	0
	0830	„	1015·7	1013·1	+0·4	16·9	13·8	10·8	13·3	69	+13	1·4	+0·2	7·6	0	2	23	0	4	9	3	3	4	2	0	3	[illegible]
	1130	„	1016·5	1013·9	..	24·9	17·0	10·5	12·9	42	..	1·5	..	17·7	0	10	18	3	15	3	0	0	0	4	3	0	0
	1730	„	1012·5	1009·9	..	27·7	17·1	7·9	10·9	31	..	0·8	..	22·4	0	15	13	12	6	0	0	0	0	6	4	0	0
	2330	„	1014·6	1012·0	..	20·2	16·6	13·8	16·0	68	..	0·5	..	12·7	0	5	22	6	5	1	0	1	3	8	3	1	0
Dwarka	0830	11	1015·6	1014·3	+0·3	18.6	17·4	16·5	18·9	88	+17	0·5	—1·3	10·2	0	1	27	10	9	6	0	0	0	1	2	0	0
	1730	„	1013·0	1011·7	..	26·0	20·4	16·5	19·4	61	..	0·8	..	18.4	0	12	16	6	5	3	0	0	1	5	8	0	0
Rajkot	0830	138	1015·8	999·7	+0·9	18·2	13·8	9·5	12·2	60	+4	0·6	—0·6	5·3	0	2	11	0	6	2	0	0	1	4	0	15	0
	1130	„	1015·8	1000·2	..	27·2	18·2	11·1	13·6	39	..	0.6	..	18·5	0	16	11	5	13	5	0	0	0	2	2	1	0
	1730	„	1011·7	995·3	..	30·5	19·4	10·3	13·5	31	..	0·2	..	16·7	0	3	25	0	18	1	0	0	0	8	1	0	0
Bhavnagar Aerodrome	0830	11	1015·3	1014·1	+0·5	18·7	13·6	8·5	11·5	53	+10	1.1	—0·2	10·1	0	2	23	6	2	0	0	0	1	6	10	3	0
	1130	„	1015·9	1014·7	..	26·3	17·8	11·2	13·5	40	..	1.0	..	16·8	0	6	22	7	12	6	0	0	1	1	1	0	0
	1730	„	1011·5	1010·3	..	30·0	19·0	10·2	13·0	31	..	1·5	..	20·6	0	12	16	5	10	6	4	3	0	0	0	0	0
Porbander Aerodrome	0830	7	1015·5	1014.7	..	19·6	14·7	9·9	12·8	58	..	1·0	..	8·7	0	5	19	3	9	2	4	1	1	0	4	4	0
	1130	„	1016·1	1015·3	..	28·5	17·9	8·7	11·9	32	..	1·2	..	17·8	0	13	15	3	10	8	0	0	0	3	4	0	0
	1730	„	1012·2	1011·4	..	28·3	18·9	11·2	14·1	39	..	0.8	..	21·2	0	22	6	2	3	0	0	0	1	20	2	0	0
Porbandar	0830	7	1015·1	1014·3	+0·7	19·0	15·5	12·4	14·8	68	—2	1.9	+0·8	5·7	0	0	28	11	5	3	1	0	0	0	8	0	0
	1730	„	1012·5	1011·7	..	26·5	20·7	16·5	19·5	56	..	1.6	..	13·2	0	0	28	2	2	0	0	0	3	15	6	0	0
Keshod	0830	51	1015·8	1009·7	..	17·9	12·5	6·8	10·1	51	..	0.7	..	13·6	0	7	21	5	9	12	0	2	0	0	0	0	0
	1130	„	1016·1	1010·2	..	27·8	16·5	5·5	9·6	27	..	0·4	..	20·2	0	13	15	5	11	8	0	0	0	3	0	0	1
	1730	„	1012·0	1006·2	..	31·7	17·5	3·0	8·5	19	..	0·2	..	18·8	0	11	17	7	5	3	0	0	1	8	4	0	0
Mahuva	0830	9	1014·0	1013·0	..	19·8	14·0	8·4	11.3	49	..	1·0	..	10·4	0	2	26	9	6	0	2	1	2	3	4	0	1
	1730	„	1011.3	1010·3	..	28·8	19·8	13.4	15·8	41	..	1·4	..	12·7	0	4	24	0	2	5	16	2	2	0	0	0	1
Veraval	0230	8	1013·1	1012·2	..	18·5	14·4	10·4	13·1	63	..	0·7	..	11·2	0	4	23	17	4	1	0	0	0	0	5	1	0
	0530	„	1012·9	1012·0	..	17·7	13·2	8·3	11·5	58	..	0·4	..	14·0	0	6	21	17	7	0	0	0	0	0	3	1	0
	0830	„	1014·9	1014·0	+0·2	18·6	13·5	8·1	11·4	54	—2	1·5	+0·4	11·5	0	3	25	14	8	0	1	0	0	0	5	0	0
	1130	„	1015·6	1014·7	..	28·7	18·6	9·7	13·2	36	..	1·2	..	15·6	0	7	21	4	8	2	0	1	2	8	3	0	0
	1730	„	1012·0	1011·1	..	25·5	21·1	18·0	21·4	66	..	1·5	..	17·3	0	9	19	0	1	0	1	2	7	10	7	0	0
	2330	„	1014·1	1013·2	..	20·5	16·8	13·5	16·1	68	..	0·7	..	9·6	0	1	27	12	6	0	0	0	0	3	7	0	0
Konkan Dahanu	0830	5	1013·9	1013·4	+0·9	20·8	16·2	12·5	14·7	60	—9	1·9	+0·8	5.7	0	0	25	2	5	5	13	0	0	0	0	3	0
	1730	„	1010·6	1010·1	..	25·1	20·5	17·1	19·5	58	..	1·6	..	21·3	0	15	13	12	1	0	0	0	0	1	14	0	0
Bombay (Santa Cruz)	0230	15	1011·9	1010·2	..	19·9	16·8	14·5	16·6	73	..	0.4	..	4·2	0	1	14	5	4	6	0	0	0	0	0	13	0
	0530	„	1011·8	1010·1	..	19·5	16·2	13·6	15·7	72	..	0·3	..	5·8	0	0	23	6	9	7	0	0	0	0	1	5	0
	0830	„	1014·0	1012·3	—0·1	22·6	17·0	12·6	14·9	55	—7	0·7	—0·3	3·9	0	0	15	0	6	7	1	1	0	0	0	13	0
	1130	„	1014·4	1012·7	..	30.8	19·3	10·5	13·0	31	..	0·5	..	9·9	0	4	20	0	6	4	4	1	1	6	2	4	0
	1730	„	1010·8	1009·2	..	28·7	20·7	15·7	17·8	46	..	0·6	..	15·2	0	5	23	3	0	0	0	0	0	2	23	0	0
	2330	„	1013.0	1011·3	..	21·5	17·9	15·3	17·6	70	..	0·1	..	3·2	0	0	15	4	5	1	1	1	0	1	2	13	0
Bombay	0830	11	1014·0	1012.8	0	22·2	19·6	17·9	20·6	77	+6	1·0	0	4·0	[illegible]	0	25	2	8	13	2	0	0	0	0	3	0
	1130	„	1014·4	1013·2	..	29·0	21·5	16·3	19·5	49	..	0·5	..	3·8	0	0	26	1	6	11	2	1	0	2	3	2	0
	1730	„	1010·9	1009.7	..	27·8	23·2	20·8	24·7	66	..	0·7	..	9·0	0	0	28	3	0	0	0	0	0	2	23	0	0

(R) Register not received.

*Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—(*Contd.*)																											
Alibag	0830	7	1013.8	1013·0	+0.2	21·5	18.3	16·1	18·4	72	+5	0·3	−0·7	4·4	0	0	25	7	10	8	0	0	0	0	0	3	0
Harnai	0830	20	1013·3	1011·0	+0·8	25·2	19·2	15·0	17·4	55	−5	1·9	+0·6	8·6	0	1	20	6	2	5	4	1	0	2	1	7	0
	1730	,,	1010·6	1008·3	..	26·8	23·9	22·6	27·3	77	..	1·3	..	24·2	0	17	11	3	0	0	0	0	0	2	23	0	0
Ratnagiri	0830	35	1013·4	1009·4	+0·2	23·3	18.7	15·4	17·8	63	..	2·1	..	7·0	0	0	25	0	1	12	11	0	0	0	1	3	0
	1730	,,	1010·2	1006·2	..	28·9	23·3	20·3	24·1	60	..	1·2	..	10·3	0	0	28	2	0	0	1	0	0	5	20	0	0
Devgarh	0830	36	1013·3	1009·1	+0·6	23·4	20·0	17·8	20·9	72	0	1·5	−0·1	8·1	0	0	28	3	5	18	2	0	0	0	0	0	0
	1730	,,	1009·9	1005·9	..	29·0	24·7	22·7	27·6	69	..	1·1	..	19·6	0	11	17	0	0	0	0	0	1	5	22	0	0
Vengurla	0230	9	1011·4	1010·4	..	21·0	19·2	18·1	20·8	84	..	0·4	..	0·6	0	0	4	3	1	0	0	0	0	0	0	24	0
	0530	,,	1011·3	1010·3	..	19·8	18·3	17·4	19·7	86	..	0·3	..	1·1	0	0	8	5	1	1	0	0	0	1	0	20	0
	0830	,,	1013·6	1012·6	+0·8	21·4	18·9	17·3	19·7	78	+2	0·9	−0·5	1·2	0	0	7	4	2	1	0	0	0	0	0	21	0
	1130	,,	1013·8	1012·8	..	31.5	21·3	14·5	16·9	38	..	0·3	..	7·0	0	1	27	1	4	3	4	2	9	3	1	1	0
	1730	,,	1010·0	1009·0	..	29·7	23·2	19·7	23·2	56	..	0·9	..	7·6	0	0	28	0	0	0	0	0	8	16	4	0	0
	2330	,,	1012·6	1011·6	..	23·2	20·5	18·9	21·8	77	..	0.2	..	1·7	0	0	12	6	2	0	0	0	0	1	3	16	0
Madhya Maharashtra																											
Nandurbar	0830	206	1015·2	991·5	..	22·5	14·7	7·6	10·4	39	..	0·8	..	6·5	0	1	22	1	6	9	2	0	5	0	0	5	0
	1730	,,	1010·2	987·4	..	32·0	18·0	5·6	9·3	20	..	0·7	..	6·0	0	0	24	2	4	5	6	1	5	4	3	4	0
Jalgaon	0830	201	1015·8	992·3	+1·4	18.5	12·2	5·6	9·1	43	−2	0·9	−0·1	10·0	0	1	26	0	0	12	8	0	3	3	1	1	0
	1730	,,	1011·1	988·9	..	32·7	17·5	2·7	7·7	16	..	1·4	..	10·4	0	3	25	2	4	6	0	0	2	11	3	0	0
Malegaon	0830	437	1016·3	965·9	+0·9	16·6	10.0	1·7	7·0	37	−8	0 8	−0·3	2·9	0	9	19	1	1	0	0	0	1	11	5	9	0
	1730	,,	1009·4	961·7	..	31·7	16·4	−0·2	6·2	14	..	1 7	..	10·9	0	3	23	3	4	3	1	0	2	8	5	2	0
Deolali (Aerodrome)	0830	571	1016·8	951·5	..	16·6	11·4	6.5	9·7	52	..	1·0	..	4·7	0	0	22	12	4	2	1	0	2	1	0	6	0
	1730	,,	1010·1	948·1	..	30·4	17·1	6·5	9·8	23	..	1·0	..	10·2	0	4	22	6	4	3	0	2	7	2	2	2	0
Ahmadnagar	0830	657	1015·7	941·3	+0·6	17·3	10·9	4·4	8·4	43	+3	0 9	+0·1	2·1	0	0	15	0	1	0	2	0	1	2	9	13	0
	1730	,,	1008·0	937·4	..	31·3	16.6	4·2	8·2	19	..	2·1	..	5·9	0	0	21	1	7	0	1	0	3	3	6	7	0
Poona (Aerodrome)	0230	593	1012·8	945·2	..	18·8	13·0	7·7	10·8	50	..	0·1	..	4·0	0	0	17	0	1	1	1	0	2	8	4	11	0
	0530	,,	1013·2	945·9	..	17·0	11·8	6.9	10·1	52	..	0·3	..	4·2	0	1	13	0	2	1	2	0	1	5	3	14	0
	0830	,,	1015·2	948·1	..	19·5	12·9	7·4	10·1	48	..	1·1	..	4·3	0	0	21	0	1	7	0	3	0	8	2	7	0
	1130	,,	1013·4	948·3	..	28·1	16·5	6·8	10·4	27	..	0·9	..	9·2	0	2	26	0	4	9	9	0	2	2	2	0	0
	1730	,,	1008·3	944·4	..	31.0	16·7	5·1	8·6	20	..	1·5	..	12·4	0	4	23	2	3	4	1	0	1	11	5	1	0
	2330	,,	1013·3	946·9	..	21·4	14·3	8·3	11.1	44	..	0 4	..	6.2	0	1	25	1	0	3	0	0	4	12	6	2	0
Poona	0530	559	1013·6	949 6	..	15·5	11·5	7·9	10.7	61	..	0 2	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	0830	,,	1015·7	951·9	+0.6	17·1	12·6	8·8	11·3	58	−3	0 8	0	0·2	0	0	2	0	0	0	1	1	0	0	0	26	0
	1130	,,	1013·1	951·8	..	28·4	16·4	6·4	9·9	26	..	0·5	..	3·1	0	0	16	3	2	5	2	1	2	1	0	12	0
	1730	,,	1008·2	947·7	..	31·4	17·1	5·5	9·1	20	..	1·1	..	2·8	0	0	12	0	3	0	2	0	2	2	3	16	0
	2330	,,	1013·3	950·4	..	21·1	14·6	9·5	11·9	48	..	0.3	..	0·1	0	0	1	0	0	0	0	0	0	1	0	27	0
Jeur	0830	521	1015·2	956·2	+1·3	19·8	12·7	5·9	9·5	41	−6	1·9	+0·9	3·9	0	0	21	3	7	2	5	0	0	2	2	7	0
	1730	,,	1008.0	951.6	..	32.0	18.1	7.5	10·7	23	..	2.5	..	9.9	0	4	24	0	6	3	3	8	3	4	1	0	0
Baramati	0830	551	1015.4	952·9	+1·0	18.7	12.5	6.9	9·9	47	−2	1.0	+0·3	3·7	0	0	26	9	1	3	4	1	1	3	4	2	0
	1730	,,	1008·1	948·5	..	32·0	18·3	8·7	11·0	24	..	1·1	..	8·3	0	1	27	1	6	3	2	1	6	5	4	0	0
Sholapur	0530	479	1013·2	958·7	..	18·7	13·7	9·2	12·0	54	..	0·7	..	7·9	0	1	25	5	4	2	10	3	0	0	2	2	0
	0830	,,	1015·0	961·1	+1·1	22·1	15·8	10·8	13·4	51	+11	0·9	0	7·5	0	0	27	4	4	5	9	3	0	1	1	1	0
	1130	,,	1013·8	961·1	..	29·0	18.9	12·1	14·5	37	..	1·3	..	12·6	0	2	26	2	2	2	10	8	2	1	1	0	0
	1730	,,	1008·8	956·7	..	31·6	19·2	10·8	13·2	29	..	2·0	..	8·6	0	0	27	5	4	2	4	2	3	3	4	1	0
	2330	,,	1012·7	959·2	..	24·2	15·8	9·3	11·9	40	..	1·6	..	12·1	0	0	28	3	3	9	9	1	0	1	2	0	0
Miraj	0830	554	1014·8	952·6	+0·8	20·5	15·6	11·6	14·1	57	−1	2.1	+1·2	..	0	0	8	0	0	6	0	0	0	0	2	20	0
	1730	,,	1007.8	948·2	..	32·1	20·9	14·4	16·5	35	..	2·9	..	..	0	0	23	1	0	11	3	0	0	6	2	5	0
Kolhapur	0530	570	1012·7	948·2	..	17·7	13·0	8 9	11·5	57	..	0·9	..	4·1	0	0	23	0	4	10	0	1	3	4	1	5	0
	0830	,,	1014·4	950·4	+0·7	21·1	14·3	8·8	11·4	46	−13	1·6	+0·8	6·0	0	0	24	0	6	12	0	1	2	3	0	4	0
	1130	,,	1012·6	950·4	..	29·2	17·3	8·1	11·1	28	..	1·7	..	14·1	0	7	21	0	11	10	7	0	0	0	0	0	0
	1730	,,	1007·7	946·3	..	31·6	17·7	6·9	10·1	22	..	1·7	..	14·2	0	9	19	4	6	9	0	0	1	6	2	0	0
	2330	,,	1012·6	949·1	..	22.3	15·3	9·7	12·3	46	..	0·6	..	7·7	0	0	28	0	1	7	1	1	4	13	1	0	0
Marathwada																											
Aurangabad	0830	581	1015·6	950·4	+0·9	21.5	13·1	5·4	9·0	36	−4	1.5	+0·4	3·5	0	0	16	1	3	10	1	0	0	0	1	12	0
	1730	,,	1009·4	946·4	..	30·6	16·6	4·6	8·7	20	..	2·1	..	6·5	0	1	21	5	2	1	1	1	1	9	2	6	0
Aurangabad (Chikalthan)	0230	579	1013·5	947·5	..	16·8	11·4	6·0	9·5	50	..	0·3	..	2·0	0	0	5	2	0	1	0	0	0	0	2	23	0
	0530	,,	1014·1	947.6	..	14·6	9·9	5.0	8·8	54	..	0·2	..	1·4	0	0	3	1	0	1	0	0	0	0	1	25	0
	0830	,,	1015·2	950·0	..	20·9	14·4	8·9	11·7	48	..	0·4	..	4·1	0	0	11	0	1	6	1	0	1	2	0	17	0
	1130	,,	1013·8	950·1	..	27·7	18·6	12·4	14·8	41	..	0·2	..	12·7	0	2	25	1	0	8	6	3	4	3	2	1	0
	1730	,,	1008·8	946·0	..	30·3	19·4	11·9	14·5	33	..	1·5	..	5·8	0	1	12	0	4	0	0	0	4	3	2	15	0
	2330	,,	1013·9	948·4	..	19·2	12·9	7·0	10·4	47	..	0·4	..	4·4	0	0	11	3	1	2	0	0	0	1	4	17	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*Contd.*																											
Parbhani	0830	423	1016·0	967·3	+2·2	20·3	13·5	6·5	10·0	43	0	1·1	0	5·4	0	0	26	2	5	6	3	0	1	5	4	2	0
	1730	"	1009·9	963·5	..	30·7	17·6	4·8	9·5	21	..	2·3	..	7·9	0	0	28	3	7	4	4	2	1	5	2	0	0
Nander	0830	358	1015·6	975·0	..	21·6	16·0	11·4	13·7	53	..	0·5	..	1·6	0	0	16	0	4	1	5	0	3	3	9	12	0
	1730	"	1010·6	971·2	..	31·0	19·9	11·2	14·2	31	..	0·6	..	2·7	0	0	23	3	5	1	7	0	5	1	1	5	0
Bir	0830	519	1016·0	957·2	..	20·5	15·1	10·9	13·1	55	..	2·0	..	3·7	0	0	21	3	0	0	3	9	0	3	3	7	0
	1730	"	1009·6	953·2	..	31·1	19·2	11·0	13·6	31	..	2·6	..	8·9	0	0	28	7	8	1	3	2	3	1	3	0	0
Vidarbha																											
Gondia	0830	313	1016·4	979·9	+1·1	18·7	14·7	11·2	13·5	62	+2	1·7	+0·4	4·0	0	0	22	4	2	3	2	4	2	0	3	6	2
	1730	"	1011·2	976·4	..	28·5	17·1	8·6	10·3	30	..	2·0	..	3·2	0	0	24	1	4	0	3	1	6	2	7	4	0
Nagpur (Sonegaon)	0230	310	1013·4	977·5	..	17·5	13·5	9·8	12·3	62	..	1·2	..	4·1	0	0	19	7	5	0	1	0	0	0	6	9	0
	0530	"	1014·0	977·9	..	15·7	12·6	9·7	12·1	69	..	0·7	..	3.5	0	0	21	9	3	1	0	1	0	0	7	7	0
	0830	"	1016·3	930·5	+1·3	19·1	14·3	10·0	12·4	57	+5	1·8	0	3·8	0	0	20	10	4	2	0	0	0	0	4	8	0
	1130	"	1014·9	930·2	..	27·5	17·7	9·7	12·2	34	..	1·5	..	7·2	0	0	25	2	1	5	9	2	2	2	2	3	0
	1730	"	1010·5	976·1	..	29·5	17·7	7·5	10·7	27	..	1·9	..	5·6	0	0	21	2	7	3	2	3	1	2	1	7	0
	2330	"	1014·1	978·5	..	19·8	14·4	9·3	12·0	54	..	1·2	..	5·0	0	0	23	13	2	3	0	1	0	0	4	5	0
Amraoti	0830	370	1015·5	973·3	+1·0	21·5	14·7	8·4	11·2	45	+2	1·3	−0·1	5·4	0	0	27	1	12	7	4	2	1	0	0	1	0
	1730	"	1008·9	968·3	..	30·6	17·3	5·2	10·0	21	..	1·1	..	5·6	0	0	27	2	4	1	2	2	1	8	7	1	0
Akola Aerodrome	0530	309	1013·2	977·4	..	17·1	11·3	4·5	8·7	45	..	1·2	..	4·6	0	1	25	0	4	11	4	0	4	3	0	2	0
	2330	"	1013·1	977·8	..	21·9	13·4	4·0	8·5	32	..	1·0	..	4·7	0	0	26	1	5	10	5	1	0	3	1	2	0
Akola	0830	282	1015·7	933·2	+1·2	19·2	13·6	8·2	11·1	49	+5	0·9	−0·5	1·4	0	0	12	0	1	8	1	0	0	2	0	16	0
	1130	"	1014·4	982·9	..	28·3	18·3	10·5	12·9	34	..	0·5	..	4·1	0	0	26	2	1	11	3	2	3	2	2	2	0
	1730	"	1009·4	978·5	..	31·9	18·5	6·5	10·4	24	..	2·3	..	2.9	0	0	24	4	2	2	1	1	0	10	4	4	0
Brahmapuri	0830	229	1016·2	989·6	..	19·1	16·3	14·2	16·3	73	..	0·9	..	4·8	0	0	25	4	8	1	5	5	1	0	1	3	0
	1730	"	1011·2	985·6	..	29·4	20·7	14·8	17·4	44		1·8	..	5·2	0	0	26	2	3	7	4	4	1	2	1	2	2
Buldana	0830	650	1015·4	912·2	+1·5	19·6	12·7	6·2	9·7	43	0	0·3	−0·8	2·1	0	0	26	0	7	0	9	0	0	0	10	2	0
	1730	"	1009·4	938·1	..	29·1	16·5	6·3	9·6	24	..	1·3	..	1·6	0	0	21	0	9	0	1	0	0	0	11	7	0
Yeotmal	0830	451	1015·2	964·1	+1·5	21·8	14·6	8·1	10·8	43	+1	1·7	+0·1	10·8	0	3	25	2	4	9	5	3	3	1	1	0	0
	1730	"	1009·7	960·6	..	30·2	17·3	6·0	9·3	22	..	2·2	..	9·3	0	0	28	8	4	3	2	2	3	14	2	0	0
Chanda	0830	193	1015·7	993·3	+1·0	20.7	16·5	13·2	15·4	63	+6	0.8	−0·6	5·0	0	0	27	3	3	11	6	1	0	1	2	1	0
	1730	"	1010·5	989·0	.	30·6	19.1	10·1	12·7	30	..	1·5	..	6·0	0	0	28	2	7	3	5	0	2	2	3	0	0
Pusad	0830	334	1016·3	977·8	..	19·2	14·1	9·3	11·9	54	..	1·0 (c)	..	4·0 (c)	0	0	24	0	3	1	3	0	1	2	14	2	0
	1730	"	1010·4	973·6	..	31·4	18·2	7.0	10.1	24	..	1·2 (c)	..	6·0 (c)	0	0	26	0	9	0	5	0	6	0	6	0	0
Sirencha	0830	123	1016·4	1002·1	+1·7	21·4	18·5	16·7	18·9	74	+9	1·5 (d)	−0·1	5·6 (d)	0	0	26	3	1	9	9	1	0	0	3	1	0
	1730	"	1011·5	997·5	..	30·4	20·3	13·3	15·7	36	..	1·5	..	5·4	0	0	28	2	1	8	9	4	0	1	3	0	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1016·3	1015.6	+1·5	22·6	20.0	18·5	21.3	78	−1	0·9	−0·9	3·9	0	0	26	3	3	1	0	0	2	5	12	2	0
	1730	"	1013·0	1012·3	..	25·2	21·4	19·3	22·4	70	..	1·0	..	12·1	0	2	26	0	2	8	9	6	2	1	0	0	0
Vishakhapatnam	0230	3	1013·7	1013·3	..	20·3	18·4	17·2	19·6	83	..	1·0	..	0·6	0	0	2	0	0	0	0	0	1	1	0	26	0
	0530	"	1013·9	1013·5	..	19·2	17·7	16·7	19·0	85	..	0·7	..	1·1	0	0	6	0	0	0	0	0	1	1	4	22	0
	0830	"	1016·1	1015·7	+1·4	23·6	19·9	17·6	20·2	69	−8	1·1	−1·4	3·6	0	1	15	2	1	0	0	0	1	3	9	12	0
	1130	"	1015·5	1015·1	..	29·1	20·9	15·7	18·1	46	..	2·0	.	13·5	0	5	21	0	0	13	8	2	2	1	0	2	0
	1730	"	1012·7	1012·3	..	26·3	20·5	16·8	19·4	57	..	1·0	..	15·1	0	4	24	0	0	16	5	4	3	0	0	0	0
	2330	"	1014·9	1014·5	..	21·7	19·4	17·9	20·8	79	..	0·9	..	0·6	0	0	2	0	0	0	0	0	0	0	2	26	0
Kakinada	0830	8	1016·2	1015·3	+1·5	25·0	20·9	18·4	21·3	68	−7	1·3	−1·3	13·6	0	5	23	0	25	1	1	0	0	0	1	0	0
	1730	"	1012·5	1011·5	..	26·9	22·0	19·2	22·4	64	..	0.8	..	15·0	0	2	26	0	8	0	20	0	0	0	0	0	0
Nidadavole	0830	12	1016·0	1014·5	..	22·8	20·1	18·4	21·3	76	..	3·5	..	3·8	0	0	27	0	24	2	1	0	0	0	0	1	0
	1730	"	1012·0	1010·6	..	28·4	22·3	18·9	22·0	57	..	3·8	..	5·0	0	0	28	0	1	7	18	1	1	0	0	0	0
Rentachintala	0830	106	1015·9	1003·6	..	23·9	20·5	18·4	21·3	72	+2	2·4	−0·5	2·2	0	0	25	4	0	4	5	6	2	4	0	3	0
	1730	"	1010·5	998·7	..	31·5	21·0	14·1	16.3	36	..	2·3	..	3·4	0	0	28	5	1	11	7	3	1	0	0	0	0
Gannavaram	0230	24	1013·2	1010·4	..	21·0	19·9	19·2	22·4	89	..	1·5	..	4·9	0	0	22	4	9	5	2	0	1	1	0	6	0
	0530	"	1013·3	1010·5	..	20·3	19·4	18·8	21·8	91	..	1·5	..	6·4	0	0	23	1	13	6	2	1	0	0	0	5	0
	0830	"	1015·7	1012·9	+1·6	23·5	20·9	19·3	22·7	78	0	2·0	−0·1	10·0	0	4	21	1	8	13	1	2	0	0	0	3	0
	1130	"	1015·2	1012·5	..	28·6	22·2	18·6	21·6	55	..	2·4	..	12·9	0	7	20	1	3	9	10	3	0	1	0	1	0
	1730	"	1011·7	1009·0	..	29·0	22·2	18·2	21·1	54	..	2·3	..	14·8	0	8	20	0	1	7	16	4	0	0	0	0	0
	2330	"	1014·3	1011·5	..	22·2	20·5	19·5	22·7	85	..	1·0	..	4·9	0	1	21	1	5	10	3	0	1	0	2	6	0
Nagarjuna Konda	0830	126	..	..	..	24·9	20·0	17·0	19·5	63	..	1·7	..	8·8	0	1	25	4	5	3	7	5	1	0	1	2	0
	1730	"	..	..	..	31·5	20·2	12·2	14·5	32	..	2·2	..	17·4	0	13	15	4	5	8	10	1	0	0	0	0	0
Masulipatam	0830	3	1015·9	1015·5	+1·2	24.2	21·9	20.6	24·4	80	−1	2·7	+0·6	4·0	0	0	26	4	5	9	5	3	0	0	0	2	0
	1730	.	1012·6	1012·2	..	26·2	22·5	20·4	24·1	71	..	2·3	..	5·0	0	0	28	0	0	8	16	4	0	0	0	0	0
Ongole	0830	12	1015·5	1014·2	..	24.5	21·9	20·4	24·1	78	..	3·2	..	3·8	0	0	28	9	11	1	3	1	1	0	2	0	0
	1730	"	1011·0	1010·6	..	27·	23·3	21·1	25·2	68	..	2·0		7·0		0	28	0	3	17	7	1	0	0	0	0	0

(d) Mean of 27 days.

(c) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	29 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*Contd.*																											
Nellore	0530	20	1012·7	1010·5	..	21·2	20·5	20·2	23.5	94	—	1·4	..	0·1	0	0	1	0	1	0	0	0	0	0	0	27	0
	0830	"	1015.3	1013.0	+1·1	24·1	21·8	20·5	24 1	81	0	3·6	+1·2	1·6	0	0	16	4	0	4	2	0	0	0	6	12	0
	1130	"	1014·9	1012·6	..	29·0	22 6	19·2	22 2	56	..	3 5	..	3·6	0	0	23	0	18	8	2	0	0	0	0	0	0
	1730	"	1012·0	1009·8	..	27·5	22·5	19·8	23·2	64	..	3·5	.	4·1	0	0	28	0	6	20	2	0	0	0	0	0	0
	2330	"	1014·0	1011·8	..	23·2	21·7	21·0	24·7	87	..	1.7	..	0 4	0	0	5	0	2	2	1	0	0	0	0	23	0
Telangana																											
Ramgundam	0830	156	1015·3	997·3	+1·1	22·2	18 5	16·1	18 3	69	+15	1.6	−0·3	5·3	0	0	20	1	0	3	6	8	0	0	1	3	0
	1730	"	1010·9	993·3	..	30·9	20·2	12·9	15·0	35	..	1·6	..	6·4	0	2	21	5	2	4	2	9	1	0	0	5	0
Nizamabad	0830	381	1015.1	971 9	+1·0	22·4	17·1	13·1	15·2	56	+2	1·0	−0.2	0·8	0	0	10	0	0	4	2	3	0	0	1	16	0
	1730	"	1010.1	968·2	..	30·3	18·5	9·5	11 7	29	..	1·2	..	1·8	0	0	20	0	5	11	0	2	1	0	1	8	0
Hanamkonda	0830	269	1015·5	984·9	+0·9	22·5	19·3	17·3	19 7	74	+4	1·7	−0·8	2·2	0	0	26	1	2	0	4	17	2	0	0	2	0
	1730	"	1011·9	982·1	..	29·5	19·9	13·0	15 4	38	..	0·8	..	2·1	0	0	27	5	4	1	6	9	0	1	1	1	0
Hakimpet (Aerodrome)	0530	613	1013·3	944·1	..	18·3	15 9	14·4	16·3	79	..	1·7	..	9·8	0	3	21	2	0	9	13	0	0	0	0	4	0
	0830	"	1014·7	946·0	..	20·8	16·9	14·2	16·1	68	..	2.4	..	11 9	0	4	22	1	1	2	17	3	1	0	1	2	0
	1130	"	1013·7	946·2	..	26·0	18·5	13·7	15·8	48	..	2·9	..	16 0	0	9	18	1	2	3	15	2	3	0	1	1	0
	1730	"	1010·4	943·4	..	27·4	18·3	12·3	13·7	40	..	2·4	..	10·2	0	1	27	3	3	9	12	0	0	0	1	0	0
Bhadrachalam	0830	111	1015·8	1003·1	+1·2	22·8	19·6	17·6	20·2	75	+2	4·3	+1·5	3·2	0	0	28	2	9	5	0	4	3	3	2	0	0
	1730	"	1011·6	999·3	.	30·7	20·6	17·0	19·4	37	..	1.5	..	2·5	0	0	28	0	9	2	0	3	5	6	3	0	0
Hyderabad (Begampet)	0230	545	1013·2	951·6	..	19·1	18·6	13·1	15·3	70	..	1.3	..	6·1	0	0	21	1	1	5	11	0	0	0	0	7	0
	0530	"	1013 6	951·6	..	17.6	15.5	13·9	16.1	79	..	1·7	..	4·1	0	0	17	0	3	6	8	0	0	0	0	11	0
	0830	"	1015·4	954·0	+1·3	20·5	16·6	13·9	16·1	68	+2	2·5	+0·5	8.0	0	2	18	1	1	2	12	3	0	0	1	3	0
	1130	"	1014·1	954.0	..	26·6	18 0	11·9	14·4	43	..	1·6	..	12·5	0	1	27	1	2	2	19	3	0	0	1	0	0
	1730	"	1010·1	950 6	.	28 3	17·5	9.6	12·0	33	..	2·3	..	9·2	0	0	27	1	5	9	8	2	0	0	2	1	0
	2330	"	1013·9	952·8	..	21·1	16 3	12·9	15·1	61	..	0·7	..	6·6	0	0	20	1	1	6	11	1	0	0	0	8	0
Khammam	0530	112	1016.2	1002.6	..	21·8	20·3	19·0	22·7	80	..	2·7	..	4·3	0	0	24	0	1	18	5	0	0	0	0	4	0
	1730	"	1011·1	998·5	..	30.9	20·8	14·2	16·3	38	..	2·7	..	5·9	0	0	25	0	1	14	5	0	1	2	2	3	0
Mahbubnagar	0830	505	1014·7	957·9	..	22·3	17·4	14·0	15.9	63	..	2·1	..	9·1	0	1	26	2	7	13	4	0	1	0	0	1	0
	1730	"	1009 5	954·3	..	29·6	18·1	9·9	12·3	31	..	0·2	..	6·4	0	0	28	1	4	16	1	2	2	0	2	0	0
Rayalaseema																											
Kurnool	0830	281	1015·4	983·3	+2·5	23·0	18.0	14.3	16·6	59	0	1·5	+0·4	3·9	0	0	27	2	0	18	4	1	0	1	1	1	0
	1730	"	1009.7	978·8	..	32·1	19·3	9·3	12.2	25	..	2·1	..	5·4	0	0	28	0	2	16	10	0	0	0	0	0	0
Anantapur	0530	350	1012 3	972·4	..	20·1	16·7	14·1	16·2	70	..	1.0	..	4·0	0	0	15	0	0	11	2	0	1	1	0	13	0
	0830	"	1014·5	974·8	+2·3	22·7	18 1	14·8	17·0	63	+9	1.5	+0·2	5·7	0	0	21	0	1	13	2	2	0	1	1	7	1
	1130	"	1013·4	974 5	..	28·5	19 5	13·1	15·3	40	..	1·6	..	12·4	0	4	24	2	5	14	3	2	0	0	1	0	1
	1730	"	1008·8	970·4	..	31·5	19·7	11·0	13·3	29	..	2·3	..	13·7	0	8	20	1	7	16	1	1	0	0	1	0	1
	2330	"	1012·5	973·2	..	24·8	18·3	13 6	16·2	52	..	0·6	..	17 0	0	15	12	1	0	21	3	1	1	0	0	1	0
Cuddapah	0830	130	1015·2	1000·3	+1·2	24·9	21·6	19 8	23·2	74	−1·0	1·4	0	3·1	0	0	17	0	0	17	0	0	0	0	0	11	0
	1730	"	1010 4	995·9	..	31·7	24·2	20·4	24·1	52	..	2·1	.	7·9	0	0	27	0	2	24	1	0	0	0	0	1	0
Arogyavaram	0830	701	1015·0	936·7	..	19·7	17·0	14·8	17·4	74	..	2·3	.	4 6	0	0	27	2	0	4	8	12	1	0	0	1	0
	1730	"	1009·3	933·3	..	27·6	18·0	11·3	13·7	37	..	3·7	.	6·6	0	0	28	2	4	18	2	1	0	0	1	0	.
Madras State																											
Madras	0830	6	1014·9	1014·2	..	24·8	22·3	21·0	24·9	79	..	3.6	..	6·5	0	0	28	4	7	4	1	0	2	4	6	0	0
Madras (Minambakkam)	0230	16	1012·7	1010·9	..	22.9	21·4	20·5	24·3	87	..	2.3	.	4·3	0	0	22	8	3	6	1	2	0	1	1	6	0
	0530	"	1012·9	1011·1	..	22·2	21·0	20·4	23·8	90	..	2.4	..	4·6	0	0	20	5	4	2	0	1	0	2	6	8	0
	0830	"	1015·1	1013·3	+0 9	24.6	22·1	20 7	24·6	79	—5	3·1	+0·9	7·2	0	0	25	7	5	2	0	3	0	3	5	3	0
	1130	"	1014·7	1012·9	..	28·9	22·6	19·1	22·4	57	.	3·7	..	16.3	0	10	18	2	11	11	0	4	0	0	0	0	0
	1730	"	1011·9	1010·2	..	27.3	22·4	19·9	23·1	64	..	2·1	..	17·4	0	11	17	1	12	10	4	1	0	0	0	0	0
	2330	"	1014.2	1012.4	..	24·0	21·9	20 8	24·6	83	..	1·9	..	8·1	0	2	22	4	7	8	5	0	0	0	0	4	0
Vellore	0530	214	1013 2	988·5	..	20·4	19·6	19·1	22·1	93	..	3·3	..	0·3	0	0	3	0	0	0	1	2	0	0	0	25	0
	0830	"	1015.1	990·6	+0·9	22·2	20 4	19·3	22 5	84	+2	4.2	+1·8	0·5	0	0	6	1	3	0	0	1	1	0	0	22	0
	1130	"	1014.4	990·2	..	28·0	21.9	18·3	21 3	56	..	3·5	..	4·9	0	0	25	3	9	7	0	5	1	0	0	3	0
	1730	"	1010·3	986·5	..	29·9	21·6	16·6	19·0	46	.	3·4	..	7·5	0	0	28	2	14	8	2	2	0	0	0	0	0
	2330	"	1014·3	989·9	..	23·7	21·1	19·6	22·9	78	..	2 9	..	5·6	0	0	22	1	12	5	1	3	0	0	0	6	0
Tambaram (Aerodrome)	0830	29	1014.8	1011·5	..	25·0	22·6	21·4	25·5	81	..	3·4	..	8·4	0	0	28	8	4	2	3	0	3	2	6	0	0
	1730	"	1011·6	1008·3	..	27·9	23·2	20·7	24·7	65	..	2 0	..	21·1	0	18	10	0	5	15	7	1	0	0	0	0	0
Tiruppattur	0830	390	1015·0	970.7	..	20·9	19·4	18·6	21·3	87	..	3·0	..	4·3	0	0	27	18	7	2	0	0	0	0	0	1	0
	1730	"	1009·5	966.6	..	29·3	21·2	16·1	18·5	46	..	4·4	..	13·1	0	4	24	6	12	9	0	1	0	0	0	0	0
Cuddalore	0530	12	1012·1	1010·7	..	22·3	21·4	20·9	24·7	92	..	4·7	..	1·8	0	0	12	2	2	0	0	0	0	0	8	16	0
	0830	"	1014·6	1013·2	+0·4	24·3	22·4	21·4	25·6	84	0	5·0	+2·0	5·2	0	0	22	3	13	0	0	0	1	0	5	6	0
	1130	"	1014·3	1012·9	..	27·9	23·1	21·1	25·0	67	..	4·6	..	14·8	0	7	21	6	17	2	3	0	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressures in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	26 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Cuddalor—*Contd.*	1730	12	1011·5	1010·1	..	26·7	23·1	21·4	25·3	73	..	4·3	..	11·0	0	2	26	4	13	8	3	0	0	0	0	0	0
	2330	"	1013·4	1012·0	..	25·0	22·7	21·6	25·6	81	..	4·1	..	7·0	0	0	27	3	18	2	4	0	0	0	0	1	0
Kallakkurichchi	0830	127	1014·7	1000.2	..	24·1	22·1	21·0	25·0	83	..	3·1	..	6·5	0	2	17	12	2	0	1	2	0	0	2	9	0
	1730	"	1010·0	995·9	..	30·1	23·0	19·2	23·4	53	..	2·9	..	11·7	0	1	26	0	19	8	0	0	0	0	0	1	0
Salem	0530	278	1012·6	980·9	..	21·6	19·0	17·4	19·9	77	..	3·9	..	2·6	0	0	16	0	1	13	2	0	0	0	0	12	0
	0830	"	1011·4	982·9	..	23·8	19·8	17·3	19·9	67	−7	3·9	+2.2	3·6	0	0	19	0	2	14	3	0	0	0	0	9	0
	1130	"	1013·1	982·3	+3·0	29·6	20·9	15·3	17·6	43	..	4·2	..	6·3	0	0	26	0	5	14	3	2	0	2	0	2	0
	1730	"	1008·9	978·3	..	31·1	20·4	13·0	15·3	34	..	4·6	..	8·8	0	0	28	0	2	23	2	0	0	1	0	0	0
	2330	"	1013·1	981·7	..	24·7	20·4	17·8	20.5	66	..	3·1	..	15·1	0	9	18	1	2	21	2	1	0	0	0	1	0
Coimbatore (Pilamedu)	0530	399	1012·7	967·4	..	20·3	19·1	18·4	21.1	89	..	3·9	..	7.3	0	0	26	7	13	5	0	0	0	0	1	2	0
	0830	"	1014.5	969·5	..	22·8	20·5	19·2	22·2	81	..	3·8	..	11.2	0	2	26	4	18	5	0	0	0	0	1	0	0
	1130	"	1013·5	969·1	..	27.1	21·9	18.8	22·0	62	..	3·6	..	16·9	0	9	19	3	15	9	0	0	0	0	1	0	0
	1730	"	1008·9	965·2	..	29·3	23·0	19·1	22·5	54	..	3·4	..	14·1	0	4	23	4	10	11	1	0	0	1	0	1	0
	2330	"	1013·1	968·3	..	23·6	21·0	19·5	22·8	79	..	2·9	..	14.2	0	6	21	0	5	15	1	2	2	1	1	1	0
Coimbatore	0830	409	1014·5	968·5	+0.5	22.8	19·7	17·9	20·5	74	−4	4·7	+1·7	17·3	0	12	16	0	6	13	8	0	1	0	0	0	0
	1730	"	1008·8	964·1	..	30·0	20·4	13·8	16·2	39	..	4·1	..	17·1	0	9	19	1	7	10	6	0	2	2	0	0	0
Nagapattinam	0830	9	1014·4	1013·3	+0·6	26 2	23·2	21·7	25·9	77	0	4·4	+0·7	15·6	0	9	18	2	18	2	1	0	0	1	3	1	0
	1730	"	1011·2	1010·1	..	26·9	23·7	22·2	26·6	75	..	3·5	..	22·4	0	20	8	1	21	3	3	0	0	0	0	0	0
Tiruchchirappalli	0230	88	1012.6	1002.5	..	22·8	21·6	20·9	24·9	89	..	3·0	..	8·9	0	1	24	1	16	8	0	0	0	0	0	3	0
	0530	"	1012·6	1002·5	..	22·3	21·2	20·9	24.4	91	..	2·8	..	8·6	0	0	28	4	18	5	1	0	0	0	0	0	0
	0830	"	1014·8	1004·7	+0·4	24·5	22·1	20·7	24·6	80	−1	3·3	+1·0	12·9	0	4	23	5	19	2	1	0	0	0	0	1	0
	1130	"	1014·0	1004·1	..	28·9	22·7	19·4	22·5	57	..	3·6	..	15·1	0	8	19	2	18	6	1	0	0	0	0	1	0
	1730	"	1010·4	1000·5	..	29·6	22·7	18·9	22·0	54	..	3·0	..	19·4	0	13	15	0	5	23	0	0	0	0	0	0	0
	2330	"	1013·9	1003·8	..	23·5	21·9	21·1	25·0	86	..	1·9	..	12·9	0	3	25	0	15	11	2	0	0	0	0	0	0
Vedaranniyam	0830	4	1014·1	1013·6	..	26·5	23.3	21·6	25·9	75	..	4·5	..	6.7	0	0	23	8	12	1	1	0	0	0	1	5	0
	1730	"	1010·8	1010.3	..	26·9	23·5	23·5	26·1	74	..	3·0	..	9·7	0	1	23	10	12	2	0	0	0	0	0	4	0
Atirampattinam	0830	6	1013·8	1013·1	..	24.8	23·9	21·9	26·3	85	..	4·3	..	9·1	0	1	27	13	11	3	0	0	0	0	1	0	0
	1730	"	1010·7	1010·0	..	28·2	23·7	21·5	25·6	67	..	3·1	..	15·1	0	5	23	0	20	2	6	0	0	0	0	0	0
Madurai	0830	133	1013·9	998.7	−0·1	25·3	22·0	20·3	23·8	74	−2	5·6	+2·3	5·6	0	0	27	7	17	2	0	0	0	0	1	1	0
	1730	"	1009·1	994·2	..	30·2	22·3	18·0	20·5	50	..	5.1	..	5·8	0	0	28	2	10	10	5	1	0	0	0	0	0
Madurai Aerodrome	0530	131	1012·2	999·1	..	22·3	21.0	20.4	23·8	89	..	3·7	..	7·2	0	1	23	2	22	0	0	0	0	0	0	4	0
	0830	"	1014·0	999.1	..	24·7	21·9	20·5	24·0	78	..	4·3	..	11·0	0	5	21	2	21	2	0	0	0	1	0	2	0
	1130	"	1013·5	998.7	..	28·4	22·7	19·5	22·9	59	..	5·1	..	20·6	0	15	12	2	21	3	1	0	0	0	0	0	1
	1730	"	1009·5	994·9	..	30·1	22·4	17·9	20·8	50	..	4·7	..	13·1	0	10	18	0	14	11	3	0	0	0	0	0	0
Tondi	0830	5	1014·1	1013·5	..	25·6	22.9	21·5	25·6	79	..	4·7	..	4·1	0	0	17	4	6	1	1	0	0	0	5	11	0
	1730	"	1010·7	1010·1	..	27·5	24.0	22·4	26·9	74	..	3·7	..	26·4	0	23	5	0	12	15	1	0	0	0	0	0	0
Pamban	0830	11	1013·2	1011·9	−0·2	25·7	24·1	23·4	28·8	88	+9	4·0	+1·4	7·8	0	2	24	10	7	7	2	0	0	0	0	2	0
	1730	"	1010·4	1009·1	..	27·0	25·1	24·3	30·4	85	..	3·0	..	9·3	0	1	24	10	13	1	1	0	0	0	0	3	0
Tuticorin	0830	4	1014·0	1013·6	+0·6	25·3	22·9	21·7	25·9	81	+6	3·8	+0·8	(d) 16·1	0	7	20	21	4	0	0	0	0	0	2	0	0
	1730	"	1010·1	1009·7	..	27·7	24·8	23·4	28·9	77	..	3·7	..	26·6	0	23	5	1	8	16	3	0	0	0	0	0	0
Palayancottai	30	51	1014·2	1008·4	+0.9	25·3	22·5	20·9	25·2	77	+2	6·2	+2·3	5·6	0	0	26	26	0	0	0	0	0	0	0	2	0
	1730	"	1009·5	1003·8	..	29·3	23·4	20·3	23·8	60	..	4·1	..	7.4	0	1	25	3	5	16	1	1	0	0	0	2	0
Kanniyakumari	0830	37	1012·7	1008·6	..	26·6	22·4	20·1	23·7	68	..	2·8	..	25·1	0	20	8	12	15	1	0	0	0	0	0	0	0
	1730	"	1009·5	1005·4	..	28·2	23·9	21·3	26·1	68	..	4·2	..	21·1	0	19	9	3	14	7	2	0	1	1	0	0	0
Coastal Mysore																											
Karwar	0830	4	1012·7	1012·2	−0·1	22·3	19·4	17·3	20·2	75	−5	1·1	−0·8	1·0	0	0	6	0	6	0	0	0	0	0	0	22	0
	1730	"	1009·7	1009·2	..	29·4	24·0	21·1	25·5	62	..	1·1	..	7·4	0	1	22	0	1	0	0	0	1	1	20	5	0
Honavar	0830	26	1013·3	1010.3	−0.2	22.7	19.2	17.0	19·5	70	−4	1.6	−0·8	5·6	0	0	26	1	7	18	0	0	0	0	0	2	0
	1730	"	1009·4	1006.5	..	30.0	23·9	20·8	24·7	58	..	1·9	..	8·7	0	0	28	0	0	2	0	0	5	17	4	0	0
Mangalore (Bajpe)	0230	102	1010·8	999·2	..	23·8	21·3	20.0	23·2	80	..	1·4	..	3·3	0	0	15	1	2	11	1	0	0	0	0	13	0
	0530	"	1010·9	999·2	..	22·7	20·6	19·3	22·7	82	..	1·7	..	5·9	0	1	27	0	6	16	5	0	0	0	0	1	0
	0830	"	1012·9	1001·4	..	25·3	21·1	18·5	21·6	67	..	1·6	..	6·3	0	0	28	1	5	19	3	0	0	0	0	0	0
	1130	"	1012·5	1001·1	..	31·5	21·5	15·0	17·5	39	..	1·6	..	9·0	0	1	27	0	4	6	7	2	2	4	3	0	0
	1730	"	1008·9	997·6	..	29·7	22.9	19·1	22·8	54	..	2·1	..	15·7	0	4	24	0	0	0	0	0	3	15	10	0	0
	2330	"	1012·0	1000·5	..	25·2	22·4	20·9	24·9	77	..	1·3	..	3·9	0	0	17	1	5	5	2	0	0	0	4	11	0
Mangalore	0830	22	1013.0	1010·5	−0·2	27·0	22·1	19·2	22·7	63	−10	2·8	+1·0	2.6	0	0	28	1	2	24	1	0	0	0	0	0	0
	1730	"	1009.1	1006·6	..	29·9	23·9	20·8	24·7	59	..	3·2	..	6·2	0	0	28	1	0	0	0	0	4	15	8	0	0

(d) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (North)																											
Bidar	0830	664	1015·0	940·7	..	20·9	15·7	11·5	14·1	57	+4	1·3	−0·1	10·6	0	2	25	1	1	2	14	3	3	1	2	1	0
	1730	"	1009·7	937·6	..	28·6	17·1	8·1	11·1	30	..	1·1	..	12·4	0	1	27	2	10	6	1	2	2	1	4	0	0
Gulbarga	0830	458	1015·0	913·5	+1·1	23·6	16·4	10·8	13·4	47	−1	1·9	+1·2	6·5	0	0	27	3	2	7	12	1	0	0	2	1	0
	1730	"	1009·0	959·0	..	31·2	17·7	7·3	10·4	24	..	2·7	..	8·1	0	0	23	2	5	10	1	2	1	0	2	5	0
Bijapur	0830	594	1014·8	948·1	+0·8	21·0	15·4	11·0	13·4	55	+3	1·8	+0·8	4·2	0	1	19	7	2	1	6	4	0	0	0	8	0
	1730	"	1007·9	943·9	..	30·8	18·7	10·2	12·7	28	..	3·0	..	2·6	0	0	26	7	0	15	1	0	0	3	0	2	0
Raichur	0830	400	1014·7	969·4	+0·7	23·2	18·1	14·2	16·6	59	+5	4·4	+3·4	4·6	0	0	27	0	6	0	20	0	0	0	1	1	0
	1730	"	1008·9	965·5	..	31·2	19·7	11·3	13·6	31	..	3·8	..	6·3	0	0	27	0	19	1	6	0	0	0	1	1	0
Belgaum	0830	753	1013.9	930·7	+0·6	21·8	15.7	11·1	12·7	53	−6	1·1	0	5·7	0	0	26	0	1	19	1	0	0	1	2	2	1
	1730	"	1007·6	926·9	..	29·7	18.0	9·3	11·2	29	..	2.1	..	8·3	0	0	28	0	3	12	0	0	0	6	3	0	4
Belgaum (Samra)	0530	747	1012·6	929·1	..	18·9	13.4	8.5	11·4	53	..	1·6	..	8·1	0	4	17	1	6	10	4	0	0	0	0	7	0
	0830	"	1013.9	931·3	..	22·0	14.8	8·9	11·6	45	..	1·2	..	9·0	0	3	18	1	5	7	5	1	0	0	0	7	2
	1130	"	1012·5	931·5	..	27·6	16.7	7·8	11·1	30	..	1·0	..	17·3	0	11	17	5	4	7	8	2	1	0	0	0	1
	1730	"	1008·0	927·7	..	29·8	17·0	6·6	10·0	25	..	2·0	..	15·1	0	12	12	2	5	7	1	0	1	5	3	4	0
Gadag	0530	650	1012·6	939·8	..	19·5	15·4	12·8	14·5	66	..	0·8	..	4·4	0	0	17	0	0	12	5	0	0	0	0	11	0
	0830	"	1014.4	941·9	+0·8	21·5	16.4	12·8	14·9	59	+2	0·7	+0·2	6·4	0	0	25	1	1	13	5	0	1	3	1	3	0
	1130	"	1012·6	942·0	..	29·2	18.9	12·1	14·3	36	..	1·1	..	9·4	0	1	26	3	2	14	5	1	1	1	0	1	0
	1730	"	1007·9	938·1	..	31·1	19·5	10·7	14·2	29	..	2·8	..	7·6	0	0	24	0	5	11	2	2	4	0	0	4	0
	2330	"	1012·7	940·7	..	23·1	16·7	12·1	14·3	51	..	1·2	..	8·6	0	0	26	0	1	17	1	0	0	7	0	2	0
Interior Mysore (South)																											
Bellary	0830	449	1014·6	963.9	+0·8	21·9	18·5	16·3	18·5	72	+18	0·9	−0·5	5·9	0	0	20	0	0	0	15	0	2	0	3	8	0
	1730	"	1008·4	959·5	..	31·5	25·0	21·8	26·3	58	..	2·6	..	7·4	0	0	27	0	0	0	23	0	1	0	3	1	0
Chitradurga	0830	733	1013·8	932·6	+0·6	21·5	17·1	14·2	16·3	65	+11	1·4	−0·2	8·1	0	3	20	0	0	10	5	0	4	1	2	5	1
	1730	"	1007·7	929·0	..	29·6	19·2	12·0	14·7	36	..	2·4	..	4·9	0	0	22	0	3	14	2	0	0	3	0	6	0
Shimoga	0830	571	1013·5	949·7	+0·3	21·2	17.3	14·8	16·9	67	−9	8·0	+5·4	1·9	0	0	11	0	2	3	2	1	2	1	0	17	0
	1730	"	1006·6	945·1	..	31·1	19·0	10·7	13·1	30	..	7·6	..	5·1	0	0	20	0	10	5	2	2	1	0	0	8	0
Agumbe	0830	"	..	..	..	19·6	16·6	14·5	16·7	73	..	1·4	..	10·0	0	4	12	0	13	3	0	0	0	0	0	12	0
Balehonnur	0830	890	..	..	..	17·5	15·6	14.1	16·3	82	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1525·4	908·3	..	19·7	16·4	13·9	16·3	72	+4	3·8	+1·6	2·7	0	0	25	0	0	14	9	2	0	0	0	3	0
	1730	"	1510·9	904·9	..	28·2	17·7	10·5	12·5	34	..	4·7	..	2·6	0	0	26	0	1	11	10	0	1	3	0	2	0
Bangalore	0230	921	1511·1	911·0	..	18·1	16·3	15·1	17·3	83	..	2·7	..	9·1	0	2	26	0	2	20	4	1	1	0	0	0	0
	0830	"	1530·4	912·9	+0·5	19·3	16·5	14·5	16·7	75	+5	3·6	+1·8	9·2	0	0	27	0	3	15	7	1	1	0	0	1	0
	1130	"	1543·4	912·9	..	25·2	17·3	11·7	13.9	45	..	3·2	..	11·4	0	5	22	0	3	16	4	0	1	2	0	1	1
	1730	"	1515·5	909·7	..	26·6	17·5	11·0	13·4	39	..	3·6	..	9·9	0	3	22	0	8	12	4	0	0	0	0	3	1
Bangalore Aerodrome	0530	897	1508·1	913·5	..	17·4	16·1	15·1	17·4	87	..	3·3	..	4·9	0	0	17	0	0	1	15	1	0	0	0	11	0
	0830	"	1532·7	915·5	..	20·1	17·0	14·9	17·1	74	..	3·1	..	9·8	0	0	25	0	1	15	5	2	1	1	0	3	0
	1130	"	1545·3	915·4	..	26·1	18·5	13·3	15.7	47	..	2·8	..	13·3	0	2	23	0	0	15	5	2	1	2	0	3	0
	1730	"	1517·3	912·2	..	27·3	18·4	12·5	14·7	41	..	3·6	..	11·9	0	1	24	1	3	18	2	1	0	0	0	3	0
	2330	"	1527.4	914·9	..	20·5	17·3	15·2	17·4	73	..	1·7	..	9.1	0	0	26	0	0	21	4	1	0	0	0	2	0
Mysore	0830	767	1013·9	928·9	+0·3	21·6	18·0	15·7	18·1	70	+4	2·7	−0·5	4·5	0	0	28	3	0	6	3	5	5	4	2	0	0
	1730	"	1007.6	925·1	..	28·8	17·9	9·9	12·5	33	..	2·6	..	6·7	0	0	28	2	11	2	3	2	5	2	1	0	0
Kerala																											
Calicut	0530	5	1011·1	1010·5	..	24·1	22·4	21·6	25·6	86	..	2·9	..	9·9	0	3	21	1	6	13	1	0	1	1	1	4	0
	0830	"	1013·0	1012·4	0	25·7	22·7	21·0	25·0	77	+2	2·9	+0·8	9·0	0	2	23	0	0	18	4	1	1	0	1	3	0
	1130	"	1013.0	1012·4	..	29·5	24·1	21·4	25·6	63	..	2·3	..	11·8	0	2	25	1	1	1	0	1	10	11	2	1	0
	1730	"	1009·4	1008·8	..	29·5	24·7	22·5	27·3	66	..	1.9	..	13·9	0	3	24	1	0	0	0	0	0	6	20	1	0
	2330	"	1012.2	1011·6	..	26·3	23·7	22·5	27·3	80	..	2·0	..	6·0	0	1	21	7	5	6	0	0	0	0	4	6	0
Palghat	0830	97	1013.5	1002·5	..	25·8	21·5	19·1	22·1	67	..	3·0	..	11·1	0	0	27	0	0	23	2	0	0	2	0	1	0
	1730	"	1008·4	997.6	..	32·3	22·3	16·0	18·8	40	..	2·8	..	9·9	0	0	28	0	0	22	1	0	0	4	1	0	0
Fort Cochin	0830	3	1013·0	1012·7	+0·1	27·2	23·1	21·4	25·0	69	−4	4·8	+3·0	5.1	0	0	28	7	12	6	0	0	0	0	3	0	0
	1730	"	1008·7	1008·4	..	28·4	24·4	22·2	27·3	68	..	5·2	..	11·8	0	2	26	0	1	0	0	0	6	15	6	0	0
Cochin (Naval Air Station)	0230	3	1011·3	1011·0	..	24·9	23·1	22·3	26·7	86	..	3·7	..	2·1	0	0	8	1	1	2	1	3	0	0	0	20	0
	0530	"	1011·0	1010·7	..	23·9	22·1	21·1	25·2	85	..	3·7	..	1·7	0	0	11	1	6	4	0	0	0	0	0	17	0
	0830	"	1012·8	1012·5	..	25·9	22·2	20·3	23·8	72	..	3·1	..	6·3	0	0	27	3	11	12	0	0	0	0	1	1	0
	1130	"	1012·8	1012·5	..	30·5	23·4	19·6	22·9	53	..	2·6	..	10·9	0	2	26	0	2	5	1	3	7	4	6	0	0
	1730	"	1009·2	1008·9	..	29·9	24·6	21·3	26·6	63	..	3·5	..	16·9	0	5	23	0	1	0	0	0	5	19	3	0	0
	2330	"	1012·4	1012·1	..	26·3	23·7	22·4	27·3	80	..	4·3	..	1.6	0	0	7	0	1	2	1	3	0	0	0	21	0
Alleppey	0830	4	1012·5	1012·1	+0·4	26·3	23·4	21·9	26·3	77	−1	3·3	−1·2	4·1	0	0	26	0	9	5	11	0	0	0	1	2	0
	1730	"	1009·2	1008·8	..	30·2	25·7	23·7	29·3	68	..	3·3	..	20·3	0	21	7	0	0	0	0	0	0	10	18	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Punalur	0830	34	1012·2	1008·4	..	24·9	21·9	20·2	23·7	76	..	3·8	..	1·1	0	0	8	0	2	4	2	0	0	0	0	20	0
	1730	"	1003·4	1004·6	..	31·1	23·4	19·2	22·4	51	..	5·6	..	4·6	0	0	27	0	4	6	6	7	2	1	1	1	6
Trivandrum	0230	64	1010·5	1003·2	..	24·4	22·3	21·0	25·3	83	..	1·9	..	3·7	0	0	19	4	5	2	1	0	0	2	5	9	0
	0530	"	1010·5	1003·1	..	23·6	21·7	20·5	24·4	83	..	1·6	..	3·5	0	0	15	3	9	2	0	0	1	0	0	13	0
	0830	"	1012·3	1005·0	−0·4	25·6	22·6	21·0	25·0	77	−1	1·7	−0·4	4·1	0	0	26	10	7	3	3	0	0	0	3	2	0
	1130	"	1012·1	1004·9	..	30·3	23·3	19·6	22·9	54	..	3·6	..	7·5	0	0	28	3	3	1	1	3	9	5	3	0	0
	1730	"	1009·2	1002·0	..	28·6	23·8	21·4	25·5	66	..	3·1	..	7·7	0	0	28	1	2	0	2	2	18	2	1	0	0
	2330	"	1012·2	1004·8	..	25·4	22·9	21·5	25·9	81	..	3·0	..	5·5	0	0	21	6	8	0	0	0	0	2	5	7	0
Trivandrum Aerodrome	0830	8	1012·3	1011·4	..	26·3	22·8	20·8	24·9	72		1·9	..	3·5	0	0	21	5	15	1	0	0	0	0	0	7	0
Arabian Sea Islands																											
Amini *	0830	4																									
	1730	"																									
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	..	..	..	7·1	2·9	−3·3	4·8	51	−11	4·2	+1·7	3·3	0	0	28	0	7	0	14	0	4	0	1	6	2
	1730	"	..	..	..	8·1	4·5	−0·6	6·1	60	..	6·1	..	3·3	0	0	27	0	13	0	10	0	4	0	0	1	0
Dharmsala	0830	1211	..	..	..	10·3	7·3	3·3	8·1	63	+7	4·5	+1·5	1·9	0	0	23	6	12	2	0	0	1	1	1	5	0
	1730	"	..	..	..	14·3	11·0	7·7	10·5	63	..	5·8	..	2·4	0	0	27	0	4	1	0	0	21	0	1	1	0
Simla	0830	2202	1519·3	783·0	+2·5	6·3	2·3	−3·9	4·6	52	+6	3·1	−0·5	1·9	0	0	26	0	3	0	5	5	8	0	5	2	0
	1730	"	1512·9	782·6	..	7·1	4·3	0·8	6·6	67	..	5·3	..	1·9	0	0	27	0	3	0	10	1	12	0	1	1	0
Lokpal	0830	..	..	..	..	−8·7	−10·0	−13·2	1·9	70	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..				Closed during winter month.																					
Joshimath	0830	..	..	..	..	5·2	1·9	−3·7	4·8	57	..	4·0	..	6·9	0	0	24	1	3	10	5	2	2	1	0	4	0
	1730	..	..	..	..	9·1	4·8	−0·7	5·6	54	..	5·3	..	4·7	0	0	27	1	1	2	6	8	5	3	0	1	1
Mussoorie	0830	2042	15 8·7	798·1	+1·3	6·2	3·1	−1·4	5·6	63	−2	4·0	+0·2	2·8	0	1	14	5	2	0	2	2	1	0	3	13	0
	1730	"	1503·6	797·0	..	8·0	6·5	5·0	8·7	83	..	6·4	..	2·8	0	0	22	4	3	0	5	7	2	1	0	6	0
Mukteswar (Kumaon)	0830	2311	3118·6	773·4	+1·3	5·4	2·5	−1·7	5·3	65	+11	3·2	+0·1	10·7	0	2	24	0	6	6	0	0	3	6	5	2	0
	1730	"	3112·2	772·3	.	7·2	4·9	2·3	7·5	74	..	4·5	..	11·6	0	5	22	0	2	2	2	0	3	12	6	1	0
Nainital	0830	1953	1512·0	806·1	+1·7	6·1	3·3	−0·4	6·1	66	+19	3·2	+0·9	2·2	0	0	13	3	2	1	2	0	0	5	0	15	0
	1730	"	1492·9	804·3	..	7·9	5·9	3·8	8·1	77	..	4·6	..	5·6	0	0	28	3	1	1	2	1	2	18	0	0	0
Kalimpong	0830	1209	1474·6	877·0	−4·2	17·6	16·0	15·0	17·0	85	+12	1·8	−1·0	3·3	0	0	28	1	1	0	3	0	0	0	23	0	0
	1730	"	1472·2	876·7	..	17·7	15·7	14·3	16·3	80	..	2·2	..	3·0	0	0	28	0	0	1	25	0	0	0	2	0	0
Darjeeling	0830	2128	1495·3	788·2	0	7·2	5·6	3·9	8·1	72	+1	4·5	+0·7	0·8	0	0	8	3	0	0	0	0	3	1	0	19	1
	1730	"	1470·5	785·9	..	7·8	6·3	5·1	8·8	81	..	5·9	..	2·2	0	0	12	1	1	0	0	0	3	7	0	14	0
Kohima †	0830	1406	1558·5	865·6	..	12·6	9·2	5·8	9·2	63	..	4·0	..	2·1	0	0	28	5	2	6	8	1	0	1	3	0	2
‡	1730	"	1524·0	862·1	..	14·1	11·7	9·5	11·9	75	..	4·0	..	2·0	0	0	28	0	0	0	0	0	1	17	10	0	0
Shillong	0830	1500	1525·4	852·8	+1·6	14·5	10·1	5·4	9·1	57	−4	3·2	+1·1	1·4	0	0	9	1	0	0	2	1	3	2	0	19	0
	1730	"	1507·2	850·9	..	13·2	11·3	9·5	11·9	79	..	6·4	..	0·5	0	0	3	0	0	0	0	0	2	1	0	25	0
Cherrapunji	0830	1313	..	..	..	13·4	10·3	7·5	10·4	67	+7	3·1	+0·6	3·3 (e)	0	0	25	0	4	10	0	1	8	0	0	1	2
	1730	"	..	..	..	13·4	10·5	7·7	10·5	68	..	3·6	..	2·5 (e)	0	0	14	0	0	1	1	0	8	0	1	12	3
Abu	0830	1195	..	..	..	13·0	8·2	2·9	7·4	52	+9	0·4	−1·3	0·8	0	0	5	2	1	0	0	0	1	1	0	23	0
	1730	"	..	..	..	19·6	11·1	1·5	7·0	31	..	1·1	..	2·7	0	0	22	7	3	1	0	2	5	1	3	6	0
Aijal	0830	..	..	..	..	17·9	13·7	10·1	12·3	61	..	3·4	..	3·0	0	0	28	4	0	11	0	7	1	3	2	0	0
	1730	..	..	..	..	20·0	15·0	10·9	13·1	59	..	2·6	..	3·3	0	0	28	1	0	2	0	2	6	14	3	0	0
Pachmarhi	0830	1075	1540·0	898·0	+1·7	16·3	11·8	7·8	10·6	59	+7	2·0	+0·3	3·0	0	0	23	0	0	2	1	7	8	0	5	5	0
	1730	"	1524·3	895·3	..	22·5	14·6	7·9	10·6	42	..	2·7	..	4·1	0	0	28	8	3	0	0	0	3	2	12	0	0
Mahabaleshwar	0830	1382	1534·0	865·5	+1·1	17·6	11·6	6·1	9·3	46	−1	0·1	−0·5	10·5	0	0	28	1	6	3	14	0	2	0	2	0	0
	1730	"	1525·0	864·3	..	24·1	14·1	5·6	8·8	31	..	0·3	..	9·8	0	0	28	6	7	2	2	0	2	8	1	0	0
Margara	0830	1152	1524·8	888·1	+0·6	18·2	15·9	14·3	16·2	79	+5	1·6	−1·3	14·7	0	0	22	0	14	14	0	0	0	0	0	0	0
	1730	"	1509·7	885·7	..	24·4	18·7	15·1	17·0	58	..	3·4	..	11·6	0	0	24	0	12	12	0	0	0	2	2	0	0

*Data included as addenda in December 1962 issue. (e) Mean of 27 days. †Observation for 27 days. ‡Observations for 26 days

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*—																											
Ootacamund	0830	2249	1523·8	780·9	+0·1	12·7	9·4	6·0	9·7	66	0	2·5	+0·7	3·7	0	2	9	0	3	6	0	2	0	0	0	17	0
	1730	"	1501·1	779·2	..	15·2	11·7	8·9	11·5	68	..	4·5	..	1·9	0	0	15	1	2	11	0	1	0	0	0	13	0
Coonoor	0830	1747	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kodaikanal	0830	2343	3158·3	772·5	+0·4	12·1	8·9	5·0	9·3	68	+16	2·6	+0·8	13·0	0	5	23	2	8	5	12	0	0	0	1	0	0
	1130	"	3171·7	772·9	..	15·4	11·2	7·3	10·2	62	..	3·6	..	14·1	0	7	20	1	5	6	14	0	0	0	1	1	0
	1730	"	3146·1	771·1	..	12·8	11·3	9·9	12·4	84	..	5·8	..	7.1	0	2	25	4	8	6	7	1	0	0	1	1	0
Nepal																											
Katmandu	0830	1324	1521·1	870·7	..	7·9	7·3	6·7	9·9	92	..	5·9	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1130	"	1519·8	870·0	..	15·3	11·4	7·0	10·7	59	..	3·3	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	"	1498·7	867·9	..	13·7	10·8	8·2	10·9	69	..	4·1	..	0·2	0	0	2	0	0	1	0	0	0	1	0	26	0
Sikkim																											
Lachen	0830	..	..	..	..	1·6	0·1	−2·8	4·8	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories Damodar Catchment																											
Tilaya	0830	..	..	..	..	18·4	14·4	11·1	13·3	62	..	1·5	..	9·0	0	1	23	1	2	6	1	2	3	7	2	4	0
	1730	..	..	..	..	23·1	15·5	8·9	10·8	42	..	1·7	..	9·0	0	0	26	7	2	2	0	0	0	4	11	2	0
Hazaribagh	0830	615	1016·1	946·2	..	17·4	13·4	9·9	12·8	64	..	1·3	..	4·5	0	0	22	1	0	1	6	1	5	3	5	6	0
	1730	"	1012·3	943·5	..	20·9	14·4	9·1	11·3	49	..	1·9	..	5·4	0	0	25	9	0	2	1	0	1	3	9	3	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	1·3	..	9·0	0	1	26	0	0	0	3	0	0	20	4	1	0
	1730	..	..	..	..	..	..	..	..	..	..	1·3	..	8·0	0	0	28	1	0	0	2	0	0	24	1	0	0
Bokaro	0830	242	1017·7	989·5	..	17·4	14·5	12·1	14·2	72	..	2·3	..	2·0	0	0	14	0	0	0	3	0	5	0	6	14	0
	1730	"	1013·2	985·8	..	23·7	17·1	12·2	14·0	50	..	2·2	..	4·0	0	0	27	0	8	0	1	0	5	0	13	1	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	1·5	..	6·6	0	0	27	5	1	1	0	0	0	17	3	1	0
	1730	..	..	..	..	..	..	..	..	..	..	1·8	..	8·0	0	0	28	12	0	0	0	0	1	9	6	0	0
Ramgarh	0830	..	..	..	..	16·1	14·7	13·6	15·6	85	..	1·7	..	1·1	0	0	10	1	0	0	0	0	2	5	2	18	0
	1730	..	..	..	..	23·7	19·8	17·3	19·8	68	..	2·2	..	1·9	0	0	17	3	2	2	0	1	3	4	2	11	0
Panchet Hills	0830	..	..	..	..	20·5	16·2	12·8	15·0	63	..	3·9	..	4·0	0	0	27	0	1	0	2	0	12	8	4	1	0
	1730	..	..	..	..	25·0	17·8	12·4	14·7	46	..	5·3	..	2·2	0	0	18	1	2	1	1	2	3	3	5	10	0
Durgapur	0830	..	..	..	..	21·2	16·9	13·6	15·7	64	..	2·2	..	4·5	0	0	28	12	7	1	1	3	1	0	3	0	0
	1730	..	..	..	..	25·1	17·7	12·0	14·1	45	..	1·5	..	5·3	0	1	27	7	4	3	1	0	4	1	8	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	18·3	14·2	10·6	12·9	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1016·4	998·0	..	21·4	17·2	14·0	16·2	63	..	1·2	..	3·0	0	0	20	3	8	3	3	0	2		1	8	0
	1130	"	1015·6	997·4	..	26·6	19·0	13·8	15·8	46	..	1·2	..	3·0	0	0	27	1	6	0	2	0	5	3	10	1	0
	1730	..	1012·2	994·2	..	27·9	18·7	12·1	13·4	38	..	1·1	..	2·1	0	0	17	2	2	2	2	1	1	2	5	11	0
Phimkund	0830	..	..	..	..	18·1	15·2	12·7	15·0	72	..	2·0	..	1·9	0	0	16	3	1	0	0	0	1	0	11	12	0
	1730	..	..	..	..	26·0	17·5	10·1	12·7	39	..	2·6	..	1·4	0	0	13	3	4	1	1	0	2	0	2	15	0
Sonepur	0830	..	..	..	..	21.3	18·1	16·0	18·3	73	..	..	..	3·5	0	0	21	1	3	5	6	1	3	0	2	7	0
Khijrawan	0830	..	..	..	..	21·9	16·9	14·0	15·2	61	..	1·0	..	4·2	0	0	23	1	3	8	4	2	1	3	1	5	0
	1730	..	..	..	..	22·2	17·3	13·8	15·8	62	..	1·0	..	6·3	0	0	26	2	2	2	15	0	3	2	0	2	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	18·0	13·9	10·5	12·5	63	..	1·4	..	12·1	0	0	23	1	9	1	0	1	10	1	0	5	0
	1730	..	..	..	..	26·3	16·9	8·7	11·6	35	..	1·2	..	3·9	0	0	16	0	9	0	1	0	3	0	2	12	1
Panasa	0830	..	..	..	..	19·2	13·9	8·6	11·6	51	..	..	..	7·0	0	0	21	0	16	3	0	0	2	0	0	7	0
	1730	..	..	..	..	30·3	17·9	7·4	10·1	25	..	..	..	6·3	0	2	23	3	8	1	0	0	2	6	5	3	0
Thikri	0830	..	..	..	..	19·8	13·4	6·9	9·8	46	..	2·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	18·5	13·2	7·9	10·8	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·2	16·5	5·3	9·3	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	2·0	0.8	−0·7	5·8	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	4·8	2·6	0·1	6·1	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	12·9	10·1	7·9	10·7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·0	12·8	10·0	12·3	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories *Contd.*— **Gandak Catchments** *Contd.* —																											
Timure	0830	..	..	..	..	6.6	4·0	0·8	6·5	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10.9	7·7	4·5	8·4	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	13·2	10·7	8·5	11·1	73	..	3·7	..	1·1	0	0	9	3	1	0	1	1	1	0	2	19	0
	1130	..	..	..	..	17.7	13·0	9·0	11·5	58	..	3·4	..	4·4	0	0	25	1	0	2	17	5	0	0	0	3	0
	1730	..	..	..	..	16·4	12·3	8·9	11·3	62	..	4·4	..	2·7	0	0	14	2	1	3	6	1	0	0	1	14	0
Gorkha‡	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	13·8	11·8	10·1	12·3	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·7	12·5	9·0	11·5	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaghara Catchment [*Trans Himalayan Region*]																											
Dailekh +	0830	..	..	..	..	10·5	8·5	6·5	9·7	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
+	1730	..	..	..	..	14·3	10·7	7·3	10·2	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaghara Catchment																											
Mansiari	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dadeldhura	0830	..	..	..	..	8·1	5·1	1·7	6·9	64	..	3·8	..	..	..	..	..	0	2	8	10	2	0	0	2	4	0
	1730	..	..	..	..	9·2	6·2	3·0	7·6	65	..	3·8	..	..	..	..	..	1	0	2	5	1	4	3	10	2	0
Sallayana*	0830	..	..	..	..	10·1	7·8	3·5	7·9	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·4	9·5	6·7	9·8	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	19·4	15·3	12·1	14·1	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·2	16·9	13·8	15·8	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu†	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chautara	0830	..	..	..	..	10·0	8·1	6·4	9·6	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·9	9·8	6·2	9·5	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	6·8	4·7	2·9	7·5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·4	7·1	5·4	9·0	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	11·1	7·9	4·4	8·4	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·4	9·3	5·1	8·8	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	11·4	8·6	6·1	9·4	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·7	8·5	6·5	9·7	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	9·7	7·1	4·4	8·4	72	..	3·9	..	..	..	..	..	0	0	1	0	0	0	2	0	25	0
	1130	..	..	..	..	13·0	9·1	5·6	9·0	62	..	4·3	..	..	..	..	..	3	0	1	0	2	3	10	1	8	0
	1730	..	..	..	..	11·3	8·2	5·3	8·9	67	..	5·4	..	..	..	..	..	0	1	1	0	11	4	5	0	6	0
Okhaldhunga	0830	..	..	..	..	9·4	7·3	5·0	8·9	75	..	3·7	..	3·2	0	0	18	0	0	3	3	3	3	5	1	10	0
	1130	..	..	..	..	12·7	8·9	5·1	9·0	61	..	4·7	..	3·1	0	0	16	0	0	0	1	4	7	2	2	12	0
	1730	..	..	..	..	10·2	8·0	5·9	9·3	76	..	5.4	..	7·0	0	0	21	0	0	0	1	2	3	12	3	7	0
Chainpur	0830	..	..	..	..	12·7	9·9	7·3	10·2	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·5	10·6	6·9	9·9	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung**	0830	..	..	..	..	13·7	10·8	8.2	10·9	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·0	11·2	6·7	9·8	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1017·4	1000·2	..	16·2	13·7	11·5	13·7	75	..	2.5	..	5·8	0	0	28	0	8	6	5	0	6	1	2	0	0
	1130	,,	1015·9	999·0	..	22·9	16·8	12·2	14·2	51	..	3·2	..	5·7	0	0	28	0	0	0	0	0	16	7	5	0	0
	1730	,,	1013·5	996·5	..	20·3	16·7	14·1	16·1	69	..	3·0	..	4·4	0	0	28	1	4	13	5	3	2	0	0	0	0
Tista Catchment																											
Gangtok	0830	1812	1526·6	821·5	..	8·1	6·2	4·2	8.2	78	..	3·4	..	0·9	0	0	6	2	4	0	0	0	0	0	0	22	0
	1130	,,	1517·0	821·1	..	12·9	9·5	6·5	9·7	66	..	4·4	..	3·2	0	0	26	0	2	0	6	3	14	0	1	2	0
	1730	,,	1500·9	819·2	..	9·7	7·8	6·1	9·3	79	..	6·9	..	2·9	0	0	19	1	1	1	10	4	2	0	0	9	0
Gezing	0830	,,	..	..	..	12·0	9·2	6·7	9·8	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	11·9	9·3	7·0	10.0	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Mean for 27 days. (R) Register not received. †Data included under "Nepal" +Observations for 17 days. **Observations for 26 days. ‡Data not available.

MONTHLY MEANS OF UPPER WINDS

February 1962 (*Magha* 12—*Phalguna* 9, 1883 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

5—566 D. D. C.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)			
1. Agartala	23°53′	91°15′	17	28th Nov. 1951	0530		1730	2330
2. Ahmadabad	23°04′	72°38′	61	19th May 1928	0530*	1130	1730*	2330
3. Allahabad/Bamhrauli	25°27′	81°44′	103	28th Feb. 1930	0530*	1130	1730*	2330
4. Ambala	30°23′	76°46′	279	1st Apr. 1941	0530	1130	1730	2330
5. Anantapur	14°41′	77°37′	365	12th Feb. 1946	0530		1730	2330
6. Asansol	23°41′	86°59′	135	29th May 1942	0530		1730	2330
7. Aurangabad/Chikalthan	19°51′	75°24′	583	7th Oct. 1951	0530		1730	2330
8. Bahraich	27°34′	81°36′	134	1st Oct. 1961	0530		1730	
9. Banglore	12°58′	77°35′	936	19th May 1915	0530@	1130	1730@	2330
10. Bareilly	28°22′	79°24′	181	12th Jan. 1943	0530		1730	
11. Begampet	17°27′	78°28′	543	1st Sep. 1929	0530		1730	2330
12. Bhagalpur	25°14′	86°57′	61	19th May 1950	0530		1730	
13. Bhopal/Bairagarh	23°17	77°21	532	26th Feb. 1943	0530		1730	2330
14. Bhubaneshwar	20°15′	85°50′	54	5th Dec. 1942	0530		1730	2330
15. Bhuj/Rudramata	23°15′	69°48′	90	14th Sep. 1937	0530		1730	2330
16. Bikaner	28°00′	73°18′	229	18th Oct. 1946	0530		1730	2330
17. Bombay/Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
18. Calcutta/Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
19. Cochin/Willingdon†	09 56′	76°14′	13	16th Mar. 1942	0530		1730	2330
20. Darjeeling	27 03′	88°16′	2115	21st May 1956	0830		1730	
21. Dehra Dun	30°19′	78°03′	692	1st Oct. 1958	0530		1730	
22. Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
23. Gadag	15 25′	75°38′	650	3rd May 1943	0530		1730	2330
24. Gauhati	26°05′	91°43′	55	12th Mar. 1955	0530*	1130	1730*	2330
25. Gaya	24°45′	84°57′	119	19th Mar. 1937	0530		1730	2330
26. Gopalpur	19°16′	84°53′	24	15th Feb. 1946	0530		1730	2330
27. Gorakhpur	26°45′	83°22	83	5th Jan. 1943	0530		1730	
28. Gwalior	26°14′	78°15′	208	7th May 1938	0530	1130	1730	2330
29. Imphal/Tuithal	24°46′	93°54′	732	8th Mar. 1952	0530	1130	1730	2330
30. Jabalpur	23°10	79°57′	402	30th July 1928	0530		1730	2330
31. Jagdalpur	19°05′	82°02′	562	25th Mar. 1948	0530		1730	
32. Jaipur/Sanganer	26°49′	75°48′	403	6th June 1953	0530		1730	2330
33. Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530		1730	
34. Jharsuguda	21°55′	84°05′	240	1st May 1944	0530		1730	2330
35. Jodhpur	26°18′	73°01′	229	15th Oct. 1934	0530*	1130	1730*	2330
36. Lucknow/Amausi	26°45′	80°53′	133	20th Nov. 1950	0530		1730	2330
37. Madras/Minambakkam	13°00′	80°11′	29	8th Apr. 1926	0530*	1130	1730*	2330
38. Mangalore/Bajpe	12°55′	74°53′	104	25th May 1959	0530		1730	2330
39. Minicoy	08°18′	73°09′	15	14th Apr. 1941	0530		1730	2330
40. Nagpur/Sonegaon	21°06′	79°03′	316	23rd Apr. 1943	0530*	1130	1730*	2330
41. New Delhi/Safdarjung	28°35′	77°12′	227	20th Oct. 1936	0530*	1130	1730*	2330
42. Poona	18°32′	73°51′	593	5th Jan. 1925	0530		1730	2330
43. Port Blair	11°40′	92°43′	95	29th Oct. 1915	0530*	1130	1730*	2330
44. Raipur	21°14′	81°39′	308	15th July 1944	0530	1130	1730*	2330
45. Raxaul	26°59′	84°51′	83	28th Oct. 1957	0530		1730	
46. Siliguri/Baghdogra	26°38′	88°19′	140	7th June 1953	0530		1730	2330
47. Tiruchchirappalli	10°46′	78°43′	96	22nd June 1936	0530		1730	2330
48. Trivandrum	08°29′	76°57′	73	8th Dec. 1928	0530*	1130	1730*	2330
49. Udaipur	24°35′	73°42′	587	24th June 1947	0530*		1730	2330
50. Vengurla	15°52′	73°38′	8	22nd Nov. 1941	0530		1730	2330
51. Veraval	20°54′	70°22′	17	13th Oct. 1941	0530		1730	2330
52. Vijaywada/Gannavaram	16°32′	80°48′	32	8th Apr. 1942	0530		1730	2330
53. Vishakhapatnam	17°43′	83°14′	10	24th Sep. 1928	0530*	1130	1730*	2330

* Radiowind ascents.

@Radiosonde ascents followed by optical theolite.

† Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

February 1962 (Magha 12–Phalguna 9, 1883 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·7	0·3	172	28	1·2	0·6	267	27	0·9	0·1	269	28	2·7	1·4	028	28	4·2	2·7	063	28	3·1	1·7	014
0·15 a. g.	28	3·4	0·5	039	28	3·5	1·8	278	27	4·2	2·1	295	28	9·0	6·1	049	28	5·8	2·8	060	28	5·3	2·4	341
0·3 a. m. s. l.	28	3·9	1·5	360	28	3·3	1·9	276	27	4·3	2·8	294	28	8·5	5·5	047	28	4·5	2·8	066	28	4·9	2·2	341
0·6 ,,	28	4·1	2·0	337	28	3·6	2·2	261	27	4·6	3·1	282	28	6·9	3·5	047	28	4·5	1·9	060	28	4·1	1·5	346
0·9 ,,	28	4·2	2·6	310	28	3·7	2·5	251	27	4·7	3·3	271	28	5·8	2·1	025	28	4·5	1·4	031	28	5·0	2·0	337
1·5 ,,	28	5·4	3·9	280	28	4·8	3·5	255	25	4·9	3·2	269	28	5·3	3·3	297	28	5·7	2·9	312	28	5·8	3·2	316
2·1 ,,	27	7·1	5·9	277	28	7·5	6·0	268	24	6·5	5·7	282	28	7·3	5·0	295	28	6·9	3·8	297	28	6·9	4·4	295
3·0 ,,	23	10·8	9·5	273	28	11·7	10·8	272	22	11·0	10·1	281	28	9·4	7·1	292	28	8·9	6·3	286	28	9·3	7·1	295
3·6 ,,	21	11·9	10·5	263	25	14·9	13·9	274	8	11·3	10·5	268	28	10·9	8·4	290	28	11·2	8·5	287	28	11·8	8·8	287
4·5 ,,	16	14·9	13·7	263	23	17·8	16·5	273	3	17·5	16·8	267	28	14·2	12·6	287	25	14·4	11·9	281	28	14·4	12·4	287
5·4 ,,	8	15·8	15·3	261	21	21·4	20·6	268					28	18·6	16·8	288	24	17·9	16·0	285	28	19·2	17·4	287
6·0 ,,	3	13·3	12·1	260	19	20·8	20·2	263					28	21·9	20·1	287	23	18·9	16·7	285	27	21·1	19·3	284
7·2 ,,					11	24·4	24·1	256					28	26·6	24·6	288	13	21·6	20·4	276	27	26·8	24·4	290
9·0 ,,					5	30·7	30·3	247					22	35·3	32·5	290	3	28·8	28·3	266	24	33·4	30·0	287

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·6	1·7	358	28	0·8	0·3	047	28	1·9	0·1	083	28	1·6	0·8	360	28	1·1	0·4	073	28	0·9	0·3	303
0·15 a. g.	28	8·3	5·4	009	28	4·8	0·9	039	28	3·3	0·1	090	28	4·3	2·6	340	26	5·3	2·6	026	28	6·7	2·1	334
0·3 a. m. s. l.	28	7·8	4·8	010	28	5·1	1·4	069	28	3·3	0·2	165	28	4·3	2·6	340	26	5·1	2·1	028	28	2·6	0·8	331
0·6 ,,	28	6·6	3·9	006	28	5·1	0·2	177	28	3·8	0·6	220	28	3·9	2·0	337	26	4·8	1·4	347	28	6·7	2·4	335
0·9 ,,	28	5·7	2·7	357	28	5·4	1·9	265	28	4·3	1·5	261	28	4·1	2·3	306	26	4·9	2·2	294	28	5·9	2·2	331
1·5 ,,	28	5·4	2·0	287	28	6·7	5·2	276	27	6·6	4·5	278	28	6·3	5·1	274	26	6·2	5·6	276	28	5·1	1·2	314
2·1 ,,	28	6·4	3·2	266	28	8·4	7·7	276	27	7·9	6·7	277	28	7·9	6·5	273	25	8·8	7·9	273	28	5·5	1·9	293
3·0 ,,	26	7·8	3·9	284	28	10·1	9·0	277	27	10·8	9·5	283	28	10·4	8·8	272	21	9·8	8·1	275	27	6·4	2·8	281
3·6 ,,	6	7·8	5·9	285	28	12·0	11·1	277	27	12·3	11·2	278	28	12·9	11·1	273	7	9·8	9·0	279	22	8·5	5·6	295
4·5 ,,					27	15·6	14·6	277	24	14·8	13·9	278	28	15·8	14·6	273	1	9·0	9·0	315	20	10·5	8·8	297
5·4 ,,					27	19·9	18·5	272	19	19·4	18·6	276	28	19·6	18·2	274					12	10·3	8·9	292
6·0 ,,					27	21·6	20·5	272	14	21·1	20·3	274	28	20·5	19·6	272					9	11·1	10·6	294
7·2 ,,					27	25·7	24·4	269	4	23·1	22·9	275	28	26·4	24·4	272					2	21·5	21·5	267
9·0 ,,					17	35·8	32·7	268					24	33·2	30·1	271					1	13·5	13·5	320

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1·8	0·5	340	28	2·1	0·6	293	28	1·6	0·2	325	28	2·3	1.5	094	28	4·1	3·7	084	28	5·5	4·8	090
0·15 a. g. . .	28	5·6	1·4	[illegible]	27	5·2	1·9	294	27	8·0	3·3	346	28	5·0	3·2	106	28	5·6	4·9	078	28	8·4	7·4	096
0·3 a. m. s. l. .	28	2·7	0·7	353	27	3·4	1·3	301	27	3·4	1·7	337												
0·6 ,, .	28	6·5	1.8	351	27	5·6	2·0	300	27	7·6	3·5	350	28	5·5	3·4	118	28	5·0	4·3	078	28	8·7	7·7	097
0·9 ,, .	28	6·7	1·7	345	27	6·0	1·9	311	27	6·7	2·4	360	28	7·3	5·1	112	28	4·4	3·7	080	28	8·1	7·3	098
1 5 ,, .	28	6·1	0·9	303	27	5·2	0·8	314	27	5·4	1·0	298	28	7·2	4·6	100	28	4·9	4·0	082	28	4·4	3·8	091
2·1 ,, .	28	5·8	1·0	265	26	5·7	1.4	265	26	5·2	2·6	270	28	5·9	3·0	072	28	4·7	3·4	073	28	5·2	2·2	064
3·0 ,, .	24	7·1	4·7	282	26	6·1	3·1	271	25	6·3	4·3	274	27	5·5	2·9	061	27	5·8	2·6	078	28	6·5	1·6	020
3·6 ,, .	22	7·1	4·2	277	23	6·6	4·3	282	5	7·1	6·9	261	27	6·6	1·6	028	27	6·5	1·1	005	26	6·3	1·9	005
4·5 ,, .	16	8·0	6·8	289	19	9·1	8·0	289	1	7·5	7·5	235	26	7·2	2·4	320	25	6·8	1·5	305	22	7·2	2·2	310
5·4 ,, .	13	9·8	9·4	287	17	12·5	11·4	286					26	8·3	5·1	317	24	8·6	3·5	308	12	9·5	6·8	333
6·0 ,, .	11	14·5	12·6	289	15	14·4	12·9	289					25	9·0	5·7	305	24	8·7	4·8	301	8	11·4	10.0	318
7·2 ,, .	5	17·2	16·5	280	5	23·0	21·9	300					20	12·0	8·0	284	18	11·3	7·4	302	3	9·3	6·8	289
9·0 ,, .	2	15·5	15·3	315	1	11·0	11·0	290					10	14·5	12·7	256	12	12·1	8·9	272				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	0·3	0·2	297	28	1·1	0·9	305	28	0·4	0·0	334	28	0·8	0·5	027	28	1·6	0·9	273	28	1·7	0·7	019
0·15 a. g. .	28	4·2	2·2	335	28	3·2	2·0	313	28	6·0	3·5	011	28	5·7	3·5	059	28	3·2	1·4	277	28	6·8	4·4	037
0·3 a. m. s. l. .	28	4·4	2·3	351	28	3·3	2·1	314	28	6·3	3·3	012												
0·6 ,, .	28	4·6	1·3	334	28	3·6	2·1	304	28	5·6	2·3	347												
0·9 ,, .	28	4·7	2·6	302	28	3·9	2·9	298	28	4·8	2·0	288	28	6·6	3·3	067	28	3·4	1·5	281	28	7·1	4·0	034
1·5 ,, .	27	6·3	5·3	292	28	6·1	5·2	292	28	6·2	2·5	274	28	6·3	1·2	065	28	3·0	1·4	295	28	5·5	2·2	041
2·1 ,, .	27	8·8	7·3	292	27	8·1	7·4	290	28	9·5	7·6	278	28	5·1	1·8	260	28	3·6	2·0	296	28	4·5	0·8	201
3·0 ,, .	24	11·5	9·5	284	24	12·1	11·2	288	28	12·1	10·5	282	28	7·3	4·2	256	25	5·7	3·7	302	28	5·8	2·9	245
3·6 ,, .	16	13·8	12·2	271	24	14·1	13·3	283	19	13·0	11·1	279	13	10·5	7·7	275	24	6·8 [illegible]	[illegible]·3	299	20	7·5	4·7	276
4·5 ,, .	15	18·6	17·0	268	18	16·1	14·9	274	14	21·3	14·6	267					24	10·3	8·0	295				
5·4 ,, .	5	19·7	15·6	266	12	22·4	21·0	271	5	19·9	15·7	242					22	13·0	11·0	289				
6·0 ,, .	2	25·5	25·3	244	7	22·3	20·9	268	2	24·2	11·7	226					20	14 9	13·1	290				
7·2 ,, .	2	30·3	29·9	243	6	27·7	27·1	256									1	18·0	18·0	285				
9·0 ,, .					3	39·5	38·5	242																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	BAHRAICH								BANGALORE															
Time in I. S. T.	0530				1730				0530				1130				1730@				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·2	0·5	333	28	1·3	0·5	281	28	2·5	2·4	092	28	3·6	2·8	094	28	2·7	2·5	088	28	3·5	3·2	099
0·15 a. g.	25	5·8	2·2	317	28	3·5	1·5	297	23	7·6	6·6	101	28	5·0	4·1	100	28	5·4	4·8	086	25	8·8	8·3	109
0·3 a. m. s. l.	25	5.8	2·5	324	28	3.6	1·5	298																
0·6 ,,	25	5·2	2·7	305	28	4·3	1·8	294																
0·9 ,,	25	5·3	2·9	304	28	4·2	2·4	286																
1·5 ,,	25	5·6	3·4	307	28	5·8	3·3	291	22	8·3	6·8	093	28	5·2	4·3	096	28	5·5	5·0	090	25	8·8	7·9	096
2·1 ,,	25	6·8	4·0	298	28	6·9	4·4	299	21	7·1	5·7	078	24	7·3	6·5	079	28	5·9	5·4	085	25	5·9	3·9	071
3·0 ,,	25	8·8	7·0	294	28	8·9	6·4	293	21	6.4	4.5	067	20	8·0	6·3	080	26	5·6	3·1	073	21	7·3	3·9	062
3·6 ,,	23	10·1	9·3	290	25	11·1	9·3	292	20	6.0	3·3	077	19	6·3	3·8	089	25	5·9	1·9	048	19	6·5	2·8	049
4·5 ,,	16	11.0	10.1	278	23	15·2	14·5	292	21	6.3	0·5	038	16	7·1	4·2	079	25	7·0	1·0	030	13	6·1	3·2	001
5·4 ,,	14	14.7	13.6	273	22	19.6	18.8	290	21	7.2	1.3	328	15	6·9	3·9	057	21	6·9	2·4	354	8	4·3	2·2	026
6·0 ,,	7	13.1	12.2	264	21	20.5	19.9	284	21	7.2	3.4	339	15	6.4	4.0	048	19	6·7	3·3	342	6	6·4	4·5	002
7·2 ,,	4	13.9	13.7	281	18	23.9	22.9	281	21	7.1	3.9	293	12	6.0	2.7	019	18	8·2	5·1	320	2	5.5	2.4	303
9·0 ,,	3	16.5	16.3	297	16	32.2	30.9	276	19	11.6	9.7	261	11	8.3	4.9	265	17	10·5	6·5	265				

Station	BAREILLY								BEGAMPET												BHAGALPUR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·6	0·4	049	28	1·4	0·2	277	28	1·6	0·8	124	28	2·4	1·8	086	28	1·7	1·5	110	28	0·9	0·8	236
0·15 a. g.	27	6·5	0·7	340	28	3·9	0·9	290	27	5·4	3·4	130	28	4·3	3·1	083	27	6·1	5·6	115	28	4·1	2·7	285
0·3 a. m. s. l.	27	6·4	0·6	341	28	3·8	0·9	286													28	4·6	2·9	306
0·6 ,,	27	6·0	1·3	305	28	5·0	0·8	281	27	4.0	2.4	122	28	4.0	2.8	084	27	4.5	4.1	113	28	4·3	2·6	302
0·9 ,,	27	5·3	1·8	300	28	5·4	1·3	276	27	6.7	4.7	132	28	4.1	2.8	095	27	6.1	5·2	120	28	4·5	3·3	290
1·5 ,,	27	5·9	2·1	294	28	5·4	2·2	291	26	5·6	2·9	098	28	4·0	2·0	101	27	5·2	2·2	103	27	6·7	5·8	285
2·1 ,,	27	7·7	3·1	287	26	6·1	3·4	301	26	5·9	2·2	028	27	4·1	1·3	060	27	5·6	2·2	356	27	8·6	7·8	282
3·0 ,,	25	7·8	6·6	291	26	8·4	6·2	299	24	6·5	2·8	003	26	6·1	2·4	320	26	7.1	4·0	330	25	12·1	10·6	280
3·6 ,,	16	7·0	5·7	279	25	10·9	9·2	294	24	6·7	2·8	348	24	6·7	3·3	302	21	7·3	5·0	304	20	13·2	11·7	275
4·5 ,,	11	9·9	8·3	278	21	13·4	12·3	290	23	8·7	4·8	321	23	8·7	5·1	297	7	7·8	4·4	289	15	13·9	12·7	266
5·4 ,,	7	10·3	8·7	290	17	15.5	14.3	294	18	10·8	7·9	298	21	10·2	6·2	300	5	8·3	5·8	290	11	19·4	18·5	263
6·0 ,,	4	11·3	10·3	300	15	18.1	16.9	286	16	11·0	9·3	298	20	10·7	8·6	285	3	9·3	5·1	293	6	18·2	17·6	257
7·2 ,,	3	10·5	10·2	308	9	17.7	15.1	292	16	13·7	12·7	292	18	13·5	12·0	274	1	22.0	22·0	335	2	16·0	16·0	250
9·0 ,,	2	12·3	12·1	303	1	8.0	8.0	285	13	19·7	16·1	275	15	18·0	16·7	258								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	BHAGALPUR				BHOPAL/BAIRAGARH												BHUBANESHWAR							
Time in I. S. T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·7	1·3	300	28	1·6	0·5	047	28	2·4	1·1	329	28	2·5	1·1	054	28	6·8	0·3	328	28	3·1	2·1	171
0·15 a. g.	27	3·7	2·8	296	26	5·8	1·4	065	27	3·7	1·4	314	28	7·1	2·2	056	24	3·8	1·8	241	27	4·3	2·7	155
0·3 a. m. s. l.	27	3.9	3·0	296													24	4·0	1·3	221	27	4·4	2·4	200
0·6 „	27	4.4	3.6	292	26	5·0	1·0	065	27	3·5	1·2	323	28	6·6	2·2	055	24	4·2	1·4	206	27	3·9	0·8	158
0·9 „	27	4.9	3·8	288	26	6.4	1·2	318	27	4·1	1·9	308	28	6 4	1·9	007	23	4·4	0·7	110	27	3.4	0·3	308
1·5 „	27	7·3	6·9	283	25	6·1	4·1	281	27	4·9	3·5	291	28	6·0	3·6	291	23	4·4	1·8	326	27	4·7	3.5	229
2.1 „	26	9·7	9·2	285	25	8·8	7·1	272	27	6·5	5·5	278	28	7·1	5·7	274	22	6·0	2·9	309	26	6·2	4·2	312
3·0 „	25	12·5	11·8	289	24	10·4	8·4	280	24	10·3	8·2	276	25	9·7	8·1	277	21	6·4	4·4	290	23	8·1	6·7	299
3·6 „	25	14·7	14·0	284	21	11·7	9·7	275	22	12·9	11·1	284	7	11·6	9·5	284	18	8 1	6·8	279	19	8·5	7·1	290
4·5 „	23	17·2	16·1	277	18	13·8	12·4	280	20	15·3	13·6	287					12	10·7	9·4	266	18	11·3	9·9	281
5·4 „	20	20·4	19·5	275	12	15·1	14·1	276	18	16·1	15·1	282					8	17·6	16·2	259	16	16·7	11·3	279
6·0 „	19	23·2	22·4	273	9	16·6	15·8	273	13	19·5	18·0	281					6	16·7	13·7	243	13	16·7	14·7	265
7·2 „	5	18.5	18.2	272	6	22·8	21·9	281	10	29·1	27·3	278									6	19·4	19·0	264
9·0 „	4	26·5	25·7	270	2	28·7	27·8	307													2	27·0	26·9	256

Station	BHUBANESHWAR				BHUJ/RUDRAMATA												BIKANER							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·9	1 5	207	28	0·8	0·5	250	28	3·7	1·7	003	28	1·4	1·1	252	28	0·3	0·1	105	28	0·5	0·4	314
0·15 a. g.	27	5·6	4·5	183	28	6·2	3·5	343	28	4·1	2·6	359	28	5·2	1·3	333	28	7·6	3·9	084	28	3·7	2·2	336
0·3 a. m. s. l.	27	5·8	4·4	183	28	7·4	4·4	360	28	4·6	2·5	356	28	5·6	2·2	359	28	5·6	2·5	084	28	3·5	2·0	334
0·6 „	27	5·5	3·1	190	28	8·1	4·8	007	28	4·5	2·1	360	28	6·5	3·2	004	28	6·1	3·9	060	28	4·0	2·2	335
0·9 „	27	4·4	0·8	235	28	6·5	3·5	010	28	4·9	2·6	360	28	6·6	3·0	010	28	5·5	3·0	050	28	4·1	2·0	330
1·5 „	26	4·9	2·9	334	28	5·7	2·7	315	28	4·6	2·5	325	28	6·8	2·2	358	28	5·3	3·1	323	28	4·6	2·1	311
2·1 „	24	5·7	3·5	809	25	5·6	3·5	316	28	6·5	3·9	295	27	6·1	2·6	309	27	6 4	4·2	308	28	5·0	3·4	285
3·0 „	20	6·5	4·8	302	25	8·6	6·2	301	28	8·4	6·5	289	27	6·8	4·9	287	26	9·6	6·8	296	28	8·7	6·7	287
3·6 „	3	9·0	8·8	276	1	4·0	4·0	285	28	10·5	8·3	289	7	9.4	5.4	315	22	11.9	8.3	296	27	11·5	9·9	281
4·5 „					1	8·0	8·0	285	26	13.1	10.8	282	1	10.0	10.0	270	6	13.8	11.2	292	26	14·5	13·0	285
5·4 „									25	17.7	15·2	284									21	18·7	16·9	286
6·0 „									22	18.5	16·6	291									13	20.0	18.1	284
7·2 „									3	27.2	24.3	302												
9·0 „																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

February 1962 (Magha 12–Phalguna 9, 1883 Saka)

Station	BIKANER				BOMBAY/SANTA CRUZ AERODROME																CALCUTTA/DUMDUM			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	0·4	0·4	015	28	1·3	1·1	058	28	1·0	0·9	090	28	4·3	4·0	314	28	0·7	0·6	008	27	0·8	0·3	021
0·15 a. g. .	28	8·0	6·3	040	28	5·7	4·8	033	28	2·6	1·7	070	28	7·1	6·6	320	28	5·0	4·5	356	27	5·0	1·8	350
0.3 a. m. s. l.	28	6·4	5·0	037	28	5·7	4·4	035	28	3·0	2·1	085	28	6·0	5·0	321	28	5·7	5·1	353	27	5·1	2·3	351
0·6 ,, .	28	6·7	4·4	040	28	5·7	3·7	042	28	3·6	2·2	091	28	4·2	3·5	316	28	6·0	4·6	355	27	4·9	1·7	321
0·9 ,, .	28	4·8	1·6	040	28	5·7	3·0	056	28	3·9	2·0	085	28	4·1	1·6	329	28	5·4	3·8	358	27	4·9	3·1	317
1·5 ,, .	28	4·6	1.1	255	28	5·1	0.7	121	28	3·6	1·0	198	28	4·1	0·7	099	28	4·8	1·3	033	27	5·7	4·8	310
2·1 ,, .	28	6·3	0·5	270	28	4·5	1·5	199	28	4·1	1·5	222	28	5·2	0·7	147	28	5·0	1·9	128	27	6·8	5·6	292
3·0 ,, .	27	9·9	8·2	285	28	5·8	2·3	254	28	5·9	1·9	286	28	6·1	0·3	276	28	5·7	1·6	165	27	9·4	7·4	286
3·6 ,, .	7	10·6	8·6	272	28	7.3	4·0	297	28	7·5	3·7	300	27	6·6	2·6	301	21	6·3	2·1	286	27	11·1	9·8	279
4·5 ,, .					28	11·1	8·3	300	28	9·1	6.0	297	27	9·5	6·1	307	8	10·0	8·4	309	27	15·3	14·2	273
5·4 ,, .					26	14·2	12·0	300	28	12.7	10.5	292	26	14·6	12·0	300	2	13·0	13·0	292	27	18·2	17·2	270
6·0 ,, .					26	15·2	13·5	297	28	14.3	12.6	287	26	14·2	12·8	297	2	16·5	16·5	295	27	20·4	19·5	267
7·2 ,, .					25	21·6	19·2	294	23	20·6	18·2	287	25	20·8	18.2	295					25	26·8	25·5	264
9·0 ,, .					22	24·8	22·3	286	7	23·6	21·5	280	25	26·2	23·4	284					18	37·1	34·7	261

Station	CALCUTTA/DUM DUM												COCHIN/WILLINGDON											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	0·8	0·2	294	28	0·2	0·2	191	28	0·7	0·2	110	28	0·9	0·6	066	28	3·9	3·6	268	28	0·4	0·3	079
0·15 a. g. .	28	2·5	1·0	324	28	3·0	1·7	272	28	4·7	0·5	328	28	2·5	1·6	061	28	4·8	4·2	270	24	2·0.	0·1	192
0·3 a. m. s. l.	27	2·8	1·0	322	28	3·2	1·7	285	28	4·6	1·1	289	28	2·3	1·4	052	28	4·7	4·1	279	24	2·1	0·2	295
0·6 ,, .	27	3·2	1·1	314	28	3·2	1·9	298	28	3·4	1·4	325	28	2·0	0·5	075	28	3·6	2·8	320	24	2·2	1·0	059
0·9 ,, .	27	4·0	2·0	296	28	3·4	2·1	294	28	3·5	2·2	316	28	2·5	1·4	089	28	3·8	2·6	022	24	3·1	1·8	075
1·5 ,, .	27	6·1	4·4	300	28	4·6	3·5	297	28	5·4	4·2	303	28	4·4	3·4	094	28	5·3	4·8	069	24	4·9	4·2	082
2·1 ,, .	26	7·5	5·9	282	28	6·9	5·9	299	28	6·9	5·9	298	28	5·4	4·8	088	27	6·3	5·9	078	21	6·1	5·3	078
3·0 ,, .	23	9·6	8·5	283	28	9·9	9·1	294	19	8·7	7·7	290	26	4·7	4·2	093	24	5·6	4·8	084	16	6·1	5·5	085
3·6 ,, .	21	12·0	10·9	280	28	12·1	11·1	286	3	7·5	7·3	257	19	4·6	3·3	080	22	4·4	3·5	077	5	5·3	4·9	092
4·5 ,,	21	16·2	14·9	276	28	15·9	14·6	279					5	3·5	1·2	026	16	4·9	3·0	062	2	4·5	4·5	084
5·4 ,, .	19	20·7	18·8	269	28	19·8	18·4	271									12	6·2	2·9	055				
6.0 ,, .	13	21·9	21·0	259	28	22·9	21·6	272									8	6·5	2·2	015				
7.2 ,, .	8	25·6	24·9	259	27	27·0	21·9	274									4	6·9	5·0	261				
9·0 ,,					25	36·6	34·8	259									2	11·0	10·3	232				

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

February 1962 (Magha 12 —Phalguna 9, 1883 Saka)

Station	DARJEELING								DEHRA DUN								DIBRUGARH/MOHANBARI							
Time in I.S.T.	0830				1730				0530				1730				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	CALM			28	0·8	0·7	216	28	0·9	0·5	003	28	1·5	0·8	249	28	0·4	0·4	044	28	0·4	0·4	055
0·15 a. g.	13	1·7	0.8	113	14	3.0	2·8	226	27	2·0	1·0	046	27	2·9	1·0	253	27	3·6	3·2	044	27	1·9	1·5	052
0·3 a. m. s. l.																	27	3·6	3·4	047	27	1·9	1·6	054
0·6 "																	27	2·8	2·7	049	27	2·0	1·6	052
0·9 "									27	2·0	1·0	082	27	2·8	1·2	236	26	2·3	1·8	062	27	1·9	1·2	071
1·5 "									27	2·3	0·1	216	27	2·3	0·4	221	25	2·4	1·1	090	26	2·4	1·1	211
2·1 "									25	3·4	1·0	280	25	3·4	0·9	284	24	3·4	0·7	125	24	3·2	1·9	208
3·0 "	13	3·6	0·7	259	14	4·9	4·6	288	24	4·4	2·4	302	21	5·2	1·7	298	19	3·4	2·0	220	21	3·6	2·4	210
3·6 "	11	5·9	3.5	280	10	10·6	10·1	285	21	5·9	4·2	290	18	5·6	1·8	266	16	4·1	3·0	254	18	4·7	4 0	240
4·5 "	9	7·3	6·1	286	8	15·2	14·7	272	17	7·8	6·2	290	17	9·0	6·5	283	10	10·7	10·5	257	15	15·5	15·2	259
5·4 "	6	10·3	8·5	268	7	21·9	21·2	274	11	13·6	11·9	286	12	9·8	8·7	284	5	17·2	17·0	257	13	18·4	18·0	260
6·0 "	6	12·0	10·8	267	4	25·3	24·7	280	7	15·2	13·4	300	12	13·1	12·0	287	1	13·0	13·0	245	12	20·5	19·7	265
7·2 "	4	9·9	9·3	275	1	36·5	36·5	270	4	14·0	12·3	318	7	24·0	23·5	280					6	21·4	20·8	264
9·0 "	2	14·3	14·3	253	1	69·0	69·0	275	1	13·0	13·0	320									2	26·0	25·5	257

Station	DIBRUGARH/MOHANBARI								GADAG												GAUHATI			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0 4	0 4	048	28	0·6	0·6	040	28	3·2	2·0	125	28	2·6	1·9	090	28	4·4	2·2	097	27	0·3	0·2	087
0 15 a. g.	28	2·9	1 6	023	26	3·4	2·9	035	28	7·6	4·4	118	28	4·1	2·3	089	28	9·1	4·5	089	27	2·1	0·9	073
0·3 a. m.s. l.	28	2·9	1·6	027	26	3·4	2·9	027													27	2·4	1·2	075
0·6 "	28	2·3	1·3	061	26	3·1	2·2	062													27	3·5	0·8	074
0·9 "	28	2·1	1·1	099	26	2·5	1·9	069	28	8·5	5·2	099	28	4·4	2·7	092	28	9·3	5·1	090	27	4·1	0·9	081
1·5 "	27	2·8	1·7	212	24	2·1	0 4	142	28	6·9	4·6	075	28	4·7	3·3	088	28	7·2	5·0	086	27	4·4	0·7	309
2·1 "	25	4·3	3 5	223	23	3·1	1·0	215	28	5·5	2·9	052	28	4·7	2·3	077	28	5·5	4·1	084	27	4·7	2·1	258
3·0 "	23	6 7	4·9	223	16	5·7	3·9	223	28	5·6	1.9	066	27	5·1	2·5	064	27	6·4	4·1	055	27	8·2	7·2	265
3·6 "	19	6·1	5 0	228	6	5·7	4·5	242	28	6.7	0.5	112	27	5·8	1·8	033	25	6·9	3·2	039	27	12·9	12·1	275
4·5 "	17	9·4	7·5	245					28	8·0	2.7	323	25	7·1	2·3	352	20	7·0	3·0	278	27	17·7	17·0	273
5·4 "	13	13·5	12·9	256					27	8.2	5.9	316	23	8·4	3·7	322	17	8·8	6·2	290	27	22·7	22·1	270
6·0 "	9	16·9	16·3	257					26	9·6	7.4	309	23	10·0	6·7	323	11	11·3	8·0	293	25	23·3	22·3	272
7·2 "	6	25.7	25.2	269					24	12.1	9.7	296	22	12·0	8·4	297	3	16·0	11·1	285	25	28·0	26·6	268
9·0 "	2	34·0	33·0	267					19	13·5	11·5	260	16	15·6	12·1	265					14	38.0	36.3	259

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	GAUHATI												GAYA											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·8	0·8	065	28	0·7	0·1	158	28	0·9	0·2	185	28	1·3	0·6	170	28	2·4	1·6	351	28	1·1	0·2	165
0·15 a. g.	28	2·4	1·6	044	28	2·9	0·3	019	28	2·3	0·8	176	26	4·4	1·3	230	28	4·5	3·3	345	27	5·4	2·3	182
0·3 a. m. s. l.	28	2·6	1·6	048	28	2·9	0·3	356	28	2·5	0·4	133	26	4·4	1·0	241	28	4·3	3·1	345	27	5·5	2·5	182
0·6 ,,	28	3·3	1·8	065	28	3·1	0·6	270	28	3·3	0·2	241	26	4·1	2·0	318	28	4·0	2·7	328	27	5·1	2·6	330
0·9 ,,	28	3·8	0·9	073	28	3·0	1·2	259	28	3·5	1·3	275	26	5·1	3·9	298	28	4·2	2·8	305	27	5·0	3·4	297
1·5 ,,	26	4·6	1·8	223	28	3·9	3·1	256	27	3·1	2·4	263	26	7·4	6·2	281	28	6·6	5·0	272	27	7·5	6·1	280
2·1 ,,	25	5·5	3·6	240	28	6·1	5·4	254	26	4·8	3·8	260	25	9·2	8·4	280	27	9·5	8·6	278	25	8·5	7·5	271
3·0 ,,	25	9·2	7·7	263	28	7·9	7·2	263	22	7·6	5·4	266	19	10·5	9·8	287	27	11·5	10·6	282	19	9·5	8·6	279
3·6 ,,	24	12·4	10·6	267	28	11·0	10·4	268	8	9·2	7·9	265	14	10·6	9·9	280	22	13·0	12·1	283	5	13·4	11·6	288
4·5 ,,	22	16·8	14·7	267	28	16·4	16·0	270	4	9·5	9·3	268	6	12·2	12·1	278	16	15·7	14·4	274				
5·4 ,,	19	19·5	17·9	270	28	19·8	18·9	270	2	18·0	17·8	266	2	14·3	13·9	260	11	15·9	15·1	270				
6·0 ,,	17	22·4	20·2	269	28	21·6	20·7	271	1	11·5	11·5	245	1	24·0	24·0	250	8	16·8	15·5	272				
7·2 ,,	13	31·2	26·9	272	27	28·1	27·2	270									2	16·7	16·7	246				
9·0 ,,	9	32·5	31·4	263	19	37·3	36·6	269									1	7·0	7·0	250				

Station	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·5	1·4	304	28	4·0	3·2	145	28	2·3	1.3	193	28	1·0	0·4	281	28	1·4	0·8	302	28	0·8	0·3	108
0·15 a. g.	26	4·6	1·8	279	28	5·0	3·9	139	28	4·1	2·9	185	27	5·4	2·4	305	28	4·2	2·2	301	28	4·4	0·9	069
0·3 a. m. s. l.	26	4·1	1·2	332	28	5·5	3·4	147	28	4·1	3·0	182	27	5·7	2·6	304	28	4·5	2·5	294	28	3·5	0·4	069
0·6 ,,	26	3·8	0·9	191	28	4·5	2·3	123	28	3·9	2·2	162	27	5·6	2·8	290	28	4·5	2·7	289	28	5·3	1·2	082
0·9 ,,	25	3·3	0·6	078	28	3·7	0·9	019	27	3·6	1·0	075	27	5·4	2·9	286	28	4·4	2·7	284	28	5·3	0·7	017
1·5 ,,	25	4·6	1·9	004	27	4·9	3·5	343	26	4·5	3·3	345	27	6·8	4·5	290	28	5·6	5·0	283	28	5·7	2·8	306
2·1 ,,	24	4·9	2·5	328	27	5·9	4·6	324	25	5·5	3·6	318	27	7·9	6·1	294	28	7·8	7·0	281	27	7·4	6·4	292
3·0 ,,	24	6·4	4·3	284	27	7·4	5·5	300	22	5·9	4·0	297	25	10·7	9·6	288	27	10·5	9·2	282	26	9·9	8·7	288
3·6 ,,	21	7·6	5·8	278	25	8·1	6·5	294	6	7·3	6·8	210	17	8·7	8·1	276	27	12·9	11·3	282	22	12·1	10·6	289
4.5 ,,	18	10·3	8·2	271	24	9·9	8·1	278	3	9·7	9·6	200	11	10·2	10·1	276	23	14·2	13·3	284	18	14·7	13·3	283
5·4 ,,	15	13·4	12·6	190	24	13·1	11·6	268	2	16·0	15·9	198	8	13·1	12·5	270	20	15·6	14·7	284	17	18·9	16·9	284
6·0 ,,	11	14·4	13·0	194	23	15·8	14·3	273					3	9·7	9·2	254	17	17·6	16·7	276	15	22·0	20·4	278
7·2 ,,	7	19·4	18·9	195	16	20·3	19·1	273					2	15·7	15·3	286	11	17·3	16·1	276	10	25·4	22·9	278
9·0 ,,	1	19·5	19·5	205	8	24·0	22·8	255					1	14·0	14·0	260	4	16·3	16·2	289	4	18·2	17·5	282

6—566 D.D.G.Obs.P./65.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level.

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	GWALIOR												IMPHAL/TULIHAL											
Time in I.L.T.	1130				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·2	0·8	025	28	1·3	0·9	357	28	0·3	0·0	339	28	0·2	0·1	044	28	1·1	0·4	261	28	2·8	2·0	290
0·15 a. g.	28	3·2	0·8	005	27	3·8	1·9	008	28	5·4	2·7	080	28	2·0	1·0	097	27	1·8	0·7	219	28	5·0	4·2	289
0·3 a. m. s. l.	28	3·1	0·9	017	27	3·7	2·0	005	28	4·3	2·1	085												
0·6 „	28	3·7	0·3	338	27	3·9	1·6	004	28	5·3	1·0	068												
0·9 „	28	4·2	0·9	017	27	4·1	1·5	312	28	4·9	1·3	277	28	2·0	1·3	096	27	1·8	0·7	223	28	4·6	3·7	289
1·5 „	28	5·4	3·1	285	27	5·7	3·8	288	28	5·9	4·8	268	28	2·9	1·9	286	26	2·9	2·3	242	28	4·3	3·9	273
2·1 „	26	7·4	5·7	276	27	7·2	5·9	285	27	7·4	6·4	286	25	5·5	4·5	265	26	6·1	5·3	250	28	5·2	4·8	251
3·0 „	25	9·5	8·9	282	27	10·5	9·3	278	25	9·4	8·7	286	20	8·7	7·8	263	22	9·9	8·5	261	23	10·2	9·3	255
3·6 „	23	11·9	10·8	283	26	12·9	11·5	282	12	12·4	11·4	292	11	12·5	10·4	261	18	13·6	12·5	265	20	13·3	12·6	267
4·5 „	21	15·6	14·1	279	23	17·3	15·5	281	1	8·0	8·0	295	5	13·5	12·4	253	2	17·5	17·0	247	15	18·0	17·2	272
5·4 „	19	20·0	18·7	277	22	19·3	17·3	279									1	10·5	10·5	245	3	29·3	29·3	282
6·0 „	16	22·8	21·3	271	21	22·0	21·4	280													2	29·0	28·9	277
7·2 „	10	27·0	26·3	274	12	24·5	21·2	260																
9·0 „	2	32·0	30·3	268	4	28·6	25·5	286																

Station	IMPHAL/TULIHAL				JABALPUR												JAGDALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·3	0·3	357	28	0·4	0·3	111	28	1·5	0·7	313	28	0·6	0·4	064	28	0·1	0·1	265	28	1·6	0·3	294
0·15 a.g.	28	2·4	0·6	293	28	4·2	1·6	122	28	3·9	1·8	316	27	5·9	2·9	048	27	3·0	1·0	182	28	3·7	0·5	323
0·3 a. m. s. l.																								
0·6 „					28	5·0	1·9	125	28	4·1	2·0	318	27	6·3	3·3	037	27	1·4	0·4	175	28	2·8	0·5	326
0·9 „	28	2·4	0·6	306	28	6·2	1·2	151	28	4·4	2·3	306	27	5·5	2·4	019	27	3·7	1·0	199	28	3·6	0·6	326
1·5 „	28	3·5	2·9	256	28	6·4	3·7	275	28	5·7	3·9	280	27	5·3	3·1	286	27	4·0	1·6	340	28	3·2	1·4	326
2·1 „	26	6·9	6·0	247	25	7·5	2·1	283	27	7·4	5·7	271	26	7·9	7·1	273	27	5·3	2·6	337	27	3·4	2·2	325
2·0 „	15	11·1	10·3	265	23	10·3	9·4	285	26	10·3	8·3	273	25	10·2	8·7	275	27	7·0	4·8	311	23	5·2	3·0	309
2·6 „	11	13·4	12·3	268	17	10·6	9·7	292	24	12·6	10·9	285	13	10·4	9·6	282	26	7·8	5·8	301	22	6·6	4·7	305
2·5 „	2	15·0	14·5	240	9	11·1	10·3	289	23	14·7	13·8	288					21	9·0	6·6	283	18	8·2	6·5	288
3.4 „					3	14·0	14·0	264	20	16·9	15·8	285					16	10·5	9·1	266	17	11·4	10·0	273
6·0 „					2	12·0	12·0	268	16	19·9	18·1	285					13	11·2	10·2	255	14	22·6	11·3	273
7·2 „									7	19·7	18·9	277									3	22·2	21·6	276
9·0 „																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	JAGDALPUR				JAIPUR/SANGANER												JAMSHEDPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·1	0·1	161	28	2·0	1·8	033	28	2·6	0·6	291	28	3·1	2·4	031	28	0·8	0·5	296	28	1·6	0·6	018
0·15 a. g.	28	4·9	1·5	093	28	5·6	3·3	060	28	3·9	1·4	315	28	7·1	3·8	063	26	3·0	2·3	302	28	2·6	0·9	009
0·3 a. m. s. l.																	26	3·0	1·9	314	28	2·7	0·7	001
0·6 ,,	28	2·7	0·7	094	28	6·1	2·6	065	28	3·7	1·5	307	28	7·1	3·6	062	26	3·5	0·8	001	28	2·8	0·9	315
0·9 ,,	28	5·2	1·6	080	28	5·5	1·2	035	28	4·0	1·5	300	28	5·8	1·8	047	26	3·6	1·3	309	28	3·0	1·5	285
1·5 ,,	28	3·6	1·2	347	28	5·6	3·6	293	28	5·1	3·1	289	28	4·7	3·0	282	26	4·9	3·8	286	28	4·5	3·3	281
2·1 ,,	28	3·8	1·4	238	26	7·9	6·2	297	27	6·2	4·0	294	28	6·9	5·4	284	26	7·4	6·0	295	26	6·3	5·4	286
3·0 ,,	27	6·2	4·5	308	23	9·8	7·9	300	27	9·9	8·3	291	24	11·1	8·2	285	23	8·9	7·9	288	24	10.5	9·8	290
3·6 ,,	9	8·5	6·8	305	11	11·6	10·5	301	26	13·4	10·9	287	18	17·8	8·6	279	19	10·0	8·8	277	21	13·0	12·0	283
4·5 ,,									25	17·3	15·5	282	1	15·0	15·0	305	12	13·7	10·9	259	19	17·1	15·9	282
5·4 ,,									20	19·0	17·0	277					5	20·2	19·4	252	14	20·8	19·1	273
6·0 ,,									13	20·7	12·0	288					1	20·5	20·5	235	9	22·3	21·5	267
7·2 ,,									4	24·4	23·2	285									1	20·0	20·0	230
9·0 ,,																								

Station	JHARSUGUDA												JODHPUR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·5	1·3	024	28	1·1	0·4	265	28	1·5	0·8	015	28	2·6	1·9	035	28	2·5	1·2	067	28	3·1	0·8	330
0·15 a. g.	28	4·4	3·9	043	28	2·8	0·7	241	28	4·8	1·2	050	28	7·1	4·0	038	28	3·3	1·2	069	28	5·6	2·5	349
0·3 a. m. s. l.	28	4·0	3·5	045	28	2·9	1·1	248	28	4·1	1.5	048	28	5·7	3·5	040	28	3·3	1·3	059	28	4·4	2·2	353
0·6 ,,	28	4·3	1·6	087	28	2·9	1·1	247	28	4.9	0·6	324	28	5·9	3·3	013	28	4·1	1·1	083	28	4·7	1·6	342
0·9 ,,	27	4·3	0·5	005	28	2·8	1·4	252	28	[illegible]	1·5	274	28	5·5	3·2	351	28	4·7	1·1	027	28	4·8	1·5	315
1·5 ,,	27	5·1	3·4	293	28	4·0	2·6	282	28	4·2	2·0	285	28	5·9	2·9	328	28	6·0	2·5	324	28	5·1	2·0	278
2·1 ,,	27	7·8	5·3	298	28	6·3	4·2	300	28	6·1	4·0	300	28	7·5	5·7	300	28	7·3	4·0	300	28	5·9	2·8	295
3·0 ,,	23	9·2	7·8	298	25	8·5	7·3	301	19	9·1	7·3	291	28	9·0	7·7	290	27	10·9	6·6	298	28	9·1	6·2	289
3·6 ,,	16	10·5	9·2	285	24	10·5	9·4	289	10	8·9	7·7	273	27	12·0	8·7	292	27	13·5	8·6	293	28	10·8	8·3	279
4·5 ,,	8	13·3	12·3	259	18	13·8	11·8	283	1	15·5	15·5	305	26	14·3	13·0	279	25	15·9	13·6	287	28	13·3	10·5	276
5·4 ,,	1	15·0	15·0	250	9	19·0	17.9	268					25	17·2	15·8	274	19	18·2	15·8	280	28	16·7	14·1	276
6·0 ,,	1	16·0	16·0	255	4	21·7	20·5	269					25	17·3	15·6	272	16	19·8	18·2	278	28	17·8	15·5	275
7·2 ,,					2	29·0	27·0	269					25	23·0	21·7	275	6	17.3	15·2	309	28	24·5	22·6	280
9·0 ,,													19	30·0	26·4	276	2	35.0	28·9	300	19	33·3	30·0	283

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	JODHPUR				LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·5	1·7	026	28	2·2	0·3	012	28	2·7	1.0	332	28	2·1	0·5	360	28	1·3	1·2	050	28	4·1	3·3	069
0·15 a. g.	28	8·2	4·8	037	28	5·9	1·5	010	28	3·9	1·7	330	28	6·1	1·0	347	28	4·8	3·7	070	28	4·4	3·6	071
0·3 a. m. s. l.	28	6·5	4·0	029	28	6·0	1·5	007	28	3·9	1·6	330	28	5·9	0·7	360	28	4·9	3·7	077	28	4 3	3.4	072
0·6 ,,	28	7·5	4·0	036	28	5·2	1·3	391	28	4·1	1·6	312	28	5·1	1·3	298	28	5·3	4·0	085	28	4·7	3·8	065
0·9 ,,	28	5·9	2·4	028	28	5·3	2·5	280	27	4·5	2·3	295	28	5·1	2·2	291	27	5·7	4·7	090	26	5·4	4·2	068
1·5 ,,	28	4·8	1·3	264	28	5·6	4·0	283	27	5·5	4·1	287	28	5·5	3·7	283	27	6·7	5·7	081	23	6·2	5·2	068
2·1 ,,	26	6·5	3·8	286	26	7·3	5·8	289	28	6·7	5·5	287	26	6·3	4·7	282	27	6·9	5·8	070	17	7·3	5·9	068
3·0 ,,	25	9·7	6·7	293	22	9·3	8·0	284	25	10·0	8·9	286	23	9·6	8·1	281	27	6·7	3·2	053	13	6·6	4·2	067
3·6 ,,	12	12·0	9·3	295	13	10·7	10·1	281	24	12·4	10·9	285	8	12·7	11·1	282	27	6·1	2·1	037	11	5·8	0·7	012
4·5 ,,	6	17·7	14·4	296	3	14·5	13·7	273	21	16·1	15·0	286	2	13·0	12·9	278	26	6·2	1·3	342	11	6·9	1·1	345
5·4 ,,	3	20·0	19·2	277					18	18·5	17·6	282					26	7·8	2.3	320	10	5·9	1·6	244
6·0 ,,	2	16·7	14·9	271					13	17·0	15·9	281					26	7·6	2.7	326	10	6·9	1·6	248
7·2 ,,									8	18·2	16 7	288					22	8·6	4·8	308	9	7·8	3·0	307
9·0 ,,									3	18·2	16·7	283					26	12·2	9·6	263	5	12·2	8·2	256

Station	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	4·7	3·8	071	28	2·4	1.9	079	28	1·5	1·3	088	28	4·1	3·5	283	28	0·9	0·3	018	28	1·3	0·8	088
0·15 a. g.	28	6·7	5·8	077	28	5·7	4.7	081	28	5·2	3·7	082	28	5·0	4·5	277	28	3·5	2·6	341	28	3·4	2·2	009
0·3 a. m. s. l.	28	6·4	5·5	077	28	5·9	4·9	082	28	5·6	4·0	082	28	5·3	4·7	281	28	3·7	2·9	339	28	3·5	2·3	025
0·6 ,,	28	6·1	5·0	077	28	6·4	5·4	079	28	5·8	3·7	080	28	4·2	2·6	299	28	3·8	2·9	333	28	4·0	2·7	050
0·9 ,,	28	6·2	5·1	077	28	6·5	5·8	077	28	5·8	4·2	081	[illegible]	3.2	1·2	022	28	4·2	2·4	355	28	5·3	4·7	085
1·5 ,,	28	5·9	4·7	063	28	6·5	5·7	064	28	6·0	3·9	086	27	5·1	4·4	075	27	5·7	3·9	074	28	7·4	7·0	084
2·1 ,,	28	5·5	4·6	060	25	6·3	4·8	054	28	5·8	4·4	086	27	7·5	7·3	078	25	7·9	7·5	084	27	7·1	6·8	090
3·0 ,,	27	6·0	3·0	042	23	7·0	4·2	037	27	5·4	4·0	092	26	6·9	5·8	079	25	7·8	6·8	088	24	5·4	3·6	096
3·6 ,,	27	6·5	1·7	017	18	6·6	2·4	043	24	5·7	2·5	080	26	5·5	3·4	074	20	5·4	2·9	081	24	5·5	3·0	087
4·5 ,,	27	6·9	2·1	338	15	6·1	1·5	345	21	6·4	2·2	038	26	6·0	2·0	058	12	3·7	1·8	297	23	5·6	3·3	070
5·4 ,,	27	5·7	2·3	298	11	7·0	2·8	323	17	7·8	5·2	359	26	6·8	3·1	012	4	5·0	4·8	308	20	6·1	4·7	071
6·0 ,,	27	6·7	2·8	299	9	9·1	5·7	289	17	8·5	6·5	349	26	8·0	3·8	354	1	7·5	7·5	300	18	7·1	4·9	049
7·2 ,,	27	9·0	5·0	297	1	7·0	7·0	230	14	9·8	7·2	307	20	9·7	6·3	318					14	7·5	2·7	029
9·0 ,,	25	12·8	10·6	266					10	12·3	10·2	271	14	12·8	10·0	273					5	4·8	1·7	106

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	MINICOY								NAGPUR/SONEGAON															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	28	1·7	1·4	010	28	1·4	1·1	019	28	0·9	0·7	015	28	1·3	0·1	127	28	1·5	0·3	315	28	1·6	1·1	010
0·15 a. g.	28	4·8	3·9	017	28	3·4	2·6	020	28	5·3	3·1	059	28	3·1	0·7	193	28	3·7	0·5	313	28	6·0	2·9	069
0·3 a. m. s. l.	28	4·6	3·8	023	28	3·3	2·7	025																
0·6 ,,	28	4·8	4·1	028	28	3·9	3·0	041	28	5·7	2·9	073	28	3·7	1·1	153	28	3·6	0·6	219	28	5·9	2·6	093
0·9 ,,	28	5·2	4·3	043	28	5·0	4·2	072	28	6·2	2·2	108	28	4·1	1·5	177	28	3·1	0·6	194	28	4·5	1·4	115
1·5 ,,	28	6·5	5·8	082	28	7·4	6·9	085	28	4·9	1·1	243	28	4·3	1·7	220	28	3·7	1·5	266	28	3·7	1·0	261
2·1 ,,	26	6·1	5·0	082	28	6·9	6·4	087	28	6·1	3·0	271	26	5·2	3·3	283	28	5·1	3·8	278	27	4·9	3·4	283
3·0 ,,	24	5·4	3·7	080	22	6·6	5·5	087	28	9·1	7·4	286	26	9·1	7·4	291	28	7·0	6·0	289	27	8·2	6·6	290
3·6 ,,	20	6·0	5·3	077	8	3·4	2·0	077	28	11·3	8·6	290	27	10·4	8·7	293	28	9·4	8·0	291	14	8·8	7·5	298
4·5 ,,	15	6·7	5·0	079					28	12·9	10·9	288	27	12·4	10·8	288	28	12·1	9·8	286	4	11·1	10·8	275
5·4 ,,	12	6·6	4·3	047					28	15·3	14·5	287	26	16·5	14·8	281	28	15·7	13·9	278	1	14·5	14·5	265
6·0 ,,	10	6·3	4·1	061					28	18·5	17·3	277	25	18·8	17·2	281	28	17·9	16·6	275				
7·2 ,,	5	6·6	2·5	084					28	24·4	22·2	277	18	21·9	20·5	277	28	22·0	20·7	277				
9·0 ,,	1	10·5	10·5	090					27	33·2	30·6	273	8	30·4	29·1	273	28	30·9	28·4	275				

Station	NEW DELHI/SAFDARJUNG																POONA							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	28	1·7	0·5	054	28	3·7	0·9	341	28	1·5	0·4	344	28	1·7	0·6	003	28	0·1	0·1	135	28	0·6	0·3	275
0·15 a. g.	28	6.0	1·5	034	28	5·2	0·8	332	28	5·8	1·3	350	28	6·3	2·0	038	28	3·5	1·5	088	28	3·3	1·2	303
0·3 a. m. s. l.	28	4.6	1·3	028	28	5·1	0·9	326	28	4·5	1·5	332	28	5·1	1·5	034								
0·6 ,,	28	5·8	1·1	021	28	5·0	0·5	280	28	5·0	1·4	331	28	6·3	1·5	336	28	1·5	0·7	183	28	2·4	0·8	319
0·9 ,,	28	5·1	1·6	332	28	5·8	1·5	296	28	5·1	1·8	308	28	5·6	1·9	319	28	4·6	2·0	071	28	3·5	1·0	305
1·5 ,,	28	4·8	2·3	330	28	5·9	0·9	271	28	4·7	2·0	292	28	5·9	3·3	288	28	6·4	2·3	102	28	3·4	0·9	275
2·1 ,,	28	6·0	4·0	293	27	5·8	2·3	272	28	5·7	3·1	283	27	5·6	4·2	284	28	5·6	1·9	148	28	3·5	0·9	251
3·0 ,,	28	7·5	6·2	283	24	7·2	5·5	286	28	8·2	5·5	284	24	5.6	4·7	282	28	5·4	1·0	252	27	4·7	0·6	302
3.6 ,,	27	9·4	7·8	279	21	8·7	7·0	282	28	10·4	7·5	284	5	6·5	5·1	290	22	6·6	3·5	288	25	6·3	2·4	316
4·5 ,,	27	11·8	8·9	281	19	12·0	10·3	281	28	12·6	10·4	277	1	15·5	15·5	255	6	8·4	5·5	275	25	9·5	6·2	301
5·4 ,,	27	15·6	14·8	283	17	16·1	13·5	277	27	15·9	14·4	285									25	12·2	10·3	289
6·0 ,,	27	17·5	15·7	282	15	17·6	15·9	278	27	17·9	16·0	283									24	13·8	11·6	284
7·2 ,,	27	21·8	20·0	274	5	16·5	15·2	264	26	23·1	20·6	282									15	18·1	16·6	285
9·0 ,,	24	28·8	26·6	275	1	16.5	16·5	270	19	27·1	25·3	278									9	23·7	20·9	287

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	POONA				PORT BLAIR																RAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	0·2	0·1	315	28	2·0	1·7	074	28	3·9	3·5	069	28	2·8	2·6	069	28	3·2	2·8	070	28	0·8	0·5	028
0·15 a. g. .	28	3·5	2·4	486	28	6·3	1·9	058	28	7·3	6·8	072	28	6·5	6·0	066	28	5·8	5·3	063	28	4·5	2·5	056
0·3 a. m. s. l. .					28	6·3	5·8	066	28	7·6	7·0	072	28	6·6	6·1	066	28	5·7	5·3	063				
0·6 „ .	28	1·8	1·2	247	28	6·9	6·1	072	28	7·7	6·6	075	28	6·8	6·1	067	28	5·6	5·2	070	28	5·4	2·3	081
0·9 „ .	28	4·7	2·8	312	28	7·9	7·1	080	28	7·8	6·5	076	28	7·1	6·2	073	27	5·6	5·4	077	28	4·5	1·1	092
1·5 „ .	28	6·0	0·8	353	28	8·3	7·5	091	25	7·0	5·9	083	28	7·3	6·4	078	21	5·7	1·1	253	28	4·3	2·0	284
2·1 „ .	28	6·0	2·4	126	28	8·0	6·4	089	19	4·7	3·8	086	28	6·8	4·7	080	17	5·3	2·5	081	26	5·7	3·5	294
3·0 „ .	27	5·5	2·3	127	28	6·4	2·9	112	16	5·3	1·5	118	28	5·9	2·4	089	11	4·1	2·0	257	23	7·9	6·6	296
3·6 „ .	23	6·1	0·2	222	26	6·0	2·1	127	15	6·3	0·5	101	28	6·1	1·7	097	2	6·7	3·9	316	20	9·3	7·8	292
4·5 „ .	13	6·9	4·7	279	26	7·6	2·6	153	14	6·3	0·4	212	28	6·9	2·0	113					8	11·9	10·2	306
5·4 „ .	5	7·6	6·9	273	25	7·9	1·8	169	13	8·1	1·2	266	28	7·4	2·3	134					3	14·2	13·1	298
6·0 „ .	4	8·5	8·1	283	24	8·0	2·1	211	12	7·7	2·4	285	27	7·5	1·8	118								
7·2 „ .	1	11·0	11·0	255	25	8·3	1·5	281	6	6·3	2·5	249	27	8·1	2·1	227								
9·0 „ .	1	21·0	21·0	240	20	9·6	6·0	254	1	12·5	12·5	240	25	9·1	4·5	256								

Station	RAIPUR								RAXAUL								SILIGURI/BAGHDOGRA							
Time in I. S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	28	1·2	0·4	331	28	1·6	0·5	129	28	0·3	0·1	049	28	0·9	0·5	246	28	1·0	0·8	026	28	2·1	1·4	248
0·15 a. g. .	28	2·8	1·2	303	26	5·1	1·5	144	27	3·5	1·4	347	28	4·4	2·5	258	27	3·2	2·7	047	28	3·8	2·7	243
0·3 a. m. s. l. .									27	3·8	1·5	334	28	4·4	2·6	260	27	3·2	2·7	064	28	3·7	2·7	243
0·6 „ .	28	3·2	1·4	305	26	4·9	1·2	122	27	4·2	1·2	288	28	4·6	2·5	265	27	3·0	2·2	070	28	3·5	2·7	243
0·9 „ .	28	3.1	1·4	296	26	4·3	0·5	194	27	4·2	1·0	272	27	4·1	2·5	275	27	2·5	1·2	080	28	3·3	2·7	240
1·5 „ .	28	3·4	1·9	272	26	4·0	1·6	287	27	4·5	1·4	282	27	5·0	2·5	294	27	2·5	0·3	341	27	3·5	2·3	247
2·1 „ .	28	4·9	3·2	291	26	4·8	3·4	298	25	6·7	4·5	283	26	6·9	5·1	296	26	3·5	1·0	277	26	4 5	2·5	280
3·0 „ .	27	8·4	6·6	298	26	8·1	6·6	252	22	8·4	7·1	287	23	8·8	7·9	281	22	6·3	5·5	281	22	8·5	6·9	288
3·6 „ .	24	10·0	8·9	295	8	10·6	8·4	300	18	8·1	7·3	284	20	11·5	10·3	277	19	9·7	8·9	279	17	10·7	9·6	281
4·5 „ .	21	13·6	11·6	292					11	9·3	9·1	278	14	11·7	11·0	278	16	14·6	14·3	279	16	15·8	13·9	276
5·4 „ .	18	15·1	12·7	290					5	9·5	8·9	268	9	12·0	11·7	279	11	14·5	13·0	277	11	18·6	18·0	275
6·0 „ .	15	16·7	14·0	283					5	12·3	11·6	260	7	16·5	16·1	278	7	14·1	12·4	273	9	18·7	17·3	284
7·2 „ .	7	19·6	18·7	275					1	8·0	8·0	315	3	8·0	7·6	295	4	11·6	11·4	265	6	19·2	18·3	281
9·0 „ .													2	13·5	13·0	278	2	17·7	17·6	260	2	13·7	13·7	284

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	SILIGURI/ BAGHDOGRA				TIRUCHIRAPPALLI												TRIVANDRUM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·2	0·8	023	28	2·6	2·2	029	28	4·8	4·6	085	28	3·5	3·0	073	28	0·8	0·6	010	28	1·2	0·4	299
0·15 a. g.	27	3·1	1·4	021	28	6·1	5·7	034	28	6·9	6·6	075	28	8·1	7·6	069	28	2·6	1·7	030	28	2·0	0·3	307
0·3 a. m. s. l.	27	3·1	0·9	006	28	6·5	6·0	041	28	7·2	6·9	076	28	8·7	8·1	069	28	2·6	1·7	031	28	2·1	0·5	296
0·6 ,,	27	3·3	1·8	280	28	7·3	6·2	062	28	7·7	7·3	074	28	9·4	8·7	072	28	2·4	0·3	125	28	2·2	0·7	051
0·9 ,,	27	2·7	1·7	270	28	7·1	6·2	071	27	7·1	6·8	072	28	9·0	8·4	073	28	3·0	1·8	068	28	2·7	2·0	051
1·5 ,,	27	3·0	1·7	265	28	6·6	6·0	075	27	6·6	6·1	055	27	7·8	7·1	063	28	4·3	3·7	081	25	5·1	4·5	072
2·1 ,,	23	3·7	0·6	257	27	6·5	6·0	079	27	6·4	5·8	056	27	7·1	6·4	064	28	5·5	4·9	087	24	5·9	5·5	087
3·0 ,,	21	6·1	4·3	285	25	6·1	5·0	077	26	6·8	4·5	059	26	6·5	5·1	073	28	5·1	4·1	087	20	6·3	5·4	086
3·6 ,,	7	10·4	8·8	284	22	5·3	3·5	090	24	5·5	1·4	055	22	5·3	2·4	069	28	4·5	3·1	088	16	6·4	5·8	081
4·5 ,,	1	12·5	12·5	305	20	5·9	1·1	116	23	6·0	1·9	045	16	6·0	2·0	054	28	5·2	2·4	092	15	7·5	6·5	083
5·4 ,,					18	6·1	0·4	233	22	6·8	1·4	024	9	5.4	0.8	320	28	6·3	2·9	067	14	8·0	5·4	073
6·0 ,,					16	5·6	2·1	036	21	6·8	3·0	038	7	5.4	1.8	328	28	6·8	3·6	060	12	8·2	6·5	085
7·2 ,,					15	7·1	3·4	003	17	7·3	2·5	336	2	5.3	3.9	323	27	8·5	4·9	060	10	8·1	5·3	092
9·0 ,,					10	7·3	3·8	271	14	10·6	6·3	257					24	7.0	2·8	270	9	5·3	1·0	165

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·3	1·7	250	28	1·3	0·9	354	28	0·1	0·1	339	28	1·5	0·9	253	28	0·5	0·4	247	28	0·2	0·2	360
0·15 a. g.	28	4·1	3·3	255	28	3·4	2·2	323	28	2·9	2·0	359	28	3·7	1·4	287	28	4·4	1·7	344	28	3·9	2·5	036
0·3 a. m. s. l.	28	4.0	3.0	255	28	3·4	2·0	315													28	5·3	3·2	032
0·6 ,,	28	3.3	0.6	273	28	3·6	2·2	354													28	6·7	3·3	046
0·9 ,,	28	4·2	2·6	041	28	4·6	3·7	048	28	4·1	1·9	020	28	4·0	1·7	287	28	5·1	1·9	346	28	7·1	2·6	068
1·5 ,,	28	7·2	6·6	057	26	6·4	6·1	066	28	5·7	2·5	316	28	3·9	1·7	292	28	5·1	1·5	286	28	5·5	2·2	089
2.1 ,,	28	7·1	6·5	067	25	6·0	5·4	074	28	7·0	5·1	302	28	5·1	3·5	294	28	6·0	4·1	285	28	5·8	2·4	115
3·0 ,,	28	5·2	3·9	074	21	4·6	3·9	093	27	9·5	7·4	288	28	9·5	7·0	288	25	8·5	6·5	284	27	6·7	1·4	121
3·6 ,,	28	5·2	3·1	078	17	4·7	3·1	092	25	11·8	9·0	238	28	11·8	9·8	291	11	10·7	9·4	286	7	8·4	5.3	292
4·5 ,,	28	5·9	3·2	070	14	5·9	3·7	058	19	12·6	11·1	286	24	14.8	12.7	293	1	10.0	10.0	260				
5·4 ,,	28	6·8	3·2	067	9	7·1	4·1	048	11	14.9	13.6	279	20	17.1	15.9	286								
6·0 ,,	28	7·0	3·5	065	4	13·5	12·5	030	5	14.5	12.8	290	18	19.3	18.1	287								
7.2 ,,	28	7·5	3·9	038					1	20.0	20.0	315	10	22.7	21.2	293								
9·0 ,,	25	7.2	3·8	239									3	24.5	24.1	324								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Station	VENGURLA								VERAVAL												VIJAYAWADA/ GANNAVARAM			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	2·6	2·3	270	28	0·5	0·5	357	28	3·9	3·4	010	28	4·7	3·0	258	28	2·5	1·6	326	28	1·9	1·8	06
0·15 a. g. .	28	4·8	4·2	283	28	5·1	4·9	357	28	9·4	7·8	020	28	5·9	3·8	263	28	6·4	4·4	341	28	5·0	3·7	10
0·3 a. m. s. l. .	28	5·0	4·1	275	28	6·3	5·9	356	28	8·6	6·5	024	28	5·9	3·6	270	28	7·4	5·0	353	28	5·7	4·4	12
0·6 „ .	28	4·4	3·2	293	28	6·5	5·1	357	28	6·8	4·5	020	28	5·0	2·8	325	28	7·4	5·0	008	28	6·2	4·9	12
0·9 „ .	28	3·8	2·2	336	28	6·6	3·5	007	28	5·4	2·8	007	28	5·0	3·0	342	28	6·3	4·0	022	26	5·9	4·4	11
1·5 „ .	28	4·5	3·0	055	28	5·9	2·8	053	28	5·0	1·9	300	28	5·9	3·1	001	28	5·3	2·0	040	26	5·1	3·0	07
2·1 „ .	28	6·2	4·3	068	28	6·9	5·0	085	28	5·8	2·8	300	28	6·0	2·6	341	28	5·5	1·6	319	25	5·8	2·6	03
3·0 „ .	28	8·0	4·1	069	28	8·7	6·2	090	28	7·2	3·6	316	28	7·1	4.0	307	28	6·4	3·2	305	24	6·1	2·9	34
3·6 „ .	28	7·6	3·2	069	8	5·8	1·3	184	22	7·8	5·1	304	28	7·9	5·3	299	25	7·8	4·8	304	22	6·3	2·2	32
4·5 „ .	28	8·1	2·7	007					14	11·0	8·8	299	28	11·7	9·6	295	18	10·9	8·2	303	22	7·7	4·1	29
5·4 „ .	28	9·9	4·9	334					6	13·0	10·7	303	28	15·7	13·3	297	7	14·2	14·0	283	21	9·3	6·5	27
6·0 „ .	28	11·5	7·2	320					1	9·0	9·0	245	28	18·4	15·7	285	4	15·6	15·0	289	21	10·6	8·4	28
7·2 „ .	13	15·3	13·7	306					1	15·0	15·0	260	28	23·7	21·8	293	1	14·0	14·0	275	13	14·9	12·4	26
9·0 „ .	1	19·9	19·9	250					1	18·5	18·5	265	22	28·3	24·1	290					3	13·3	12·9	23

Station	VIJAYAWADA/GANNAVARAM								VISHAKHAPATNAM															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	3·3	2·8	128	28	1·4	1·1	111	28	0·9	0·5	018	28	2·6	1·9	108	28	2·2	1·0	029	28	0·3	0·1	025
0·15 a. g. .	27	4·8	4·3	129	28	6·5	5·5	131	28	5·7	5·0	009	28	2·8	1·4	121	28	5·3	3·5	051	28	2·5	0·7	110
0·3 a. m. s. l. .	27	5·0	4·4	128	28	6·8	6·0	130	28	5·0	3·6	025	28	2·5	1·1	114	28	5·2	3·0	064	28	3·1	1·1	139
0·6 „ .	27	4·2	3·5	120	28	5·7	5·1	121	28	3·6	1·3	049	28	3·2	0·9	072	28	4·8	1·7	120	28	3·9	0·9	137
0·9 „ .	27	3·4	2·6	101	28	4·6	3·6	106	28	3·9	1·6	053	28	3.8	1·2	048	28	5·3	1·6	073	27	4·1	0·6	073
1·5 „ .	27	4 4	2·3	036	28	5·1	2·8	057	28	5·4	2·0	010	25	4·9	2·2	020	28	5·3	2·5	005	25	4.4	2·2	023
2·1 „ .	26	5·0	3·1	013	28	5·4	2·3	028	28	5·1	2·1	345	24	5·3	2·6	350	28	5·6	4·4	340	25	5·3	3·2	354
3·0 „ .	26	5·6	2·5	339	28	5·5	2·3	328	28	6·1	3·3	317	23	5·3	3·0	322	28	5·9	4·0	324	25	5·2	3·2	320
3·6 „ .	25	6 4	3·2	306	27	7·2	3·4	304	28	6·3	4·4	300	21	5·2	2·8	298	28	6·4	4·2	300	16	8·7	5·9	308
4·5 „ .	21	8·1	4.9	292	20	7·7	5·2	285	28	8·4	5·8	284	18	7·5	5·1	277	28	8·4	6·3	287	7	6·7	4·1	291
5·4 „ .	21	9·3	7·0	264	11	9·0	7·4	271	28	10·6	8·8	270	18	9·5	8·0	263	28	10·2	10·2	267	1	10·0	10·0	210
6·0 „ .	21	10·1	8·5	268	6	8·9	6·8	254	28	12·6	11·0	274	18	11·4	9·4	260	28	12·8	11·1	268	1	9·0	9·0	225
7·2 „ .	20	13·7	12·0	274	2	12·0	12·0	235	27	17·3	15·8	275	13	18·1	15·4	266	28	17·4	15·9	277				
9 0 „ .	16	17·7	16·5	263					27	23·6	21·9	262	4	21·1	20·0	242	28	24·3	22·0	264				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10·5	17	41·8	38·2	290
12·0	12	44·9	40·3	285
14·1	6	41·1	40·1	287
16·2	4	38·2	35·3	267
18·0	1	10·0	10·0	285
	1130 hr.			
10·5	1	38·5	38·5	260
	1730 hr.*			
10·5	19	42·3	37·4	289
12·0	10	41·3	38·0	287
14·1	3	42·3	39·5	286
16·2	1	32·0	32·0	295
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	8	43·7	41·6	265
12·0	5	37·9	35·6	258
14·1	3	39·0	37·3	268
	1730 hr.*			
10·5	15	43·1	38·7	267
12·0	2	36·0	35·7	298
14·1	1	27·5	27·5	290
	AMBALA			
	1130 hr.			
10·5	2	16·7	16·7	227
12·0	2	10·0	9·7	323
	ANANTAPUR			
	0530 hr.			
10·5	2	21·7	19·8	254
	1730 hr.			
10·5	9	16·2	15·6	236
12·0	8	17·2	16·6	238
14·1	6	15·8	14·4	251
16·2	3	8·5	8·0	266
	BAHRAICH			
	0530 hr.			
10·5	3	24·2	23·8	291
	1730 hr.			
10·5	10	34·5	32·9	277
12·0	3	33·8	31·3	273
14·1	2	41·0	40·4	304
	BANGALORE			
	0530 hr.@			
10·5	17	14·4	12·9	239
12·0	16	15·8	13·9	238
14·1	13	15.3	14·4	233
16·2	12	8·7	6·3	255
18·0	10	4·3	2·3	282
21·0	5	6 6	4·1	250
24·0	3	8·5	3·8	281
	1130 hr.			
10·5	10	10·5	9·9	238
12.0	9	14.2	12.0	233
14·1	6	19·8	18·4	254
16·2	5	12·6	11·2	244
18.0	1	8.0	8.0	190
	1730 hr.@			
10·5	16	13·9	12·2	241
12·0	12	15·9	14·2	245
14·1	11	16·6	12·3	232
16.2	9	9·0	5·8	265
18·0	8	7·1	5·4	273
21·0	4	10·1	9·7	253
24.0	2	6.7	5.1	268
	BAREILLY			
	0530 hr.			
10·5	1	17.0	17.0	295
12.0	1	18.5	18.5	310
	BEGAMPET			
	0530 hr.			
10·5	11	21·0	18·4	271
12·0	6	20·6	20·0	248
14·1	5	19·3	18·0	290
16.2	5	18·4	17.2	275
18·0	3	10·3	9.1	277
	1730 hr.			
10.5	11	21·5	20·5	254
12·0	4	18.3	17.7	252
14·1	2	20·0	20·0	247
	BHAGALPUR			
	1730 hr.			
10.5	2	27·7	27.7	271
12.0	1	38·0	38·0	275
	BOMBAY/SANTA CRUZ AERODROME			
	0530 hr.*			
10·5	21	26·9	23·0	279
12·0	16	34·4	29·4	277
14·1	6	33·4	29·3	279
16·2	2	23·7	23.5	297
10·5	4	26.9	25·5	259
12.0	1	32·0	32·0	245
14·1	1	35·0	35·0	240
	1730 hr.*			
10·5	24	28·6	25·2	268
12.0	14	28·2	25·2	270
14.1	8	28·8	22·7	268
16.2	4	25·0	11·8	270
18·0	2	13·3	12·5	350
	CALCUTTA/DUMDUM			
	0530 hr.*			
10·5	12	38·5	37·5	249
12·0	7	40·8	39·4	255
	1730 hr.*			
10.5	11	36·9	35·5	256
12.0	7	36·8	36·0	262
14·1	1	20·0	20·0	260
	COCHIN/WILLINGDON			
	1730 hr.			
10·5	2	9·7	9·5	216
12·0	1	11·5	11·5	270
14·1	1	7·0	7·0	240
	GADAG			
	0530 hr.			
10·5	10	11·3	10·1	246
12·0	8	14.7	13·5	250
14·1	4	14·4	13·7	245
16·2	4	9·3	7·7	283
18·0	1	2·5	2·5	285
	1730 hr.			
10.5	15	17·5	16·0	248
12·0	11	18·9	16·8	242
14·1	6	15·6	15·0	288
16·2	4	13·5	12·7	256
18·0	3	7·0	4·3	238
21·0	1	11·0	11·0	265
	GAUHATI			
	0530 hr.*			
10·5	8	43·7	41·9	257
12·0		50·8	49·8	257
14·1		40·7	40·0	267
16·2		51·0	51·0	265
	1130 hr			
10·5	3	45·5	43·3	270
12·0	2	47·5	47·0	276
10·5	8	43·3	41.7	260
12·0	3	37·5	36·4	256
14.1	3	53·8	52·8	260
	GOPALPUR			
	1730 hr.			
10·5	4	34·2	33·8	245
12·0	2	33·0	30·9	247
	GORAKHPUR			
	1730 hr.			
10·5	2	23·5	22·7	290
12·0	1	42.0	42.0	289
14·1	1	33·0	33·0	265
	GWALIOR			
	0530 hr.			
10·5	2	22·3	22·3	298
12·0	2	36·3	36·2	308
	1730 hr.			
10·5	1	17·5	17·5	300
12·0	1	28.0	28.0	280
	JODHPUR			
	0530 hr.*			
10·5	5	28·7	26·4	286
12.0	2	40·0	37·3	302
	1730 hr.*			
10·5	7	38·6	23·4	270
12·0	3	32·7	28·7	263
14.1	1	29·5	29·5	240
	MADRAS/MINAM-BAKKAM			
	0530 hr.*			
10·5	25	13.0	11·7	257
12·0	21	15·6	13·7	245
14·1	17	13·5	11·6	239
16·2	13	9·9	6·8	246
18·0	3	5·7	1·0	228
21·0	1	7·5	7·5	265
	1130 hr.			
10·5	4	17·5	14·9	229
12·0	3	14·0	11·8	231
14·1	2	21·3	21·2	251
16·2	2	7·9	7·3	300
18.0	2	12·5	10.7	297
21·0	1	6·0	6·0	021

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

February 1962 (Magha 12—Phalguna 9 1883 Saka)

Ht. in Km.	n	V	v	D
	MADRAS/MINAMBAKKAM—*Contd.*			
	1730 hr.*			
10·5	22	14·6	10·6	241
12·0	18	16 7	15·7	242
14·1	10	20·9	19·8	252
16·2	5	13·2	9.1	232
18·0	2	9·0	4·1	195
	MANGALORE/BAJPE			
	0530 hr.			
10·5	3	16·7	15.3	253
	1730 hr.			
10.5	8	16.1	13·7	243
12·0	4	13·7	13·0	224
14·1	2	14·5	14·3	203
16.2	1	12·0	12·0	280
	MINICOY			
	0530 hr.			
10·5	4	8·7	4·4	198
	NAGPUR/SONEGAON			
	0530 hr.*			
10·5	27	38.2	34.9	274
12·0	22	38·9	37·1	282
14·1	19	30·6	29·2	279
16·2	17	23·6	19.4	278
18.0	17	11·3	8·5	265
21·0	5	7·9	1·2	058
24·0	1	5·5	5·5	120
	1130 hr.			
10·5	3	35·7	35·2	261
	1730 hr.*			
10·5	28	37·8	33·3	266
12·0	26	38·5	35·7	265
14.1	24	32·8	30·2	263
16·2	24	23·9	22.4	265
18·0	19	11·5	11·0	278
21·0	8	8·8	1·8	283
24·0	2	13·0	12·0	272
	NEW DELHI/SAFDARJUNG			
	0530 hr.*			
10·5	23	34·9	32·3	275
12·0	14	36·5	26·6	268
14·1	11	32·8	31·6	272
16·2	6	27·7	26·4	265
18·0	2	17.0	16·3	276

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	13	39·4	35·0	273
12·0	17	39·2	36·2	274
14·1	14	40·6	37·8	267
16·2	11	19·9	16·4	290
18·0	10	11·7	10·6	284
21·0	2	7·0	6·7	050
24·0	1	7·0	7·0	105
	POONA			
	0530 hr.			
10·5	6	22·4	20·5	257
12·0	3	21·3	20·7	252
14·1	2	14·0	13·4	257
	PORT BLAIR			
	0530 hr.*			
10·5	17	9·8	7·0	217
12·0	13	11·7	9·9	217
14·1	5	17·7	15·8	208
16·2	1	42·5	42·5	159
	1130 hr.			
10·5	1	12·5	12·5	245
	1730 hr.*			
10·5	18	11·3	8·5	218
12·0	11	11·7	9·8	208
14·1	6	10·8	7·3	235
16·2	1	10·5	10·5	210
	SILIGURI/BAGHDOGRA			
	1730 hr.			
10·5	1	20·5	20·5	270
	TIRUCHCHIRAPPALLI			
	0530 hr.			
10.5	8	10·4	5·6	228
12·0	5	11·5	6·1	274
14·1	2	12·0	10·1	234
16·2	1	4·5	4·5	205
18·0	1	8·5	8·5	250
	1730 hr.			
10·5	13	12·1	9·7	237
12·0	13	13·5	10·9	228
14·1	8	14·7	12·8	246
16·2	7	13·1	9.3	230
18.0	5	11.8	5·7	237
21.0	2	9·0	8·8	278

Ht. in Km.	n	V	v	D
	TRIVANDRUM			
	0530 hr.*			
10·5	20	10·1	6·3	213
12·0	20	11·4	8·1	213
21·0	18	11·3	6·5	231
16·2	17	7.0	2.8	212
18·0	11	10·5	3·6	235
21·0	2	6·3	5·9	263
	1130 hr.			
10·5	8	8·0	6·1	167
12·0	6	10·8	8·2	178
14·1	3	11·2	10·7	200
16.2	3	8·7	5·1	117
18.0	2	8·0	7·9	054
21·0	1	29·5	29·5	110
	1730 hr.*			
10·5	23	10·3	7·8	204
12·0	22	11·8	7·8	202
14·1	22	13.3	8.8	242
16·2	20	10.6	4.0	214
18·0	8	7·3	1·7	127
21·0	3	8·3	8·3	261
	VERAVAL			
	1730 hr.			
10·5	11	32·0	28·8	276
12·0	7	39·6	36·5	261
14·1	1	29·0	29·0	285
	VIJAYWADA/GNNAVARAM			
	0530 hr.			
10·5	1	7·5	7·5	285
	1730 hr.			
10·5	11	22·4	21·4	262
12·0	3	23·7	23·7	252
14·1	2	22·3	22·1	240
16·2	1	10·0	10·0	245
18·0	1	3·5	3·5	205
	VISHAKHAPATNAM			
	0530 hr.*			
10·5	27	27.3	25.2	255
12.0	27	28.9	27.9	257
14.1	23	24·0	22·6	254
	17	18.3	15.4	257
18.0	9	13.4	12.1	259
21.0	2	10.0	8.2	230
24.0	1	15·5	15·5	275

Ht. in Km.	n	V	v	D
	1730*—*Contd.*			
10·5	25	26·0	24·0	257
12·0	24	27·1	25·9	253
14·1	16	24·4	23·0	251
16·2	9	18·1	17·1	267
18·0	3	17·3	16·0	281
21·0	1	7·0	7·0	290
24·0	1	5·5	5·5	340

RADIOSONDE DATA

February 1962 (Magha 12— Phalguna 9, 1883 Saka)

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

LIST OF RADIOSONDE STATIONS IN INDIA

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

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

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

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1007 mb.)						ALLAHABAD/BAMHRAULI (1003 mb.)						BANGALORE (912 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	055	289·7	293	285	279·5	28	098	286·4	291	282	284·6	28	921	290·7	294	287	287·5
1000	28	114	..	..	..	..	28	123	..	..	..	..	28	127	..	..	..	..
900	28	1024	292·3	297	288	273·6	28	1021	289·4	297	284	277·4	28	1031	290·2	293	287	286·0
850	28	1512	289·0	293	283	270·3	28	1500	286·4	292	280	277·1	28	1519	289·8	293	287	279·9
800	28	2024	285·4	291	279	266·4	28	2012	283·3	287	280	270.4	28	2034	287·1	289	285	276·5
700	28	3132	279·0	283	276	262·2	28	3109	276·6	281	271	264·8	28	3149	281·5	285	277	275·8
600	28	4375	270·4	278	265	256·7	27	4344	269·0	274	265	..	28	4401	274·9	279	270	255·5
500	28	5786	260·4	266	255	..	27	5757	259·5	264	254	..	28	5858	267·5	270	262	..
400	28	7474	250·0	255	243	..	27	7420	248·8	254	243	..	28	7577	256·2	262	251	..
300	24	9522	235·2	240	226	..	23	9453	234·9	243	227	..	28	9677	241·2	248	231	..
250	23	10757	226·5	233	217	..	17	10698	228·1	239	221	..	28	10939	230·8	238	220	..
200	23	12220	217·7	223	211	..	16	12171	223·0	235	216	..	27	12413	218·6	224	210	..
175	19	13063	212·0	221	206	..	12	12992	217·6	221	210	..	27	13243	213·1	221	204	..
150	17	14013	208·0	217	203	..	10	13978	214·8	218	212	..	27	14185	206·4	217	196	..
125	16	15111	202·1	208	195	..	8	15104	210·9	215	205	..	27	15263	200·9	210	191	..
100	14	16434	297·8	205	190	..	..	..	..	..	..	..	26	16590	195·0	204	189	..
80	11	17746	199·0	213	185	..	..	..	..	..	..	..	25	17899	196·8	207	192	..
70	8	18526	204·0	217	187	..	..	..	..	..	..	..	24	18686	199·5	211	193	..
60	6	19413	206·5	216	191	..	..	..	..	..	..	..	21	19587	201·0	209	192	..
50	..	..	..	..	..	..	..	..	..	..	..	..	18	20640	204·3	216	190	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ AERODROME (1010 mb.)						CALCUTTA/DUM DUM (1013 mb.)						GAUHATI (1009 mb.)					
Surface	27	013	292·4	299	291	286·8	28	006	288·8	295	283	287·5	27	049	286·9	290	282	285·5
1000	26	101	..	..	..	..	28	119	..	..	..	..	27	125	..	..	..	..
900	26	1022	295·2	299	291	273·7	28	1018	287·7	296	283	279·8	27	1019	286·4	294	282	280·3
850	26	1515	291·9	295	288	270·7	28	1500	285·1	292	279	276·3	27	1498	283·7	288	280	277·7
800	26	2033	288·0	292	285	270 0	28	2005	281·8	287	275	272·2	27	2001	280·0	286	276	274·4
700	26	3147	280·2	283	277	261·2	28	3100	275·7	280	272	262·8	27	3085	273·1	276	270	266·0
600	26	4400	273·3	277	268	245·5	28	4333	269·1	274	263	..	27	4308	267·1	273	262	..
500	24	5834	265·1	268	261	..	28	5748	260·1	265	253	..	27	5712	258·5	264	255	..
400	23	7532	254·1	259	250	..	26	7416	249·3	257	240	..	27	7369	247·8	253	242	..
300	22	9617	239·3	245	232	..	21	9467	237·2	244	228	..	19	9396	234·8	243	227	..
250	19	10881	230·6	236	223	..	20	10712	230·7	235	221	..	14	10620	228·4	237	221	..
200	17	12351	220·7	229	215	..	11	12205	223·0	230	216	..	14	12095	223·0	228	216	..
175	14	13194	216·1	225	211	..	5	13070	217·6	224	211	..	10	12951	218·8	227	211	..
150	12	14151	209·1	216	204	..	..	..	..	..	..	..	7	13927	214·4	223	206	..
125	9	15272	203·7	209	202	..	..	..	..	..	..	..	..	..	..	..	..	..
100	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

February 1962 (Magh 12—Phalguna 9, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (989 mb.)						MADRAS/Mioambakkam (1011 mb.)						NAGPUR/Sonegaon (978·8 mb.)					
	No. of obs.	Ht. gpm.	Temperature° A				No. of obs.	Ht. gpm.	Temperature° A				No. of obs.	Ht. gpm.	Temperature° A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	218	288·3	291	284	277·5	28	015	296·0	299	293	293·4	28	311	288·8	292	285	283·0
1000	28	125	..	..	..	..	28	112	..	..	..	..	28	120	..	..	..	..
900	28	1025	290·2	296	284	275·8	28	1021	291·1	298	287	282·0	28	1024	292·4	296	289	277·8
850	28	1509	289·3	292	282	270·6	28	1512	289.5	295	284	277·0	28	1513	288·6	293	280	275.2
800	28	2018	284·1	290	281	274·3	28	2026	286·8	291	281	272·5	28	2028	285·4	289	282	272·7
700	28	3118	276·4	282	269	260·7	28	3141	281·3	287	277	262·8	28	3132	278·3	283	270	263·1
600	28	4351	268·7	275	263	..	28	4400	274·9	280	271	256·2	28	4375	270·6	276	265	..
500	28	5763	259·2	264	254	..	28	5851	267·8	272	263	..	28	5802	262·5	265	257	..
400	28	7419	248·7	252	243	..	28	7565	256·9	261	247	..	28	7487	251·1	256	246	..
300	22	9469	235·5	241	230	..	27	9667	241·5	251	236	..	28	9545	237·1	243	227	..
250	15	10706	229·0	233	224	..	26	10924	231·2	241	227	..	28	10789	228·2	236	221	..
200	11	12180	221 0	225	215	..	23	12405	219 8	225	215	..	28	12254	219·1	226	213	..
175	9	13046	217·7	223	214	..	19	13255	214·1	222	209	..	27	13088	213·2	221	209	..
150	..	..	..	..	..	..	17	14195	207·5	219	201	..	26	14046	207·4	218	204	..
125	..	..	..	..	..	..	17	15300	201·4	213	196	..	25	15134	201·8	213	182	..
100	..	..	..	..	..	..	13	16586	196·4	205	192	..	21	16461	197·7	207	191	..
80	..	..	..	..	..	..	10	17899	196·9	207	191	..	20	17749	198·3	207	191	..
70	..	..	..	..	..	..	6	18660	198·8	201	197	..	18	18524	199·4	206	191	..
60	..	..	..	..	..	..	..	..	..	..	..	..	13	19474	202·9	213	195	..
50	..	..	..	..	..	..	..	..	..	..	..	..	11	20558	204·6	211	195	..
40	..	..	..	..	..	..	..	..	..	..	..	..	6	21957	210·5	217	200	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..

	NEW DELHI/Safdarjung (990 mb.)						PORT BLAIR (1003 mb.)						TRIVANDRUM (1003 mb.)					
Surface	28	209	285·5	290	282	283 0	27	079	296·3	299	292	293·6	28	064	297·5	299	295	293·3
1000	28	127	..	..	..	..	27	108	..	..	..	..	28	089	..	..	..	..
900	28	1018	287·5	294	283	275·5	27	1022	292·0	295	289	288·2	28	1008	292·8	295	291	285·3
850	28	1499	285·1	292	279	270·4	27	1511	289·2	293	285	284·1	28	1500	290·2	294	287	281·3
800	28	2004	281·9	287	276	267·8	27	2026	287·0	290	284	279·6	28	2017	287 8	291	283	275·3
700	28	3094	274·5	278	269	259·2	27	3146	283·1	287	280	270·1	28	3137	282·6	287	278	268·3
600	28	4318	266·5	271	260	..	26	4432	276·0	289	272	274·3	28	4402	275·9	280	273	260·9
500	28	5717	257·4	264	253	..	25	5861	267·4	272	263	266·0	28	5860	268·7	273	265	..
400	28	7365	245·9	252	239	..	25	7581	256.5	260	250	..	27	7584	258.5	264	254	..
300	25	9374	232·1	236	225	..	24	9681	241 0	248	234	..	24	9704	243·6	249	239	..
250	24	10595	225·4	236	216	..	24	10945	231·5	239	224	..	21	10981	233·7	241	228	..
200	20	12052	220·5	229	211	..	23	12419	219·8	229	211	..	21	12475	223·8	231	215	..
175	17	12901	218·2	225	211	..	23	13269	213·6	221	205	..	20	13309	215·6	225	208	..
150	16	13882	216·0	223	210	..	20	14230	206·6	214	198	..	19	14297	208·6	220	200	..
125	13	15001	211·0	216	205	..	17	15320	200·0	207	189	..	19	15373	202·8	211	194	..
100	9	16375	207·8	211	204	..	15	16668	195·8	202	191	..	18	16704	197·1	203	187	..
80	5	17738	204·0	211	200	..	11	17936	195·5	207	189	..	14	17978	196·1	203	189	..
70	..	..	..	..	..	..	9	18704	198·2	212	192	..	13	18768	198·4	207	194	..
60	..	..	..	..	..	..	8	19617	196 4	201	190	..	10	19579	199·8	209	189	..
50	..	..	..	..	..	..	7	20654	196·7	202	189	..	9	20652	201·2	211	189	..
40	..	..	..	..	..	..	5	21978	202·6	206	198	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..

RADIOSONDE DATA

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

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

February 1962 (Magha 12 —Phalguna 9, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1009 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	28	041	294·3	297	291	290·7
1000	28	120	..	..	..	..
900	28	1032	291·3	297	287	280·7
850	28	1522	289·2	295	285	273·4
800	28	2035	286·4	289	282	270·8
700	28	3148	280.5	285	274	260·0
600	28	4401	273.5	277	265	256·1
500	28	5845	265·9	270	260	..
400	28	7549	254·8	260	249	..
300	28	9641	240.8	249	233	..
250	28	10904	231.7	239	220	..
200	27	12381	219.7	229	208	..
175	26	13220	214·0	223	202	..
150	26	14184	207·6	217	195	..
125	24	15265	203·1	209	193	..
100	22	16609	198·6	206	190	..
80	16	17973	197.9	207	186	..
70	15	18763	198.7	209	184	..
60	13	19665	200·7	213	185	..
50	11	20723	203·4	217	188	..
40	6	22083	206·6	216	196	..
30						
20						
10						

RADIOSONDE DATA

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

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

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1006 mb.)						ALLAHABAD/BAMHRAULI (1002mb.)						BANGALORE (909 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	055	304·0	307	300	281·5	28	098	297·2	302	293	285·7	27	921	299·9	302	297	284·7
1000	28	107	..	..	..	..	28	116	..	..	..	..	27	081	..	..	..	..
900	28	1031	293·2	299	288	274·8	28	1026	290·2	296	285	276·2	27	1014	298·7	301	295	283·9
850	28	1520	288·9	292	284	272·4	28	1511	287·3	293	283	271.9	27	1513	293·8	297	289	281·3
800	28	2032	285·1	289	280	267·8	28	2019	284·1	290	280	266·7	27	2033	289·0	293	285	279·5
700	28	3135	278·1	282	273	262·2	28	3119	277·1	284	271	248·4	27	3150	281·4	285	277	270·8
600	28	4374	269·9	276	265	..	28	4353	269·0	276	263	..	27	4410	275·4	281	270	257·7
500	28	5793	260·4	267	251	..	28	5767	260·2	266	256	..	27	5861	267·6	272	261	..
400	27	7462	248·8	253	240	..	28	7433	248·9	254	241	..	27	7576	256·9	261	250	..
300	27	9506	235·3	242	228	..	26	9478	235·2	242	229	..	27	9679	241·8	250	232	..
250	26	10737	226·5	236	219	..	25	10717	228·0	237	221	..	25	10944	232·3	237	222	..
200	26	12191	218·2	224	211	..	17	12140	220·6	226	214	..	23	12434	220·1	229	211	..
175	24	13032	213·3	220	207	..	16	13004	217·6	222	213	..	21	13260	214·1	222	206	..
150	21	14011	208·7	216	200	..	16	13996	213·9	221	207	..	21	14225	207·3	214	201	..
125	20	15118	204·1	210	198	..	12	15129	210·6	219	207	..	21	15305	201·4	209	197	..
100	17	16426	200·8	208	194	..	9	16478	206·8	217	199	..	21	16621	196·5	203	191	..
80	12	17756	200·6	208	195	..	7	17796	205·4	212	200	..	18	17947	197·8	208	193	..
70	10	18533	201·9	211	194	..	6	18618	205·6	211	201	..	17	18751	200·0	215	193	..
60	7	19445	203·0	210	193	..	5	19550	207·6	212	202	..	12	19662	202·8	218	197	..
50	6	20578	208·2	213	203	..							10	20729	205·6	215	197	..
40													6	22022	206·3	215	202	..
30																		
20																		
10																		

	BOMBAY/SANTA CRUZ AERODROME (1009 mb.)						CALCUTTA/DUM DUM (1012 mb.)						GAUHATI (1007 mb.)					
Surface	27	013	302·4	308	299	288·7	28	006	299·0	303	293	290·1	28	049	296·5	299	291	287.5
1000	27	094	..	..	..	..	28	109	..	..	..	..	28	106	..	..	..	..
900	27	1024	297·1	301	294	275·0	28	1027	292·3	297	287	280·6	28	1016	290·1	294	284	281·4
850	27	1521	293·5	297	291	270·6	28	1516	288·7	294	283	277·0	28	1501	286·4	291	279	278·1
800	27	2041	289·3	292	287	268·0	28	2028	285·5	290	281	272·3	28	2009	282·8	288	276	274.7
700	27	3159	281·6	285	276	259·0	28	3135	279·0	284	273	263·6	28	3103	275·3	281	268	265·4
600	26	4415	274·4	279	271	249·1	28	4382	271·6	277	266	258.2	28	4333	268·7	275	264	..
500	26	5862	266·2	271	263	..	28	5810	262·8	267	256	..	28	5747	260·3	267	253	..
400	25	7567	254·4	260	249	..	28	7496	252·4	259	245	..	28	7412	248·6	256	241	..
300	24	9649	239·6	245	231	..	25	9576	239·5	244	231	..	21	9462	236·6	245	226	..
250	24	10906	231·0	235	222	..	19	10844	232·5	236	228	..	13	10700	231·0	239	221	..
200	23	12387	221·3	230	214	..	13	12337	223·2	229	217	..	10	12185	225·2	235	219	..
175	19	13244	216·0	223	212	..							5	13053	222·2	229	216	..
150	19	14213	210·6	217	201	..												
125	12	15316	203·6	210	197	..												
100	11	16640	199·5	208	191	..												
80	8	17881	197·0	211	190	..												
70	6	18563	197·3	202	192	..												
60																		
50																		
40																		
30																		
20																		
10																		

RADIOSONDE DATA

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

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

February, 1962 (Magha 12—Phalguna 9, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (988 mb.)						MADRAS/MINAMBAKKAM (1010 mb.)						NAGPUR/SONEGAON (976 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	218	300.4	304	295	279·7	28	015	300·5	302	298	293·3	28	311	302·4	307	286	283·3
1000	28	109	..	..	..	..	28	105	..	..		..	28	094	..	..	..	..
900	28	1030	293·6	298	288	276·5	28	1026	294·0	299	290	282·5	28	1025	296·5	301	291	279.3
850	28	1520	289·2	294	284	273·5	28	1519	291·3	297	288	278·0	28	1520	291·9	298	286	276·4
800	28	2032	285·5	291	281	270·5	28	2037	288·4	293	284	273·7	28	2036	287·1	293	283	274·5
700	28	3135	277·9	282	274	268·4	28	3156	282·3	285	276	267·4	28	3148	279·5	283	275	264·1
600	28	4375	269·9	274	266	..	28	4421	276·1	279	270	259·3	28	4395	272·0	275	267	..
500	28	5797	261·5	265	257	..	28	5876	267·9	273	262	..	28	5827	263·5	267	261	..
400	28	7472	249·9	256	242	..	28	7591	256·4	262	251	..	28	7516	252·2	258	248	..
300	17	9513	236·4	242	227	..	25	9693	241·3	247	233	..	28	9588	238·1	249	232	..
250	13	10753	224·5	235	220	..	23	10955	232·2	238	223	..	28	10841	229·9	239	222	..
200	9	12247	222·7	230	214	..	19	12439	221·6	227	214	..	28	12311	219·7	228	211	..
175	7	13100	219·2	227	210	..	16	13276	215·0	221	207	..	28	13187	214·5	222	205	..
150	7	14080	217·4	224	212	..	13	14232	209·6	216	203	..	28	14115	208·5	216	199	..
125	..	..	..	..	..	..	10	15287	202·0	207	197	..	28	15206	203·7	212	193	..
100	..	..	..	..	..	..	7	16668	196·9	200	193	..	28	16536	198·8	208	189	..
80	..	..	..	..	..	..	..	..	..	..	..	..	25	17854	198·6	211	191	..
70	..	..	..	..	..	..	..	..	..	..	..	..	24	18640	199·1	203	192	..
60	..	..	..	..	..	..	..	..	..	..	..	..	19	19578	202.4	214	195	..
50	..	..	..	..	..	..	..	..	..	..	..	..	15	20697	206·1	216	193	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22028	210·8	218	206	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG (989 mb.)						PORT BLAIR (1002 mb.)						TRIVANDRUM (1002 mb.)					
Surface	27	209	294.9	298	291	286·2	28	079	299·8	301	299	295·5	28	064	302·3	303	301	294·7
1000	27	120	..	..	..	..	28	096	..	..	..	..	28	078	..	..	..	..
900	27	1023	288·7	293	286	277·1	28	1014	292·3	295	290	288·5	28	1006	294·2	299	291	288·5
850	27	1505	285·2	291	281	270·8	28	1504	289·5	293	287	285·2	28	1500	291·0	294	287	285·6
800	27	2009	281.9	288	277	268·7	28	2019	287·3	291	285	279·7	28	2018	288·1	291	284	281·3
700	27	3100	274·8	279	270	260·4	28	3140	282·5	287	279	273·6	28	3140	283·1	287	281	271·6
600	27	4327	266·8	272	260	..	28	4405	275·6	280	272	268·3	28	4407	275·9	281	271	263·1
500	26	5724	257·8	262	251	..	28	5853	267·5	274	264	..	28	5866	267·9	275	268	..
400	25	7376	247·1	252	241	..	28	7575	256·6	263	251	..	28	7589	257·7	266	251	..
300	18	9398	233·7	242	227	..	28	9680	241·6	248	232	..	25	9689	241·6	249	234	..
250	14	10600	225·4	235	217	..	27	10963	232 0	242	223	..	23	10946	231·8	238	223	..
200	12	12018	218·3	228	212	..	27	12426	219·5	231	208	..	22	12439	221·5	227	214	..
175	10	12892	217·9	226	211	..	24	13262	211·9	219	205	..	22	13281	215·2	223	208	..
150	9	13867	216·3	222	211	..	24	14203	204·5	210	196	..	22	14254	208·5	221	202	..
125	7	15020	214·6	219	210	..	23	15290	198·7	207	191	..	22	15331	202·1	209	195	..
100	5	16442	212·8	215	211	..	19	16556	195·0	204	191	..	21	16664	197·6	208	189	..
80	5	17826	212·2	216	207	..	11	17855	196.6	205	193	..	13	17940	196.2	205	189	..
70	5	18654	213.0	217	208	..	7	18724	199.6	208	194	..	9	18719	196.4	206	191	..
60	5	19622	215·0	219	211	..	6	19631	200.5	205	197	..	8	19656	203.7	207	191	..
50	..	..	..	..	..	..	5	20661	200.0	208	191	..	7	20769	205.6	209	196	..
40	..	..	..	+	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 12000 Hour G. M. T.

February 1962 (Magha 12—Phalguna 9, 1883 Saka)

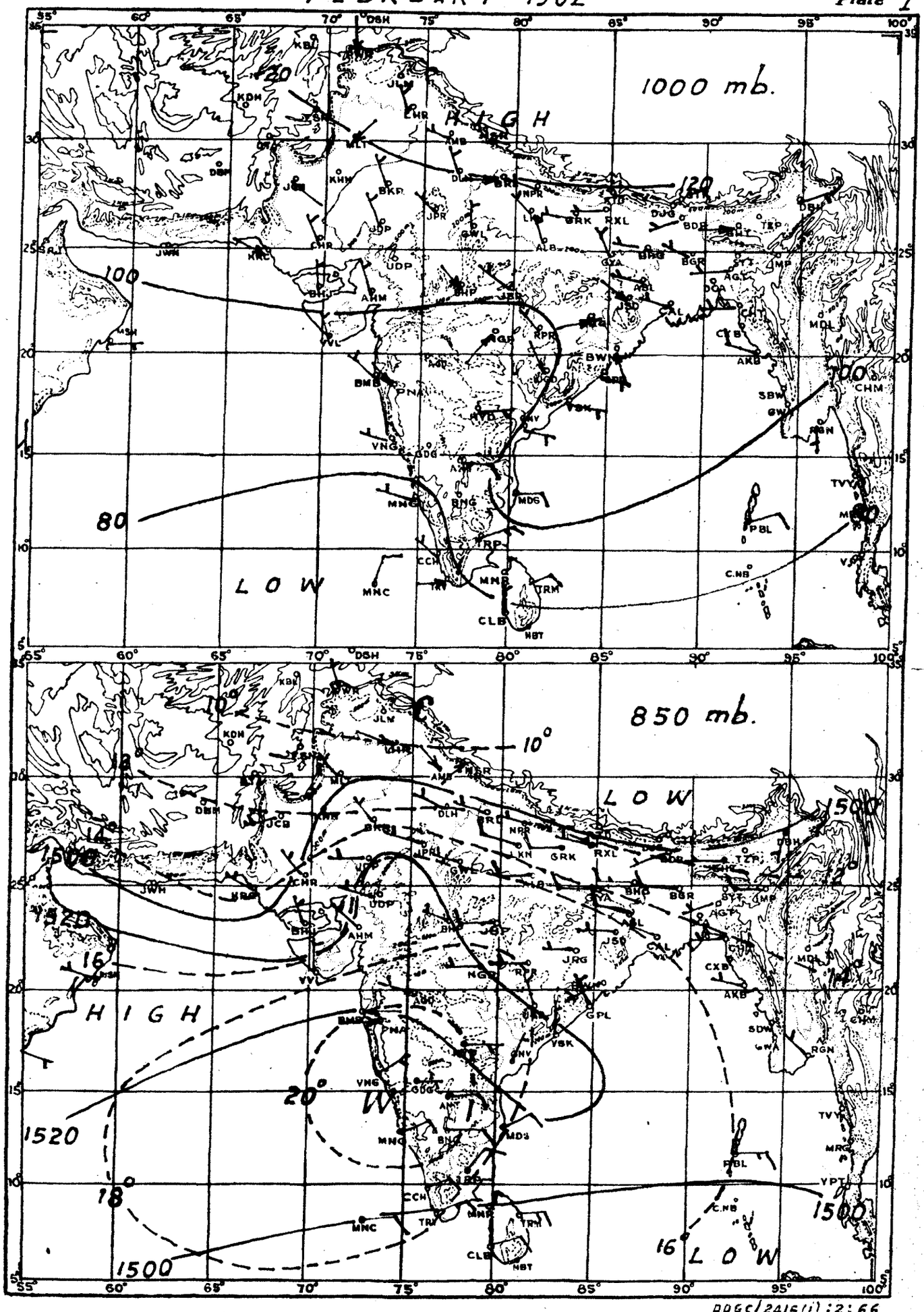
Standard Pressure Surface (mb.)	VISHAKHAPATNAM Surf. Pr. (1008 mb)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	28	041	299·3	301	297	292·7
1000	28	110	..	..	..	..
900	28	1029	293·0	297	289	280·7
850	28	1521	289·9	293	285	276·6
800	28	2035	286·8	291	279	272·8
700	28	3148	280.7	285	274	263·1
600	28	4403	273·8	278	267	251·2
500	28	5846	265·9	274	258	..
400	27	7545	253·9	260	244	..
300	27	9632	240·4	247	233	..
250	25	10848	230·9	237	225	..
200	24	12363	218·6	224	211	..
175	23	13223	213·6	219	206	..
150	23	14175	207·7	216	199	..
125	21	15272	202·8	208	194	..
100	20	16615	197·8	205	192	..
80	17	17918	198·5	208	190	..
70	15	18723	200·8	216	191	
60	11	19652	201·1	214	193	
50	10	20751	203·5	216	194	
40						
30						
20						
10						

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

GIPN—SI—566 D,D,G,Gb,P./65—16-8-66—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. FEBRUARY 1962 Plate I



DDGC/2415(1):2:66

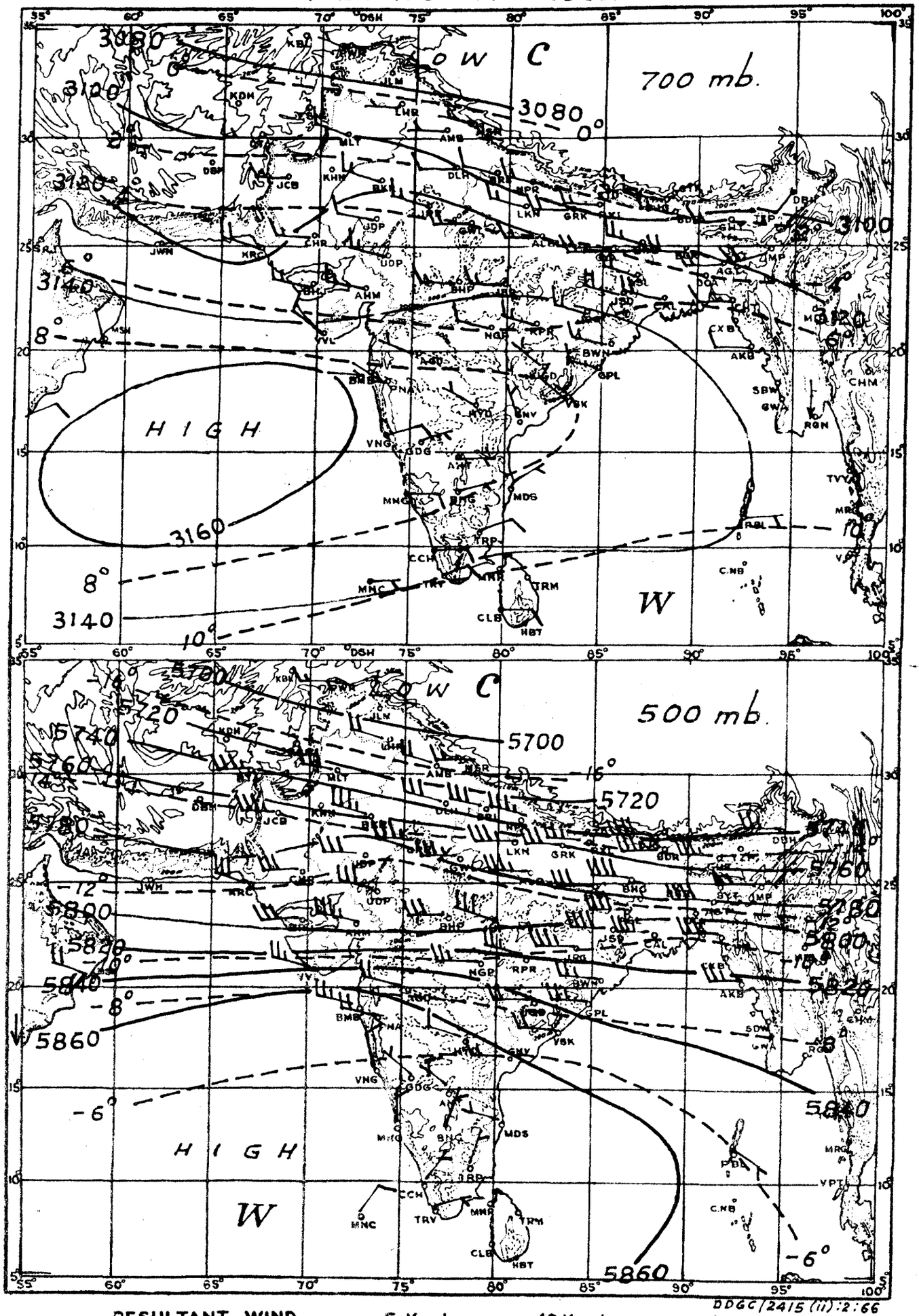
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

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

G.P.Z.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. FEBRUARY 1962 *Plate II*



DDGC/2415 (ii):2:66

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

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

G.P.P. POONA, 1963

Registered No. MH-75

INDIA WEATHER REVIEW, 1962

Monthly Weather Report

March

Published by authority of the Government of India

Chief features :

(i) Passage of five western disturbances across the country resulting in abundant rainfall in northwest India ;

(ii) Good thunderstorm activity in the central parts of the country and in the Peninsula; and

(iii) Sub-normal precipitation in northeast India.

Five western disturbances moved across the country during the month. Of these the first which was the most active one caused a heavy spell of precipitation over north India during its passage from the 4th to 8th. Some of the noteworthy amounts of rainfall were : Banihal 7 cm on 4th, Tehri 8 cm and Meerut, Nainital, Bilaspur (M. P.) and Najibabad 7 cm each on 5th and Nautanwa Bazar 6 cm on 6th. The details regarding the movement and activity of the various western disturbances are given in the following statement.

(See table attached)

The normal low level trough extending from extreme south Peninsula to central India was accentuated periodically by the formation and movement of easterly troughs in the low levels. Kerala received a spell of rain on 7th, Alleppey recording 5 cm on that day. A well marked trough which lay along the west coast on the 13th moved away westwards across central and north Arabian Sea on 16th. Another trough developed and persisted over the Peninsula and central parts of the country from 16th to 18th. Under their influence there was good thunderstorm activity in Madhya Pradesh and in Gujarat and Maharashtra States. The fourth trough lay over the central parts of the country and the north Peninsula on 29th and 30th causing scattered thundershowers there. According to newspaper reports, Secunderabad experienced a hailstorm with gales of 106 km. p. h. on 21st when hailstones of half an inch in diameter fell during a short spell. Hyderabad recorded 5 cm of rain on 22nd.

Scattered thundershowers occurred in parts of northeast India during the first half of the month. The activity was more marked after the passage of the first western disturbance across Assam when the low level anticyclone over the central Bay of Bengal intensified and in association with it there was pronounced incursion of moist air into northeast India and east Madhya Pradesh from 9th to 13th. Some of the important rainfall amounts reported were : Chandbali 7 cm and Cuttack and Keonjhar 5cm each on 10th. Northeast India was practically dry during the second half of the month.

Day temperatures were below normal in north India from 4th to 7th, being appreciably to markedly so in northwest India on 4th and 5th and in northeast India on 5th. They were also below normal over the central parts of the country during the period 20th to 27th, being appreciably so on 20th and 21st. Rajasthan and Gujarat States had day temperatures above normal on 14th and 15th with appreciably to markedly above normal temperatures on 14th.

The total rainfall during the month was in large excess in the Punjab (I), Rajasthan, west Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada and Vidarbha and in slight excess in Orissa. It was normal in west Uttar Pradesh, east Madhya Pradesh, Telangana and north Interior Mysore, in slight defect in Bihar Plains, Rayalaseema and Kerala and in moderate defect in east Uttar Pradesh, Saurashtra and Kutch, the Konkan and the Madras State. It was in large defect over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Assam and below normal in the Punjab (I) and Vidarbha. It was normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

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1—611D.D.G. Obs. P/65

The mean relative humidity in the morning was above normal in Uttar Pradesh, the Punjab (I), east Rajasthan, Madhya Pradesh, Saurashtra and Kutch and Vidarbha and below normal in Assam, Gangetic West Bengal and Orissa. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in east Uttar Pradesh, east Rajasthan, Madhya Pradesh, Gujarat State, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, the States of Madras and Mysore and the Arabian Sea Islands. It was below normal in Assam and West Bengal and normal over the rest of the country outside Himachal Pradesh.

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

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

POONA-5, R. ANANTHAKRISHNAN,

The 16*th February*, 1963. for DIRECTOR GENERAL OF OBSERVATORIES.

(Statement showing the movement and activity of western disturbances during the month of March 1962)

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	1st-8th	Baluchistan-West Rajasthan and Punjab-north Rajasthan-Assam	Rajasthan Punjab (I) West Uttar Pradesh	Scatterded rain Lacal/ fairly widespread rain or snow.	4th, 5th 4th, 6th	Active disturbance.
			East Uttar Pradesh	Local/scattered rain	5th, 6th	
			Himachal Pradesh	Widespread/fairly widespread rain	5th, 6th	
			Jammu and Kashmir Bihar	Scattered rain or snow Local/scattered rain	4th, 5th 5th, 6th	
			West Bengal	Fairly widespread/scattered rain.	6th, 7th	
			Assam	Scattered rain	8th, 9th	
2	7th-10th	Baluchistan-Punjab-West Uttar Pradesh.	Jammu and Kashmir Hills of west Uttar Pradesh.	Scattered rain or snow	8th	Feeble.
				Scattered rain or snow	9th	
3	15th-21st	Baluchistan and adjoining Sind-West Rajasthan-Punjab (i) Hills of West Uttar Pradesh.	East Rajasthan West Rajasthan Punjab (I) West Uttar Pradesh Jammu and Kashmir.	Scattered rain Scattered rain Scattered rain Scattered rain or snow Scattered rain ors now.	15th, 16th 16th, 18th 18th,-21st 21st. 19th 21st	Slow moving practically stationary over Pudjab (I) and neighbourhood from 18th to 20th
4	21st-23rd	North Baluchistan-Afghanistan-Punjab (I) Western Himalayas.	West Rajasthan Punjab (I) Jammu and Kashmir	Scattered rain Scattered rain Scattered rain	21st 22nd, 23rd 23rd	
5	24th-28th	South Baluchistan and adjoining north Arabian Sea-South Rajasthan and Gujarat Region-Filled up over Rajasthan.	Rajasthan West Madhya pradesh	Scattered rain Scattered rain	26th, 27th 26th, 28th	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur & Tripura)	23·0 −59·4	28	29·8 +1·2	16·0 +0·6	61 −10	46	2·2 −1·0	2·4
2. West Bengal	4·6 −25·6	15	33·2 +0·4	18·9 −0·3	51 −11	33	1·1 −1·1	1·6
3. Orissa	27·2 +3·2	113	33·3 −0·4	20·7 −0·2	58 −7	50	1·9 −0·1	2·7
4. Bihar	8·5 −6·4	57	32·4 −0·5	16·8 −0·4	49 0	32	1·4 +0·1	1·8
5. Uttar Pradesh	9·9 −2·4	80	30·9 −0·7	15·3 +0·2	59 +9	32	1·9 +0·4	2·0
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	42·5 +17·3	169	27·7 −1·2	13·5 −0·4	66 +9	40	2·1 −0·3	2·6 −0·1
7. Jammu and Kashmir	29·2 −42·5	41	20·3 +0·3	6·4 −2·6	80 −5	40	4·5 −0·4	5·9
Sub-division								
1. Bay Islands	0 −28·5	0	31·8 +1·0	22·8 +0·9	69 −3	74	3·3 +0·4	3·8
2. Assam (Including Manipur & Tripura)	23·0 −59·4	28	29·8 +1·2	16·0 +0·6	61 −10	46	2·2 −1.0	2·4
3. Sub-Himalayan, West Bengal	7·5 −24·1	24	30·3 −0·5	15·8 0	54 −5	36	1·0 −0·7	1·7
4. Gangetic West Bengal	3·6 −26·1	12	34·1 +0·7	19·9 −0·4	50 −13	38	1·1 −1·2	1·6
5. Orissa	27·2 +3·2	113	33·3 −0·4	20·7 −0·2	58 −7	50	1·9 −0·1	2·7
6. Bihar Plateau	8·3 −14·2	37	32·3 −0·5	17·1 −0·5	46 −1	29	1·3 −0·3	2·2
7. Bihar Plains	8·7 −1·8	83	31·9 −0·9	16·5 −0·3	51 +2	36	1·6 +0·1	1·5
8. Uttar Pradesh (East)	6·6 −3·4	66	31·6 −0·9	15·8 +0·1	58 +9	33	2·1 +0·8	1·9
9. Uttar Pradesh (West)	14·4 −0·9	94	29·9 −0·5	14·6 +0·3	60 +9	32	1·7 −0·1	2·2
10. Punjab (India) (Including Delhi)	42·5 +17·3	169	27.7 −1·2	13·5 −0·1	66 +9	40	2·1 −0·3	2·6
11. Himachal Pradesh.	50·4 ..	..	24·3 ..	9·0 ..	78 ..	53 ..	2·9 ..	3·7
12. Jammu and Kashmir.	29·2 −42·5	41	20·3 +0·3	6·4 −2·6	80 −5	49	4·5 −0·4	5·9
13. Rajasthan (West)	20·0 +11·7	241	31·8 +0·2	15·5 +0·5	50 +3	21	1·6 −0·3	2·3
14. Rajasthan (East)	13·0 +8·1	265	32·0 0	15·4 −0·7	44 +6	20	1·7 +0·3	3·3
15. Madhya Pradesh (West)	16·9 +8·5	201	32·6 −0·9	16·3 −0·3	47 +11	25	2·3 +0·9	3·5

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—(*Contd.*)								
8. Rajasthan	16·1 +9.7	252	31·9 +0·1	15·4 −0·3	46 +5	21	1·7 +0·1	2·9
9. Madhya Pradesh	17·8 +4·5	134	32·7 −0·8	16·8 −0·1	49 +9	27	2·4 +0·9	3·3
10. Gujarat State	1·9 +0·5	136	33.5 −0·7	18·5 −0·3	67 +7	41	2·1 +0·9	1·9
11. Maharashtra State	10·9 +5·2	191	34·3 −0·4	20·0 0	52 +2	33	2·1 +0·7	2·8
12. Andhra Pradesh	4·5 −4·2	52	35·1 −0·6	22·2 −0·1	63 −1	40	2·2 +0·3	1·9
13. Madras State	8·9 −7·0	56	33·2 −0·4	22·1 −0·1	73 −2	53	3·6 +1·1	3·5
14. Mysore	5·5 −3·0	65	34·2 −0·1	20·9 +0·2	59 −1	37	2·4 +0·9	3·7
15. Kerala	36·6 −9·5	79	32·3 +0·2	24·3 −0·6	77 +1	69	3·1 +0·5	3·8
Sub-division—(*Contd.*)								
16. Madhya Pradesh (East)	19·0 −0·6	97	32·8 −0·7	17·4 +0·2	52 +6	29	2·4 +0·9	3·1
17. Gujarat Region	3·6 +2·4	300	35·7 −0·5	18·4 −0·2	51 −1	19	2·1 +1·0	2·0
18. Saurashtra and Kutch	0·9 −0·6	60	32·1 −0·7	18.5 −0·4	76 +11	54	2·1 +0 8	1·8
19. Konkan	0·3 −0·3	50	30·4 −0·1	21·6 −0·2	72 +1	62	1·7 +0·1	1·5
20. Madhya Maharashtra	8·1 +4·4	219	36·2 −0·2	18·8 +0·5	43 −1	22	1·7 +0·7	3·1
21. Marathwada	17·7 +11·5	285	35·7 −0·5	19·9 +0·1	34 −2	17	2·3 +1·1	3·6
22. Vidarbha	23·5 +9·5	168	35·1 −1·1	20·0 −0·3	48 +7	25	2·7 +1·2	9·0
23. Coastal Andhra Pradesh	0 −9·2	0	34·0 −0·3	22·4 −0·5	72 −2	55	2·0 −0·2	1·8
24. Telangana	11·4 +0·9	109	35·4 −1·0	21·7 +0·2	57 0	26	2·9 +1.1	1·8
25. Rayalaseema	3·6 −1·0	78	37·0 −0·6	22·9 +0·3	51 0	26	1·3 +0·2	2·2
26. Madras State	8·9 −7·0	56	33·2 −0·4	22·8 −0·1	73 −2	53	3·6 +1·1	3·5
27. Coastal Mysore	0 −2·0	0	31·6 −0·1	22·4 −0·8	77 −1	66	2·8 +0·6	3·0
28. Interior Mysore (North)	8·0 +0·5	107	35·9 −0·1	21·3 +0·3	47 −2	29	1·5 +0·5	3·5
29. Interior Mysore (South)	5·6 −6·4	47	34·0 −0·1	19·8 +0·5	63 −1	29	3·1 +1·4	4·2
30. Kerala	36·6 −9·5	79	32·3 +0·2	24·3 −0·6	77 +1	69	3·1 +0·5	3·8
31. Arabian Sea Islands	0 −13·2	0	31·9 +0·8	24·8 −0.3	75 +3	68	5·2 +2·5	4·9

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Bay Islands																														
Maya bandar	31·2	..	34·0	20	22.5	..	20·6	20	0	0	..	0	..	0	..	11·1	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Long Island	31·1	..	33·9	22	22·2	..	19·4	10	0	2·0	..	2·0	18	0	..	5·7	4·5	..	0	1	0	0	1	0	0	0	0	0	0
Port Blair	31·8	+0·1	33·3	23	22·8	+0·9	20·0	1	0	0	−28·5	0	..	0	−2·1	8·3	6.0	−3·5	0	0	0	0	3	0	0	0	0	0	0
Car Nicobar	30·7	..	33·1	23	23·6	..	18·5	1	24·0	34·4	..	13·6	4	5	..	9·3	5·0	..	0	5	0	0	4	0	0	0	0	0	0
Nancowry	32·6	..	33·9	21	25·1	..	23·0	3	7·6	21 0	..	9·2	8	3	..	0·6	0·2	..	0	4	0	0	6	0	0	0	0	0	0
Kondul	29·1	..	31·1	21	24·9	..	22·6	3	35·0	166·8	..	84·4	3	8	..	..	..	..	0	12	0	0	6	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																														
Pasighat	26·0	..	32·6	30	16·6	..	10·6	1	4.1	45·1	..	15·6	7	6	..	11·2	15.1	..	0	8	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	27 0	+1·4	31·8	23	14·9	+0·3	10·2	12	3.8	59·9	−43·2	22·7	7	6	−2·5	7·1	4·7	+0 5	0	9	0	0	6	0	0	0	0	0	0
Dibrugarh	27·3	+1·2	31·8	30	16·0	0	11·1	3	3·7	53·9	−49·2	22·2	7	6	−2·5	1·7	0·9	−1·4	1	7	0	0	4	0	0	0	0	0	0
Digboi (R)																														
North Lakhimpur	26·6	−0·5	31·2	30	15·2	+0·2	11·6	1,13	8·0	76·3	−35·3	24·6	7	9	+2·7	6·1	4·2	..	0	10	0	0	2	0	0	0	0	0	0
Sibsagar	27·7	+1·5	31·7	23,30	15·6	0	11·7	1	0	31·4	80·4	10·4	8	5	−3·5	6·9	4·7	+0·8	0	8	0	0	0	0	0	0	0	0	0
Gohpur.	28·5	..	33·2	22	12·3	..	7·7	1	0	16·4	..	8·6	7	2	..	7·3	5·3	..	0	3	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	0	5·0	..	3·0	3	1	..	5.6	2·8	..	0	2	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	28·6	..	33·7	22	15·5	..	11·7	1	0	9·7	..	3·8	11	1	..	..	..	..	0	5	0	0	3	0	0	0	0	0	0
Tangla	30·7	..	35·1	30	14·3	..	10·6	22	0	0	..	0	..	0	..	1·5	1·1	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur	29·8	+1·2	35 0	31	18·9	+2·1	15·1	2	·0	11·7	−37·1	6 4	8	2	−2·5	8·2	7·3	+2·0	1	3	0	0	0	0	0	0	0	0	0
Golaghat	29·3	..	35·0	24,27	15.2	..	11 9	1,2	3·0	17·4	..	10·4	11	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Rangia	31·2	..	35·9	31	14.9	..	11.6	9	0	0	..	0	..	0	..	..	(a) 3·4	..	0	0	0	0	0	0	0	0	0	0	0
Chaparmukh	31·9	..	36·7	31	15·6	..	12·2	3	0	17·2	..	9·6	7	2	..	4·3	3·4	..	0	2	0	0	0	0	0	0	0	0	0
Goalpara	31·9	..	36·1	31	15·7	..	12·4	2	2·2	6·0	..	6·0	6	1	..	6·8	4·2	..	0	1	0	0	0	0	0	0	0	0	0
Gauhati	31·7	+1·8	36·7	29	17.0	+1·3	13·4	1	0	12.6	−37·9	10·8	7	1	−2·8	0	0	−3.1	0	3	0	0	1	0	3	0	0	0	0
Gauhati (Bhorjor)	31·6	+1·7	36·7	31	14·6	+0·9	10·2	9	0·2	7·1	−43·4	5·6	7	1	−2·8	10·4	6·5	..	0	2	0	0	2	0	4	0	0	0	0
Dhubri (Rupsi)	31·8	..	36·4	31	14·7	..	10·7	9	3.4	6·6	..	6·6	6	1	..	9·0	5·0	..	0	1	0	0	1	0	0	0	0	0	0
Dhubri	31·9	+1·9	37·3	31	17·9	+0·6	14·9	9	4·6	6·6	−35·6	4·6	5	1	−1·5	8·2	5·6	−1·6	0	2	0	0	0	0	0	0	0	0	0
Lumding	32·2	+2·1	36·7	28,31	17·5	+2·9	14·9	2,9	5·6	8·6	−37·1	4·6	13	2	−2·3	5·8	2·8	..	0	3	0	0	0	0	0	0	0	0	0
Tura	30·8	..	34·9	31	16·4	..	12·1	4	3·2	8·2	..	8·2	6	1	..	9·7	6·1	..	0	1	0	0	0	0	0	0	0	0	0
Haflong	27·4	..	31·7	31	16·7	..	11·7	3	4·8	8·6	−99·9	4·8	8	2	−5·2	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram)	31·7	..	36·7	31	16·5	..	12·3	1	0	3·3	..	2·1	7	1	..	9.1	9.5	..	1	1	0	0	1	0	0	0	0	0	0
Silchar	29·7	−0·6	34·1	29	15 6	−0·6	13·8	2,8,9	0	10·3	−160·9	10·8	11	1	−7·1	4·6	1.8	−1·3	0	1	0	0	1	0	0	0	0	0	0
Imphal (Tulihal)	27·6	0·8	31·7	31	10·6	+0·2	6 0	1	0·9	3·1	−48·1	3.0	7	1	−2·9	16·0	8·0	+0.4	1	1	0	0	0	0	0	0	0	0	0
Kailashahar	32·8	..	37·7	31	16·2	..	11·9	2	0	9·2	..	8·0	11	1	..	5·0	2·1	..	0	2	0	1	2	0	0	0	0	1	0
Agartala	34·1	+1·5	38·9	31	17·4	−1·1	12·1	8	0	8·4	−63·8	8·4	11	1	−3 0	11·1	6.7	−0.1	0	1	0	0	2	1	0	0	0	0	0
Sub-Himalayan West Bengal																														
Bagdogra	29·9	−0·4	33·3	27.30	13·6	−1·7	10·2	9	4·8	9·0	−23·8	5·4	6	2	−0·5	13.6	9.7	+2·8	0	3	0	0	2	3	0	0	0	0	0
Jalpaiguri	28·0	−1·6	32·2	31	16·5	+0·8	12·8	8	5·0	10·4	−21·9	9·6	6	1	−1.3	9 7	6·2	+3·3	0	2	0	0	0	1	0	0	0	0	0
Cooch Behar	30·5	..	34·9	31	15·5	..	11·2	9	8·8	10·4	−31·3	9·8	6	1	−1·5	8·6	4·8	..	0	2	0	1	2	2	0	0	0	1	0
Balurghat	33·5	..	37·6	30	15·6	..	10.6	9	0·7	3·5	..	3·5	6	1	..	8.9	5·7	..	0	1	0	0	0	0	0	0	0	0	0
Malda	32·9	+0·6	37·2	28,30	17·2	+0·8	12·1	1	0	0	−19·6	2·0	6	0	−1·3	13·3	7·9	+1·9	0	1	0	0	2	0	0	0	0	0	0
Gangetic West Bengal.																														
Berhampore	33·7	+0 3	37·7	29	16·1	−2·4	12·3	1	2·0	2·0	−24·4	2·0	10	0	−1·9	6·7	(a) 3·2	−0·3	0	1	0	0	0	0	0	0	0	0	0
Suri	34·2		38·7	29	19·2	..	14·9	1	..	2·2	..	2·2	6	0	..	..	9·3	..	0	1	0	0	0	0	0	0	0	0	0
Asansol	33.6	−0·7	37·7	29	19·3	+0 5	14·6	7	0	2·0	−18·8	2·0	6	0	−1·8	13.9	8·4	+1·6	0	1	0	0	0	0	0	0	0	0	0
Shanti Niketan	34·4	..	38·9	31	18·5	..	14·1	1	0·8	0·8	..	0·8	11	0	..	10·6	8·5	..	0	1	0	0	1	0	0	0	0	0	0
Krishnanagar	35·4	+1·7	39·4	31	18·3	−0·4	13·3	8	0	2.0	−33·6	2·0	6	0	−2·1	4·5	2.5	−2.2	0	1	0	0	0	0	0	0	0	0	0
Purulia	33.0	−0·9	37·3	31	19·5	−0·5	14 3	8	0	2·8	−16·4	2·8	6	1	−1.0	8·3	5·4	+0·8	0	1	0	0	1	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	10.0	−17·7	10·0	6	1	−0.9	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Burdwan	34.9	+0·8	40·7	31	19·7	0	15·2	8	0	1·0	−39·6	1·0	6	0	−2·3	7·3	4·1	+0·9	0	1	0	0	0	0	0	0	0	0	0
Barrackpore. (Aerodrome)	34·3	..	38·1	31	18·7	..	14 0	8	0	4·1	..	4·1	6	1	..	..	..	..	0	1	0	0	1	4	0	0	0	0	0
Calcutta (DumDum)	34·8	+1·1	38·5	31	19·1	−1·4	14·5	8	0	0·6	−28·5	0·6	7	0	−2·5	7·7	4·6	−4·0	0	1	0	0	0	6	0	0	0	0	0
Calcutta	35·1	+1·5	39·4	31	21·2	+0·8	17·2	2,8	2·3	2·3	- 32·2	2·3	7	0	−2·3	9·5	5·5	−0·1	0	1	0	0	2	2	0	0	0	0	0
Midnapore	35·3	+0·2	39·5	20	20·7	−0·1	17·2	2	0	7·9	−27·9	7·9	11	1	−1·4	8·7	5·4	+1·2	0	1	0	0	1	0	0	0	0	0	0
Contai	33·5	+1·0	38·9	30	21·2	−1·0	17.8	2	2·6	2·6	−12·9	2·6	10	1	−0·4	13·0	8·3	−2.6	0	1	0	0	0	3	0	0	0	0	0
Sagar Island	31·8	+1·5	37·5	29	23·7	+0·3	18·7	2	2·0	6.5	−26·3	4·5	7	1	−0·8	17·5	16.4	+1·0	0	2	0	0	1	1	0	0	0	0	0
Sand heads	30·0	..	36·4	31	24·7	..	18.2	21	10·0	10·1	−10·7	10·1	10	1	0	..	..	..	0	1	0	0	2	0	0	0	0	0	0
Orissa																														
Baripada	35·9	..	40·5	29	19·7	..	15·9	2	0·2	2·5	..	2.2	10	0	..	6·6	3·5	..	0	2	0	0	0	17	0	0	0	0	0

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Orissa—(*Contd.*)																														
Jharsuguda	34·6	−0·2	40·2	31	18·7	+0·1	13·8	8	0·9	6·6	−24·4	6·4	10	1	−1·5	9·8	7·0	−0·1	1	1	0	0	5	0	0	0	0	0	0
Keonjhargarh	32·3	..	37.1	31	18·7	..	14·6	2	62·3	66·9	..	45·2	10	2	..	6·7	4·7	..	0	2	0	0	0	0	0	0	0	0	0
Balasore	34·4	+0·7	39·2	20	20·7	−0·1	17·9	1	5·4	11·2	−35·5	9·0	10	1	−1·9	(a) 11·0	(a) 7·2	+0·9	1	2	0	0	4	2	0	0	0	0	0
Sambalpur	34·6	−0·8	40·1	31	18·8	−0·5	13·4	3	0	2.6	−19·2	2·6	10	1	−0·7	5·7	3.4	−0·6	0	1	0	0	0	2	0	0	0	0	0
Angul	35·0	−0·4	39·8	31	20·6	+0·5	16·1	1	0	22·0	+3·5	21·0	10	1	−0·7	7·8	5.9	−0·7	0	2	0	0	2	0	0	0	0	0	0
Cuttack	35·9	0	40·6	29	21·8	−0·3	19·4	5	40·2	69·0	+42·2	48·4	10	2	+0·6	8·0	5·3	+1·4	0	2	0	0	0	0	0	0	0	0	0
Chandbali	34·1	−0·1	38·3	28	20·6	−0·9	16·7	5	71·4	77·9	+45·1	72·5	10	2	−0·1	12·3	8·7	−1·0	0	3	0	0	0	0	0	0	0	0	0
Bolangir	34·8	..	39·9	31	21·2	..	15·6	2	2·2	12·4	..	10·0	10	1	..	6·6	6·3	..	1	2	0	0	1	0	0	0	0	0	0
Phulbani	33·2	..	37·8	31	15·3	..	9·8	3	7·8	9·4	..	7·8	13	1	..	5·3	3·2	..	0	2	0	0	1	0	0	0	0	0	0
Titlagarh	36·1	..	40·2	29	20·9	..	16·1	14	0	5·7	..	5·7	11	1	..	4·4	3·5	..	0	1	0	0	0	0	0	0	0	0	0
Bhubaneswar	34·6	−0·5	39·5	31	21·6	−0·7	15·9	12	19·7	65·5	+48·7	33·9	10	3	+1·7	15·6	10·7	−6·4	0	3	0	0	4	3	0	0	0	2	0
Puri	30·2	0	35·0	17	24·0	−0·2	20·2	1	0	0	−12·7	0	..	0	−0·9	(a) 20·0	(a) 16·9	−0·2	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	30·8	+0·2	39·9	30	21·9	−0·8	18·6	16	0	17·6	+1·6	17·6	11	1	−0·1	16·7	13·2	−2·6	0	1	0	0	4	0	0	0	0	0	0
Koraput	(g) 29·0	−2·6	..	..	(g) 18·3	+0·7	..	..	0	0	−17·7	0	..	0	−1·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bihar Plateaus																														
Dumka	33·6	+0·4	38·0	21	17·3	−0·1	12·7	9	1·5	2·3	−20·8	2·3	6	0	−1·6	5·8	3·5	+0·4	0	1	0	0	1	0	0	0	0	0	0
Daltonganj	30·7	−2·2	37·1	31	15·2	−0·3	9·0	1	0	5·0	−12·0	5·0	5	1	−0·6	7·3	4·4	−0·1	0	1	0	0	1	0	0	0	0	0	0
Hazaribagh	29·7	−1·2	33·5	29	16·3	−1·0	10·0	1	2·1	6·1	−17·8	5·7	6	1	−0·9	13·3	8·6	−1·7	0	2	0	0	1	0	0	0	0	0	0
Dhanbad	33·1	..	37.0	29, 30	19·1	..	13·6	8	0	2·4	..	2·4	6	0	..	9.0	6·7	..	0	1	0	0	1	0	0	0	0	0	0
Ranchi	30·4	−0·1	34·2	31	16·4	−1·0	10·9	7	10·0	29·0	−1·2	29·0	6	1	−1·5	5·2	4·0	−3·4	0	1	0	0	1	0	0	0	0	0	0
Ranchi Aerodrome	30·1	..	34·4	31	17·0	..	11·3	7	..	25·4	..	18·4	6	2	..	(j) 13·5	9·7	..	0	2	0	0	2	0	0	0	0	0	0
Jamshedpur	34.8	+6.4	38·9	31	18·3	+0·1	14·4	8	0·2	5·7	−12·6	5·0	6	1	−1·0	8·1	5·4	+1·1	0	2	0	0	2	0	0	0	0	0	0
Jamshedpur (P.B.O.)	33·9	..	38·2	31	17·9	..	13·6	8	0·8	7·4	..	6·6	6	1	..	9·9	6·0	..	0	2	0	0	3	0	1	0	0	2	0
Chaibasa	34·4	−0,2	38.8	31	19·1	+0·3	13·6	8	0	1·4	−20·7	1·4	10	0	−1·7	6·3	4·0	+0·8	0	1	0	0	0	0	0	0	0	0	0
Bihar Plains																														
Motihari	(l) 25·9	−5·5	..	..	(k) 15·0	+0·5	..	..	(j) 0·6	(k) 0·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Forbesganj	31·8	..	36·5	30	14·7	..	11·1	1	6·8	11·8	..	7·6	6	2	..	13·0	7·7	..	0	2	0	0	2	0	0	0	0	0	0
Darbhanga	30·9	−0·7	35.8	30	15·7	−0·1	11·7	1	0	6·2	−6·7	6·2	5	1	−0·1	6·3	4·8	+0·5	0	1	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	−9·7	0	..	0	−0·9	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chapra	31·6	..	36·9	31	16·5	..	11·9	4	3·8	11·0	+1·9	7·6	5	2	+1·1	10·8	7·3	..	0	2	0	0	1	0	0	0	0	0	0
Purnea	31·9	0	36·6	30	15·4	+0·2	9·4	1	8·6	15·8	+3·1	11·8	6	2	+0·9	11·8	6·2	+1·7	0	2	0	0	2	0	0	0	0	0	0
Patna	31.8	−0·3	36·1	31	18·1	+0·2	11·9	7	1·8	8·4	−2·3	6·6	5	1	−0·1	9·2	9·3	+3·7	0	2	0	0	0	0	0	0	0	0	0
Patna Aerodrome	31·5	..	36·2	31	16·1	..	11·1	7	0·7	7·3	..	6·6	5	1	..	15·0	7·9	..	0	2	0	0	1	1	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	6·0	−3·7	6·0	5	1	+0·1	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Bhagalpur	32·1	−0·9	36·4	30	19·1	0	14·4	2	4·3	5·1	−0·5	4·3	6	1	+0·3	17·7	11·3	+3·6	0	2	0	0	1	1	0	0	0	0	0
Sabaur	31·7	−0·9	36·2	30	14·7	−0·4	9.2	1	5·0	6·2	−4·5	5·0	6	1	+0.1	15·4	8·1	−0·3	0	2	0	0	1	0	0	0	0	0	0
Jamui	33·1	..	37·1	29,30	17·9	..	10·0	8	1·8	11·4	..	6·6	6	2	..	9·8	10·5	..	0	2	0	0	1	1	0	0	0	0	0
Dehri	32·2	..	36·5	31	18·7	..	13·2	9	0	17·2	+6·0	17·2	5	1	0	10·5	6·8	..	0	1	0	0	0	1	0	0	0	0	0
Gaya	32·7	−0·5	36·9	29,30	15·8	−1·5	10·1	9	0·8	10·9	−1·6	9·0	5	1	−0·2	14·6	9·5	+1·9	0	2	0	0	2	1	0	0	0	0	0
Uttar Pradesh (East)																														
Kheri (R)																														
Bahraich	30·8	−0·7	37·2	31	15·2	+0·3	11·1	1	0	20·2	+10·3	20·2	5	1	+0·2	11·2	6·9	+2·4	0	1	0	0	2	0	0	0	0	0	0
Nautanwa	30·5	..	36·5	31	14·6	..	11·1	1	60·9	84·0	..	74·8	6	2	..	7.5	4·8	..	0	3	0	1	0	0	0	0	0	0	0
Hardoi	30·4	−1·6	36·7	31	15·3	−0·4	11·1	2	0·6	17.8	+0·3	17·8	5	1	−1·0	..	..	..	0	1	0	0	2	1	0	0	0	0	0
Gonda	30·8	−1·4	37·4	31	15·5	+0·4	11·1	1	2·2	5·0	+0·4	5·0	5	1	+0·2	10·3	7·5	+1·1	0	1	0	0	2	0	0	0	0	0	0
Lucknow	31·2	−1·5	37·0	31	14·8	−1·1	10·2	8	0	0	−8·6	0	..	0	−0·9	5·4	5·1	+1·4	0	0	0	0	2	0	0	0	0	0	0
Lucknow (Amausi)	31·4	−0·9	37·4	31	13·9	−0·2	9·2	8	0	1·7	−6·9	1·7	5	0	−0·9	14·6	9·4	..	0	1	0	0	1	1	0	0	0	2	0
Faizabad	30·6	..	36·8	31	15·3	..	10·7	8	4·8	7·4	..	5·6	5	1	..	8·2	4·8	..	0	2	0	0	2	1	0	0	0	0	0
Gorakhpur	32·3	+0·1	38·2	31	16·3	0	11·5	1	1·8	4·2	−5·7	4·2	5	1	+0·2	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Kanpur	31·2	−0·7	37·1	31	16·1	+0·5	10·9	8	0	0	−7·4	0	..	0	+0·8	17·6	11·5	+1·8	0	0	0	0	3	0	0	0	0	0	0
Kanpur (Aerodrome)	31·5	..	37·9	31	15·7	..	9·9	7	0	3·8	..	3·8	19	1	..	..	..	..	0	1	0	0	1	0	2	0	0	1	0
Sultanpur	31·7	..	37·3	31	17.0	..	12·4	8	0	0	..	0	..	0	..	9·6	7·0	..	0	0	0	0	1	0	0	0	0	0	0
Azamgarh	32·5	..	38·4	31	14·5	..	9.5	7	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	32·0	−0·9	38·0	31	16·3	+0·6	10·8	8	0	0	−7·1	0	..	0	−0·9	11·0	6.3	+0·8	0	0	0	0	2	0	0	0	0	0	0
Ballia	33·2	..	40·0	31	16·9	..	11·8	2	0	7·4	..	7·4	5	1	..	4·3	1·9	..	0	1	0	0	0	0	0	0	0	0	0
Banda	32·8	..	36·0	19.31	15·7	..	11·3	7	0	0	..	0	..	0	..	6·2	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli)	33·2	0	38·7	31	16·7	+0·6	11·3	8	4·8	5·8	−8·4	5·8	5	1	−0·3	12·6	4·5	−1·6	0	1	0	0	1	0	0	0	0	0	0
Varanasi (Babatpur)	32·4	−0·9	37·7	31	16·0	−0·9	11·0	2	3·4	8.1	−5·3	8·1	5	1	−0·4	18·3	12·2	+1·9	0	1	0	0	2	0	0	0	0	0	0
Varanasi	32·2	−0·9	37·4	31	17·3	+0·9	11·7	10	1·0	10·2	+0·8	10·2	5	1	−0·1	11·1	6·5	+0·9	0	1	0	0	0	0	0	0	0	0	0

(g) Mean of 24 days. (k) Mean of 20 days. (j) Mean of 21 days. (R) Register not received. (a) Mean of 30 days. (l) Mean of 18 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830–1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830–1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation 0·1 and 0·2 mm	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28
Uttar Pradesh (West)																												
Mukhim (R)																												
Tehri (R)																												
Dehra Dun	25·8	−0.5	31·1	31	11·1	−1·2	5·3	6	19·3	49·0	+17.0	13.3	5	2	−0.7	5·8	4·4	+1.0	0	2	0	0	1	0	0	0	0	0
Mussiari (R)																												
Roorkee	27.7	−1·1	34 4	31	13·1	+0·3	9·1	6,7	12·1	29.7	+9 9	22.6	5	2	+0·4	8·5	5·3	+1·8	0	3	0	0	2	0	0	0	0	0
Najibabad	28·2	..	34·4	31	12 6	..	5·6	6	7·0	71.6	..	65 8	5	2	..	5·6	4·0	..	0	2	0	0	2	0	0	0	0	0
Meerut	29 1	−0·8	35·6	31	14·4	+0·1	10.5	6,7	0	0	−15 2	0	..	0	−1·4	..	2 3	..	0	0	0	0	0	1	0	0	0	0
Bareilly	30·2	−0·4	36·8	31	5·4	+0.6	11·6	6.7	0	5·0	−10·5	5·0	5	1	−0·3	13·5	9·3	+5·3	0	1	0	0	2	0	0	0	0	0
Aligarh	30·6	+0.5	36·6	31	14	−0·3	9·5	6.7	0 6	5·6	−8.9	2.6	27	1	−0·3	16.5	12 1	+5.2	1	3	0	0	2	0	0	0	0	0
Mainpuri	31·6	−0·6	37·8	31	15·1		10·2	11	0	13·5	+4·9	7·1	27	2	+1·2	..	.	..	0	2	0	0	1	0	1	0	0	0
Agra	30·8	−0·3	37·1	31	15·9	+1·3	11·0	6.7	0	12.2	+4.1	8.2	5	2	+1 2	5·7	4 4	−1.6	0	2	0	0	0	0	1	0	0	0
Agra (Aerodrome)	31·3	..	37·9	19,20	14·5	..	9·8	7.8	1·0	8·4	..	5·4	5	2	..	..	..	..	0	2	0	0	3	0	0	0	0	0
Orai (R)																												
Jhansi	33·2	−0·4	39·0	31	17·7	+1.0	11 0	2	0	0	−8·4	0	..	0	−0·8	5.4	4·0	−1.1	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																												
Pathankot	25.7	−1·4	31·3	31	12·0	−1·5	6 7	6	46 9	76.7	+21 3	43.7	5	2	+1·9	9·6	7·6	−1·2	0	3	0	0	4	0	0	0	0	0
Amritsar Rajasansi	26.2	−1·1	32·0	31	11·8	+0·4	7·5	9	1.6	26.8	+0 4	20.4	4	2	−0·2	9 7	7·5	−1·7	0	3	0	0	5	0	0	0	0	3
Adampur Aerodrome (R)																												
Ludhiana	27·4	−1·0	35·8	31	12 4	−1.1	7·9	6	30·6	44 5	+29.6	33.6	5	2	+0.2	7 9	5.3	+2·1	0	4	0	0	0	0	0	0	0	0
Ferozepur	26·8	..	34·1	31	12·1	..	8·1	6	1·2	74 0	..	56·4	4	3	.	5 5	3 6	..	0	5	0	0	0	3	0	0	0	0
Halwara (Aerodrome)	26·2	..	34·4	31	11·3	..	7·3	8	6·4	34.8	..	15.3	5	4	..	..	..	..	0	5	0	0	1	5	0	0	0	0
Chandigarh	27·4	−1·2	34·1	31	14·3	0	8·2	6	45·8	59.6	+33.4	49.2	5	3	0	9·5 (e)	6 2	..	0	3	0	0	0	1	0	0	0	0
Ambala	28.1	−1.0	35·3	31	14·4	+0.8	10 0	2	50·0	53.4	+29·5	52.0	5	1	−0·8	7·6	6·3	+0·3	0	3	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	27·4	..	34·2	31	12·3	..	7·5	8	59·5	68·0	..	60.1	5	2	..	..	..	..	0	3	0	1	3	0	0	1	0	0
Patiala	27·7	..	35·7	31	14·0	..	9·5	6	33.6	60·4	+43.6	14.2	5	4	+2 3	11.4	10 4	..	0	4	0	1	3	0	0	0	0	0
Bhatinda	28·6	..	35·6	31	13.1	..	7·5	6	13.0	21.0	..	8.0	5	3	..	5.0	3 2	..	0	5	0	0	3	0	0	0	0	0
Karnal	27·9	..	35·0	31	12·9	..	8.5	6	6·0	15.0	..	11 0	5	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0
Hissar	29·9	−1.1	36·1	31	14·0	+0·2	8·3	7	5·9	10.4	−5.7	4.9	5	2	+0.5	3.0	7·5	+0·4	1	3	0	0	1	0	0	0	0	0
New Delhi Safdarjang	29·3	−1.3	35·7	31	15·5	+0·7	10·2	6	3·3	8.0	−4.9	7·4	5	1	−0.3	11·5	10.4	−1.0	0	3	0	0	1	1	0	0	0	1
Palam (Aerodrome)	29.5	..	36·6	31	13·2	..	6·7	7	0	1.8	..	1.8	5	0	..	..	..	..	0	1	0	0	2	1	0	0	0	0
Himachal Pradesh																												
Mandi	24·3	−0·8	29.1	30	9.0	−0·5	5·0	9	17.0	50.4	−22.1	34 0	5	2	−5·3	5.1	3·3	+0.1	0	4	0	0	5	2	0	0	0	0
Bilaspur	25·9	..	32.6	31	9.5	..	5.8	6	43.0	60·4	..	65.7	5	1	..	..	..	..	0	3	0	0	4	3	2	0	0	0
Jammu and Kashmir																												
Misgar (R)																												
Gilgit (R)																												
Skardu (R)																												
Dras*	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	.	..	..	..	..	..	.	..	..	..	..	..	..
Sonamarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh (R)																												
Srinagar	15·8	+2.0	21.6	30	4 0	+1.2	−6·2	10	12 5	29.9	−61·3	19.1	4	4	−3.4	9·9	9.4	+4 3	0	6	0	0	2	0	0	0	0	0
Srinagar (Aerodrome)	15·3	..	21.1	30	3.6	..	0	10	6.9	23·7	..	10.9	4	3	..	..	..	..	0	7	0	0	5	1	0	0	0	0
Gulmarg	Closed during winter Months.																											
Banihal	16.7	..	23·4	30	4·3	..	−1·1	7	80·3	147·5	..	70.6	4	6	..	..	..	..	0	10	2	1	8	0	0	0	0	0
Jammu	24.8	−1·3	27·3	31	8·8	−6·4	8·1	24	..	28·5	−23·1	28·5	4	1	−2·7	..	5·0	..	0	1	..	..	..	..	..	..	..	..
Jammu (Aerodrome)	25·7	..	31·7	31	13·5	..	9·9	9	4·5	20·0	..	17.0	4	2	..	..	..	..	0	3	0	5	0	1	0	0	0	0
Rajasthan (West)																												
Ganganagar	29·5	−0·8	36·1	31	14·1	−0·1	8·4	6	0	21.0	−0.3	13.8	21	2	+0·4	5·8	4·5	−0.6	0	2	0	0	3	0	1	0	0	0
Anupgarh (R)																												
Mahajan	31·6	..	37·0	31	..	..	..	..	0	2·0	..	2·0	5	0	..	4.3	1·6	..	0	1	0	0	0	0	0	0	0	0
Churu	31·3	..	36·5	31	14·0	..	8·1	6	0	3·9	..	3.6	26	1	..	9·7	4.6	..	0	2	0	4	1	1	0	0	0	0
Bikaner	32·4	+0.5	39·9	15	14·6	0	8.0	7	3·8	23·9	+18·1	8·8	26	3	+2.4	6·9	5.4	−1·4	0	3	0	3	0	0	0	0	0	0
Nagaur	31.3	..	35·7	31	15·6	..	8·8	6	0·7	2·7	..	2·0	15	0	..	8·7	8·8	..	0	2	0	0	0	0	4	0	0	0
Phalodi	32·2	..	35·9	30	16·5	..	10.8	6	1·6	15·4	−11·8	5·5	26	3	+2·6	11.6	12·5	..	0	5	0	0	1	0	0	0	0	0
Jaisalmer	32·3	..	36·7	30	16·3	..	8·2	6	0	01.5	..	5·4	16	2	..	8·7	10·0	..	0	4	0	0	0	0	0	0	0	0
Jodhpur	33·5	+1·0	38·2	26	17·9	+1·5	11.7	5	0	19·8	+17·0	19·8	4	1	+0.8	9·5	8.1	−3.0	0	1	0	2	4	0	1	0	0	3
Barmer (R)																												
Munabao	34·9	..	38·2	15	13·7	..	6·5	7	0	4·1	..	3·0	4	1	..	10·6	6·9	..	0	3	0	0	0	1	1	0	0	0
Rajasthan (East)																												
Pilani	31·1	..	30·4	31	13.7	..	8.4	10	2·4	2·4	..	2·4		0	..	11·9	10·1	..	0	1	0	1	0	0	0	0	0	0

(R) Register not received.

*Data not available.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder-heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—(*Contd*).																													
Sikar	30·6	..	35·0	30	13·2	..	6·2	6	0	12·5	..	7·1	26	2	..	7·5	6·9	..	0	3	0	0	0	0	0	0	0	0	0
Alwar	31·1	..	35·5	30,31	15·7	..	10·2	7	0	5·0	..	4·6	27	1	..	4·2	2·4	..	0	2	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	30·9	−0·1	35·1	31	15·5	+0·8	8·4	6	1·0	12·8	+4·2	3·4	4,5	2	+1·1	..	..	..	0	6	0	0	5	0	0	0	0	3	0
Dholpur	32·0	..	38·5	31	14·9	..	9·9	1,2	0	19·0	..	17·2	2	1	..	7·3	4·5	..	0	2	0	0	5	0	1	0	0	0	0
Ajmer	31·3	+0·4	35·6	30	15·7	0	8·1	7	0	16·8	+11·0	14·4	26	1	+0·3	9·9	6·5	+1·4	0	3	0	1	3	0	1	0	0	0	0
Tonk (R)																													
Bhilwara	31·4	..	35·5	31	14·5	..	9·9	7	0	0	..	0	..	0	..	(a) 5·3	4·2	..	0	0	0	0	1	0	0	0	0	0	0
Kota (Aerodrome)	33·0	..	38·1	31	17·9	..	12·4	6	0	2·0	..	2·0	26	0	..	11·4	8·3	..	0	1	0	0	1	0	0	0	0	0	0
Kota	33·5	−0·2	37·4	29	14·1	−4·0	9·0	7,6	0	0	−4·3	0	..	0	−0·5	5·9	4·4	+1·0	0	0	0	0	2	0	0	0	0	0	0
Erinpura (Jawai Dam)	33·1	..	36·3	15	15·8	..	8·3	5	0	1·0	..	1·0	16	0	..	7·0	5·9	..	0	1	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	32·0	..	37·8	31	17·1	..	10·1	7	0	2·0	..	2·0	26	0	..	10·8	6·8	..	0	1	0	0	5	0	0	0	0	0	0
Udaipur	31·3	−0·4	35·3	30	11·7	−1·1	3·1	7	0	29·0	+26·5	26·4	15	2	+1·7	5·3	3·0	..	0	2	0	0	4	0	0	0	0	0	0
Jhalawar	33·2	+0·2	37·8	30	16·5	+0·6	9·3	7	0	6·6	+3·0	6·6	26	1	+0·4	7·0	4·5	−0·3	0	1	0	0	2	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	31·7	−1·7	35·9	31	15·2	−0·7	9·4	7	0·2	20·4	+15·1	13·8	5	2	+1·9	7·7	4·5	..	0	2	0	0	4	0	0	0	0	0	0
Sheopur	32·8	−1·4	37·0	31	15·1	−0·6	9·5	7	0	2·9	−5·9	1·4	5	0	−1·1	9·1	7·1	+0·7	0	3	0	0	3	0	0	0	0	0	[illegible]
Shivpuri	31·1	..	35·3	31	13·2	..	6·3	7	0	2·0	..	2·0	26	0	..	9·1	5·6	..	0	1	0	0	0	0	0	0	0	0	0
Nowgong	32·5	−0·7	38·4	31	13·6	−1·7	8·0	7	3·0	3·0	−4·6	3·0	26	1	+0·2	6·4	3·5	+0·4	0	1	0	0	0	0	1	0	0	0	0
Guna	32·2	−0·2	36·9	30	14·6	−0·5	6·5	7	0·5	3·2	−0·5	2·2	26	0	+0·9	11·3	8·2	..	0	3	0	0	2	0	0	0	0	0	0
Nimach	31·9	−0·7	36·5	31	16·8	−0·6	[illegible]	7	0	[illegible]	+10·1	17·3	15	1	+0·7	10·5	8·2	0	0	2	0	0	3	0	1	0	0	0	0
Rajgarh	33·9	..	38·7	30,31	15·9	..	8·5	7	0	0	..	0	..	0	..	10·2	8·2	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	31·5	−1·2	37·0	31	16·9	−1·2	11·4	7	0	3·0	−3·4	3·0	28	1	+0·1	9·0	7·7	..	0	2	0	0	6	0	0	0	0	0	0
Ratlam	33·7	−0·4	38·2	31	16·8	−1·5	10·7	8	5·4	8·6	+6·4	5·4	15	1	+0·8	10·8	8·9	+1·1	0	3	0	0	2	0	0	0	0	0	0
Bhopal (Bairagarh)	32·5	−0·6	37·6	31	16·1	−0·5	10·5	6	0	7·0	−1·6	4·0	28	1	+0·2	10·6	8·8	−1·0	0	5	0	0	3	0	0	0	0	4	0
Ujjain (R)																													
Narsinghpur	34·2	..	38·6	30	14·5	..	7·8	1	0	6·4	..	3·1	18	1	..	5·2	3·7	..	0	4	0	0	0	0	0	0	0	0	0
Hoshangabad	31·1	−0·1	39·7	31	18·3	−0·1	12·6	10	0	8·7	+2·6	5·8	11	2	+1·4	6·6	5·8	+2·3	0	2	0	0	1	0	0	0	0	0	0
Indore	32·8	−1·3	38·2	31	16·1	+0·9	10·1	7	2·8	5·6	+3·6	3·6	18	1	+0·7	12·7	9·8	..	0	3	0	0	4	0	0	0	0	0	0
Rajpur (Jhabua)	31·5	..	38·0	30	16·6	..	9·4	6	0	9·4	..	6·2	17	2	..	8·5	5·6	..	0	2	0	0	1	0	0	0	0	0	0
Chhindwara	31·9	−1·6	36·2	31	16·6	−0·4	10·4	7	16·3	33·8	+26·5	8·6	13	7	+5·3	4·9	2·7	−3·1	0	9	0	1	10	0	0	0	0	0	0
Seoni	31·5	−1·8	35·5	30	17·1	0	12·2	7	38·8	63·0	+42·9	19·6	13	6	+4·0	11·4	6·6	+1·9	0	9	0	1	8	0	0	0	0	0	0
Betul	32·3	−1·2	36·4	31	16·4	0	9·0	1	11·9	49·1	+33·4	21·5	21	5	+3·4	6·7	5·1	−0·5	0	8	0	2	8	0	0	0	0	0	0
Khandwa	35·5	−0·8	39·6	31	18·2	+0·1	11·3	7	0	8·1	+3·8	3·1	27	1	+0·5	9·9	7·1	+0·5	0	4	0	0	2	0	1	0	0	0	0
Madhya Pradesh (East)																													
Satna	32·5	0	37·7	31	15·9	−0·4	10·9	1	7·0	8·2	−3·2	7·0	5	1	−0·1	6·9	4·7	−0·3	0	2	0	0	3	0	0	0	0	0	0
Sidhi	32·4	..	37·9	31	15·0	..	9·0	8	9·0	9·0	..	9·0	5	1	..	8·0	4·8	..	0	1	0	0	0	0	0	0	0	0	0
Umaria	31·9	−0·5	37·5	31	15·2	0	7·7	8	23·2	48·5	+30·7	21·2	20	3	+1·3	7·0	4·6	−0·1	1	4	0	2	5	0	0	0	0	0	0
Jabalpur	32·9	−0·2	38·2	31	16·6	+1·7	10·2	1	16·4	24·0	+9·8	14·8	5	2	+0·6	6·7	4·3	+1·1	0	7	0	0	7	0	0	0	0	0	0
Ambikapur	30·4	−1·4	35·3	31	15·1	+0·1	9·2	8	0	4·4	−16·1	2·2	10	0	−2·3	11·4	8·5	+0·6	0	4	0	0	3	0	0	0	0	0	0
Pendra	30·2	−0·5	35·6	31	17·1	+0·2	11·8	7	2·0	22·5	−5·2	10·8	20	3	+0·7	10·8	(a) 7·6	..	1	6	0	0	5	0	0	0	0	0	0
Mandla	32·2	−1·5	36·7	30	13·4	−0·7	7·0	7	9·0	57·6	+30·0	21·2	22	4	+1·9	6·0	3·7	+0·7	0	7	0	0	11	0	0	0	0	0	0
Champa	33·8	−1·5	40·0	31	19·5	−0·3	14·3	2	2·6	8·6	−14·1	3·8	10	1	−0·7	7·9	6·5	+0·4	1	5	0	0	4	0	0	0	0	0	0
Raigarh	34·7	−1·0	40·5	31	19·7	−0·5	15·3	2	0	1·6	−19·4	1·6	10	0	−2·1	4·2	3·3	−1·5	0	1	0	1	1	0	0	0	0	0	0
Raipur	34·3	−0·8	38·7	30	20·4	+0·4	15·6	7	12·4	26·2	+8·2	12·4	23	3	+1·3	8·2	6·4	−0·4	0	4	0	0	5	0	0	0	0	0	0
Kanker	33·9	−0·3	38·5	30	19·6	+1·0	13·4	1	0	6·2	−15·4	6·2	13	1	−1·1	8·3	5·5	+0·4	0	1	0	0	1	0	0	0	0	0	0
Jagdalpur	34·3	−0·3	38·6	31	18·8	+0·5	14·2	2	0·4	1·2	−12·3	0·9	14	0	−1·2	6·7	4·0	..	0	2	0	0	3	0	0	0	0	0	0
Gujarat Region																													
Deesa	34·5	..	37·8	15	16·9	..	9·9	6	0	7·0	..	7·0	16	1	..	10·3	7·9	..	0	1	0	0	0	0	0	0	0	0	0
Radhanpur	34·6	..	38·4	15	16·3	..	9·2	5	0	0·2	..	0·2	16	0	..	8·8	6·5	..	1	0	0	0	0	0	0	0	0	0	0
Idar	34·3	..	37·7	30	20·1	..	14·2	7	0	3·0	..	3·0	16	1	..	9·8	7·9	..	0	1	0	0	2	0	0	0	0	0	0
Ahmadabad	35·3	−0·8	38·7	25	18·2	+0·2	12·6	6	0	0·4	−0·9	0·4	16	0	−0·2	9·2	5·9	−1·7	0	1	0	0	3	0	0	0	0	1	0
Dohad	33·9	−1·2	38·0	30	18·4	−0·6	13·0	7	0	7·2	+5·6	3·6	16,17	2	+1·9	..	..	..	0	2	0	0	5	0	0	0	0	0	0
Baroda (Aerodrome)	35·7	..	39·4	15	17·5	..	12·1	8	0	10·0	..	10·0	17	1	..	7·8	5·8	..	0	1	0	0	1	0	0	0	0	0	0
Baroda	36·1	−0·6	39·4	16,25	17·7	+1·0	11·7	7	0	8·6	+7·7	8·6	17	1	+0·9	4·9	3·3	−0·7	0	1	0	0	1	0	0	0	0	0	0
Broach	37·1	−0·5	40·6	14	19·0	−0·8	13·2	7	0·5	1·5	−0·1	1·0	26	0	−0·1	6·2	6·1	−0·6	0	2	0	0	0	0	0	0	0	0	0
Surat	36·0	+0·4	40·1	16	18·7	−0·7	13·6	6	0	0·2	−0·1	0·2	26	0	−0·1	7·9	7·2	+1·9	1	0	0	0	2	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimasar	34·5	.	38·8	15	19·3	..	12·4	10	0	0	..	0	..	0	..	(d) 11·9	(d) 11·1	..	0	0	0	0	0	0	0	0	0	0	0
Naliya	32·1	..	38·4	15	15·0	..	9·0	5	0	3·8	..	0	..	0	..	11·0	5·9	..	0	0	0	0	0	8	0	0	0	0	0
Bhuj (Rudramata)	34·8	+1·0	39·2	15	16·7	−1·2	10·3	6	0	0	1·0	3·8	22	1	+0·8	10·6	8·6	1·1	0	1	0	0	3	0	0	0	0	0	0

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(*Contd.*)																													
Kandla	34·1	..	39·0	15	17·2	..	10·9	8	0	0	..	0	..	0	..	(m) ·6	18·3	..	0	0	0	0	1	0	0	0	0	0	0
New Kandla	31·6	..	37·3	15	19·9	..	15·8	6	0	0	..	0	..	0	..	2·7	13·9	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi . .	28·4	−1·4	33·6	14	17·9	−0·7	13·3	7	0	0	−0·7	0	..	0	−0·2	22·9	19·2	−1·1	0	0	0	0	0	0	0	0	1	0	0
Surendranagar	35·3	−0.9	38·9	16	19·7	−0·2	14.1	5,6	0	0	0	0	..	0	0	12·0	11·3	−1·1	0	0	0	0	2	0	1	0	0	0	0
Jamnagar (Aerodrome).	32.4	−0·8	38·2	15	17·6	+0·7	11.7	6	0	0	−2·0	0	..	0	−0·1	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Dwarka . .	27·8	−0·1	34.5	15	20·7	−0·7	16·4	5	0	0	−2·8	0	..	0	−0·2	17.0	14·6	−0·5	0	0	0	0	0	1	0	0	0	0	0
Rajkot . .	34·4	−1.3	39·1	15	17·0	−0·4	9.6	6	0	4·2	+2·9	4·2	15	1	+0·8	15 7	14·3	−2·3	0	1	1	0	2	2	0	0	0	0	0
Bhavnagar (Aerodrome).	34·5	+0·2	38·2	15	19·3	0	11.9	6	0	0·4	−2·4	0·4	17	0	−0·2	20·8	15·7	+1·8	0	1	0	0	1	0	0	0	0	1	0
Porbander (Aerodrome).	31·7	..	36·3	14	17·9	..	12·7	5	0	0	..	0	..	0	..	19·0	14·1	..	0	0	0	0	0	4	0	0	0	0	0
Porbander . .	29·0	−2·5	34·1	1	19·5	−1·0	16.2	1, 5	0	0	0	0	..	0	0	15·2	13·1	−0 6	0	0	0	0	0	3	0	0	0	0	0
Keshod . .	35·0	..	38·2	15	16·7	..	11·6	6	0	0	..	0	..	0	..	17·7	15·2	..	0	0	0	0	0	2	0	0	0	0	0
Mahuva .	33·8	..	36·8	25,26	..	..	..	..	0	0	..	0	..	0	..	17.3	(a) 10·0	..	0	0	0	0	0	0	0	0	0	0	0
Veraval . .	30.7	..	35·0	19	17.4	..	12.9	6	0	0	−1·3	0	..	0	−0·1	21·8	17·5	..	0	0	0	0	0	1	0	0	0	0	0
Konkan																													
Dahanu . .	39·8	−0·4	34·8	15	20·4	−0·2	16 4	8	0	1·9	+1·8	1·9	15	0	0	20 8	13·5	−0 1	0	1	0	0	0	0	0	0	0	0	0
Bombay (Santacruz).	32·0	+0·8	37·0	15	19·9	+1·0	16·3	8	0	0	−1 3	0	..	0	0	15·4	9·8	..	0	0	0	0	0	0	0	0	0	0	0
Bombay	31·1	+1·0	33·2	15	22·3	+0·1	19·5	8	0	0.4	−0 9	0·4	14	0	−0·1	11·5	8·0	−3·6	0	1	0	0	0	0	0	0	0	0	0
Alibag . .	29·5	−0·2	33·2	20	20·9	+0·1	17·5	7, 8	..	0	−0·5	0	..	0	−0·1	..	10·4	+0·7	0	0	0	0	0	0	0	0	0	0	0
Harnai . .	28·0	−1·0	30·4	30	23·5	−0·5	20·1	·9	0	0	0	0	..	0	0	(a) 23·1	(a) 18·5	+3·0	0	0	0	0	0	0	0	0	1	0	0
Ratnagiri . .	30 6	..	32·7	3	23·0	..	19·5	9	0	0	−0·8	0	..	0	−0·1	12.4	7·5	..	0	0	0	0	0	1	0	0	0	0	0
Devgarh .	30·5	−0.4	31·9	19	23·0	−0·9	20·0	9	0	0	−1·1	0	..	0	−0·1	22.2	17·0	+2·0	0	0	0	0	0	0	0	0	0	0	0
Vengurla . .	31·8	−0·3	36·7	2	20·9	−0·8	18·2	8	0	0	0	0	..	0	0	12·6	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Maharastra																													
Nandurbar . .	36.6	..	40.4	31	..	..	..	..	0	1·4	..	1·4	26	0	..	7·7	7·1	..	0	1	0	0	0	0	0	0	0	0	0
Jalgaon . .	36·7	−1·0	42·2	31	18·3	−0·5	11·9	8	7·2	32·7	+29·1	8·1	25	6	+5·6	12·5	11.6	+1·9	1	6	0	0	8	0	0	0	0	0	0
Malegaon . .	35·8	−0·6	40·3	31	17·3	+0·2	10.0	6	0	1.0	−1·0	1 0	25	0	−0·3	9·1	7·5	−0·7	0	1	0	0	2	0	0	0	0	0	0
Deolali (Aerodrome)	25·2	..	39·3	31	15·7	..	8·9	8	2·5	13·2	..	9.7	17	2	..	10·2	7·3	..	0	2	0	0	3	0	0	0	0	0	0
Ahmadnagar .	35·8	+0.6	39·7	31	18·0	+0·7	13·2	9	2.1	12.7	+7.4	8·4	20	2	+1·7	9·5	8·0	−0·5	0	2	0	0	0	0	0	0	0	0	0
Khandala . .	..	..	..	..	..	..	..	..	..	0	0	0	..	0	0	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	34·8	..	38·8	31	..	..	..	..	1.0	34·3	..	22·1	17	3	..	..	..	..	0	5	0	0	5	0	0	0	0	0	0
Poona . .	35·7	−0.4	39·4	31	17·1	+0·6	9·7	9	5·0	13·5	+12·0	6 8	17	2	+1·8	4·8	3·3	−4·9	3	2	0	0	3	0	0	0	0	2	0
Jeur . . .	36·8	−0·1	39·9	31	19·5	+1·1	12·0	9	0	7·0	+5·0	7·0	20	1	+0·7	10·9	8·4	+0·5	0	1	0	0	4	0	0	0	0	0	0
Baramati . .	36·1	−0·4	40·0	31	18·6	+0·1	10·8	9	0	0	−2·6	0	..	0	−0·5	9·1	9·2	+0·4	0	0	0	0	5	0	0	0	0	0	0
Sholapur . .	38·8	−0·5	39·9	29	22·0	+1·3	16·0	1	0·2	1 4	−4·4	0·6	28	0	−0·5	10·9	9·2	0	0	3	0	0	1	0	0	0	0	0	0
Miraj . .	36.2	−0·9	38·8	31	19·1	+1·0	13·9	9	0	6·8	+3·0	6·8	20	1	+0·3	..	..	..	0	1	0	0	4	0	0	0	0	0	0
Kohlapur . .	35·9	0	39·4	31	19·0	+0·1	14·9	11	0	5·6	−4·1	5·6	19	1	+0·3	11·1	10 1	−0·5	0	1	0	0	1	0	0	0	0	0	0
Marathwada																													
Aurangabad .	35·2	−0·3	38·6	31	19·5	+0·1	14·4	1	1·4	33 8	+28.7	13·4	27	3	+2·5	9.2	8·5	−1·5	1	6	0	0	5	0	0	0	0	0	0
Aurangabad (Chikalthan)	34·6	..	38·4	20	..	..	9·9	1	3·6	28·4	..	13·7	20	2	..	11·7	9·1	..	0	5	0	0	7	0	0	0	0	0	0
Parbhani . .	36·3	−0·6	39·8	31	20·2	+0·1	15·0	1, 2	0·4	1·6	−5·6	1·2	20	0	−0·6	10·3	8·5	+0 8	0	2	0	0	2	0	1	0	0	0	0
Nander . .	37·6	..	40·4	29	20·6	−0·3	14·8	1	0	0	..	0	..	0	..	(b) 8·0	(c) 6·0	..	0	0	0	0	0	0	0	0	0	0	0
Bir . . .	36·0	..	38·9	29, 30	18·5	−0·5	12·0	1	3·0	13·0	..	9.0	20	2	..	8·5	5·7	..	0	3	0	0	4	0	0	0	0	0	0
Vidarbha																													
Gondia . .	34·0	−0·9	38·5	30	19·9	+0·5	14·5	1,2,7	1·4	19·6	+2·2	9·6	21	3	+1·0	6·5	4·3	+0·1	1	3	0	0	3	0	0	0	0	0	0
Nagpur (Sonegaon)	35·1	−1·4	38·9	30	18·9	−0·3	13·1	7	0.8	12·6	−2·6	2·5	13	1	−0·5	11·7	10·6	..	0	7	0	0	10	0	0	0	0	6	0
Amravati . .	35·4	−1·0	39·2	29	20·3	−0·5	18·0	1	0	30·2	+21·3	8.8	19	4	+3·2	11·8	10·9	+4·1	0	7	0	0	10	0	0	0	2	0	0
Akola	35·8	−1·3	39·6	29	18·8	+0·1	13·8	1	6 6	41·1	+32·0	9·4	21	8	+7·3	7·6	6·5	+0·7	1	9	0	0	1	0	0	0	0	0	0
Brambapuri .	35·2	..	38·9	30	18·3	..	10·8	2	0	15.0	..	8·3	23	2	..	8·0	5·7	..	0	3	0	0	6	0	4	0	0	0	0
Buldhana . .	33·2	−1·0	37·0	31	18·9	−2·7	15·4	6	0·3	22·2	+15·9	20·0	29	1	+0·3	8·6	8.5	−0·6	0	3	0	0	0	0	0	0	0	0	0
Yeotmal . .	34·9	−1·2	38·3	29	20·7	−0·7	15·0	20	22·6	47·3	+28·1	22·6	23	6	+4·3	12.3	11·1	+0·8	0	7	0	2	5	0	1	0	0	0	0
Chanda . .	36·0	−1·1	39·6	30	20·8	+1 4	13·3	1	0	15·0	−4·6	11·8	9	2	+0·8	7·6	5.9	+2·0	0	2	0	0	6	0	0	0	0	0	0
Pusad . .	36·8	..	39·9	4 days	20·2	..	12·8	1	14·0	24·0	..	14·0	21	2	..	9·6	7·2	..	0	2	0	0	0	0	0	0	0	0	0
Sironcha . .	36.7	−0·7	40·6	31	21·8	−1·4	15·4	1	0	0	−16·6	0	..	0	−1·1	7·6	5·6	+0·1	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	32·9	+0·3	36·8	31	23·0	+0·3	20·6	16	0	0	−11·2	0	..	0	−0·6	12.9	9·5	−0·6	0	0	0	0	1	0	0	0	0	0	0

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean for 28 days. (m) Mean of 18 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1700 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*Contd.*																													
Vishakhapatnam	34·1	−0·2	37·9	31	20·0	−0·7	17·5	16	0	0	−11·9	0	..	0	−0·8	9·8	8·5	+0·3	0	0	0	0	0	0	0	0	0	0	0
Kakinada	34·7	+1·5	38·1	31	22·5	−0·6	20·6	5	0	0	−12·2	0	..	0	−0·7	11·7	8·6	−1·4	0	0	0	0	0	0	0	0	0	0	0
Nidadavolu	34·5	..	37·9	31	21·9	..	18·8	5	0	0	..	0	..	0	..	5·9	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Rentachintala	37·0	−0·4	40·6	31	23·0	−1·2	18·6	14	0	0	−2·3	0	..	0	−0·3	8·6	7·5	−1·8	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	34·7	−1·1	38·7	31	29·6	−0·4	19·6	5	0	0	−12·0	0	..	0	−0·5	15·0	9·4	−1·3	0	0	0	0	0	1	0	0	0	0	0
Nagarjunakonda	37·2	..	40·7	31	24·3	..	20·9	14	0	0	..	0	..	0	..	15·5	16·1	..	0	0	0	0	2	0	0	0	0	0	0
Masulipatnam	31·5	−1·0	34·0	4 days	21·7	−0·7	2·0	5 days	0	0	0·7	0	..	0	−0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ongole	32·8	..	36·4	28	22·9	..	20·9	16	0	0	..	0	..	0	..	13·2	8·5	..	0	0	0	0	0	0	0	0	0	0	0
Nellore	33·3	−1·3	36·5	17	22·7	0	20·5	18	0	0	−4·5	0	..	0	−0·3	10·8	6·8	−0·1	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	36·4	−1·0	40·0	31	22·7	+0·2	17·5	1	0	0	−10·8	0	..	0	−0·9	9·1	7·1	+0·1	0	0	0	0	0	0	0	0	0	0	0
Nizamabad	35·5	−1·3	38·1	28	21·4	+0·9	15·5	1	5·3	5·3	4·9	5·3	24	1	+0·2	7·6	6·0	+1·7	0	1	0	0	0	0	0	0	0	0	0
Hanamkonda	35·1	−0·5	38·9	29,31	21·9	..	17·5	1	0	0	−11·7	0	..	0	−0·8	9·8	8·9	+0·5	0	0	0	0	1	0	0	0	0	0	0
Hakimpet (Aerodrome)	32·8	..	32·6	31	20·5	−0·5	17·5	5	18·8	33·1	..	22·9	21	2	..	..	..	..	0	2	0	0	2	0	0	0	0	0	0
Bhadrachalam	36·4	−0·8	40·8	31	22·3	..	18·6	1	0	0	−8·3	0	..	0	−0·3	6·8	6·2	−2·1	0	0	0	0	0	0	0	0	0	0	
Hyderabad (Begumpet)	33·5	−1·6	36·3	31	20·0	+0·4	16·2	1	38·6	51·7	+40·0	44·7	22	2	+1·1	12·0	8·9	+0·5	0	0	0	1	1	0	0	0	0	1	0
Khammam	36·1	..	40·0	31	22·8	+0·5	20·4	5	0	0	..	..	..	0	..	6·2	5·4	..	0	2	0	0	0	0	0	0	0		
Mahbubnagar	35·1	..	38·8	31	21·0	+0·8	19·4	15, 18	0	0	..	..	..	0	..	3·6	7·7	..	0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Kurnool	36·8	−1·0	39·1	29,31	22·7	−0·4	19·9	19	2·4	8·9	+3·6	6·5	23	1	+0·6	7·1	7·1	+0·8	0	2	0	0	2	0	1	0	0	0	0
Anantapur	36·8	0	39·0	26	22·5	+0·4	19·7	13	0	0	−3·9	0	..	0	−0·3	10·7	11·3	+1·8	0	0	0	0	2	0	0	0	0	0	0
Cuddapah	37·5	+0·8	39·7	30	23·4	+0·3	20·5	14	0	1·8	−2·8	1·8	22	0	−0·3	13·3	10·1	−2·1	0	1	0	0	0	0	0	0	0	0	0
Arogyavaram	33·0	..	35·1	31	20·1	..	16·8	14	15·0	15·0	..	15·0	22	1	..	10·0	10·0	..	0	1	0	0	1	0	0	0	0	0	
Madras State																													
Madras	31·7	..	33·8	17	22·2	..	18·7	18	..	0	..	0	..	0	..	..	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	32·8	−0·2	35·0	27	22·8	+0·4	20·0	18	0·1	0·1	−7·8	0·1	22	0	−0·4	14·9	10·0	−0·6	1	0	0	0	0	0	0	0	0	0	0
Vellore	34·9	+0·3	37·0	31	20·5	−0·5	16·1	18	0	9·9	+3·0	9·9	22	1	+0·5	5·7	7·9	+2·9	0	1	0	0	1	0	0	0	0	0	0
Tambaram (Aerodrome)	34·3	..	36·6	27	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Tiruppattur	35·2	..	37·6	30	19·0	..	15·6	18	0	4·8	..	4·8	22	1	..	6·2	5·1	..	0	1	0	0	2	0	1	0	0	0	0
Cuddalore	31·0	−0·3	32·6	17	21·6	−1·0	18·0	18	0	0	−17·5	0	..	0	−0·6	9·2	8·6	+2·0	0	0	0		0	0	0	0	0	0	0
Kallakkurichchi	35·3	..	36·9	30,31	21·6	..	18·4	16	0	6·6	−3·6	6·6	22	1	+0·5	8·5	6·5	..	0	1	0		0	0	0	0	0	0	0
Salem	35·9	−0·8	37·4	22,28, 30	22·0	+0·1	19·3	18	6·2	39·8	+27·3	33·0	22	2	+1·1	11·4	12·0	+8·4	0	2	0	0	3	0	0	0	0	0	0
Coimbatore (Pilamedu)	34·3	..	36·5	30	20·8	..	17·9	28	5·6	5·7	..	5·6	22	1	..	14·2	11·3	..	1	1	0	0	3	0	0	0	0	0	0
Coimbatore	34·7	−0·5	36·3	28	21·0	−0·2	19·1	16	3·8	5·1	−7·6	4·1	22	1	+0·1	9·1	6·3	+2·3	0	2	0	0	4	0	0	0	0	0	0
Nagapattiam	30·1	−1·1	31·9	22	25·0	+0·4	22·2	17	0	0	−20·1	0	..	0	−1·0	15·5	15·8	+5·7	0	0	0	0	0	0	0	0	0	0	0
Tiruchirappalli	34·8	1·0	36·5	31	22·4	+0·1	19·2	18	0	29·0	+19·9	28·3	22	1	+0·3	10·0	9·6	+2·0	0	2	0	0	2	0	0	0	0	0	0
Vedaranniyam	32·0	..	34·7	22	24·9	..	..	..	0	0	..	0	..	0	..	6·7	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Atirampattinam	32·8	..	35·4	31	22·9	..	20·5	13	0	0	..	0	..	0	..	15·3	10·4	..	0	0	0	0	2	0	0	0	0	0	0
Madurai	35·0	−0·2	36·7	23	23·7	+1·2	..	..	0	2·8	−15·0	2·8	25	1	0	7·5	6·3	+0·8	0	1	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	34·6	..	36·4	31	22·3	..	19·2	17,18	0	22·8	..	22·8	30	1	..	11·9	9·4	..	0	1	0	0	4	0	0	0	0	0	0
Tondi	30·8	..	33·0	31	24·4	..	21·6	18	0	0	..	0	..	0	..	18·6	16·4	..	0	0	0	0	3	0	0	0	0	0	0
Pamban	31·6	+0·2	33·5	31	24·6	−0·2	21·9	18	0	0	18·3	0	..	0	−1·4	11·9	12·5	+3·6	0	0	0	0	0	0	0	0	0	0	0
Tuticorin	29·4	−0·3	32·1	22	24·2	−0·7	21·5	16	0	6·3	23·3	6·3	24	1	−0·3	20·1	18·7	+2·3	0	1	0	0	1	0	0	0	0	0	0
Palayankottai	34·7	−0·3	36·2	28	23·5	−0·9	21·8	16	5·0	7·4	−21·5	2·8	22	1	−1·0	6·4	4·5	−3·4	0	4	0	0	2	0	0	0	0	0	0
Kanyakumari	31·8	..	34·2	28	24·7	..	23·2	4	0	6·2	..	6·2	7	1	..	18·9	13·9	..	0	1	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	30·9	0	32·9	1	21·6	−0·9	15·8	11	0	0	−0·3	0	..	0	0	13·7	9·3	..	0	0	0	0	0	0	0	0	0	0	0
Honawar	31·8	−0·4	34·2	30	21·7	−1·2	19·8	9	0	0	−0·3	0	..	0	0	11·5	9·7	+4·6	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajep)	33·1	..	35·1	16	23·3	..	22·0	11	0	0	..	0	..	0	..	13·5	8·3	..	0	0	0	0	0	0	0	0	0	0	0
Mangalore	32·0	0	33·0	14	24·0	−0·3	22·2	10	0	0	5·3	0	..	0	−0·3	12·2	9·3	+1·4	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore North																													
Bidar	34·3	−0·6	36·5	28,31	21·4	−0·7	16·4	13	6.0	6·0	−4·7	6·0	22	1	−0·2	12·9	12.1	+2·1	0	1	0	0	1	0	0	0	0	0	0
Gulbarga	36·5	−0·8	38·6	28	21·3	−0·1	17·6	2	21·2	21·2	+11·8	21·2	25	1	+0·2	11·7	10·6	+1·4	0	1	0	0	1	0	0	0	0	0	0
Bijapur	36·5	+0·4	39·0	31	21·9	+0·7	18·4	1	0	3·2	−2·1	3·2	25	1	+0·4	3·1	2·0	−4·4	0	1	0	0	0	0	0	0	0	0	0
Raichur	36·7	−0·2	38·6	31	23·6	+0·4	20·8	1	0	0	−3·6	0	..	0	−0·4	10·2	11·5	+2·6	0	0	0	0	0	0	0	0	0	0	0
Belgaum	34·9	−0·4	37·3	31	18·4	+0·3	15·9	9.11	17.6	17·6	+7·2	17·6	18	1	+0.1	8·3	6·7	0	0	1	0	1	2	0	0	0	0	0	0
Belgaum (Samra)	34·1	..	36·8	31	18·8	..	16·4	22	18·8	26·9	..	13·9	20	3	..	9·7	8·2	..	0	4	0	2	7	0	0	0	0	0	0
Gadag	36·5	+1·2	38·7	31	21·5	+1·1	18·7	9	0	0	−5·6	0	..	0	−0·7	8·9	8·1	+0·2	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	37·1	−0·4	38·8	4 days	23·1	+0·7	20·9	13	0	0	−5·3	0	..	0	−0·6	7·6	7·0	+1·6	0	0	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C.								Rain fall millimeters						No. of days (2.5 mm. or more)		Wind speed, kms. per hour.			Weather phenomena—No. of days with								
	Mean maximum	Departure from normal.	Height	Date	Mean minimum	Departure from normal.	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal.	Heaviest fall 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0.2 mm.)	Precipitation (0.3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28
Interior Mysore (South)—*Contd.*																												
Chitradurga	34·6	—0·3	36·4	31	21·9	+0·6	20·5	14	0	13·6	+9·3	10·0	24	2	+1·6	8·8	7·3	+1·0	0	2	0	0	2	0	0	0	0	0
Shimoga	35·3	0	38·0	31	18·6	—0·5	15·9	11	0	3·4	—7·1	3·4	25	1	..	6·0	4·2	—0·7	0	1	0	0	0	0	0	0	0	0
Agumbe	30·6	..	34·0	1	..	..	..	..	..	0	..	0	..	0	..	..	2·7	..	0	0	0	0	0	0	0	0	0	0
Balchonnur	33·0	+2·2	36·1	30	17·5	+0·4	15·8	18	..	0	—31·5	0	..	0	—1·8	..	..	..	0	0	0	0	0	0	0	0	0	0
Hassan	32·6	—0·5	34·5	29	18·2	+0·9	16·9	9	0	0	—9·4	0	..	0	—0·6	7·2	5·3	+0·2	0	0	0	0	0	4	0	0	0	0
Bangalore	32·1	—0·3	33·7	31	19·0	+0·9	16·5	4	0	18·6	+8·4	16·8	22	1	+0·2	11·0	9·0	+1·8	0	2	0	0	2	0	0	0	0	1
Bangalore (Aerodrome)	32·8	..	34·8	31	18·5	..	15·7	4	0	13·5	..	13·5	22	1	..	..	..	..	0	1	0	0	3	0	0	0	0	1
Mysore	33·0	—1·3	34·8	31	20·6	—0·8	19,3	15,16	3·8	3·8	—9·1	3·8	22	1	+0·2	16·0	9·8	+2·4	0	1	0	0	0	0	0	0	0	0
Kerala																												
Calicut	32·5	+0·2	33·6	30	24·6	—0·1	23·3	16,17	0	0	-17·3	0	..	0	—0·8	14·2	12·4	+1·8	0	0	0	0	0	0	0	0	0	0
Palghat	36·8	..	38·4	30	23·7	..	21·2	16	0	29·5	..	29·0	25	1	..	10·2	7·9	..	0	2	0	0	0	0	0	0	0	0
Fort Cochin	31·7	+0·6	34·3	9	24·5	—0·1	23·2	17	0	54·5	+3·4	32·4	7	3	+0·2	13·7	10·0	+1·1	0	7	0	0	4	0	0	0	0	0
Cochin (Naval Air-station)	32·5	..	34·4	15	24·7	..	22·9	17	0	18·2	..	9·7	25	2	..	12·8	8·8	..	1	4	0	0	7	0	0	0	0	0
Alleppey	32·5	0	34·4	14	24·5	—0·6	22·7	14	2·4	61·3	-15·3	54·0	7	2	—2·2	16·5	11·1	—0·4	0	5	0	0	4	0	0	0	0	0
Punalur	35·3	..	36·7	17,31	22·0	..	19·3	16	0	103·6	..	31·2	21	4	..	5·7	3·7	..	0	5	0	0	0	0	0	0	0	0
Trivandrum	32·4	0	35·3	31	23·5	—0·7	21·4	4	0·2	30·5	—8·6	19·0	23	3	+0·5	8·5	5·7	—0·4	0	5	0	0	9	0	0	0	0	0
Trivandrum Aerodrome	32·0	..	33·4	31	23·1	..	20·1	3	..	34·3	..	14·8	23	3	..	..	6·7	..	0	5	0	0	5	0	0	0	0	0
Arabian Sea Islands																												
Amini*																												
Minicoy*																												
Hill Stations excluding Kashmir																												
Dalhousie	18·7	+1·0	22·5	31	8·2	+0·2	5·0	8,9,15	122·0	151·0	+22·1	32·0	5	8	+1·6	8·9	7·2	+1·3	0	9	0	0	0	0	0	0	0	0
Dharmsala	20·5	—0·6	26·2	31	11·3	—1·5	5·1	5,6,7	46·4	100·4	—17·9	64·6	5	5	—1·5	6·5	5·2	—0·8	0	5	0	0	4	0	0	0	0	0
Simla	13·8	+0·1	17·8	15	6·5	+0·1	—1·3	5	22·4	33·6	—26·3	9·8	6	4	—0·7	4·8	3·1	+0·2	0	8	3	0	4	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	66·1	+18·1	51·1	5	3	+0·1	..	..	..	0	4	..	..	..	..	..	..	..	..
Lokpol	2·7	..	0·7	31	—9·9	..	—10·6	8	..	195·6	..	60·0	5	6	..	..	..	..	1	10	6	7	0	15	0	28	0	0
Badrinath													Closed during winter months															
Joshimath	18·0	..	24·3	30	6·5	..	—0·7	5	38·9	108·2	..	52·6	5	4	..	8·1	9·2	..	0	10	2	1	6	4	0	2	0	0
Mussoorie	15·7	+0·3	22·8	31	7·3	+0·2	—0·8	5	6·2	26·4	—31·0	21·0	5	2	—1·7	12·3	10·4	+2·8	0	3	2	1	2	0	0	4	0	0
Mukteswar (Kumaun)	16·2	+1·0	22·0	30	6·3	+0·4	—0·7	6	33·0	77·4	+29·1	43·4	5	4	—0·1	13·8	12·3	+2·2	0	4	1	1	5	3	0	13	0	0
Nainital	15·5	—1·2	21·2	30	7·0	—0·9	0.6	6	16·0	82·0	+28·3	70·0	5	2	—2·1	7.2	6·0	—1·9	0	3	0	0	0	0	0	0	0	0
Kalimpong	22·6	+1·8	26.7	5 days	12·6	0	4·5	2.6	50·8	50·8	+22·6	50·8	7	1	—2·0	4·8	3·7	—8·7	0	1	0	0	0	0	0	0	0	0
Darjeeling	14·9	+1·1	19.4	31	7·5	+0·4	3.7	3	12·4	25·6	+22·1	10·6	6	4	+0·4	3·4	2·9	+0·2	0	4	0	0	1	1	0	0	0	0
Kohima	21·4	..	26.1	28	13.3	..	8·2	8	6·4	17·2	..	5·6	11	3	..	3·6	3·7	..	0	4	0	0	0	0	0	0	0	0
Shillong	22·2	+0·9	27·0	31	10·0	—0·4	4·4	1	0	9·2	—40·8	9·0	6	1	—2·9	10·1	7·4	+0·6	1	1	0	0	0	0	0	0	0	0
Cherrapunji	20·5	+0·1	25·1	31	14·1	+1·4	9·7	1	0	10·0	-174·7	10·0	6	1	—6·1	11·9	9·1	—1·5	0	1	0	0	0	0	0	0	0	0
Abu	26·5	+1·7	30·3	16	13·9	—2·2	9·2	1	0	2·0	— 2·3	10	15,16	0	—0·5	9·7	6·0	—1·6	0	2	0	0	1	0	0	0	0	0
Aijal	26·5	..	30·3	30	17·6	..	13·3	8,11	0	0	..	0	..	0	..	20·9	14·9	..	0	0	0	0	0	0	0	0	0	0
Pachmarhi	28·7	—0·2	33·2	31	13·4	—1·8	4·9	7	10·8	22·4	+8·2	9·8	22	3	+1·7	5·9	3·9	—1·7	0	7	0	0	9	0	0	0	1	0
Mahabaleshwar	28·7	+0·7	32·6	31	15·7	—1·3	12·0	15	34·6	34·6	+30·3	34·2	15	1	+0·6	10·0	10·1	—0·5	0	2	0	0	3	0	0	0	0	0
Mercara	29·5	+0·5	31·2	30,31	16·4	0	14·8	3	0	5·0	—14·3	5·0	26	1	—0·6	9·5	8·5	+3·5	0	1	0	0	0	0	0	0	0	0
Ootacamund	20·4	—0·7	22·4	20	9·1	+0·3	6·3	6	18·6	18·8	—13·7	16·0	21	1	—1·6	8·9	5·1	—0·2	1	3	0	0	2	0	0	0	0	0
Coonoor (R)																												
Kodaikanal	19·0	0	21·0	19,20	9·2	—0·9	6·1	5	4·9	69·9	+23·9	61·1	21	3	—0·1	13·2	13·3	+0·1	0	5	0	0	5	0	0	2	0	0
Nepal																												
Katmandu	23·4	..	28·2	30	7.5	..	4·4	11	15.0	44·5	..	31·5	6	3	..	2·7	1·5	..	1	4	0	0	3	1	0	0	0	0
Sikkem																												
Lachen	(a) 11·4	..	16·1	30	(a) 2·7	..	0·6	1, 10	..	(a) 30·0	..	11·0	31	4	..	..	..	..	0	11	7	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																												
Tilaiya	30·9	..	34·8	29, 30	18·2	..	11·9	9	0·4	2.2	..	2·0	6	0	..	17·0	11·3	..	1	1	0	0	0	0	0	0	0	0
Hazaribagh	29·4	..	33·2	20, 29	15·7	..	9·7	1, 8	1·9	8·4	..	6·9	6	1	..	13·8	8·4	..	0	2	0	0	2	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	0·8	9·6	..	9·6	6	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0

*Data given as addenda in December 1962 issue. (R) Register not received. (a) Mean or total for 30 days. (b) Total for 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground rost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.—(Contd.)																													
Damodar Catchment.—(Contd.)																													
Bokaro	32·6	..	36·7	31	14·5	..	9·5	8	0·8	5·0	..	5·6	6	1	..	9·9	5·4	..	0	1	0	0	1	0	0	0	0	0	0
Maithon	32·5	..	36·7	27, 28, 29	17·0	..	12·2	9	1·8	2·4	..	1·8	20	0	..	..	..	..	0	2	0	0	0	12	0	0	0	0	0
Ramgarh	32·5	..	36·7	31	16·6	..	10·7	8	1·0	23·2	..	23·2	6	1	..	5·7	3·0	..	0	1	0	0	0	0	0	0	0	0	0
Panchet Hills	33·9	..	37·7	20, 29, 30	19·3	..	14·5	8	0	1·7	..	1·7	6	1	..	7·8	5·4	..	0	1	0	0	0	0	0	0	0	0	0
Durgapur	35·0	..	39·4	31	18·2	..	11·7	1	0	0·6	..	0·6	6	0	..	13·0	9·1	..	0	1	0	0	0	0	0	0	0	0	0
Mahanadi Catchment.																													
Ginabahar	32·6	..	38·9	31	16·2	..	11·1	8, 12	..	5·0	..	2·3	10	0	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..
Hirakud	34·1	..	40·1	31	20·7	..	16·0	3	0·2	7·2	..	7·0	10	1	..	5·9	4·2	..	1	1	0	1	2	0	0	0	0	0	0
Bhimkund	34·1	..	38·3	29, 30, 31	17·6	..	13·3	8	45·5	55·0	..	55·0	10	1	..	6·5	3·7	..	0	1	0	1	1	0	0	0	0	0	0
Sonpur	34·4	..	38·3	29, 30	20·0	..	15·6	2, 3	..	26·8	..	26·8	10	1	..	..	4·0	..	0	1	..	..		..	..	..	..	..	..
Khijrawan	34·2	..	38·8	4 days	18·7	..	12·4	1	0	13·0	..	12·0	13	1	..	7·7	6·1	..	0	2	0	0	0	0	0	0	0	0	0
Narmada Catchment.																													
Bagra Tawa	34·5	..	40·2	31	17·0	..	10·0	1	0	6·0	..	2·8	14	1	..	6·2	4·0	..	0	3	0	0	2	0	0	0	0	0	0
Panasa	36·1	..	41·1	31	18·4	..	11·7	7	0	1·4	..	0·8	27	0	..	6·8	3·9	..	0	2	0	0	0	0	0	0	0	0	0
Thiri	36·3	..	42·8	25	18·5	..	12·8	6	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment.																													
Dharoi	34·3	..	37·8	16, 30	16·8	..	11·2	7	0	10·0	..	7·6	16	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	15·2	..	22·3	30	0·9	..	−2·7	10	10·0	27·6	..	12·2	5	3	..	..	..	..	2	5	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	22·4	48·0	..	21·4	6	4	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Tumure	20·2	..	25·0	31	(a) 8·4	..	0·6	6	21·8	74·4	..	36·0	6	6	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Pokhara	24·8	..	29·5	31	13·1	..	7·6	7	15·7	40·6	..	21·6	6	3	..	7·5	6·6	..	3	9	0	3	16	0	0	0	0	0	0
Gorkha*						..																							
Nawakot	26·2	..	31·4	30	13·5	..	8·8	6	16·2	34·8	..	24·6	6	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	20·8	..	25·9	31	10·8	..	6·4	7	38·8	55·8	..	36·3	5	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Ghaghara Catchment.																													
Dadeldhura	17·5	..	22·6	31	8·1	..	1·3	6	39·0	67·9	..	32·6	6	3	..	..	..	..	0	3	0	0	3	0	3	0	0	0	0
Sallayana	21·4	..	27·0	30	12·1	..	5·5	6·7	17·0	88·0	..	45·0	6	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Butwal	(a) 29·9	..	35·4	28	17·5	..	13·2	6	24·6	57·6	..	50·2	6	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																													
Katmandu†																													
Kosi Catchment.																													
Dhautara	23·1	..	29·1	28	10·7	..	5·9	7	17·6	47·1	..	21·7	6	4	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Dhepua	..	..	..	..	..	..	..	..	100·8	191·4	..	31·6	31	13	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Walungchung Gola	9·7	..	15·9	30	(a) −1·2	..	5·8	3	22·0	45·5	..	8·6	6	7	..	..	..	..	2	15	..	..	..	..	..	..	..	..	..
Tapethok	22·1	..	26·6	30	10·5	..	5·8	7	27·0	72·4	..	13·6	5	9	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Bhojpur	19·7	..	24·6	31	11·3	..	6·8	7	23·0	38·0	..	19·0	6	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Taplejung	(b) 18·4	..	23·2	28	(b) 8·5	..	4·1	7	(a) 23·4	(b) 62·7	..	22·8	5	5	..	..	..	..	1	5	0	0	5	1	0	0	0	0	0
Okhaldunga	18·2	..	23·1	30	9·3	..	4·1	7	28·2	42·8	..	14·8	6	3	..	8·1	6·0	..	0	4	0	2	3	−	0	0	0	1	0
Chainpur	23·7	..	28·0	30	13·3	..	8·8	6	23·0	44·2	..	16·0	6	4	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Angbung	24·5	..	29·9	29	13·2	..	8·2	5	8·0	77·5	..	39·0	2	5	..	..	..	..	0	5	.	..	..	..	..	..	..	..	..
Bacchakshetra	30·3	..	34·4	29	15·8	..	11·7	1	12·8	22·2	..	12·8	6	2	..	9·6	6·4	..	0	3	0	0	2	0	0	0	0	1	0
Tista Catchment.																													
Gangtok	18·4	..	23·4	31	8·7	..	4·6	3	23·0	102·5	..	18·8	3	8	..	(j) 6·6	(k)	..	1	14	0	1	3	0	2	0	0	0	0
Gezing	21·4	..	26·6	30	10·0	..	5·7	2	19·2	66·1	..	20·5	3	7	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..

* Data not available. †Data included under 'Nepal'. (R) Register not received. (a) Mean of 30 days (b) Mean of 29 days (j) Mean of 21 days (k) Mean 20 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	23	1012·2	1009·1	..	27·5	24·4	23·0	28·1	76	..	2·3	..	1·8	0	0	17	2	4	6	0	0	0	0	5	14	0
	1730	,,	1009·1	1006·0	..	28·2	24·8	23·2	28·4	75	..	2·3	..	1·4	0	0	24	0	9	8	3	0	0	0	4	7	0
Long Island	0830	25	1012·1	1009·2	..	27·8	24·7	23·3	28·6	76	..	3·3	..	2·5	0	0	23	0	3	5	1	0	1	6	7	8	0
	1730	,,	1009·1	1006·3	..	28·1	24·3	22·5	27·3	72	..	3·1	..	1·5	0	0	14	0	6	4	2	0	0	2	0	17	0
Port Blair	0530	79	1010·4	1001·4	..	23·1	22·5	22·3	26·9	95	..	2·8	..	0·9	0	0	6	0	1	1	0	0	0	0	4	25	0
	0830	,,	1012·1	1003·3	+0·2	29·2	25·0	23·1	28·1	69	−3	3·3	+0·4	6·0	0	0	27	6	12	5	0	0	0	0	4	4	0
	1130	,,	1010·8	1002·0	..	30·6	25·3	23·0	28·1	64	..	3·0	..	8·2	0	0	31	1	13	15	1	0	0	1	0	0	0
	1730	,,	1009·2	1000·3	..	27·6	24·1	22·6	27·4	74	..	3·8	..	3·4	0	0	20	1	10	5	1	0	0	1	2	11	0
	2330	,,	1011·0	1002·0	..	24·8	23·4	22·7	27·6	89	..	2·1	..	1·8	0	0	9	0	4	2	0	0	0	1	2	22	0
Nicobar	0830	1[illegible]	[illegible]·8	1010·6	..	29·1	25·0	23·2	28·4	75	..	4·0	.	5·7	0	0	30	2	23	5	0	0	0	0	0	1	0
	1730	[illegible]	[illegible]·9	1007·7	..	27·7	25·0	23·7	29·3	79	..	4·2	..	3·0	0	0	22	2	18	2	0	0	0	0	0	9	0
Nancowry	0830	2[illegible]	[illegible]·7	1008·8	..	29·4	25·8	24·2	30·2	75	..	4·0	..	0	0	0	0	0	0	0	0	2	0	0	0	31	0
	1730	,,	[illegible]	1005·6	..	28·1	25·1	23·8	29·5	77	..	3·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kondul	0830	8	1011·5	1010·6	.	27·9	25·2	24·1	30·0	80	..	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1008·3	1007·4	..	27·5	25·2	24·0	29·8	83	..	5·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Passighat	0830	157	1014·3	995·9	..	19·9	16·2	13·2	15·4	67	..	4·0	..	16·3	0	8	23	3	0	0	0	0	0	0	27	1	0
	1730	,,	1009·1	991·2	..	21·9	17·9	15·2	17·3	67	.	4·6	..	6·8	0	2	29	1	0	0	0	0	0	0	12	18	0
Dibrugarh (Mohanbari)	0230	111	1010·8	997·8	..	16·7	15·3	14·2	16·2	85	..	5·2	..	2·0	0	0	12	1	9	1	1	0	0	0	0	19	0
	0530	,,	1011·7	998·6	..	15·5	14·5	13·7	15·7	90	..	4·6	..	1·8	0	0	12	1	9	1	1	0	1	0	0	19	0
	0830	,,	1013·6	1000·7	+0·1	20·4	17·0	14·5	16·5	70	−6	3·8	−0·4	6·4	0	0	28	0	22	3	0	1	2	0	0	3	0
	1130	,,	1011·9	999·2	..	25·2	18·5	13·9	15·9	51	..	3·8	..	5·0	0	0	29	2	20	5	0	0	2	0	0	2	0
	1730	,,	1009·1	996·3	..	22·5	18·3	15·5	17·6	66	..	4·7	..	3·5	0	0	17	2	11	3	0	0	1	0	0	14	0
	2330	,,	1011·1	998·2	..	17·9	15·1	14·8	16·8	83	..	5·1	..	2·2	0	0	14	1	10	1	0	0	2	0	0	17	0
Dibrugarh	0830	106	1014·1	1001·9	+0·8	20·9	16·7	13·6	15·7	65	−11	3·6	−0·6	0·5	0	0	5	0	3	2	0	0	0	0	0	26	0
	1730	,,	1008·4	996·3	..	23·8	18·7	15·5	17·8	60	..	4·2	..	0·6	0	0	6	0	5	1	0	0	0	0	0	25	0
Digboi (R)	0830																										
(R)	1730																										
North Lakhimpur	0830	102	1013·6	1001·8	+0·1	20·3	17·5	15·2	17·3	71	−3	3·5	−0·7	3·6	0	0	28	1	9	9	6	1	2	0	0	3	0
	1130	,,	1011·9	1000·2	..	24·8	19·0	15·2	17·3	55	..	3·3	..	4·3	0	0	31	3	12	8	3	4	1	0	0	0	0
	1730	,,	1008·7	997·0	..	22·7	18·9	16·6	18·9	69	..	3·5	..	2·5	0	0	23	5	14	1	0	2	0	0	1	8	0
Sibsagar	0830	97	1013·9	1002·8	+0·9	21·6	17·8	15·2	17·3	68	−13	6·6	+1·6	2·9	0	0	18	1	12	3	1	0	1	0	0	13	0
	1730	,,	1009·1	998·1	..	24·8	19·1	15·6	17·5	57	..	4·3	..	3·0	0	0	19	3	13	2	0	0	1	0	0	12	0
Golpur	0330	..	..	..	..	20·9	18·3	16·5	18·8	76	..	..	..	3.5	0	0	30	1	10	17	1	1	0	0	0	1	0
	1730	..	..	..	..	24·7	22·1	20·7	24·4	78	..	..	..	3·2	0	0	31	0	16	13	0	1	1	0	0	1	0
Majbat	0830	77	..	..	..	..	..	..	..	..	..	1·4	..	4·3	0	0	26	0	11	11	2	0	0	0	0	5	2
	1730	,,	..	..	..	..	..	..	..	..	..	1·8	..	1·2	0	0	10	1	2	2	0	0	2	2	1	21	0
Jorhat (Aerodrome)	0530	90	1011·7	999·9	..	15·9	14·6	14·0	16·0	89	..	2·6	..	2·7	0	0	8	1	6	0	0	0	1	0	0	23	0
	0830	,,	1012.6	1000·7	..	20·8	17·5	15·1	17·1	70	.	2·7	..	6·5	0	2	21	0	17	4	0	1	0	1	0	8	0
	1130	,,	1010·9	1000·8	..	26.3	18·8	13·7	15·7	45	..	2·0	..	11·4	0	3	27	0	25	3	0	0	0	1	1	1	0
	1730	,,	1007·5	997·3	..	25·0	18·4	13·8	15.8	52	..	2·7	..	9·0	0	2	23	0	22	1	0	0	0	1	1	6	0
	2330	,,	1010·1	999·7	..	18·9	16·6	14·9	16·9	79	..	2·7	..	4.4	0	0	14	1	7	1	0	1	1	3	1	16	0
Tangla	0830	78	1012.1	1002.9	..	22.6	17·6	14·5	16·5	62	..	1·1	..	1·9	0	0	11	0	4	6	1	0	0	0	0	20	0
	1730	,,	1007.6	998.3	..	25.7	20·5	17·9	20·5	64	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tezpur	0830	79	1013·2	1004·1	−0.1	21·8	17·5	14·4	16·5	63	−8	1·5	−1·0	4·6	0	0	27	0	24	0	0	0	1	0	0	4	2
	1730	,,	1008·0	999·2	..	27·3	19·2	13·8	15·7	41	..	1·4	..	2·5	0	0	14	0	12	0	0	0	1	0	1	17	0
Golaghat	0830	..	..	..	..	21.5	17.7	15.1	17.1	67	..	4·0	..	1.0	0	0	4	0	0	0	4	0	0	0	0	27	0
	1730	..	..	..	..	27.9	18.8	12.3	14.3	40	..	(e) 3·2	..	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Rangiya	0830	..	..	..		23·2	18·2	14·8	16·8	62	..	( ) 0·3		(a) 7·2	0	0	30	0	0	27	1	0	0	2	0	0	0
	1730	..	..	..		28·7	19·5	13·2	15·2	42	..	(a) 0·4		(a) 1·8	0	0	13	0	1	4	0	0	0	6	2	17	0
Chaparmukh	0830	66	1013·1	1005·5	..	23·1	17·6	13·6	15·6	57	..	0·6	..	3·9	0	0	31	0	0	21	4	5	0	1	0	0	0
	1730	,,	1006·7	999·3	..	28·4	21·3	17·1	19·5	52	..	1·7	..	4·5	0	0	31	5	1	7	1	9	0	8	0	0	0

(a) = Mean of 30 days. (e) = Mean of 26 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Goalpara	0830	38	1012·3	1007·9	..	20·9	16·9	14·0	16·0	67	..	0·5	..	3.6	0	0	28	2	20	2	0	0	4	0	0	3	0
	1730	"	1007·8	1003.4	..	31·2	20·7	13·8	15·9	37	..	(a) 0·5	..	(a) 5·5	0	0	28	1	5	0	0	0	15	1	6	2	0
Gauhati	0830	55	1012.1	1005.9	−0.2	22·9	17·8	14·1	16·1	58	−12	0·5	−1.8	0·5	0	0	5	0	3	2	0	0	0	0	0	26	0
	1730	"	1007·1	1000·9	..	29·1	19·5	12·7	14 7	37	..	0·8	..	1·0	0	0	10	0	2	2	1	0	3	0	2	21	0
Gauhati (Bhorjar)	0230	54	1009·4	1003·1	..	17 3	14·9	13·0	15.0	78	..	0·5	..	3·1	0	0	17	1	6	4	0	2	4	0	0	14	0
	0530	"	1010·4	1004·0	..	15·4	13·7	12·3	14·3	83	..	0·9	..	1·8	0	0	12	1	4	2	0	2	3	0	0	19	0
	0830	"	1012·3	1006·0	−0.2	23·1	17·6	13·5	15·7	56	−6	1·1	−1.2	5·0	0	0	21	2	14	4	0	0	0	1	0	10	0
	113	"	1010·7	1004·5	..	29·1	19·2	11·9	14·2	37	..	1·3	..	10·0	0	2	28	10	7	2	0	0	0	6	5	1	0
	1730	"	1007·1	1001·0	..	26·4	18·7	11·2	13·6	37	..	1·9	..	5·4	0	1	23	3	6	1	0	2	2	9	1	7	0
	2330	"	1010·0	1003·7	..	19·3	16·1	13·7	15·7	71	..	0·5	..	4·3	0	0	19	1	7	1	0	4	6	0	0	12	0
Dhubri (Repsi)	0530	36	1009·3	1005·0	..	15·8	14·1	12·5	14·5	82	..	1·1	..	2·3	0	0	11	0	7	3	0	0	0	1	0	20	0
	0830	"	1011.3	1007·2	..	23·5	17 3	12·8	14·7	52	..	0·8	..	9·6	0	0	31	0	6	8	7	1	4	5	0	0	0
	1130	"	1010·1	1006·0	..	29·6	18·6	10·1	12·3	32	..	1·2	..	12·4	0	3	28	1	1	3	6	2	12	5	1	0	0
	1730	"	1006.2	1002·0	..	27·3	18·4	11·7	13·8	42	..	1·4	..	5·6	0	0	15	1	2	1	0	0	1	7	3	16	0
Dhubri	0830	35	1012·7	1008·7	+0·5	23·4	17·7	13·9	15·7	57	−9	0·3	+1·5	2·4	0	0	17	1	10	2	0	3	1	0	0	14	0
	1730	"	1007·7	1003·8	..	27·9	18·6	11 7	13·8	39	..	0·5	..	1·0	0	0	7	0	1	0	1	0	2	1	2	24	0
Haflong	0830	149	1012·4	995·6	..	22·0	17·3	13·9	15·9	61	−15	0·7	..	2·1	0	0	12	0	3	3	6	0	0	0	0	19	0
	1730	..	1006 9	990·2	..	23.5	19·5	13·2	15·2	41	..	2·1	..	2·3	0	0	13	0	2	2	1	1	6	1	0	18	0
Tura	0830	370	1012·8	970·9	..	23·2	16·3	10·6	12·9	47	..	1·3	..	3·1	0	0	27	0	0	9	4	8	4	2	0	4	0
	1730	"	1009·1	968·1	..	28·8	18·2	9·3	12·3	32	..	1·3	..	2·9	0	0	24	0	0	0	4	2	14	1	3	7	0
Haflong	0830	682	1011·6	935·9	..	21 6	14·5	8·3	10 8	45	..	0·7	..	8·0	0	1	30	0	0	0	1	0	30	0	0	0	0
	1730	"	1007·0	932·3	..	24·4	15·2	6·8	9·8	35	..	1·7	..	13.4	0	6	25	0	1	0	0	3	27	0	0	0	0
Silchar (Kumbhigram)	0530	97	1009·9	998 6	..	17·3	14·3	11·8	13·9	71	..	0·9	..	7.7	0	0	30	0	3	27	0	0	0	0	0	1	0
	0830	"	1011·6	1000·5	..	22·5	17·2	13·5	15·3	57	..	0·7	..	7·8	0	0	31	0	0	28	3	0	0	0	0	0	0
	1130	"	1009·9	999·1	..	29·1	19·3	12·4	14·4	37	..	1 2	..	6.1	0	0	29	0	1	3	2	4	11	7	1	2	0
	1730	"	1006·5	995·7	..	28 9	19·1	11·9	14·1	37	..	1·0	..	3·9	0	0	20	0	0	0	0	0	2	15	3	11	0
Silchar	0830	29	1012·9	1009·6	−0.3	23·5	17·9	13·9	15·9	55	−17	0·7	−2·0	1·2	0	0	12	0	3	4	5	0	0	0	0	19	0
	1730	"	1008·0	1004·7	..	29·0	19·3	12·3	14·5	37	..	1·0	..	1·3	0	0	13	1	0	0	0	0	2	8	2	18	0
Imphal (Tulihal)	0530	781	1014·3	925·0	..	11·5	9·8	8·2	10·9	83	..	2·4	..	1·5	0	0	7	0	1	0	0	1	2	2	1	24	0
	0830	"	1013·7	926·6	−0·6	19·2	13·9	9·7	11·9	56	−6	1·3	+1·4	2·9	0	0	21	2	1	4	1	2	5	3	3	10	0
	1130	"	1010·0	925·2	..	25·9	15·7	7·0	10·3	32	..	2·2	..	17·3	0	10	21	1	1	0	0	1	12	11	5	0	0
	1730	"	1007·9	922·5	..	23·3	14·9	7·8	10·7	39	..	2 8	..	11·5	0	7	20	0	0	0	0	0	4	17	6	4	0
	2330	"	1014·4	926·2	..	15·2	12·4	10·1	12 3	73	..	1·5	..	0·7	0	0	4	0	1	1	0	0	2	0	0	27	0
Kailashahar	0530	29	1011·3	1007·8	..	16·6	15·4	14·6	16·5	88	..	1·7	..	1·0	0	0	11	0	0	0	0	9	1	1	0	20	0
	0830	"	1012·9	1009·6	..	23·6	19·1	16·1	18·3	64	..	1·4	..	3·2	0	0	19	3	0	1	1	7	6	1	0	12	0
	1130	"	1011·8	1008·6	..	30·9	20·3	13·1	15·1	36	..	1·3	..	5·5	0	0	28	1	2	1	0	3	5	14	2	3	0
	1730	"	1008·4	1005·2	..	29·5	20·4	14·5	16 5	41	..	1·5	..	0·6	0	0	1	0	0	0	0	0	1	0	0	30	0
Agartala	0230	16	1009·0	1007·2	..	19·4	17·0	15 2	17·3	77	..	0·3	..	5·0	0	0	20	0	0	0	7	11	1	0	1	11	0
	0530	"	1009·8	1007.9	..	17·9	16·6	15·7	17·8	87	..	1·8	..	4·5	0	0	23	4	1	3	5	10	0	0	0	8	0
	0830	"	1011·8	1010·0	+0·1	25·9	20·1	16·4	18·6	57	−14	1·6	−1·5	6·3	0	0	24	1	2	1	4	9	3	3	1	7	0
	1130	"	1010·6	1008.9	..	32·0	20·3	11·8	14·2	32	..	1·2	..	11·9	0	4	27	1	1	0	0	1	7	14	7	0	0
	1730	"	1007·2	1005·5	..	30·9	19·8	11·4	14·0	33	..	1·3	..	7·8	0	1	29	2	1	0	0	2	5	18	2	1	0
	2330	"	1009·5	1007·7	..	21·7	17·9	15·1	17·1	68	..	0·5	..	5·7	0	1	19	0	1	0	1	17	0	1	0	11	0
Sub-Himalayan West Bengal																											
Bagdogra	0230	131	1009·6	993·4	..	17·7	15·7	14·2	16·2	81	..	0·7	..	3·5	0	0	23	11	4	1	1	0	2	3	1	8	0
	0530	"	1009·7	994·3	..	14·8	14·0	13·4	15·4	91	..	1·5	..	3.9	0	0	22	11	8	0	1	0	0	1	1	9	0
	0830	"	1001·8	996·8	0	23·2	18·1	14·6	16 6	60	+2	1·3	−1·2	9·9	0	1	29	1	7	14	4	1	2	1	0	1	0
	1130	"	1010·6	995·8	..	27·9	19·9	14·7	16·7	45	..	1·7	..	11·1	0	3	28	0	2	9	14	2	3	1	0	0	0
	1730	"	1006·9	992·2	..	26·6	19·8	15·5	17·6	51	..	2·5	..	4·8	0	0	20	3	1	1	1	1	10	3	0	11	0
	2330	"	1009·2	994·1	..	20·1	16·7	14·3	16·3	71	..	1·1	..	4·3	0	0	22	12	3	0	0	1	3	1	2	9	0
Jalpaiguri	0830	83	1011·9	1002·4	+0·1	20.4	16·9	14·4	16·4	69	−1	0·8	−0 7	4·6	0	0	28	5	7	4	2	1	1	1	7	3	0
	1730	"	1006·9	997·6	..	27·9	19·1	13·0	15·0	41	..	1·2	..	4·0	0	0	19	5	1	1	0	1	6	3	2	12	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind in speed Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan (West Bengal—(*Contd.*																											
Cooch Behar	0830	43	1012·0	1007·1	..	23·4	17·6	13·5	15·5	55	..	1·0	..	11·3	0	2	29	0	6	18	2	0	2	3	0	0	0
	1130	,,	1010·8	1006·0	..	28·2	19·2	13·0	15·0	41	..	0·9	..	10·0	0	2	29	0	2	10	7	4	2	2	0	0	4
	1730	,,	1007·2	1002·4	..	27·6	19·2	13·8	15·8	45	..	1·4	..	2·7	0	0	10	0	0	1	0	0	1	6	2	21	0
Balurghat	0830	..	..	..	..	23·9	17·3	12·6	14·6	51	..	0·5	..	3·9	0	0	29	6	3	1	0	2	9	7	1	2	0
	1730	..	..	..	..	30·3	13·7	9·9	12·2	30	..	1·0	..	4·4	0	0	27	2	1	0	0	0	5	18	1	4	0
Malda	0830	31	1012·1	1008·5	+0·7	25·2	16·9	10·5	12·7	42	−7	1·0	−0·1	7·3	0	0	29	2	2	0	1	2	8	10	4	2	0
	1730	,,	1007·8	1004·3	..	30·5	17·9	7·6	10·4	26	..	1·5	..	6·8	0	1	29	2	0	1	0	0	2	11	14	1	0
Gangetic West Bengal Berhampore	0830	19	1011·8	1009·6	−0·1	25·3	18·3	13·5	15·5	48	−12	1·0	−1·2	4·7	0	0	30	1	0	0	1	4	7	13	4	1	0
	1730	,,	1007·4	1005·3	..	31·2	19·2	10·8	12·5	30	..	1·2	..	4·7	0	0	27	2	1	0	0	4	6	14	0	4	0
Suri	0830	,,	..	..	..	25·6	16·5	8·9	11·4	36	..	0·8	..	5·4	0	0	30	2	1	2	0	4	4	13	4	1	0
Asansol	0230	126	1010·3	995·6	..	21·5	16·1	12·0	14·0	55	..	0·6	..	2·1	0	0	12	0	0	1	0	1	0	7	3	19	0
	0530	,,	1010·8	996·2	..	20·0	15·5	12·2	14·2	60	..	0·8	..	2·6	0	0	13	0	1	0	0	1	0	8	3	18	0
	0830	,,	1012·7	998·4	+1·3	26·1	18·3	12·9	14·9	45	−1	1·1	−0·7	6·1	0	0	26	1	3	0	0	0	1	14	7	5	0
	1130	,,	1011·6	997·6	..	31·7	19·9	11·7	13·7	29	..	0·9	..	10·3	0	2	28	3	2	2	0	0	0	10	13	1	0
	1730	,,	1008·1	994·1	..	31·2	19·6	11·3	13·4	30	..	1·8	..	7·8	0	0	24	1	0	1	0	1	0	7	14	7	0
	2330	,,	1010·5	996·1	..	23·8	17·2	12·3	14·3	49	..	0·8	..	3·0	0	0	12	1	0	1	1	1	0	3	5	19	0
Shanti Niketan	0830	59	1012·9	1006·3	..	26·6	17·6	10·7	12·9	39	..	1·5	..	7·5	0	0	27	4	4	1	0	1	3	6	8	4	0
	1130	,,	1012·0	1005·5	..	32·0	18·8	8·3	10·9	24	..	1·0	..	13·7	0	8	23	2	5	0	0	0	0	9	15	0	0
	1730	,,	1008·3	1001·7	..	31·3	18·4	8·0	10·7	25	...	1·5	..	6·4	0	1	21	0	0	1	0	0	2	8	11	9	0
Krishnanagar	0830	15	1014·4	1012·7	+2·7	25·9	18·8	14·0	16·0	50	−13	0·5	−1·9	0·8	0	0	8	0	0	0	1	3	2	0	2	23	0
	1730	,,	1008·2	1006·6	..	32·2	20·4	12·4	14·4	32	..	0·7	..	1·3	0	0	14	0	1	0	0	5	0	5	3	17	0
Purulia	0830	255	1013·0	984·2	+0·5	24·8	16·4	9.5	11·9	37	−8	1·1	−0.8	3.0	0	0	24	0	1	0	1	0	1	3	18	7	0
	1730	,,	1008·1	980·1	..	30·9	17·9	6·8	9·9	23	..	2·4	..	3·4	0	0	23	1	1	0	1	1	1	0	17	8	1
Burdwan	0830	32	1011.6	1008·0	0	27·8	18·9	12·8	14·8	40	−23	0·1	−2·2	0·2	0	0	2	1	0	1	0	0	0	0	0	29	0
	1730	,,	1007·9	1004·3	..	31·0	21.0	14·7	16·7	36	..	1·2	..	3·1	0	1	15	2	0	1	0	2	0	7	4	15	0
Barrackpore (Aerodrome)	0530	7	1012·2	1011·4	..	20·2	18·1	16·7	19·0	80	..	1·5	..	2·4	0	1	10	0	0	1	0	2	3	5	0	20	0
	0830	,,	1012·7	1012.0	−0·8	26·3	20·7	17·4	19·9	60	−8	1·3	−1.0	7·1	0	0	29	3	1	1	2	0	10	8	4	2	0
	1130	,,	1011·9	1011·2	..	32·1	21·6	15·1	17·1	38	..	1·0	..	11·9	0	2	29	3	1	0	0	4	4	10	9	0	0
	1730	,,	1008·1	1007·4	..	31·8	21·6	15·4	17.5	40	..	1·9	..	6.9	0	0	28	1	0	0	0	5	4	10	8	3	0
	2330	,,	1010·2	1009·4	..	23.3	20·1	18·2	20·9	74	..	0·4	..	2·7	0	1	8	0	0	0	0	4	4	0	1	22	0
Calcutta (Dum Dum)	0230	6	1009·6	1008·6	..	21·2	19·5	18·5	21·3	85	..	0·8	..	1·7	0	0	13	0	0	0	0	2	5	6	0	18	0
	0530	,,	1010·2	1009·5	..	19·7	18·5	17·9	20·5	89	..	1·9	..	1·4	0	0	9	4	0	0	0	1	2	2	0	22	0
	0830	,,	1012·4	1011·7	+0.5	26·6	20·6	17·0	19·4	58	−11	1·8	−0·7	4.6	0	0	27	4	1	2	1	1	4	9	5	4	0
	1130	,,	1011·5	1010·8	..	32·3	22·0	15·8	17·9	39	..	1·0	..	6·3	0	0	30	7	0	1	0	4	4	6	8	1	0
	1730	,,	1008·0	1007·3	..	31·3	22·8	18·1	20·8	47	..	1·5	..	2.8	0	0	16	1	0	0	0	7	3	3	2	15	0
	2330	,,	1010·2	1009·5	..	22·7	20·3	18·9	21·8	80	..	0·5	..	3·4	0	0	21	0	0	0	1	6	8	6	0	10	0
Calcutta	0830	6	1012·3	1011·6	+0.5	26·7	20·8	17·2	19·6	56	−20	2·0	−0.2	6·6	0	0	28	1	0	0	2	6	4	4	11	3	0
	1130	,,	1011·2	1010·5	..	33·0	21·1	13·6	15·6	32	..	1·3	..	7·2	0	0	30	2	4	0	0	3	7	6	8	1	0
	1730	,,	1007·8	1007·1	..	32·1	21·5	15·1	17·1	37	..	1·9	..	6.4	0	1	27	0	2	0	1	2	7	5	11	3	0
Midnapore	0830	45	1012·2	1007·1	+0·5	27·1	18·5	12·6	14·6	42	−17	0·6	−1.2	2·6	0	0	24	6	5	2	0	2	8	1	0	7	0
	1730	,,	1007·8	1002·8	..	33·2	19·2	8·2	10·9	22	..	1·0	..	4·8	0	0	28	11	6	0	0	5	1	2	3	3	0
Contai	0830	11	1012·3	1011·1	+0.7	27·4	21·7	18·7	21·6	59	−9	0·6	−1.7	3.9	0	0	28	9	0	2	0	5	5	1	6	3	0
	1730	,,	1008·3	1007·1	..	28·3	22·7	20·0	23·4	61	..	1·0	..	7·4	0	0	31	0	0	0	7	17	7	0	0	0	0
Sagar Island	0830	3	1011·7	1011·4	−0.1	27·0	22·4	20·0	23·4	67	−6	1·8	−1·2	12·2	0	8	23	5	3	0	0	7	8	3	5	0	0
	1730	,,	1007·9	1007·6	..	27·6	23·8	22·0	26·4	72	..	2·7	..	14·7	0	3	28	0	0	0	12	14	4	0	1	0	0
Saugheads	0530	10	1009·5	1008·4	..	25·5	23·5	22·7	27·6	85	..	1·8	..	13.0	0	1	29	0	1	0	0	0	14	11	4	1	0
	0830	,,	1012·0	1010·9	−0·2	26·7	23·6	22·1	26·6	77	+3	1·4	−0·8	11·2	0	1	28	3	2	0	0	0	15	7	2	2	0
	1130	,,	1011·5	1010·4	..	27.9	24·1	22·4	27·1	71	..	1·1	..	10.5	0	0	29	2	2	0	0	3	16	4	2	2	0
	1730	,,	1008·3	1007·2	..	27·1	23·8	22·2	26·7	74	..	1·8	..	12.0	0	3	25	0	0	1	2	8	17	0	0	3	0
	2330	,,	1010·0	1008.9	..	26·3	23·8	22·7	27·6	8[illegible]	..	0·2	..	13·9	0	1	30	0	0	0	1	3	25	2	0	0	0
Orissa Baripada	0830	54	1013·5	1007·3	..	26·6	18·4	12·5	14·5	43	..	0·3	..	3·9	0	0	26	7	7	0	1	1	4	1	5	5	0
	1730	,,	1008·9	1002·8	..	32·3	21·3	14·7	16·7	36	..	1·7	..	4·3	0	0	25	2	3	0	9	2	3	1	5	6	0
Jharsuguda	0230	230	1010.2	983·9	..	20·7	15·8	12·0	14·0	58	..	0·9	..	3·0	0	0	19	4	4	2	1	2	0	2	4	12	0
	0530	,,	1010·9	984·5	..	19·4	15·8	13·1	15·1	65	..	1·9	..	2·6	0	0	14	6	6	0	0	1	1	0	0	17	0
	0830	,,	1013·1	987·0	+0·9	24·6	17·2	11·6	13·7	45	−2	2·6	+0·7	5·3	0	1	25	10	10	0	2	0	0	2	1	6	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millbirs: At mean sea level or height in g.p.m. of standard nearest isobaric level	Mean pressure millbirs: At station level	Mean pressure millbirs: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Jharsuguda—contd.	1130	,,	1011·9	986·4	..	31·2	18·8	9·2	11·6	27	..	2·6	..	7·5	0	1	28	8	3	2	3	2	2	4	5	2	0
	1730	,,	1007·9	982·5	..	32·0	18·8	8·3	10·9	24	..	3·5	..	6·7	0	0	24	3	4	0	0	4	3	3	7	7	0
	2330	,,	1010·6	984·5	..	23·5	17·0	12·1	14·1	50	..	1·0	..	2·9	0	0	19	5	4	3	1	2	0	1	3	12	0
Keonjhargarh	0830	463	1012·9	958·5	..	25·2	18·6	14·6	16·6	53	..	1·4	..	2·5	0	0	24	6	4	1	2	0	2	0	9	7	0
	1730	,,	1008·1	954·8	..	29·9	20·2	14·6	16·6	43	..	3·0	..	3·0	0	0	29	4	2	0	3	1	1	7	11	2	0
Balasore	0830	20	1012·4	1010·1	+0·4	27·0	21·3	18·0	20·6	59	−8	2·2	+0·3	6·1	0	0	30	11	4	0	2	3	4	2	4	1	0
	1730	,,	1008·5	1006·2	..	28·5	23·5	21·0	24·9	65	..	3·5	..	9·1	0	0	31	0	0	0	12	16	3	0	0	0	0
Sambalpur	0830	148	1012·9	996·1	+0·8	26·2	18·9	14·1	16·1	47	−4	2·2	+0·8	0·8	0	0	7	1	1	0	0	2	0	1	2	24	0
	1730	,,	1008·3	991·9	..	31·3	21·0	14·4	16·4	37	..	1·7	..	0·5	0	0	4	1	1	0	0	0	1	0	1	27	0
Angul	0830	139	1013·3	997·5	+1·2	25·7	20·2	16·9	19·3	60	0	2·3	0	2·3	0	0	22	0	1	1	2	2	7	5	4	9	0
	1730	,,	1008·4	993·1	..	33·2	22·9	17·3	19·7	38	..	2·9	..	5·0	0	1	24	3	3	3	2	1	0	6	7	6	0
Cuttack	0830	27	1012·9	1009·9	+9·7	26·2	21·6	19·1	22·1	65	−6	1·2	−1·3	3·0	0	0	13	0	1	0	0	1	2	7	2	18	0
	1730	,,	1008·7	1005·7	..	32·3	22·6	17·2	19·6	43	..	2·5	..	7·0	0	0	21	0	1	0	4	2	12	0	2	10	0
Chandbali	0830	6	1012·5	1011·8	+0·6	26·4	21·9	19·5	22·7	68	−8	1·3	+1·3	4·1	0	0	28	1	1	1	2	1	10	2	10	3	0
	1730	,,	1009·2	1008·5	..	28·5	22·4	19·1	22·1	57	..	1·8	..	7·3	0	0	30	0	0	1	27	1	1	0	0	1	0
Bolangir	0830	190	1012·8	991·5	..	25·1	19·4	15·8	17·9	58	..	1·9	..	3·3	0	0	31	10	7	0	2	4	3	0	5	0	0
	1730	,,	1008·2	987·2	..	32·2	21·5	15·1	17·1	36	..	3·0	..	4·6	0	0	31	15	9	1	0	0	0	0	6	0	0
Phulbani	0830	464	1010·9	959·0	..	22·5	18·1	15·5	17·6	63	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1005·8	955·3	..	30·9	19·9	13·2	15·2	35	..	1·1	..	1·1	0	0	7	4	0	0	1	0	0	1	1	24	0
Titlagarh	0830	211	1010·5	987·1	..	30·4	29·2	21·4	36·5	85	..	0	..	3·0	0	0	31	0	27	0	4	0	0	0	0	0	0
	1730	,,	1010·6	987·3	..	31·9	29·4	28·5	38·9	83	..	0·1	..	2·9	0	0	30	0	27	0	3	0	0	0	0	1	0
Bhubaneswar	0230	46	1009·8	1004·5	..	23·4	21·5	20·6	24·3	84	..	1·0	..	4·8	0	0	18	0	0	0	0	4	9	4	1	13	0
	0530	,,	1010·6	1005·2	..	22·6	20·7	19·8	23·1	85	..	1·9	..	5·0	0	1	16	2	3	0	0	1	6	4	1	14	0
	0830	,,	1012·5	1007·3	+0·5	26·7	21·8	19·2	22·2	64	−6	1·3	−1·0	5·5	0	1	20	4	1	1	0	1	6	5	3	10	0
	1130	,,	1011·7	1006·5	..	32·5	21·4	14·5	16·5	35	..	1·5	..	8·6	0	1	25	3	3	1	2	1	8	5	1	5	2
	1730	,,	1008·7	1003·5	..	30·3	21·5	16·5	18·9	45	..	3·1	..	15·9	0	8	23	1	1	0	8	14	4	1	2	0	0
	2330	,,	1011·1	1005·8	..	24·8	22·0	20·5	24·1	78	..	1·6	..	9·5	0	2	25	1	0	1	0	8	16	1	0	4	0
Puri	0830	6	1012·9	1012·2	+0·8	27·1	23·2	21·2	25·2	68	−9	(a) 2·2	−0·1	(a) 11·9	0	3	27	3	2	0	4	4	14	1	2	0	0
	1730	,,	1009·5	1008·7	..	27·1	24·3	23·1	28·3	78	..	2·4	..	18·5	0	9	22	0	0	1	3	20	7	0	0	0	0
Gopalpur	0530	17	1010·6	1008·7	..	22·5	20·4	19·2	22·2	82	.	2·8	..	3·8	0	0	23	3	0	0	0	0	7	3	10	8	0
	0830	,,	1012·9	1011·0	+1·0	27·1	22·0	19·2	22·2	63	−11	2·0	+1·0	7·5	0	0	28	7	2	0	0	6	6	0	7	3	0
	1130	,,	1012·2	1010·3	..	29·7	24·2	21·5	25·6	62	..	1·5	..	15·9	0	10	21	0	1	4	7	13	6	0	0	0	0
	1730	,,	1009·2	1007·3	..	27·2	24·3	22·9	27·9	78	..	2·8	..	20·5	0	14	17	0	0	2	3	13	13	0	0	0	0
	2330	,,	1011·3	1009·3	..	25·2	22·7	21·5	25·6	80	..	2·2	..	12·2	0	7	18	2	0	0	0	7	13	2	1	6	0
Koraput	0830	913	1538·9	913·1	+0·7	25·3	17·5	12·3	14·3	44	+17	1·4	+0·1	5·7	0	1	30	1	2	1	5	9	10	0	3	0	0
	1730	,,	1596·3	909·2	..	27·6	17·7	10·9	13·6	35	..	2·8	..	6·9	0	0	31	15	1	4	1	3	1	5	1	0	0
Bihar Plateau																											
Dumka	0830	149	1011·9	994·9	+0·2	25·9	17·1	10·5	12·7	39	−5	0·5	−0·7	2·4	0	0	10	0	0	0	0	0	8	2	0	21	0
	1730	,,	1007·6	991·3	..	30·5	17·6	6·6	9·7	25	..	1·3	..	5·7	0	0	24	0	0	0	0	0	16	6	2	7	0
Daltonganj	0830	221	1013·0	987·6	+0·5	20·8	16·0	12·3	14·3	59	+5	2·2	+1·0	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	,,	1007·7	983·2	..	30·1	19·9	13·3	15·3	37	..	2·5	..	3·8	0	0	19	2	1	0	1	2	0	1	12	12	0
Hazaribagh	0830	611	1012·3	944·5	+1·2	23·4	14·6	7·3	10·2	37	+1	1·1	−0·6	6·7	0	2	21	1	1	0	0	0	3	2	16	8	0
	1730	,,	1007·9	941·3	..	27·4	15·1	4·5	8·4	23	..	2·2	..	13·1	0	2	28	2	0	0	2	0	1	0	25	1	0
Dhanbad	0830	257	1012·5	983·4	..	24·8	17·7	12·7	14·7	47	..	0·9	..	4·0	0	0	31	2	1	3	0	0	2	18	4	0	1
	1730	,,	1007·8	979·5	..	30·4	20·0	12·9	14·9	33	..	2·0	..	6·6	0	1	26	3	0	1	0	1	0	5	10	4	7
Ranchi	0830	655	1012·2	940·0	+1·2	24·7	16·9	11·6	13·7	45	+6	1·1	−0·5	1·9	0	0	18	1	3	3	2	0	2	0	7	13	0
	1730	,,	1010·3	938·7	..	26·8	18·6	13·5	15·5	44	..	2·0	..	1·5	0	0	15	1	2	0	3	0	2	0	7	16	0
Ranchi Aerodrome	0530	652	1011·4	938·0	..	17·9	12·3	7·3	10·2	51	..	2·3	..	2·6	0	0	16	3	0	0	0	0	1	2	10	15	0
	0830	,,	1012·3	940·2	..	23·7	14·9	7·7	10·5	37	..	1·8	..	5·5	0	0	25	6	1	1	0	0	4	1	12	6	0
	1130	,,	1010·9	939·8	..	27·9	15·8	5·7	9·1	25	..	1·9	..	11·1	0	0	31	6	0	2	0	2	2	4	15	0	0
	1730	,,	1007·3	936·3	..	27·1	15·5	5·7	9·1	25	..	2·2	..	10·1	0	0	21	4	0	0	0	1	1	1	14	0	0
Jamshedpur	0830	129	1012·9	998·1	+1·0	23·8	17·3	12·7	14·7	51	−1	1·4	−0·4	3·7	0	0	22	0	0	2	0	0	2	13	5	9	0
	1730	,,	1007·7	993·5	..	32·8	19·0	8·1	10·8	22	..	2·5	..	4·5	0	0	23	2	0	1	0	0	0	9	11	8	0
Jamshedpur (P.B.O.)	0530	142	1010·9	994·5	..	18·7	15·7	13·2	15·2	70	..	1·1	..	1·3	0	0	11	0	0	0	0	1	1	4	5	20	0
	0830	,,	1013·0	996·8	..	23·8	17·6	13·1	15·1	52	..	1·4	..	3·6	0	0	24	2	0	0	0	0	6	11	5	7	0
	1130	,,	1011·5	995·7	..	31·2	19·9	12·3	14·3	31	..	1·8	..	7·1	0	0	28	2	3	0	1	2	7	7	6	3	0
	1730	,,	1007·7	992·0	..	32·0	19·9	11·6	13·7	28	..	3·0	..	7·5	0	0	29	0	3	1	0	0	4	3	18	2	0
	2330	,,	1010·5	994·3	..	23·2	17·5	13·6	15·6	55	..	0·7	..	4·1	0	0	22	1	6	1	2	0	3	2	7	9	0

(c) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Wind speed (Km.p.h.): Mean wind velocity in Kms. per hour	62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—*Contd.*																											
Chaibasa	0830	226	1012·7	987·0	+0·9	25·0	17·0	10·7	12·9	44	−14	1·4	+0·3	2·7	0	0	25	0	4	0	1	0	20	0	0	6	0
	1730	,,	1007·7	982·6	..	31·7	18·4	7·4	10·3	23	..	2·7	..	4·5	0	0	30	0	12	0	2	0	6	0	10	1	9
Bihar Plains																											
Motihari	0830	66	..	..	..	..	..	..	...	..	..	(n) 0·5	−0·5	0·8	0	0	2	0	0	1	0	0	1	0	0	14	0
	1730	,,	..	..	..	..	..	..	..	..	..	(k) 1·3	..	(i) 1·3	0	0	3	0	0	0	0	0	0	1	2	19	0
Forbesganj	0830	61	1011·7	1004·7	..	22·3	17·0	13·1	15·1	57	..	1·4	..	6·0	0	0	28	0	4	8	2	0	0	12	2	3	0
	1730	,,	1006·9	1000·2	..	28·8	18·4	10·5	12·7	33	..	1·5	..	6·6	0	0	29	1	1	0	0	0	0	27	0	2	0
Darbhanga	0830	49	1012·3	1006·7	+1·0	25·0	19·0	15·0	17·0	56	+2	1·0	−0·3	3·2	0	0	26	0	2	5	0	0	4	12	3	5	0
	1730	,,	1008·1	1002·6	..	28·4	19·5	13·5	15·5	43	..	0·6	..	2·3	0	0	22	1	0	1	0	0	1	14	5	9	0
Chapra	0830	..	..	..	..	22·6	16·4	11·6	13·7	51	..	1·3	..	4·9	0	0	25	0	1	3	0	0	16	4	1	6	0
	1730	..	..	..	..	29·0	18·5	10·9	13·0	33	..	2·0	..	4·6	0	0	24	0	0	1	0	0	14	3	6	7	0
Purnea	0830	38	1012·2	1007·8	+0·6	22·9	16·7	12·0	14·0	52	−8	1·5	+0·1	3·5	0	0	23	1	0	5	0	0	5	12	0	8	0
	1730	,,	1007·7	1003·4	..	28·3	18·1	10·5	12·7	35	..	1·3	..	3·0	0	0	17	0	0	0	0	0	4	13	0	14	0
Patna	0830	53	1011·9	1005·8	+0·3	23·2	16·3	11·0	13·1	48	+2	1·9	+0·5	9·5	0	0	28	0	1	2	0	3	3	17	2	3	0
	1730	,,	1008·0	1002·1	..	30·1	18·2	8·8	11·3	27	..	1·8	..	8·7	0	0	31	0	1	1	0	0	0	29	0	0	0
Patna Aerodrome	0530	60	1009·6	1002·7	..	17·1	13·7	10·8	12·9	67	..	1·4	..	4·9	0	0	17	0	1	0	1	3	3	6	2	14	0
	0830	,,	1011·7	1004·9	..	23·2	16·8	11·9	13·9	50	..	1·8	..	10·6	0	2	24	1	1	1	0	1	3	15	4	5	0
	1130	,,	1011·2	1004·5	..	29·7	18·3	9·4	11·8	30	..	1·9	..	15·5	0	8	23	0	0	0	2	2	1	11	15	0	0
	1730	,,	1007·7	1001·0	..	29·7	18·1	8·9	11·4	29	..	2·2	..	11·1	0	3	25	1	0	0	1	0	1	10	15	3	0
	2330	52	1010·2	1004·2	..	22·2	16·5	12·8	14·8	57	..	1·3	..	2·2	0	0	10	0	0	2	0	0	0	6	1	21	1
Bhagalpur	0530	49	1010·3	1004·7	..	20·2	14·5	9·5	11·9	53	..	1·5	..	7·3	0	0	25	0	0	0	0	7	11	5	0	6	1
	0830	,,	1012·6	1007·0	+0·9	24·6	16·8	10·6	12·8	43	−10	1·5	−0·2	8·0	0	3	21	1	1	1	0	0	10	8	1	7	0
	1130	,,	1011·8	1006·4	..	30·4	18·6	9·5	11·9	29	..	1·3	..	14·8	0	12	14	0	0	2	0	0	1	20	3	5	0
	1730	,,	1008·2	1002·8	..	28·6	18·3	10·4	12·6	34	..	1·6	..	11·1	0	9	16	0	0	1	0	0	0	21	3	6	0
	2330	,,	1010·2	1004·6	..	23·6	16·0	9·7	12·0	43	..	0·6	..	9·0	0	2	24	0	0	3	0	0	13	8	0	5	0
Sabaur	0830	37	1012·1	1007·8	+1·0	23·7	18·6	15·2	17·3	59	+9	1·5	−0·3	7·2	0	0	29	3	0	9	2	0	7	15	5	2	0
	1730	,,	1007·7	1003·5	..	29·5	21·8	17·3	19·7	49	..	1·7	..	8·2	0	0	29	0	0	1	0	0	0	10	18	2	0
Jamui	0830	82	1012·8	1003·3	..	24·8	19·1	15·4	17·5	58	..	0·9	..	3·3	0	0	23	2	0	5	2	0	0	4	19	8	0
	1730	,,	1008·2	998·9	..	30·6	21·3	15·6	17·7	41	..	1·5	..	5·6	0	0	31	1	0	3	0	0	0	7	20	0	0
Dehri	0830	107	1012·4	1000·1	..	24·8	17·5	12·0	14·0	46	..	1·7	..	3·5	0	0	31	1	0	1	2	3	13	8	3	0	0
	1730	,,	1007·8	995·8	..	31·1	18·5	8·5	11·1	25	..	1·7	..	5·1	0	0	31	0	1	0	0	0	0	20	10	0	0
Gaya	0230	116	1010·5	997·0	..	18·4	14·2	10·6	12·8	61	..	1·3	..	3·3	0	0	23	0	0	2	2	8	9	1	0	8	1
	0530	,,	1010·8	997·2	..	16·9	13·4	10·2	12·4	67	..	1·2	..	2·7	0	1	15	0	0	1	1	2	7	0	0	15	0
	0830	,,	1012·9	999·6	+1·3	24·5	17·8	13·1	15·1	50	+17	1·9	+0·5	8·3	0	1	26	0	0	1	1	2	11	11	2	4	0
	1130	,,	1012·3	999·2	..	30·7	20·0	12·8	14·8	34	..	1·7	..	16·2	0	10	21	0	0	1	1	0	3	15	11	0	0
	1730	,,	1008·4	995·5	..	31·1	20·0	12·4	14·4	32	..	2·1	..	14·1	0	6	25	4	1	1	0	0	1	7	17	0	0
	2330	,,	1011·1	997·6	..	20·5	15·2	10·9	13·0	55	..	1·3	..	4·0	0	0	23	0	1	1	0	5	10	6	0	8	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1011·9	997·2	+0·6	19·9	15·7	12·4	14·5	63	+7	2·5	+1·3	4·9	0	0	28	0	0	3	1	0	2	15	7	3	0
	1730	,,	1009·2	995·2	..	27·1	18·2	11·6	13·7	39	..	2·1	..	3·2	0	0	27	0	0	3	0	0	0	16	8	4	0
Nautanwa	0830	99	1011·7	1000·1	..	17·6	15·4	13·5	15·7	77	..	0·5	..	2·0	0	0	23	1	2	6	3	2	1	7	1	8	0
	1730	,,	1009·9	998·8	..	28·2	19·0	12·1	14·5	41	..	0·5	..	5·0	0	0	29	1	0	1	2	1	8	5	11	2	0
Hardoi	0830	142	1012·3	995·8	+0·5	19·1	15·7	13·0	15·1	69	+9	1·4	−0·3	..	0	0	16	2	0	2	0	0	2	8	2	15	0
	1730	,,	1008·7	992·8	..	29·2	18·9	11·1	13·5	34	..	1·5	..	..	0	0	20	1	0	1	0	0	1	10	7	11	0
Gonda	0830	110	1012·0	999·4	..	21·3	16·4	12·6	14·7	59	+11	(a) 1·9	+0·5	3·5	0	0	25	0	0	4	0	0	0	5	16	6	0
	1730	,,	1008·6	996·2	..	28·5	18·9	12·1	14·0	38	..	1·4	..	3·1	0	0	23	0	0	2	0	0	0	5	16	8	0
Lucknow	0830	111	1012·7	999·7	+1·1	20·8	15·8	11·8	31·9	58	+10	2·2	+0·8	2·4	0	0	25	0	0	4	0	1	3	14	3	6	0
	1730	,,	1009·3	996·8	..	29·3	17·9	8·9	11·0	29	..	1·8	..	2·0	0	0	20	0	0	3	0	0	0	15	2	11	0
Lucknow (Amausi)	0230	128	1010·2	995·3	..	17·0	14·1	11·6	13·7	73	..	1·5	..	9·3	0	2	26	2	0	1	2	1	3	13	6	3	0
	0530	,,	1010·4	995·4	..	14·9	13·2	11·6	13·8	81	..	1·6	..	10·9	0	1	27	2	0	2	0	1	2	16	5	3	0
	0830	,,	1012·3	997·6	+0·8	21·4	16·3	12·3	14·4	57	+18	2·3	+0·9	13·2	0	8	22	1	0	2	1	1	6	12	7	1	0
	1130	,,	1012·1	997·6	..	28·7	18·8	10·4	12·8	34	..	1·7	..	20·6	0	18	13	1	0	1	1	2	7	9	10	0	0
	1730	,,	1008·6	994·3	..	29·3	18·3	10·0	12·0	32	..	2·3	..	16·7	0	10	21	1	0	2	0	0	1	15	12	0	0
	2330	,,	1010·8	996·0	..	18·8	15·0	12·1	14·0	66	..	1·7	..	8·2	0	2	25	2	1	2	0	1	3	13	5	4	0
Faizabad	0830	102	1012·0	1000·2	..	21·1	16·3	12·7	14·9	61	..	2·0	..	5·2	0	0	28	0	0	1	1	1	2	12	9	3	2
	1730	,,	1008·4	996·9	..	27·8	19·1	12·9	15·0	41	..	1·7	..	4·3	0	0	26	0	1	0	1	0	0	9	14	5	1
Gorakhpur	0830	77	1010·8	1001·8	−1·8	22·1	16·4	12·1	14·0	55	+3	2·0	+0·9	6·6	0	0	30	0	1	4	1	0	9	13	2	1	0
	1730	,,	1007·1	998·3	..	30·4	18·2	8·5	11·0	30	..	1·6	..	11·0	0	0	30	0	1	0	1	1	2	7	9	1	0
Gorakhpur (PBO)	0230	78	1009·4	1000·3	..	21·1	15·7	12·3	14·3	59	..	0·8	..	5·3	0	0	20	1	0	0	0	1	4	13	0	11	0

(R) Register not received.

(a) Mean of 30 days.

(k) Mean of 20 days.

(n) Mean of 17 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Gorakhpur (P.B.O.) —(*Contd.*)	0530	78	1009·6	1000·5	..	19·5	15·0	11·9	13·9	63	..	1·6	..	6·5	0	0	27	0	3	1	0	0	4	16	3	4	0
	1130	,,	1011·6	1002·7	..	28·1	17·5	10·5	12·7	36	..	2·3	..	12·6	0	5	26	0	1	2	2	3	3	16	4	0	0
	2330	,,	1010·1	1001·1	..	22·7	16·2	11·9	13·9	53	..	0·7	..	6·0	0	0	25	0	5	0	0	0	7	12	1	6	0
Kanpur . . .	0830	126	1012·6	998·0	+0·9	20·0	15·6	12·8	14·2	64	+19	2·3	+1·5	5·0	0	1	26	2	0	1	2	0	5	13	4	4	0
	1730	,,	1009·2	995·2	..	30·2	19·7	12·2	14·5	34	..	1·9	..	8·3	0	2	29	2	0	2	0	0	2	16	9	0	0
Kanpur Aerodrome	0530	126	1010·7	995·9	..	17·1	13·8	11·1	13·1	69	..	1·9	..	3·8	0	1	9	0	0	1	0	0	0	7	2	21	0
	0830	,,	1012·4	997·9	..	21·7	16·2	11·9	13·9	55	..	2·2	..	7·7	0	1	23	2	1	1	2	1	2	10	5	7	0
	1130	,,	1012·4	998·2	..	28·9	18·8	11·7	13·5	35	..	2·0	..	15·1	0	3	28	2	0	1	2	1	3	10	12	0	0
	1730	,,	1008·9	994·7	..	30·0	19·1	10·7	13·2	32	..	2·9	..	12·2	0	1	28	2	2	1	0	0	1	12	11	2	0
	2330	,,	1011·0	996·4	..	20·7	15·9	12·0	14·0	60	..	1·5	..	3·4	0	1	10	1	0	2	0	0	0	6	2	20	0
Sultanpur . .	0830	97	1013·0	1001·8	..	21·8	16·4	12·3	14·3	57	..	2·0	..	3·3	0	0	29	0	1	0	2	0	4	14	8	2	0
	1730	,,	1008·7	997·9	..	30·4	18·6	9·7	11·8	31	..	2·1	..	4·8	0	0	31	0	0	3	0	0	0	3	25	0	0
Azamgarh . .	0830	78	1011·6	1002·7	..	22·6	17·7	14·6	16·3	62	..	1·6	..	5·2	0	0	31	1	0	4	0	0	0	26	0	0	0
	1730	,,	1008·3	999·6	..	30·5	20·9	15·3	16·9	41	..	1·5	..	5·1	0	0	31	2	0	2	0	0	0	27	0	0	0
Fatehpur . . .	0830	114	1012·9	999·7	..	22·1	16·9	13·0	15·1	57	+5	1·5	+0·2	5·7	0	0	31	3	0	2	3	0	8	8	7	0	0
	1730	,,	1008·8	996·1	..	30·0	20·1	13·3	15·4	38	..	1·8	..	6·5	0	1	28	2	0	1	2	0	1	4	19	2	0
Ballia . . .	0830	64	1012·3	1004·9	..	22·7	17·5	13·8	15·8	58	..	1·4	..	1·0	0	0	9	0	1	1	0	0	0	6	1	22	0
	1730	,,	1009·2	1002·1	..	30·8	22·2	16·9	19·7	45	..	1·7	..	3·5	0	0	22	1	1	1	0	0	1	14	4	9	0
Banda . .	0830	121	1013·7	999·7	..	21·6	16·9	13·4	15·5	61	..	0·9	..	2·1	0	0	31	0	2	0	2	0	13	2	12	0	0
	1730	,,	1008.4	994·8	..	30·9	20.7	14·1	16·1	37	..	1·2	..	2·1	0	0	31	0	4	0	1	0	9	0	17	0	0
Allahabad (Bamrauli)	0230	98	1010·5	999·1	..	19·1	14·8	11·3	13·4	63	..	1·3	..	3·4	0	0	20	1	1	1	0	3	6	3	5	11	0
	0530	,,	1010·9	999·4	..	17·7	14·1	11·0	13·3	66	..	2·0	..	2·8	0	0	20	1	1	1	0	1	7	8	1	11	0
	0830	,,	1013·0	1001·7	+1·2	23·3	16·4	10·9	12·9	47	+3	2·5	+0·9	6·1	0	0	29	0	1	3	0	2	8	11	4	2	0
	1130	,,	1012·6	1001·6	..	30·6	18·2	8·1	10·8	26	..	2·0	..	8·6	0	0	30	6	2	0	2	2	1	10	7	1	0
	1730	,,	1008·8	997·8	..	30·7	18·1	7·3	10·5	26	.	2·3	..	8·1	0	1	29	2	0	1	0	0	1	12	14	1	0
	2330	,,	1011·0	999·7	..	21·4	15·7	10·9	13·2	53	..	1·5	..	2·4	0	0	15	3	0	2	0	1	3	3	3	16	0
Varanasi (Babatpur)	0530	85	1011·8	1001·6	..	17·2	13·9	11·3	13·2	69	..	1·5	..	7·6	0	1	25	2	0	1	1	2	17	3	0	5	0
	0830	,,	1013·6	1003·7	+1·5	23·3	17·3	12·8	14·9	53	+8	2·1	+0·5	11·0	0	2	28	0	0	1	1	2	16	7	3	1	0
	1130	,,	1013·2	1003·5	..	29·3	18·5	10·5	12·5	33	..	2.1	..	16·1	0	10	18	0	0	1	2	0	6	11	7	3	1
	1730	,,	1009·6	999·9	..	30·5	19·0	10·1	12·6	30	..	2·2	..	16·0	0	12	19	3	0	2	0	0	0	9	17	0	0
	2330	,,	1011·8	1001·8	..	21·5	15·9	11·3	13·3	54	..	1·2	..	8·0	0	0	27	2	1	2	1	1	9	8	3	4	0
Varanasi . .	0830	76	1012·7	1004·0	+1·1	22·7	16·7	11·9	14·1	53	+5	2·5	+1·1	3·0	0	0	31	0	1	0	1	2	5	18	4	0	0
	1730	,,	1008.4	999·9	..	31·1	19·1	9·7	12·3	29	..	2·0	..	3·6	0	0	31	3	1	0	0	0	1	16	10	0	0
Uttar Pradesh (West)																											
Mukhrin . (R)	0830																										
(R)	1730																										
Tehri . (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun . .	0530	682	1012·4	934·3	..	13·4	10·6	7·8	10·8	71	..	1·8	..	2·5	0	0	22	15	3	0	0	0	0	0	4	9	0
	0830	,,	1012·5	935·6	+1·0	17·9	13·0	9·0	11·4	57	—1	1·9	—0·9	1·3	0	0	18	3	0	1	0	0	3	5	1	13	0
	1130	,,	1012·1	936·4	..	22·7	15·0	9·1	11·5	44	..	2·3	..	4.2	0	0	29	1	0	0	2	5	12	6	3	2	0
	1730	,,	1008·9	933·6	..	23·7	15·2	8·6	11·1	40	..	2·5	..	2·4	0	0	30	1	1	0	0	2	5	12	9	1	0
	2330	,,	1012·6	935·2	..	16·3	12·4	9·1	11·5	64	..	0·7	..	4·5	0	0	29	16	11	0	0	1	0	0	1	2	0
Mussiari . (R)	0830																										
(R)	1730																										
Roorkee .	0830	274	1013·6	981·8	+1·7	16·7	13·8	11·8	13·5	73	+12	3.0	+1·1	1·7	0	0	26	0	0	0	3	0	0	0	23	5	0
	1730	,,	1010·5	979·7	..	26·4	18·3	12·2	14·5	42	..	3·4	..	2·0	0	0	31	0	0	0	2	0	1	0	28	0	0
Najibabad . .	0830	270	1012·7	981·4	..	16·9	13·9	11·6	13·5	72	..	2·2	..	1·8	0	0	21	0	3	0	4	0	7	0	7	10	0
	1730	,,	1010·1	979·7	..	26·8	17·3	9·6	12·0	36	..	1·9	..	3·7	0	0	29	0	1	1	3	0	15	2	7	2	0
Meerut . . .	0830	222	1014·5	988·7	+2·6	19·2	15·9	13·2	15·4	73	+16	1.0	—0·8	6·9	0	0	30	5	3	0	0	0	3	8	11	1	0
Bareilly . .	0830	173	1012·3	992·3	+1·0	20·2	15·8	12·4	14·4	62	+2	1·7	—0·1	4·9	0	0	31	1	2	1	2	1	3	14	7	0	0
	1730	,,	1008·6	989·1	..	27·7	17·8	9·7	12·3	35	..	2·1	..	1·4	0	0	14	1	0	2	0	0	0	10	1	17	0
Bareilliy (P.B.O.) .	0230	172	1010·1	990·2	..	18·8	14·6	11·5	13·2	64	..	1·0	..	5·0	0	1	23	1	1	1	0	0	0	14	7	7	0
	0530	,,	1010·3	990·2	..	17·4	13·8	11·3	12·9	68	..	1·8	..	3·7	0	0	23	1	0	2	0	0	0	11	9	8	0
	1130	,,	1012·0	992·4	..	25·7	16·9	11·0	12·7	42	..	2·1	..	8·6	0	1	28	1	1	2	0	1	0	10	14	2	0
	2330	,,	1010·8	991·0	..	20·7	15·5	11·7	13·4	58	..	1·0	..	4·5	0	0	22	0	0	2	1	0	1	12	7	8	0
Aligarh . . .	0830	187	1012·9	991·1	..	19·2	14·8	11·1	13·3	61	+14	2·2	+0·8	2·4	0	0	30	4	0	4	0	0	0	14	8	1	0
	1730	,,	1009·2	988·1	..	28·7	17.4	7·5	10·7	26	..	2·8	..	3·3	0		1	13	0	3	0	1	0	7	7	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Uttar Pradesh (West)—(Contd.)																										
Mainpuri	0830	157	1012·9	994·8	+1·2	20·6	15·9	12·2	14·3	58	+10	0·7	−0·9	..	..	..	..	3	0	0	4	1	2	9	5	7
	1730	,,	1008·8	991·3	..	29·7	18·4	9·6	12·0	30	..	1·5	..	..	..	..	..	0	0	0	2	1	1	14	7	6
Agra	0830	169	1013·1	993·7	+1·0	20·9	15·5	11·5	13·2	56	+13	1·2	−0·5	0	0	0	0	0	0	0	0	0	0	0	0	31
	1730	,,	1009·2	990·3	..	29·5	17·9	8·6	11·1	28	..	1·1	..	2·7	0	0	9	0	0	0	1	0	1	0	7	22
Agra Aerodrome	0530	169	1011·4	991·3	..	15·5	13·4	11·4	13·7	77	..	1·7	..	4·2	0	0	19	1	0	3	0	0	2	5	8	12
	0830	,,	1013·3	993·4	..	19·3	15·5	12·2	14·5	60	..	2·6	..	5·5	0	0	27	4	0	0	2	0	2	12	7	4
	1130	,,	1013·1	993·7	..	27·4	18·6	12·2	14·3	41	..	2·1	..	9·9	0	0	30	5	2	0	3	2	4	3	11	1
	1730	,,	1009·2	990·0	..	29·1	18·8	11·2	13·4	35	..	3·3	..	11·2	0	2	28	7	1	0	1	0	1	7	13	1
	2330	,,	1011·5	991·8	..	19·9	15·7	12·4	14·4	61	..	2·0	..	5·0	0	0	17	2	0	2	3	0	0	3	7	14
Orai (R)	0830	141																								
(R)	1730	,,																								
Jhansi	0830	251	1013·2	984·7	+0·8	23·4	15·7	8·9	11·6	45	+6	1·7	+0·6	0·9	0	0	8	3	0	0	0	0	0	4	1	23
	1730	,,	1008·8	981·1	..	31·4	18·3	7·5	10·4	24	..	2·3	..	2·4	0	0	23	6	0	3	1	0	0	7	6	8
Punjab (India) including Delhi																										
Pathankot	0530	312	1012·2	976·0	..	14·5	12·2	10·0	12·3	76	..	2·5	..	5·9	0	1	24	1	12	3	1	0	5	3	0	6
	0830	,,	1013·2	977·0	+1·2	17·1	13·6	10·5	12·8	66	+10	3·3	−0·4	5·2	0	1	22	0	13	6	2	2	0	0	0	3
	1130	,,	1013·0	977·6	..	22·8	15·9	9·9	12·5	47	..	3·6	..	6·0	0	1	27	0	5	0	4	3	11	3	2	3
	1730	,,	1010·3	975·1	..	24.2	16·3	9·7	12·2	42	..	4·2	..	8.3	0	1	28	2	1	1	1	0	8	11	5	2
Amritsar (Rajasa.)	0530	234	1012·2	984·5	..	12·8	11·9	11.1	13·3	90	..	1·5	..	8·1	0	3	17	2	5	4	2	0	2	1	4	11
	0830	,,	1013·4	986·0	+1·0	16.3	14·1	12·3	14·3	79	+6	2·6	−0·6	4·6	0	0	18	2	3	3	0	0	3	3	4	13
	1130	,,	1013·5	986·6	..	22·7	16·6	11·9	14·2	53	..	3·1	..	10·3	0	3	27	6	2	2	2	0	2	6	10	1
	1730	,,	1010·4	983·8	..	24·7	17·1	11.3	13·4	45	..	2·3	..	9·9	0	2	29	4	2	2	2	1	4	3	13	0
Adampur (Aerodrome) (R)	0530	238	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ludhiana	0830	247	1013·4	984·8	+1·5	16·3	13·9	11·3	13.7	72	+11	2·2	0	2·5	0	0	24	3	6	1	0	1	1	3	9	7
	1730	,,	1010·1	982.2	..	25·9	17·3	10.9	12·9	42	..	3·5	..	5·9	0	0	31	1	4	2	2	0	0	5	17	0
Ferozepore	0830	200	1013.0	989·5	..	15·4	13·8	12·5	14·5	83	..	2·2	..	1·9	0	0	20	1	7	1	0	1	1	0	9	11
	1730	,,	1010·0	987·3	..	25·3	18.0	12.7	14·7	48	..	2·3	..	2·1	0	0	22	1	5	0	2	0	3	0	11	9
Halwara Aerodrome	0830	242	1013·9	985·6	..	16·1	14·2	12·7	14·7	81	..	2·6	..	5·6	0	1	22	4	4	3	1	0	2	1	8	8
	1730	,,	1011·0	984·0	..	24.5	18·5	14.1	16·1	55	..	3·4	..	10·9	0	3	28	4	1	1	3	1	0	4	17	0
Chandigarh	0830	347	1012·6	972·7	+1·0	19·6	14·2	9·4	11·9	53	+1	1·7	+0·2	3·1	0	0	25	0	5	0	4	0	4	0	12	6
	1730	,,	1009·4	970·4	..	24·5	15.8	8·2	10·9	38	..	2·9	..	5·6	0	0	31	0	3	0	2	0	9	0	17	0
Ambala	0830	272	1012·6	981.2	+1·0	18·8	14·9	11·5	13·7	65	+9	0·9	−1·4	2·6	0	0	27	0	9	0	9	0	0	0	9	4
	1730	,,	1009·5	978·8	..	25.2	17·5	11·5	13·7	44	..	0·3	..	1·8	0	0	18	0	2	0	4	0	3	0	9	13
Ambala (P.B.O.)	0230	278	1011·0	978·8	..	17·3	14·1	11·9	13·9	71	..	2·4	..	6.4	0	1	21	1	1	2	3	0	1	3	11	9
	0530	,,	1010·9	978·6	..	15·9	13·3	11·4	13·5	76	..	2·1	..	5 2	0	0	20	3	2	0	4	0	0	2	9	11
	1130	,,	1012.3	980.8	..	24·2	17·2	13.0	15·0	51	..	2·7	..	7.5	0	1	25	2	1	0	4	0	1	2	16	5
	2330	,,	1011·5	979.5	..	19·0	15·4	13.0	14.8	69	..	1.8	..	6·5	0	0	25	4	3	1	1	0	0	2	14	6
Ambala (Aerodrome)	0530	274	1011·4	979·2	..	13·3	12·0	10.6	12.9	81	..	2.3	..	5·4	0	1	15	2	0	1	3	0	0	4	6	15
	0830	,,	1012·6	980.7	..	16·8	13.8	11.4	13.4	71	..	2·8	..	1·1	0	0	22	1	1	2	1	1	0	4	12	9
	1130	,,	1012·4	981.3	.	24.3	16.9	11·2	13·2	45	..	2.7	..	13·5	0	5	22	1	1	2	2	0	0	5	16	4
	1730	,,	1009·5	978·5	..	25·2	16.9	10·2	12·5	41	..	3·3	..	14·2	0	7	22	1	1	1	0	0	3	11	12	2
	2330	,,	1011·9	980·0	..	16·6	14.0	11·7	13·9	75	..	2·1	..	8.1	0	2	17	0	0	3	0	0	0	5	11	12
Patiala	0830	251	1013.1	983·8	..	18·8	14·9	11·7	13·7	65	..	2.9	..	8.8	0	1	27	5	2	1	4	0	6	0	16	3
	1730	,,	1010·2	981·9	..	25·0	17·4	11·7	13.7	45	..	3.2	..	6.4	0	1	24	1	1	0	1	0	0	0	22	6
Bhatinda	0830	211	1013·5	989·0	..	20.1	15·7	12.3	14.3	63	..	1·5	..	2.3	0	0	18	2	3	0	3	0	1	0	9	13
	1730	,,	1009·8	986·0	..	26.3	17.4	10.4	12.7	40	..	1·7	..	2.8	0	0	23	8	2	2	1	0	0	0	10	8
Karnal	0830	249	1013·5	984·8	..	19·7	16·0	12·8	15·2	67	..	0 3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1009.4	981·4	..	26·4	19·4	14·4	16·8	49	..	0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1011.9	985·9	..	14·8	12·9	11·2	13·4	79	..	2·1	..	6·0	0	0	27	3	2	2	2	2	6	4	6	4
	0830	,,	1013.3	987·6	+0·9	18·0	14·7	12·1	14·1	68	+17	2·2	+0·5	5·2	0	1	21	3	1	3	2	1	6	3	3	9
	1130	,,	1013.2	988·2	..	25.8	18·0	12·3	14·3	45	..	2·0	..	6·6	0	1	30	4	1	3	3	4	4	7	5	0
	1730	,,	1009·5	984·7	..	28.1	18·1	10·3	12·7	35	..	2·5	..	8·1	0	1	29	14	0	1	2	1	4	2	6	1
	2330	,,	1012·3	986·6	..	18·4	14·9	12·0	14·1	67	..	1·4	..	6.2	0	1	28	6	5	4	2	3	3	2	4	2

(R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in meters.	Mean pressure in millibars: At mean sea level or height in g.p.m. or nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) Including Delhi—*Contd.*																											
New Delhi (Safdarjang)	0230	216	1011·4	986·3	..	18·4	14·5	11·3	13·4	65	..	2·0	..	4·5	0	1	18	5	0	2	1	0	2	3	6	12	0
	0530	,,	1011·4	986.2	..	16·6	13·5	10.9	12·9	70	..	2·0	..	5·1	0	0	22	1	1	1	0	0	2	10	7	9	0
	0830	,,	1012·9	987·9	+0·9	19·2	14·7	11·0	13·0	60	+12	1·9	−0.3	9·2	0	0	23	1	1	2	2	1	1	8	13	2	0
	1130	,,	1013·0	988·5	..	26.1	17·0	9.6	12.0	37	..	1.8	..	14.2	0	8	23	1	0	2	2	1	3	5	17	0	0
	1730	,,	1009·3	985·0	..	27.9	17.2	8·2	10.9	31	..	2·7	..	11.6	0	2	29	3	4	2	2	0	1	2	17	0	0
	2330	,,	1011·7	986·8	..	20·6	15·5	11·4	13·5	57	..	1.5	−0.3	6·9	0	1	22	6	1	3	1	0	1	1	10	8	0
Palam Aerodrome	0230	,,	1011.5	984·5	..	17·1	14·2	11·7	13·8	73	..	1·7	..	7·0	0	2	23	5	3	4	0	4	4	3	2	6	0
	0530	,,	1011·7	984·3	..	14·6	12·6	10·9	12·9	79	..	1·7	..	6·8	0	1	28	2	1	2	1	4	9	7	3	2	0
	0830	,,	1013.0	986·1	..	18·8	15·2	12·3	14·4	67	..	2·2	..	8 5	0	1	28	4	1	3	1	1	8	7	4	2	0
	1130	,,	1013·0	986·6	..	26·1	18·3	12·8	14·7	45	..	1·8	..	15·6	0	8	23	2	1	0	4	0	4	9	11	0	0
	1430	,,	1010·3	984·3	..	28·8	18·9	11·5	13·7	36	..	2·5	..	18·3	0	11	20	4	0	0	1	0	1	8	17	0	0
	1730	,,	1009.2	983.1	..	27.9	18.4	10·9	13.5	37	..	2.5	..	14.5	0	4	27	5	1	5	1	0	1	2	16	0	0
	2030	,,	1010.9	984.2	..	22.3	16.9	12.6	14·9	54	..	1.8	..	8.3	0	3	25	11	5	5	0	1	0	0	6	3	0
	2330	,,	1011.7	984.8	..	20.0	15.6	12.1	11.2	62	..	1.5	..	8.4	0	2	27	7	7	4	3	0	2	1	5	2	0
Himachal Pradesh Mandi	0830	761	1015.0	928.1	+0.8	12.5	10.4	8.5	11.1	78	−2	2.9	−1·1	0·1	0	0	2	0	0	0	0	0	0	0	2	29	0
	1730	,,	1008.9	925.0	..	22.1	15.8	11.2	13.1	53	..	3.7	..	1.2	0	0	10	0	4	0	1	2	0	2	1	21	0
Solapur	0830	493	1014.7	958.2	..	15.6	12.8	10.6	12.8	73	..	2.5	..	..	0	0	2	2	0	0	0	0	0	0	0	29	0
	1730	,,	1009.5	954.8	..	24.2	15 6	9·0	11·5	40	..	3.3	..	..	0	1	1	0	0	1	0	0	1	0	0	29	0
Jammu and Kashmir Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh (R)	0830																										
(R)	0830																										
(R)	1730																										
Srinagar	0830	1587	1523.5	844·2	+1·3	6.7	5.1	3.4	7.7	80	—5	4·5	−4	1·5	0	0	20	2	2	0	11	0	0	0	5	11	0
	1130	,,	1522·2	843·6	..	12.1	7·8	3·6	7·9	58	..	4.5	..	1·9	0	0	20	3	2	1	3	3	1	3	4	11	0
	1730	,,	1493.0	840·7	..	13·6	8·1	2.7	7·3	49	..	5.9	..	3·8	0	1	22	3	0	0	6	2	1	5	6	8	0
Srinagar Aerodrome	0530	1666	1508·1	834·2	..	4·6	3·1	1·3	6·9	80	..	3·6	..	3·0	0	0	15	1	2	3	3	1	1	2	2	16	0
	0830	,,	1516·5	835.3	..	6·5	4·5	2·2	7·2	75	..	4·6	..	5·9	0	0	31	0	0	5	9	6	4	4	3	0	0
	1130	,,	1516·0	835·5	..	11·5	7·3	3·1	7·7	58	..	4·8	..	6.0	0	0	31	9	3	7	1	2	0	0	9	0	0
	1730	,,	1486·5	832·7	..	13·2	7.4	1·2	6·6	47	..	6.1	..	9·9	0	2	29	5	4	1	3	2	3	2	11	0	0
	2330	,,	1509·2	834·4	..	6·1	4·8	2·2	7·2	72	..	3.7	..	4·9	0	0	19	5	0	3	1	0	3	4	3	12	0
Gulmarg	0830	..							Closed	during	winter	months															
	1730	..																									
Banihal	0830	..	..	..	..	7·8	5·1	2 3	6·9	71	..	3·8	..	0·4	0	0	2	2	0	0	0	0	0	0	0	29	0
	1730	..	..	..	..	13·1	7·9	2·6	7·2	53	..	5·7	..	2·7	0	0	10	1	1	2	0	2	0	2	2	21	0
Jammu*	830	..	..	..	..	12·6	..	..	..	..		..	..	7·2	0	0	31	11	14	3	1	2	0	0	0	0	0
Jammu (Aerodrome)	5030	292	1012·3	977·9	..	14·8	12·2	9·6	12·1	72	..	3·2	..	7·0	0	1	21	2	19	1	0	0	0	0	0	9	0
	0830	,,	1013·2	979·1	..	17·1	13.3	9·8	12·2	63	..	4·1	..	6·5	0	1	24	2	18	3	1	0	0	0	1	6	0
	1130	,,	1013·5	979·9	..	22·0	15·5	10·1	12.3	49	..	4·3	..	6·2	0	1	22	2	4	1	4	2	6	2	2	8	0
	1730	,,	1010·4	977·1	..	23·5	16·2	10·1	12·5	44	..	4·4	..	7·2	0	1	24	1	1	1	2	4	6	10	0	6	0
	2330	,,	1013·0	978·9	..	16·7	13·3	10·2	12·5	66	..	3.4	..	5·1	0	1	14	4	7	2	0	0	1	1	0	16	0
Rajasthan (West) Ganganagar	0530	177	1011·7	990·9	..	15·5	13·0	10·7	12·9	74	..	1·6	..	3·9	0	0	24	3	11	4	3	1	0	1	1	7	0
	0830	,,	1013·2	992·4	+1·1	17·2	13·6	10·5	12·7	65	+2	2·0	+0.1	3·4	0	0	22	2	5	5	2	3	3	2	0	9	0
	1130	,,	1013·4	993·3	..	25.3	16·9	9·9	12·5	39	..	2·3	..	5·6	0	0	30	3	5	1	5	3	4	4	5	1	0
	1730	,,	1009·5	989·6	..	28·0	17·2	7·9	10·9	30	..	2·4	..	3·0	0	0	23	10	2	1	1	0	2	3	4	8	0
	2330	,,	1012·1	991·6	..	19·3	14·9	11·0	13·4	61	..	0·8	..	3·5	0	0	24	5	6	6	3	0	2	0	2	7	0
Anupgarh (R)	0830	,,																									
(R)	1730	,,																									
Mahajan	0830	..	..	..	..	19·9	16·7	14·2	16·4	71	..	1·5	..	2.4	0	0	13	1	2	4	2	0	3	0	1	18	0
	1730	..	..	..	..	29·1	22·1	17·5	20·9	53	..	2·5	..	6·1	0	0	22	6	2	0	0	0	4	1	9	9	0
Churu	0830	291	1013.7	1008·7	..	18·1	14·4	11·2	13·4	65	..	1·9	..	3.5	0	1	21	2	1	11	1	2	0	3	2	9	0
	1730	,,	1013·7	976·0	..	30.0	20·4	13·3	16·2	38	..	3·4	..	5·6	0	1	30	10	1	1	0	1	3	6	9	0	0
Bikaner	0830	224	1013·2	987·2	+1·1	18·8	12.8	6·6	9.9	47	+4	0·8	−1·0	4.9	0	0	31	3	2	6	16	0	3	1	0	0	0
	1730	,,	1008·5	983·6	..	30·4	16·5	2·4	7·5	18	..	1·5	..	6·6	0	0	29	6	5	4	1	0	5	3	5	2	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amoun (Oktas): Departure from normal	Cloud amoun (Oktas): Mean amount	Cloud amoun (Oktas): Departure from normal	Km. Mean wind speed per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Rajasthan (West) —Contd.																										
Bikaner (PBO.)	0530	224	1011·5	985·3	..	16·3	12·0	7.3	10·2	58	+4	1·7	..	1.0	0	0	3	0	0	0	1	1	1	0	0	28
	1130	,,	1012·6	987·4	..	27·9	16·7	6·2	9·9	27	..	1·9	..	3.5	0	0	18	2	5	2	3	3	1	2	0	13
	2330	,,	1011.5	985·7	..	21·1	14·2	7·4	10.7	44	..	1·9	..	4·0	0	2	12	4	6	1	0	0	2	0	1	17
Nagaur	0830	298	1012.6	978·9	..	22·5	15·6	9·6	12·1	46	..	2·1	..	6·5	0	1	30	2	6	6	6	4	5	1	1	0
	1730	,,	1007·8	974.9	..	30·3	18·9	10.1	12.5	31	..	3·2	..	6·3	0	0	31	4	4	2	1	4	7	4	5	0
Phalodi	0330	234	1013·1	986·1	..	19·5	13·4	7·2	10·4	46	..	2.5	..	9·1	0	1	30	3	5	5	7	5	3	3	0	0
	1730	,,	1009·3	983·3	..	30·7	17·8	6·1	9·9	24	..	1·7	..	11·9	0	7	24	2	1	6	0	2	9	7	4	0
Jaisalmer	0830	242	1012·0	984·1	..	19·6	13·7	7·8	10·9	47	..	1·7	..	10·5	0	3	24	8	7	4	1	2	3	2	0	4
	1730	,,	1007·5	980·9	..	31·1	16·7	0·5	7.2	16	..	2·1	..	13·3	0	7	24	8	4	0	2	4	6	5	2	0
Jodhpur	0230	224	1011·1	985·3	..	20·9	13·2	5·5	9·0	37	..	1·7	..	7·2	0	1	24	1	15	2	1	0	2	4	0	6
	0530	,,	1011·2	985·2	..	19·1	12·7	6·0	9·5	44	..	1·7	..	8·5	0	1	28	5	14	1	1	0	2	4	2	2
	0830	,,	1012·7	986·9	+1·7	21·1	13·5	5·6	9·3	38	+2	2·1	+0·1	7·5	0	3	24	1	15	6	0	1	2	2	0	4
	1130	,,	1012·5	987·3	..	28·7	16·7	5·4	9·3	24	..	2·3	..	9·9	0	3	28	0	1	5	11	4	7	2	1	0
	1730	,,	1008·1	983·3	..	32·0	17·0	2·0	7·2	16	..	3·0	..	9·0	0	2	27	1	3	2	1	4	12	4	2	2
	2330	,,	1010·8	985·3	..	23·7	14·5	5·3	9·2	32	..	2·0	..	7·9	0	2	25	7	10	3	2	0	2	3	0	4
Barmer (R)	0530	194																								
(R)	0830	,,																								
(R)	1130	,,																								
(R)	1730	,,																								
(R)	2330	,,																								
Munabao	0830	80	1012·8	1003·6	..	20.2	15·0	10·1	12·8	54	..	2·6	..	6·1	0	2	24	0	8	7	2	2	5	1	0	5
	1730	,,	1008·5	999·6	..	32·8	19·1	7·7	10·0	22	..	2·5	..	10·1	0	5	23	1	1	2	0	2	12	8	1	3
Rajasthan (East)																										
Pilani	0830	301	1013·6	979·1	..	20·3	14·7	9·9	12·2	52	..	1·1	..	9·1	0	0	29	0	1	6	9	4	2	3	4	2
	1730	,,	1009·2	975·7	..	29·0	16·9	5·6	9·5	23	..	1·6	..	13·5	0	2	29	13	3	1	1	1	1	6	5	0
Sikar	0830	433	1013·6	964·8	..	22·2	16·5	12·1	14·2	55	..	2·5	..	2·4	0	0	25	4	1	9	2	2	2	3	2	6
	1730	,,	1008·3	960·8	..	29·6	19·6	11·8	14·7	37	..	2·6	..	2·0	0	0	20	1	2	0	0	0	3	10	4	11
Alwar	0830	271	1012·2	931·1	..	20·3	15·3	11·3	13·4	58	..	1·9	..	1·0	0	0	9	5	0	0	0	0	1	1	2	22
	1730	,,	1008·8	978·6	..	29·7	17·6	7·0	10·3	26	..	3·5	..	2·2	0	0	21	5	1	0	2	2	2	2	7	10
Jaipur (sanganer)	0230	390	1010·8	966·2	..	19·0	13·2	7·6	10·5	48	..	1.4	..	5·0	0	0	25	4	8	9	0	0	1	1	2	6
	0530	,,	1011·4	966·4	..	16·8	12·4	8·0	10·9	57	..	1·5	..	5·0	0	0	25	1	8	9	2	2	0	1	2	6
	0830	,,	1012·7	968·3	0	21·6	14·5	8·1	10·8	44	+7	1·7	0	5·8	0	0	25	1	4	9	3	1	1	3	3	6
	1130	,,	1012·1	968·7	..	27·6	16·2	5·5	9·2	26	..	1·7	..	9·0	0	0	31	0	0	3	11	5	4	4	4	0
	1730	,,	1008·0	965·0	..	29·4	16·4	3·8	8·1	21	..	3·7	..	9·0	0	3	28	3	3	1	1	2	3	11	7	0
	2330	,,	1011·2	966·8	..	20·6	13·8	7·3	10·3	43	..	1·7	..	7·0	0	1	25	7	7	8	1	0	0	1	2	5
Dholpur	0330	176	1012·7	992·3	..	20·8	15·8	11·9	13·9	58	..	2·3	..	3·8	0	0	22	1	1	0	4	4	2	3	7	9
	1730	,,	1008·2	988·5	..	29·6	18·4	9·5	12·1	29	..	3·5	..	5·7	0	0	25	12	1	1	0	1	1	4	5	6
Ajmer	0830	486	1013·4	985·2	+0·3	19·7	19·2	7·4	10·4	46	+10	1·5	+0·1	3·4	0	0	19	0	4	2	1	1	2	5	4	12
	1730	,,	1008·1	954·9	..	29·7	15·4	1·7	7·1	17	..	3·6	..	6·6	0	0	26	1	1	0	2	1	12	5	4	5
Tonk (R)	0830	272																								
(R)	1730	,,																								
Bhilwara	0830	..	..	..	..	19·3	14·0	9·1	11·7	54	..	1·9	..	3·5	0	0	25	5	3	3	0	1	3	5	5	6
	1730	..	..	..	..	30·4	17·7	6·4	9·9	23	..	3·5	..	(a) 4·4	0	0	29	4	8	1	1	2	6	4	3	1
Kota (Aerodrome)	0530	274	1011·9	980·4	..	19·2	13·2	6·9	10·4	46	..	1·3	..	5.2	0	0	19	1	0	2	1	0	6	9	0	12
	0830	,,	1013.2	981·9	..	22·2	14·8	7·9	10·9	41	..	1·9	..	7·1	0	1	24	0	4	10	2	0	0	5	4	6
	1130	,,	1012.7	982·1	..	28·9	17·2	6·9	10.2	26	..	2·1	..	10·6	0	2	28	4	2	9	4	3	1	3	4	1
	1730	,,	1008·2	978 0	..	31·7	17·6	4·3	8·7	19	..	3·5	..	12·1	0	4	25	7	6	6	0	1	1	6	2	2
	2330	,,	1011·7	980·6	..	23·6	15·0	6·9	10·1	36	..	2·0	..	7·0	0	0	22	0	2	2	1	3	5	7	2	9
Kota	0830	257	1013·0	983·7	+0·5	23·8	15·7	8·4	11·2	38	+4	1·7	+0·2	2·5	0	0	13	0	0	0	3	1	0	7	2	18
	1730	,,	1008·6	980·1	..	30·6	17·6	6·0	9·6	22	..	2·8	..	2·1	0	0	15	0	3	1	1	0	1	5	4	16
Erinpura (Jawai Dam)	0830	295	1013·1	979·1	..	19·9	16·8	14·6	16·6	72	..	2·0	..	6·3	0	0	25	0	0	1	8	10	2	3	1	6
	1730	,,	1008·2	975·6	..	30·3	24·3	21.8	25·2	59	..	3·5	..	8·7	0	3	22	2	2	0	0	2	3	15	1	6
Chambal (Rawat Bhatta Dam)	0830	351	1013·3	975·1	..	20·9	14·5	8·8	11·3	46	..	2·1	..	1·9	0	0	20	3	2	0	2	2	4	0	7	11
	1730	,,	1007·6	969·3	..	31·4	17·4	2·8	8·5	18	..	3·3	..	5·3	0	0	31	2	2	1	1	5	5	6	9	0
Udaipur	0230	582	1012·0	946·0	..	17·6	12·6	8·3	10·6	55	..	1·1	..	0·6	0	0	5	0	0	1	0	0	0	1	3	26
	0530	,,	1012·5	946·1	..	16·0	11·6	7·5	10·1	58	..	0·8	..	0·5	0	0	3	0	0	0	0	0	0	1	2	28
	0830	,,	1013·5	947·8	+0·2	19·6	13·5	8·1	10·5	48	+1	1·7	+0·4	0·3	0	0	1	0	0	0	0	0	0	0	1	30
	1130	,,	1011·9	948·0	..	27.9	16·4	6·9	9·8	28	..	2·3	..	2·5	0	0	15	0	4	3	0	2	2	3	1	16

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed, (Km.p h.): 62 or more	Wind speed, (Km.p h.): 20 to 61	Wind speed, (Km.p h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajsthan East—*Contd.*																											
Udaipur—*Contd.*	1730	582	1007·7	944·3	..	29·1	16·9	6·7	9·4	25	..	3·3	..	4·1	0	0	20	2	1	4	1	3	3	5	1	11	0
	2330	"	1011·9	946·5	..	20·4	14·1	8·9	10·9	49	..	1·2	..	1·3	0	0	8	0	0	0	1	0	3	3	1	23	0
Jhalawar	0830	321	1012·9	976·2	+0·2	21·3	14·6	8·4	11·2	44	+8	1·8	+0·6	0·5	0	0	5	1	1	1	0	0	1	0	1	26	0
	1730	"	1007·6	972·5	..	32·5	17·6	3·4	8·0	17	..	1·6	..	3·7	0	0	29	3	6	2	1	0	5	9	3	2	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1011·1	987·1	..	17·5	13·6	9·7	12·4	61	..	1·6	..	1·7	0	0	6	1	0	1	1	1	1	1	0	25	0
	0530	"	1011·3	987·1	..	16·5	12·7	9·1	11·6	64	..	1·3	..	1·4	0	0	8	0	0	0	3	2	2	0	1	23	0
	0830	"	1012·9	989·2	+0·8	22·3	15·4	9·4	11·8	45	+7	2·0	+0·7	2·5	0	0	17	4	0	2	1	2	5	1	2	14	0
	1130	"	1012·7	989·4	..	28·3	16·8	6·3	9·8	26	..	2·2	..	5·0	0	0	27	3	2	3	0	5	4	5	5	4	0
	1730	"	1008·8	985·4	..	30·3	16·8	3·8	8·1	21	..	3·4	..	6·6	0	0	29	14	2	1	2	0	0	3	7	2	0
	2330	"	1011·5	987·6	..	19·9	14·6	9·9	12·3	55	..	1·4	..	2·0	0	1	5	0	0	0	3	1	0	1	1	25	0
Sheopur	0830	235	1013·2	986·1	+1·0	20·9	15·1	10·1	12·3	51	+9	2·3	+0·4	4·0	0	0	25	4	3	2	4	6	3	2	1	6	0
	1730	"	1009·0	982·1	..	31·2	17·8	6·0	9·3	21	..	3·2	..	8·7	0	1	30	4	5	1	0	2	4	6	8	0	1
Shivpuri	0830	464	1012·7	960·4	..	22·7	14·5	7·4	10·5	39	..	1·9	..	7·1	0	1	26	1	4	7	3	8	1	1	2	4	0
	1730	"	1003·4	957·5	..	29·4	16·1	4·9	8·6	22	..	3·5	..	6·4	0	0	30	6	3	1	1	2	9	3	5	1	0
Nowgong	0830	229	1015·4	987·0	+0·9	20·0	15·0	11·0	13·0	57	+11	2·2	+0·4	2·6	0	0	21	0	1	1	0	6	10	0	3	10	0
	1730	"	1008·6	983·1	..	30·8	18·1	7·3	10·4	24	..	3·0	..	4·9	0	0	30	10	4	1	0	1	3	3	8	1	0
Guna	0530	478	1011·9	957·0	..	16·1	11·5	7·3	10·2	57	..	1·6	..	3·5	0	0	26	3	2	4	14	1	0	0	2	5	0
	0830	"	1012·9	959·1	0	22·4	14·7	8·3	11·1	41	+4	2·3	+1·3	4·3	0	0	29	0	3	5	14	3	0	4	0	2	0
	1130	"	1011·7	959·1	..	29·4	17·0	7·2	10·4	26	..	2·2	..	10·8	0	1	30	1	4	8	5	3	2	4	4	0	0
	1730	"	1007·7	955·4	..	30·1	16·7	5·5	9·3	22	..	3·4	..	11·3	0	5	26	1	2	4	6	1	0	6	11	0	0
	2330	"	1011·5	957·4	..	20·5	13·3	6·9	10·4	42	..	1·8	..	5·4	0	0	26	0	8	3	8	2	1	1	3	5	0
Nimach	0830	496	1013·5	957·4	+0·6	21·1	12·7	4·5	8·4	35	−2	2·3	+1·0	5·0	0	0	25	1	10	6	1	1	2	2	0	6	2
	1730	..	1008·0	953·9	..	30·6	15·2	0·6	6·1	14	..	3·5	..	9·8	0	1	28	2	7	1	2	1	5	7	2	2	2
Rajgarh	0830	382	1012·6	969·3	..	21·4	14·3	7·6	10·4	42	..	1·4	..	3·9	0	0	26	13	1	0	3	8	0	1	0	5	0
	1730	"	1007·2	965·5	..	31·7	17·9	5·1	8·8	20	..	2·0	..	6·5	0	0	31	14	0	3	0	6	1	7	0	0	0
Sagar	0830	551	1012·5	950·9	+0·6	23·2	15·2	8·6	11·2	41	+10	1·5	+0·2	6·1	0	0	29	0	6	10	2	1	4	5	1	2	0
	1730	"	1007·3	947·4	..	29·8	17·2	7·2	10·1	25	..	2·8	..	4·8	0	0	26	0	4	4	0	0	0	9	9	5	0
Ratlam	0830	486	1012·4	957·9	+0·3	22·2	15·0	9·2	11·6	45	+3	2·0	+0·1	8·5	0	0	27	3	9	8	1	3	1	2	0	4	0
	1730	"	1007·6	954·7	..	31·6	19·1	10·5	12·7	29	..	3·5	..	9·6	0	1	30	2	6	2	0	1	9	9	2	0	0
Bhopal (Bairagarh)	0230	523	1010·7	951·6	..	20·0	13·2	6·7	10·2	45	..	1·8	..	8·3	0	2	25	1	6	5	6	6	2	0	1	4	0
	0530	"	1011·3	951·9	..	18·1	12·2	7·3	9·9	51	..	2.5	..	7·5	0	0	27	5	4	5	4	4	3	1	1	4	0
	0830	"	1012·9	954·2	+0·4	22·7	14·7	7·9	10·9	41	+12	2·6	+1·5	9·5	0	1	29	2	4	5	9	5	2	3	0	1	0
	1130	"	1011·5	954·2	..	29·3	16·9	6·8	10·2	26	.	2·2	..	11·9	0	2	29	4	3	2	8	7	2	2	3	0	0
	1730	"	1007·2	950·4	..	30·7	16·9	5·2	9·1	21	..	4·3	..	13·4	0	5	25	7	8	3	1	3	0	3	5	1	0
	2330	"	1011·2	952·6	..	22·3	14·6	6·6	10·1	38	..	2·9	..	11·1	0	4	26	2	8	4	3	6	2	2	2	1	0
Ujjain	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Narsingpur	0830	356	1013·1	972·3	..	19·2	16·1	13·6	15·8	72	..	0·4	..	1·8	0	0	24	4	3	12	1	4	0	0	0	7	0
	1730	"	1007·3	968·4	..	32·4	22·7	16·6	19·6	41	..	0·2	..	2·9	0	0	30	6	2	3	2	3	0	12	2	1	0
Hoshangabad	0830	302	1012·9	978·4	+0·1	21·9	17·4	13·9	15·9	62	+28	1·8	+0·6	4·5	0	0	30	0	11	7	5	0	2	3	2	1	0
	1730	"	1006·9	973·9	..	33·1	21·6	14·3	16·3	33	..	2·8	..	4·6	0	0	30	1	3	2	3	1	8	6	6	1	0
Indore	0530	567	1011·5	947·1	..	17·4	11·2	5·0	8·8	45	..	1·5	..	7·1	0	0	26	3	7	3	0	5	5	1	2	5	0
	0830	"	1012·4	949·1	0	22·9	14·1	6·1	9·7	35	+3	1·6	+0·5	5·8	0	0	21	1	5	5	0	6	3	1	0	10	0
	1130	"	1011·0	949·2	..	29·7	16·4	4·9	9·0	22	..	1·5	..	13·7	0	6	23	3	5	2	3	5	4	2	1	2	4
	1730	"	1006·8	945·5	..	30·8	16·4	3·6	8·2	20	..	2·9	..	17·4	0	10	20	1	3	1	3	2	7	8	5	1	0
	2330	"	1011·2	947·7	..	21·5	12·9	4·4	8·7	34	..	2·5	..	10·2	0	2	24	2	7	1	2	3	4	2	5	5	0
Rajpur (Jhabua)	0830	293	1013·2	979·8	..	22.4	15·2	8·6	11·5	42	..	2·1	..	5·0	0	0	23	1	1	8	2	0	0	11	0	8	0
	1730	,	1007·4	975·4	..	33·5	18·2	3·7	8·5	16	..	2·9	..	13·0	0	7	23	0	3	0	2	2	4	16	3	1	0
Chhindwara	0830	685	1012·7	936·7	+0·6	22·5	16·3	11·8	14·0	53	+13	2·6	+1·0	0·5	0	0	4	1	1	1	0	0	0	0	1	27	0
	1730	"	1007·1	933·1	..	29·0	17·9	9·7	12·7	32	..	4·4	..	3·9	0	0	21	1	2	0	1	3	4	3	7	10	0
Seoni	0830	619	1012·8	943·6	+0·5	22·0	16·6	12·7	14·7	56	+19	3·9	+2·6	3·1	0	0	28	4	8	0	4	4	3	3	2	3	0
	1730	"	1007·5	940·3	..	28·8	18·4	10·9	13·1	35	..	3·8	..	3·2	0	0	30	2	6	1	2	7	10	0	2	1	0
Betul	0830	653	1013·0	939·7	0	19·8	15·0	10.9	13·6	59	+24	2·5	+0.7	3·3	0	0	26	1	2	7	11	0	0	4	1	5	0
	1730	"	1007·2	936·7	..	29·8	17·7	8·3	11·4	29	..	3·9	..	4·8	0	0	28	5	2	0	4	0	6	6	5	3	0
Khandwa	0830	318	1012·6	976·6	+0·5	23·8	16·1	9·4	12·0	42	+9	3·1	+2·2	2·3	0	0	30	3	4	3	4	3	6	2	5	1	0
	1730	"	1006·6	972·0	..	33·9	19·5	8·0	10·9	21	..	3·7	..	2·6	0	0	31	3	3	2	3	2	3	3	12	0	0
Madhya Pradesh (East)																											
Satana	0530	317	1011·5	974·8	..	16·8	13·6	10·8	13·0	69	..	1·3	..	0·6	0	0	8	1	0	0	0	2	3	2	0	23	0
	0830	"	1013·1	976·9	+1·0	21·5	16·0	11·3	13·4	54	+14	2·2	+1·0	1·1	0	0	17	1	0	0	4	1	1	10	0	12	0

*Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: A station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Satna	0530	317	1011·5	974·8	..	16·8	13·6	10·8	13·0	69	..	1·3	..	0·6	0	0	8	1	0	0	0	2	3	2	0	23	0
	0830	"	1013·1	976·9	+1·0	21·5	16·0	11·3	13·4	51	+14	2·2	+0·7	1·1	0	0	17	1	0	0	4	1	1	10	0	14	0
	1130	"	1011·9	976·7	..	29·3	18·1	8·6	11·7	29	..	1·5	..	3·8	0	0	30	5	3	0	2	4	4	2	10	1	0
	1730	"	1008·1	973·1	..	30·5	18·2	7·6	10·4	26	..	2·0	..	3·7	0	0	30	20	0	0	0	0	1	4	5	1	0
	2330	"	1011·4	975·2	..	21·1	15·5	10·9	13·6	54	..	1·0	..	1·7	0	1	7	0	0	0	1	3	1	1	2	23	0
Sidhi	0830	272	1012·3	981·3	..	21·8	15·8	11·0	13·1	51	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	"	1008·2	978·2	..	30·3	17·3	5·9	9·1	23	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Umaria	0830	459	1013·1	961·3	..	22·0	17·4	14·4	16·5	63	+21	2·1	+0·3	3·7	0	0	30	0	5	13	6	4	2	0	0	1	0
	1730	"	1008·1	957·5	..	29·5	20·1	14·3	16·6	41	..	3·5	..	4·3	0	0	29	5	7	1	0	0	3	2	11	2	0
Jabalpur	0530	393	1011·7	966·6	..	17·4	14·7	12·6	14·6	74	..	2·4	..	3·5	0	0	23	0	0	4	15	3	1	0	0	8	0
	0830	"	1013·2	968·7	+1·1	22·0	16·4	12·1	14·1	55	+12	2·4	+1·2	2·6	0	0	25	0	0	6	16	3	0	0	0	6	0
	1130	"	1012·1	968·4	..	29·4	18·8	10·7	13·0	33	..	1·9	..	5·2	0	0	29	4	7	4	4	5	2	1	2	2	0
	1730	"	1007·6	964·5	..	30·3	18·4	8·8	11·2	28	..	3·6	..	4·7	0	0	29	4	10	1	7	3	2	2	1	2	0
	2330	"	1011·3	966·8	..	21·3	16·4	12·5	14·7	58	..	2·2	..	3·5	0	0	21	2	5	3	9	1	0	1	0	10	0
Ambikapur	0830	611	1013·7	945·2	+0·9	20·7	14·9	10·4	12·7	53	+5	2·0	+0·8	5·0	0	2	23	2	3	1	2	5	10	1	1	6	0
	1730	"	1007·9	941·5	..	28·6	16·5	6·3	10·5	25	..	2·2	..	5·8	0	0	31	11	2	0	0	0	4	3	11	0	0
Pendra	0530	625	1011·9	941·4	..	18·4	13·1	8·6	11·2	55	..	3·1	..	(a) 5·5	0	1	26	6	3	1	1	1	3	4	8	4	0
	0830	"	1013·4	943·6	+0·6	22·1	15·3	10·0	12·4	48	+7	2·7	+1·3	(a) 4·7	0	0	25	6	3	0	0	2	4	4	6	6	0
	1130	"	1011·6	943·5	..	27·6	17·0	8·9	11·6	34	..	2·7	..	(a) 7·8	0	2	28	7	3	1	2	1	6	3	7	1	0
	1730	"	1008·0	940·0	..	28·2	17·0	8·3	11·2	31	..	4·5	..	(a) 7·7	0	2	28	11	2	0	2	3	5	1	6	1	0
	2330	"	1011·9	942·1	..	20·9	14·6	9·4	12·0	49	..	2·5	..	(a) 5·5	0	0	27	3	3	1	2	1	2	6	9	4	0
Mandla	0830	443	1013·7	963·1	+0·4	20·4	16·3	12·9	14·9	62	+5	2·3	+0·4	0·4	0	0	3	1	0	0	0	2	0	0	0	28	0
	1730	"	1007·7	959·1	..	29·3	18·1	8·9	11·4	30	..	3·5	..	4·6	0	0	23	8	1	0	0	7	0	0	7	8	0
Champa	0830	245	1013·3	985·4	+0·9	23·9	17·0	11·5	13·6	47	+2	3·5	+1·7	3·1	0	0	26	17	3	4	0	0	0	0	2	5	0
	1730	"	1008·1	981·1	..	32·2	19·0	8·3	10·9	25	..	2·4	..	3·4	0	0	27	10	1	4	0	0	2	6	4	4	0
Raigarh	0830	220	1012·7	987·7	+0·7	25·4	17·7	11·6	13·6	44	+1	2·7	+0·7	2·6	0	0	25	3	17	1	1	0	2	0	1	6	0
	1730	"	1007·5	983·3	..	32·5	19·4	9·3	11·7	25	..	2·1	..	1·4	0	0	14	2	7	2	0	0	0	0	3	17	0
Raipur	0530	298	1011·3	977·3	..	21·3	16·3	12·3	14·5	58	..	3·6	..	4·3	0	0	22	10	2	0	2	2	1	0	3	9	2
	0830	"	1013·2	979·5	+1·3	25·0	17·7	12·0	14·0	46	+6	3·6	+2·3	4·6	0	0	28	6	5	2	4	6	0	2	2	3	1
	1130	"	1012·2	979·2	..	30·8	19·2	10·2	12·8	30	..	2·3	..	6·5	0	0	30	4	5	4	5	4	6	1	1	1	0
	1730	"	1007·8	975·1	..	32·6	19·8	9·9	12·2	26	..	3·7	..	5·5	0	0	26	6	5	1	0	4	2	3	3	5	2
	2330	"	1010·8	977·3	..	25·1	18·0	12·7	14·9	48	..	1·5	..	6·1	0	0	26	10	0	5	4	1	3	1	2	5	0
Kanker	0830	402	1012·8	967·8	+1·1	25·0	18·4	13·8	15·8	49	−4	1·6	−0·1	0·6	0	0	4	0	0	0	0	0	3	0	1	27	0
	1730	"	1007·2	963·6	..	32·5	20·8	12·6	15·0	31	..	2·5	..	3·2	0	0	28	6	6	0	0	0	10	0	6	3	0
Jagdalpur	0530	553	1011·0	948·8	..	19·5	16·0	13·6	15·7	69	..	1·4	..	1·0	0	0	5	2	1	0	2	0	0	0	0	26	0
	0830	"	1012·5	951·2	+0·5	24·1	17·7	13·7	15·7	53	−4	1·5	+0·2	1·9	0	0	13	1	1	2	0	3	1	2	3	18	0
	1130	"	1010.2	950·4	..	31·3	19·1	10·9	13·2	29	..	1·6	..	5.2	0	0	30	5	7	0	0	4	9	3	2	1	0
	1730	"	1006·4	946·8	..	31.6	17·0	10·5	12·7	28	..	4·5	..	4·8	0	0	23	1	7	1	0	1	7	5	1	8	0
	2330	"	1010·7	949·8	..	23·9	17·6	13·8	15·5	53	..	1·9	..	2·9	0	0	10	1	2	2	1	3	1	0	0	21	0
Gujarat Region																											
Deesa	0830	136	1012·6	996·8	+0·2	21·3	14·3	7·6	10·5	43	..	1·1	..	4·8	0	0	28	3	17	3	3	1	0	0	1	3	0
	1730	"	1008·2	993·1	..	33·3	17·6	3·1	7·4	15	..	1·9	..	6·7	0	0	31	1	2	1	2	3	5	10	7	0	0
Radhanpur	0830	30	1012·5	1008.9	..	21·2	17·5	14·8	16·9	68	..	1·0	..	5·7	0	0	28	6	3	3	2	1	4	6	3	3	0
	1730	"	1008·6	1005·3	..	33·4	21·2	12·9	15·3	30	..	1·2	..	5·6	0	1	24	5	0	2	1	1	1	9	6	6	0
Idar	0830	219	1012·3	987.4	..	24·7	14·6	3·7	8·4	29	..	1·9	..	5·6	0	0	25	3	8	5	3	0	0	3	3	6	0
	1730	"	1007·9	983·7	..	32·7	17·8	3·6	8·3	16	..	2·4	..	3·4	0	0	24	0	1	1	2	2	5	13	0	7	0
Ahmadabad	0230	55	1010·4	1004·0	..	22·3	13·8	4·9	8·9	33	..	1·3	..	9·6	0	2	25	3	5	1	2	0	1	8	7	4	0
	0530	"	1010·5	1004·0	..	20·0	13·4	6·8	10·1	43	..	1·1	..	8·3	0	1	21	3	3	2	2	0	1	4	7	9	0
	0830	"	1012·5	1006·1	−0·1	21·8	14·8	8·2	11·2	43	−4	1·8	+0·7	9·8	0	5	17	2	4	3	0	1	0	2	10	9	0
	1130	"	1012·6	1006·3	..	30·7	17·9	6·2	10·1	23	..	2·0	..	16·0	0	9	22	6	1	8	2	3	0	2	8	0	1
	1730	"	1008·3	1002·2	..	34·2	18·0	2·0	7·5	14	..	2·4	..	12·3	0	4	26	2	2	2	1	5	1	9	8	1	0
	2330	"	1010·6	1004·3	..	24·5	14·9	5·4	9·2	30	..	1·1	..	6·4	0	4	11	4	0	1	0	2	1	1	6	16	0
Dohad	0830	333	1012·2	974·5	−0·1	22·9	14·3	5·3	9·3	34	−6	1·7	+0·6	..	..	..	..	2	2	8	4	7	3	2	1	2	0
	††1730	"	1007·3	971·0	..	33·0	17·3	0·7	7·0	14	..	2·0	..	..	..	..	..	1	2	1	0	0	13	8	3	2	0
Baroda Aerodrome	0830	38	1012·4	1008·1	..	22·5	15·2	8·6	11·4	42	..	2·5	..	6·3	0	0	24	4	2	4	2	4	2	1	5	7	0
	1130	"	1012·5	1008·2	..	31·1	18·4	7·4	10·8	25	..	2·2	..	8·4	0	2	26	4	4	2	1	6	2	4	5	3	0
	1730	"	1007·9	1003·7	..	34·7	18·5	3·3	8·1	15	..	2·5	..	8·3	0	1	27	0	1	0	0	1	8	9	9	3	0

††Wind direction for 30 days.

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed in Km per hour.	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region —(*Contd.*)																											
Baroda	0530	34	1010·5	1006·4	..	19·5	14·6	10·2	12·7	56	..	0·6	..	1·8	0	0	16	0	6	1	0	1	2	1	5	15	0
	0830	"	1012·8	1008·7	+0·6	21·5	15·5	10·6	12·7	51	−2	1·9	+1·1	1·5	0	0	15	1	6	1	0	0	3	1	3	16	0
	1130	"	1012·8	1008·9	..	31·6	19·0	8·6	11·7	26	..	0·9	..	3·3	0	0	20	2	6	2	2	0	1	2	5	11	0
	1730	"	1008·2	1004·4	..	34·6	19·5	6·9	10·4	19	..	1·8	..	3·4	0	0	23	0	1	1	1	1	5	6	8	8	0
	2330	"	1010·8	1006·8	..	23·7	16·8	11·4	13·6	47	..	1·2	..	1·4	0	0	12	1	2	2	0	0	2	3	2	19	0
Broach	0830	17	1012·1	1010·0	+0·1	31·4	16·3	12·1	14·4	57	−2	2·4	+1·2	3·8	0	0	31	0	5	2	3	4	14	1	2	0	0
	1730	"	1007·7	1005·8	..	35·7	19·9	6·9	10·4	18	..	1·6	..	5·0	0	0	31	1	5	0	4	0	18	1	2	0	0
Surat	0530	12	1010·1	1008.7	..	20·9	18·5	16·2	18·9	77	..	0·8	..	7·2	0	0	24	2	4	1	2	1	7	3	4	7	0
	0830	"	1012·5	1011·0	+0·1	22·7	18·9	16·1	18·8	68	+8	2·6	+1·6	6·0	0	0	29	4	7	3	9	0	0	1	5	2	0
	1130	"	1012·8	1011·5	..	31·3	20·9	13·9	16·2	37	..	2·4	..	9·2	0	3	27	8	2	3	3	0	2	2	10	1	0
	1730	"	1008·5	1007·2	..	33·4	21·3	13·2	15·5	31	..	2·1	..	9·7	0	2	27	1	1	0	0	2	4	5	16	2	0
	2330	"	1010.9	1009·6	..	24·1	20·3	17·8	20·8	70	..	1·3	..	9·0	0	2	27	1	1	1	3	2	8	7	6	2	0
Saurashtra and Kutch																											
Bhuiakia Bhimasar	0830	47	1012·5	1007·1	..	22·3	20·0	18·9	21·6	82	..	..	..	12·7	0	7	22	4	1	1	0	3	2	6	12	2	0
	1730	"	1009·0	1003·8	..	32·9	24·5	19·7	23·8	49	..	..	..	(a) 13·4	0	3	27	2	3	1	1	0	3	5	15	0	0
Naliya	0830	21	1012.8	1010·3	..	19·8	17·8	16·7	18·8	82	..	2·5	..	1·0	0	0	3	1	1	0	0	0	0	1	0	28	0
	1730	"	1009·7	1007·3	..	28·7	20·0	13·8	16.3	43	..	1.4	..	13·3	0	3	28	1	0	0	0	1	21	5	3	0	0
Bhuj (Rudramata)	0230	80	1011·3	1001·9	..	20·3	17·9	16·0	18·5	78	..	0·6	..	5·0	0	0	19	0	0	0	0	1	6	11	1	12	0
	0530	"	1011·1	1001·7	..	18·2	16·9	15·9	18·3	86	..	1·1	..	5·5	0	1	17	1	0	0	1	0	8	5	3	15	0
	0830	"	1012·9	1003·6	+0·5	21·4	18·3	16·7	18·5	75	+21	2·0	+0·8	5·2	0	0	24	1	0	0	0	3	6	7	7	7	0
	1130	"	1012·9	1003·9	..	30·4	21·6	16·2	18.6	43	..	1·5	..	11·5	0	2	28	4	6	2	0	0	1	4	12	1	1
	1730	"	1008·7	999·8	..	33·1	22·7	16·2	19·0	39	..	2·9	..	11·5	0	4	24	4	4	1	0	0	5	10	4	3	0
	2330	"	1011·7	1002·4	..	22·5	19·1	16·5	19·4	71	..	0·8	..	9·4	0	0	26	0	1	0	0	0	7	11	7	5	0
Kandla Aerodrome	0830	35	1013·0	1009·0	..	22·0	18·3	15·7	18·1	68	..	1·5	..	13·7	0	6	21	2	0	0	3	1	1	5	15	4	0
	1130	"	1013·3	1009·4	..	30·1	20·1	12·9	15·5	37	..	1.5	..	15·7	0	5	25	8	4	2	1	3	2	3	7	1	0
	*1730	"	1008·2	1004·4	..	33·7	21·6	13·3	15·9	39	..	2·1	..	22·6	0	11	7	0	0	0	1	7	7	2	1	0	0
New Kandla	0830	14	1013·3	1011·6	..	21·8	18·2	15·5	17·9	69	..	2·4	..	(b) 9·6	0	2	27	5	3	1	1	1	4	4	10	2	0
	1730	"	1009·7	1008·1	..	30·1	19·8	11·8	14·7	36	..	2·4	..	(b) 22·2	0	19	12	3	3	0	0	2	18	5	0	0	0
Mandvi	0830	9	1013·0	1011·9	+0.2	21·4	19·0	17·3	20·0	79	−1	2·6	+1·1	11·2	0	3	25	4	10	0	0	0	0	0	12	3	2
	1730	"	1010·9	1003·9	..	26·3	22·5	20·5	24·1	71	..	2·4	..	33·6	1	27	3	0	0	0	1	0	23	3	0	0	4
Surendranagar	0830	74	1012·6	1004·0	+0·1	22·7	19·9	18·0	21·0	77	+18	1·7	+0·5	9·0	0	1	29	5	2	1	0	0	1	9	12	1	0
	1730	"	1008·2	999.9	..	34·1	..	..	..	..	..	1·9	..	7·4	0	0	31	2	3	2	0	0	4	11	9	0	0
Jamnagar Aerodrome	0530	23	1011·0	1008·4	..	19·3	17·6	16·3	18·8	84	..	1·3	..	10·6	0	4	24	0	0	0	1	3	6	14	4	3	0
	0830	"	1012·9	1010·3	+0·2	21·3	18·6	16·7	19.3	77	+6	2·5	+1·4	6·9	0	0	27	2	0	1	3	4	5	7	5	4	0
	1130	"	1013·4	1010·9	..	28·0	19·8	14·0	16.4	45	..	1·8	..	15.1	0	6	24	4	5	1	2	0	0	8	10	1	0
	1730	"	1009·5	1006·9	..	29·5	19·6	12·0	14·8	37	..	1·3	..	24·9	0	25	6	5	1	0	0	0	0	19	6	0	0
	2330	"	1011·8	1009·2	..	22·6	20·1	18·5	21·6	79	..	0·6	..	18·8	0	15	16	2	0	0	0	0	0	25	4	0	0
Dwarka	0830	11	1012·8	1011·5	−0·2	22·3	21·3	20·8	24·6	91	+15	1·9	+0·1	11·8	0	5	26	11	3	3	0	0	1	3	10	0	0
	1730	"	1010·6	1009·3	..	25·8	23·5	22·5	26·9	83	..	0·7	..	17·7	0	11	20	3	0	0	0	0	1	13	14	0	0
Rajkot	0830	138	1012·9	997·1	+0.2	21·2	18·6	16·7	19.4	78	+12	1·0	−0·3	8·5	0	2	21	10	0	1	0	0	0	9	3	8	0
	1130	"	1012.8	997·4	..	29·4	20.6	14·7	17·0	43	..	0·5	..	14·1	0	8	22	10	8	0	2	0	0	5	5	1	0
	1730	"	1008·4	993·2	..	33.5	21·2	12·9	15·2	31	..	1·0	..	15·9	0	10	21	1	6	1	1	0	2	16	4	0	0
Bhavnagar Aerodrome.	0830	11	1012·6	1011·4	0	23·1	16·9	11·6	14·2	50	+9	2·0	+0·8	12·7	0	7	21	5	0	1	0	0	1	5	16	3	0
	1130	"	1012·9	1011·7	..	30·3	20·4	13·6	15·9	37	..	1·7	..	18·1	0	15	16	8	12	4	4	0	0	1	2	0	0
	1730	"	1008·5	1007·3	..	33·2	20·8	11·9	14·5	29	..	2·2	..	19·2	0	13	18	2	2	10	9	5	2	1	0	0	0
Porbander Aerodrome	0830	7	1013·0	1012·2	..	21·9	19·3	17·6	20·2	78	..	2·1	..	10·7	0	5	26	11	1	3	3	0	0	1	12	0	0
	1130	"	1013·4	1012·6	..	29·8	20·3	13·3	16·1	39	..	1·5	..	13.3	0	8	23	4	2	2	3	0	2	5	13	0	0
	1730	"	1009·9	1009·1	..	28·1	21·1	16·7	19·3	52	..	0·9	..	26·5	0	29	2	0	0	0	0	0	2	29	0	0	0
Porbander	0830	7	1012·8	1012·0	+0·3	20·9	19·2	18.0	20·8	85	+11	2·9	+1·8	6·0	0	0	31	13	3	3	0	0	0	1	11	0	0
	1130	"	1010·3	1009·5	..	26·7	22·2	19·8	23·1	66	..	2·2	..	16·2	0	6	25	0	0	0	0	0	2	22	7	0	0
Keshod	0830	51	1013.4	1007·5	..	20·4	16·4	12·8	15·4	65	..	0·8	..	8·7	0	1	29	10	7	8	0	1	1	0	3	1	0
	1130	"	1013·4	1007·6	..	29·7	18·4	8·8	12.0	30	..	0·4	..	16·2	0	11	20	17	6	1	0	0	0	1	4	0	2
	1730	"	1009·5	1003·7	..	32.5	18·8	6·1	10·6	22	..	0·4	..	28·0	0	25	6	2	1	0	0	1	4	20	3	0	0
Mahuva	0830	9	1012·1	1011·1	..	22·8	16·6	11·5	13·8	50	..	1·9	..	6.5	0	0	31	6	8	0	1	0	1	0	15	0	0
	1730	"	1008·5	1007·5	..	29·2	21·4	16·1	19·0	48	..	2·6	..	10·2	0	2	29	0	1	0	7	10	13	0	0	0	0

(a) Mean of 30 days. (b) Mean of 29 days. *Oservations for 18 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean Temperature in °C Dry bulb	Mean Temperature in °C Wet bulb	Mean Temperature in °C Dew Point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind speed in Km. per hour.	Wind speed, (Km. p.h.) 62 or more	Wind speed, (Km. p.h.) 20 to 61	Wind speed, (Km. p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(*Contd.*)																											
Veraval . .	0230	8	1010·9	1010·0	..	19·9	17·9	16·4	18·9	82	..	1·5	..	13·6	0	4	27	15	1	0	0	0	0	0	15	0	0
	0530	,,	1010·8	1009·9	..	18·8	17·0	15·3	17·9	82	..	1·3	..	14·1	0	7	23	18	2	0	0	0	0	1	9	1	0
	0830	,,	1012·8	1011·9	+0·1	20·8	17·9	15·6	18·2	74	+11	2·3	+1·2	13·3	0	6	24	13	4	0	0	0	0	1	12	1	0
	1130	,,	1013·2	1012·3	..	28·4	21·3	15·7	19·5	54	..	1·4	..	17·7	0	13	18	6	0	1	0	0	3	9	12	0	0
	1730	,,	1009·7	1008·8	..	25·9	23·3	22·0	26·4	79	..	1·8	..	23·4	0	25	6	0	0	0	0	0	2	15	14	0	0
	2330	,,	1011·8	1010·9	..	22·0	20·5	19·3	22·7	85	..	1·0	..	14·3	0	7	24	8	0	0	0	0	0	2	21	0	0
Konkan																											
Dahanu . .	0830	5	1012·1	1011·6	+0·3	23·6	19·5	16·7	19·3	66	−4	2·8	+1·1	5·9	0	0	29	2	7	11	9	0	0	0	0	2	0
	1730	,,	1008·7	1008·2	..	28·2	22·5	19·3	22·4	60	..	2·4	..	20·4	0	14	17	10	2	0	0	0	0	6	13	0	0
Bombay (Santacruz).	0230	15	1010·4	1008·7	..	22·1	19·9	18·7	21·4	81	..	1·1	..	6·0	0	0	23	15	3	2	0	0	0	0	3	8	0
	0530	,,	1010·2	1008·5	..	21·4	19·4	18·1	20·9	82	..	0·9	..	6·0	0	0	23	5	12	4	0	0	0	0	2	8	0
	0830	,,	1012·2	1010·5	−0·2	25·0	20·2	17·3	19·7	63	−7	1·4	+0·1	5·6	0	0	23	7	3	7	1	1	0	0	4	8	0
	1130	,,	1012·2	1010·5	..	30·5	22·0	16·7	19·5	45	..	1·5	..	12·9	0	3	28	3	2	0	1	0	0	15	10	0	0
	1730	,,	1008·5	1007·0	..	29·2	21·5	16·8	19·4	48	..	1·2	..	20·3	0	22	9	4	0	0	0	0	0	3	24	0	
	2330	,,	1011·3	1009·6	..	23·4	20·3	18·4	21·3	74	..	0·7	..	4.8	0	0	19	8	1	1	0	0	0	0	9	12	0
Bombay . .	0830	11	1012·2	1011·0	−0·1	25·0	21·8	20·1	23·5	75	+2	1·4	+0·1	4·9	0	0	26	14	3	5	3	0	1	0	0	5	0
	1130	,,	1012·4	1011·2	..	29·7	23·6	20·4	24·1	58	..	1·3	..	5·5	0	0	29	4	0	1	1	1	0	7	15	2	0
	1730	,,	1008·9	1007·7	..	28·6	23·6	21·0	25·0	64	..	1·1	..	11·9	0	3	28	1	0	0	0	0	0	5	25	0	0
Alibag . . .	0830	7	1012·0	1011·2	0	23·8	20·8	19·1	22·1	75	+10	1.1	−0·2	4·4	0	0	31	15	11	3	1	1	0	0	0	0	0
Harnai . . .	0830	20	1011·5	1009·2	+0·2	24·8	20·7	18·1	20·9	63	−1	2·2	+0·9	2·5	0	3	20	15	1	1	1	1	0	1	3	8	0
	1730	,,	1008·7	1006·7	..	27·0	23·6	22·0	26·3	75	..	1·8	..	31·1	0	28	3	2	0	0	0	0	0	4	25	0	0
Ratnagiri . .	0830	35	1011·8	1007·7	−0·1	24·8	22·8	21·8	26·1	84	..	2·7	..	5.1	0	0	28	9	5	7	6	0	0	0	1	3	0
	1730	,,	1008·5	1004·6	..	28·6	25·9	24·8	31·1	82	..	1·5	..	13·3	0	2	29	2	0	0	0	0	0	5	24	0	0
Devgarh . .	0830	36	1011·4	1007·4	−0·2	24·8	22·0	20·4	24·1	78	+1	1·8	−0·5	9·4	0	1	29	5	8	14	1	1	0	0	1	1	0
	1730	,,	1008·4	1004·4	..	29.0	24·1	21·6	25·9	65	..	1·4	..	25·9	0	22	9	1	0	0	0	0	0	3	27	0	0
Vengurla . .	0230	9	1009·6	1008·6	..	23·0	21.1	20·0	23·5	84	..	0·8	..	0·8	0	0	5	3	0	0	0	0	0	0	2	26	0
	0530	,,	1009·6	1008 6	..	21·9	20·4	19·5	22·7	87	..	1·1	..	1·9	0	0	14	13	0	0	0	1	0	0	0	17	0
	0830	,,	1011·9	1010·9	−0·1	24·4	21·7	20·2	23·8	78	+3	1·0	−0·8	3·0	0	0	21	13	2	2	4	0	0	0	0	10	0
	1130	,,	1012·0	1011·0	..	30·5	23·8	20 3	24·1	56	..	0·6	..	6·7	0	0	31	2	0	1	1	0	17	6	4	0	0
	1730	,,	1008.5	1007·5	..	29·5	23·9	21·0	25·0	61	..	1·0	..	9·0	0	0	31	0	0	0	0	0	5	16	10	0	0
	2330	,,	1010·9	1009·9	..	24·8	22·2	20·7	24·6	79	..	0·5	..	2·6	0	0	14	10	1	0	0	0	0	0	3	17	0
Madhya Maharashtra																											
Nandurbar . .	0830	206	1012·3	989·0	..	25·9	17·4	10·5	12·9	39	..	1·6	..	8·9	0	0	29	0	5	6	0	1	11	5	1	2	0
	1730	,,	1007·2	984·6	..	34·4	19·5	8·2	10·4	21	..	2·3	..	8·3	0	2	25	0	2	3	3	0	5	11	3	4	0
Jalgaon . . .	0830	201	1013·0	989.9	+1·2	22·7	15·7	9·1	12·2	45	+7	2·2	+1·1	10·3	0	2	28	0	1	10	4	2	5	7	1	1	0
	1730	,,	1007·5	985·6	..	35·5	19·3	4·8	9·2	16	..	2·8	..	14 2	0	8	23	4	1	4	1	2	1	15	3	0	0
Malegaon . .	0830	437	1012·9	963·6	+0·4	22·2	13·6	4.3	8·1	32	−8	2·0	+0·9	4·6	0	0	24	1	0	1	2	1	2	9	8	7	0
	1730	,,	1005·8	958·8	..	34·6	18·2	2·0	7·6	14	..	3·3	..	8·5	0	0	25	3	0	3	2	0	2	9	6	6	0
Deolali . . . (Aerodrome)	0830	571	1013·5	949·9	..	21·1	14·9	10·0	12·4	51	..	1·7	..	3·8	0	0	23	7	2	3	2	4	3	1	1	8	0
	1730	,,	1007·1	945·6	..	32·4	17·9	6·4	9·9	21	..	2·6	..	13·5	0	2	28	5	2	2	0	1	5	10	3	1	0
Ahmadnagar . .	0830	657	1012.4	939·2	−0.1	22·2	14·6	8·2	11·1	41	+11	1·6	+0·8	2·6	0	0	19	0	6	0	1	0	2	0	10	12	0
	1730	,,	1004·5	934·5	..	33·8	16·8	7·1	10·3	20	..	2·9	..	4·5	0	0	20	0	2	0	4	0	4	2	8	11	0
Poona (Aerodrome)	0230	593	1010·6	944·1	..	20·5	14·4	8·8	11·9	48	..	1·6	..	4·1	0	0	21	1	1	1	1	0	1	11	5	10	0
	0530	,,	1010·9	944·1	..	19·2	13·9	9·3	12·0	54	..	1·5	..	3·9	0	0	22	1	0	1	0	1	1	10	8	9	0
	0830	,,	1012·3	946·0	..	22·6	15·1	9·1	11·7	44	..	1·9	..	4·6	0	0	24	0	0	4	3	0	1	13	3	7	0
	1130	,,	1010·3	945·9	..	30·6	17·4	6·8	10·2	24	..	1·2	..	8·2	0	2	27	1	0	16	5	1	1	3	2	2	0
	1730	,,	1005·4	941·8	..	33·2	18·0	5.5	9·5	19	..	3·0	..	17·9	0	14	17	0	0	1	1	1	6	15	7	0	0
	2330	,,	1011·1	945·0	..	24·0	16·2	10·8	12·7	46	..	1·7	..	9·8	0	0	29	1	1	0	0	0	0	19	8	2	0
Poona . . .	0530	559	1010·7	947·6	..	18·8	14·4	10·8	13·2	61	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1012.4	949·7	−0·1	21·8	15·3	10·2	12·7	49	−5	1·2	+0·4	0·5	0	0	3	0	1	0	1	1	0	0	0	28	0
	1130	,,	1010·0	949·4	..	31·0	17·8	7·6	10·7	24	..	0·6	..	2·8	0	0	20	3	7	4	4	1	0	1	0	11	0
	1730	,,	1005·2	945·3	..	33·4	18·6	7·5	10.6	21	..	2·4	..	5·9	0	0	25	2	3	1	1	0	6	8	4	6	0
	2330	,,	1010·7	948·6	..	24·0	16·9	11·8	14·1	48	..	1·5	..	0·3	0	0	3	0	0	0	1	0	0	2	0	8	0
Jeur. . . .	0830	521	1011·6	953·5	−0·1	24·2	14·8	6·7	10·0	33	−9	1·6	+0·4	5·9	0	1	25	3	6	4	2	0	0	6	5	25	0
	1730	,,	1004·5	948·9	..	35·4	18·4	4·9	8·8	16	..	3·5	..	10·6	0	4	27	2	0	0	2	4	6	8	9	0	0
Baramati . .	0830	551	1012·0	950·7	..	23·5	15·4	9·1	11·6	41	..	1·2	..	3·4	0	0	30	8	1	0	3	2	1	6	9	1	0
	1730	,,	1004·7	946·0	..	34·8	19·6	8·3	11·7	21	..	2·8	..	11·1	0	4	27	3	0	1	6	4	7	7	3	0	0

Division and station	Hour of observation i.s.t.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km. p.h.): Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharastra—(*Contd.*)																											
Sholapur	0530	479	1009·9	956·4	..	23·2	15·9	10·4	12·7	45	..	2·2	..	7·5	0	1	26	7	5	5	3	1	2	1	3	4	0
	0830	,,	1011·5	958·5	+0·3	26·4	17·4	10·9	13·3	39	+4	1·4	+0·4	8·9	0	3	26	4	4	6	9	2	1	1	2	2	0
	1130	,,	1009.9	958·1	..	33·3	20·1	12.0	13·9	27	..	1·2	..	11·4	0	3	28	6	2	1	7	5	5	2	3	0	0
	1730	,,	1005.0	953·8	..	35·6	21·2	12·1	14·6	25	..	3·4	..	7·7	0	4	24	4	2	4	5	3	3	4	3	3	0
	2330	,,	1009·4	956·7	..	27·8	18·1	11·4	13·7	37	..	3·1	..	9·4	0	1	26	8	3	2	6	0	0	3	5	4	0
Miraj	0830	554	1012·0	950·3	0	23·1	17·3	13·4	15 5	55	+3	2·4	+1·4	..	0	0	10	3	0	3	0	0	1	2	1	21	0
	1730	,,	1004·6	945·7	..	35·3	23·7	18·1	20·8	38	..	3·8	..	..	0	0	26	4	0	6	2	0	0	12	2	5	0
Kolhapur	0530	570	1010·4	946·4	..	19·9	15·2	11.6	13 8	61	..	1·3	..	6·3	0	1	28	0	4	8	1	1	7	8	0	2	0
	0830	,,	1011·6	948·3	−0.2	23·4	16·5	11.1	13·7	48	−8	1·4	+0·5	4·8	0	0	23	0	7	4	0	1	3	7	1	8	0
	1130	,,	1009·5	948·1	..	32·4	18·5	8·2	11·1	23	..	1·0	..	10·7	0	4	27	3	11	6	2	2	0	4	3	0	0
	1730	,,	1005·3	944·2	..	33·0	19·6	10·3	12·9	26	..	2·7	..	16.1	0	12	19	1	2	2	3	0	1	21	1	0	0
	2330	,,	1010·4	947 2	..	23·6	17·9	14·3	16·3	56	..	1·2	..	9·5	0	3	27	0	1	0	0	0	5	23	1	1	0
Marathwada Aurangabad	0830	581	1012·3	948·0	+0·1	25·0	15·6	7·6	10·9	35	+3	2·2	+1·1	4·9	0	0	24	3	4	11	0	1	0	3	2	7	0
	1730	,,	1005.8	943·7	..	33·3	18·0	5·1	9·5	19	..	3·2	..	6·5	0	1	23	2	2	2	0	0	6	9	3	7	0
Aurangabad (Chikalthan)	0230	579	1010·4	945·5	..	21·1	15·6	11·4	13·7	55	..	2·0	..	3·2	0	0	9	0	0	1	1	0	0	5	2	22	0
	0530	,,	1011·0	945·6	..	18·8	14·2	10·4	12·9	59	..	1·7	..	3.2	0	1	7	1	1	3	0	0	0	2	1	23	0
	0830	,,	1011·7	947·6	..	25·9	17·7	12·8	14·9	48	..	1·6	..	6·4	0	1	18	3	1	7	1	0	1	4	2	12	0
	1130	,,	1010·6	947·7	..	30·6	21·0	15·4	17·8	41	..	1·4	..	11·8	0	3	25	3	3	10	6	2	1	2	1	3	0
	1730	,,	1005·5	943·4	..	33·1	21·8	15·5	17·8	36	..	3·6	..	8·1	0	2	18	0	1	3	1	1	2	9	3	11	0
	2330	,,	1010·6	946·1	..	23·9	17·1	12·3	14·5	50	..	2·6	..	7·6	0	1	20	2	4	2	2	0	0	6	5	10	0
Parbhani	0830	423	1012·5	965·2	+0.7	25·2	15·8	7·0	10·1	33	−7	2·4	+1·2	8·1	0	1	30	5	7	6	5	1	1	4	2	0	0
	1730	,,	1006·0	960·4	..	34·6	18·6	3·6	8·4	15	..	4·0	..	9·0	0	1	29	3	6	5	4	0	3	5	4	1	0
Nanded	0830	358	1012·2	972·1	..	26·3	17·8	11·0	13·5	39	..	1·3	..	(b) 5·8	0	3	16	1	1	2	5	3	5	1	3	10	0
	1730	,,	1006·2	967·4	..	35·1	20.4	9·5	12·0	21	..	1·5	..	6·2	0	0	24	0	3	1	9	1	6	0	4	7	0
Bir	0830	519	1012·7	955·0	..	24·8	19·6	16·5	19·0	..	..	2·0	..	5·2	0	1	23	2	4	3	3	2	1	2	7	7	0
	1730	,,	1006·0	950·4	..	34·4	25·0	20·9	24·7	..	..	4·5	..	7.0	0	1	30	5	4	1	9	1	6	1	4	0	0
Vidarabha Gondia	0830	313	1012·9	977·8	+0.8	23.7	17·5	12·9	14·9	52	+5	3·7	+2·2	4·0	0	0	26	5	3	3	6	4	1	1	1	5	2
	1730	,,	1007·8	973·5	..	32·2	19·0	8 6	11·2	25	..	3·5	..	3·0	0	0	28	3	7	0	1	0	9	1	7	3	0
Nagpur (Sonegaon)	0230	310	1010·1	974·6	..	22·1	16·4	11·9	14·0	54	..	2·4	..	5·7	0	1	26	12	3	1	1	1	2	1	6	4	0
	0330	,,	1010·8	975·3	..	20·0	15·6	11·9	14·2	61	..	2·5	..	4·5	0	1	22	11	1	1	1	0	3	0	6	8	0
	0830	,,	1012·8	977·7	+0·9	24·2	17·5	12·2	14·6	48	+10	3·0	+1·6	6·0	0	0	25	5	7	8	2	1	1	0	1	6	0
	1130	,,	1011·5	977·0	..	31·3	19·7	10·9	13·9	30	..	2·5	..	9·5	0	2	25	1	5	9	5	2	2	1	2	4	0
	1730	,,	1006·9	973·1	..	33·2	19·5	8·8	11·5	23	..	4·4	..	8·4	0	3	22	3	8	5	1	1	4	1	2	6	0
	2330	,,	1010·6	975·7	..	24·3	17·2	11·2	13·8	47	..	2·9	..	8·0	0	3	24	7	7	3	1	2	3	0	4	4	0
Amraoti	0830	370	1012·3	970·6	+0·4	24·6	17·1	10.6	13.4	44	+12	2·3	+1·1	4·3	0	0	30	2	14	5	2	3	4	0	0	1	0
	1730	,,	1005·3	965·3	..	33·9	19.1	6.8	10.1	19	..	3·1	..	5·9	0	0	28	4	0	2	1	5	7	4	5	3	0
Akola Aerodrome	0530	309	1010·5	975·1	..	20·5	14·5	8.0	11·5	50	..	3·3	..	3·5	0	0	22	1	4	6	2	0	2	6	1	9	0
	2330	,,	1010·4	975·5	..	24·8	16·6	8·8	12·3	41	..	3·2	..	9·0	0	3	25	0	5	7	3	4	2	6	1	3	0
Akola	0830	282	1012·6	980·6	+0·6	23·3	17·5	13·0	15·0	55	+23	2·5	+1·2	0·8	0	0	7	1	0	3	0	0	0	3	0	24	0
	1130	,,	1011·4	980·2	..	31·1	20·7	13·8	16·0	36	..	2·6	..	4·3	0	0	29	1	4	10	3	3	1	4	3	2	0
	1730	,,	1006·1	975·5	..	34·4	21·3	12·5	14·5	28	..	4·3	..	2·8	0	0	28	2	1	8	1	1	1	11	3	3	0
Bramhapuri	0830	229	1013·1	987·1	..	24·2	18·9	15·3	17·5	59	..	3·2	..	6·3	0	0	29	4	4	4	7	5	2	2	1	2	0
	1730	,,	1007·5	982·4	..	33·9	22·1	14·7	16·9	33	..	3·2	..	6·0	0	0	30	6	8	2	4	5	3	1	1	1	0
Buldana	0830	650	1012·3	940·2	+0·9	22·5	15·1	8·5	11·1	42	0	1·8	+0·4	1.7	0	0	24	0	5	0	8	0	1	0	10	7	0
	1730	,,	1006·6	936·4	..	30·5	18·4	8·6	11·2	29	..	3·9	..	1·6	0	0	21	0	9	0	0	0	0	0	12	10	0
Yeotmal	0830	451	1012·1	961·7	+0·4	25·3	16·5	8·5	11·7	37	−1	3·6	+1·3	13·2	0	5	26	2	10	8	4	1	3	1	2	0	0
	1730	,,	1006·2	957·3	..	32·9	18·7	6·4	10·0	21	..	3.8	..	12·5	0	5	25	3	4	3	4	3	2	5	5	1	1
Chanda	0830	193	1012·4	990·5	+0·5	25 4	19·1	14·9	16·9	53	+11	2·9	+1·7	5·0	0	0	29	5	4	6	11	2	1	0	0	2	0
	1730	,,	1006·6	985·4	..	34·5	21·8	13·2	15.7	29	..	2.3	..	5·8	0	0	31	4	8	6	5	3	2	0	3	0	0
Pusad	0830	334	1013·2	975·5	..	24·2	18·2	13·8	15·8	54	..	1·9	..	4·1	0	0	31	1	8	0	4	0	3	4	11	0	0
	1730	,,	1006·6	970·5	..	35·4	22·2	13·2	15·2	28	..	1·9	..	5·1	0	0	31	0	7	1	8	0	9	2	4	0	0
Sironcha	0830	123	1013·2	999·1	+0·6	26·2	19·9	15·8	18·1	54	−3	1·5	−0·2	5·5	0	0	31	7	0	9	10	5	0	0	0	0	0
	1730	,,	1007·3	993.8	..	35·3	21.6	12·5	14·6	26	..	1·9	..	5·9	0	0	31	1	4	6	4	2	0	2	0	0	12
Coastal Andhra Pradesh—Kalingapatam	0830	6	1012·8	1012.1	+0·4	26·5	23·1	21·3	25·5	74	−1	0·6	−1·1	4·8	0	0	30	2	0	0	2	2	18	5	6	1	0
	1730	,,	1009·3	1008·6	..	28·2	24·8	23·2	28·4	74	..	0·9	..	10·3	0	2	29	0	1	1	3	15	11	0	0	0	0
Vishakhapatnam	0230	3	1010·4	1010·0	..	23·8	21·5	20·1	23·8	80	..	1·1	..	0·8	0	0	3	0	0	1	0	0	1	1	0	28	0
	0530	,,	1010·9	1010·5	..	22.7	20·8	19·7	22·9	83	..	1·0	..	0·5	0	0	3	0	0	0	0	0	0	2	1	28	0
	0830	,,	1013 0	1012·6	+0·5	27·3	22·4	19·7	23·1	64	−9	1·7	−0·6	4·3	0	0	19	0	0	0	1	2	8	5	5	12	0
	1130	,,	1012·3	1011 9	..	32·9	22·7	16·6	19·3	40	..	1·4	..	13·9	0	3	28	0	0	4	4	13	7	2	1	0	0

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—(*Contd.*)																											
Vishakhapatnam—(*Contd.*)	1730	3	1009·4	1009·0	..	29.5	22·2	17·8	20·8	51	..	1·6	..	14·3	0	2	29	0	0	3	1	12	15	0	0	0	0
	2330	,,	1011·7	1011·3	..	25·1	22·4	20·9	25·0	78	..	1·3	..	1·0	0	0	5	0	0	1	0	0	2	0	2	26	0
Kakinada	0830	8	1013·2	1012·3	+0·5	27·5	23·3	21·0	25.1	67	+7	1.8	−0·9	8·3	0	0	31	0	13	1	15	0	2	0	0	0	0
	1730	,,	1009·2	1008·3	..	30·7	24·1	20·7	24·7	56	..	0·6	..	13·4	0	0	31	0	0	0	31	0	0	0	0	0	0
Nidadavolu	0830	12	1013·0	1011·6	..	26·4	23·1	21·4	25·6	75	..	4·0	..	2·0	0	0	19	0	17	1	1	0	0	0	0	12	0
	1730	,,	1008·8	1007·4	..	31.8	23·6	19·2	22·4	49	..	3·3	..	4·1	0	0	31	0	1	5	10	7	8	0	0	0	0
Rentachintala	0830	106	1012·1	1000·1	..	27·3	22·2	19·2	22·7	63	+1	2·6	+0·5	2·6	0	0	27	1	0	2	5	13	5	1	0	4	0
	1730	,,	1007.2	995·5	..	35·5	23·5	16·6	19·1	33	..	2·3	..	3·2	0	0	31	2	1	13	7	8	0	0	0	0	0
Gannavaram	0230	24	1010·3	1007·6	..	23·2	22·4	22.0	26·3	93	..	1·1	..	2·1	0	0	16	1	2	2	4	2	0	2	3	15	0
	0530	,,	1010·7	1007·9	..	22·4	22.1	21·9	26 3	96	..	1·9	..	3·0	0	0	18	1	4	10	2	1	0	0	0	13	0
	0830	,,	1013·2	1010·5	+0·8	26·0	24·0	23·1	28·3	84	+8	2·1	−0·6	6·8	0	0	27	0	2	10	12	2	1	0	0	4	0
	1130	,,	1012·5	1009.8	..	31·7	25·3	22·3	26·9	58	..	2·3	..	12·2	0	4	27	0	1	3	11	13	3	0	0	0	0
	1730	,,	1008·2	1006·1	..	32·6	25·2	21·7	25·9	53	..	2·1	..	14·5	0	7	24	0	0	0	17	13	1	0	0	0	0
	2330	,,	1011·5	1008·8	..	24·6	23·3	22·6	27·6	89	..	1·2	..	2·7	0	0	16	0	0	3	5	6	2	0	0	15	0
Nagarjuna Konda	0830	..	..	..	..	28·3	20·8	15·7	18·5	50	..	2·2	..	13·4	0	8	21	3	3	1	7	11	0	2	2	2	0
	1730	..	..	..	..	35·4	21·5	11·8	14·3	25	..	2·2	..	17·0	0	10	21	1	3	7	17	3	0	0	0	0	0
Masulipatnam	0830	3	1013·0	1012·7	+0 6	27·0	24·1	22·7	27·6	77	−2	3·0	+0·7	3·6	0	0	27	4	4	3	9	7	0	0	0	4	0
	1730	,,	1009.5	1009·2	..	28·5	23·4	20·8	24·6	63	..	2·6	..	4·5	0	0	31	0	0	3	12	15	1	0	0	0	0
Ongole	0830	12	1012·6	1011·3	..	27·5	24.6	23·2	28·6	77	..	3·2	..	4.3	0	0	31	2	3	5	13	4	2	2	0	0	0
	1730	,,	1008·9	1007·6	..	30·0	25·5	23·5	28·9	69	..	2·2	..	7·0	0	0	31	0	0	15	15	1	0	0	0	0	0
Nellore	0530	20	1010·0	1007·7	..	22·9	22·0	21·6	25·6	92	..	0·7	..	0·1	0	0	2	0	0	2	0	0	0	0	0	29	0
	0830	,,	1012·5	1010·3	+0·6	26·6	23·2	21·5	25·6	74	−4	2·5	+0.4	3·3	0	0	22	1	0	3	17	1	0	0	0	9	0
	1130	,,	1011·9	1009·7	..	32·3	23·2	18·1	21·0	44	..	2·1	..	4·1	0	0	31	0	2	13	15	1	0	0	0	0	0
	1730	,,	1009·0	1006·8	..	29·9	23·5	20·1	23·8	57	..	2·3	..	4·4	0	0	31	0	0	26	5	0	0	0	0	0	0
	2330	,,	1011.4	1009·1	..	25·1	23·2	22·3	26 9	85	..	1·1	..	0·3	0	0	4	0	0	2	2	0	0	0	0	27	0
Telangana																											
Ramagundam	0830	156	1012·1	994·4	−0.1	26·7	19·5	15·0	16·8	49	−3	2·9	+1.0	5·4	0	0	25	5	2	4	8	6	0	0	0	6	0
	1730	,,	1007·1	990·0	..	32·2	21·9	12·0	14·0	25	..	1·6	..	4·7	0	0	26	4	1	3	6	12	0	0	0	5	0
Nizamabad	0830	381	1012·0	969·5	+0.3	26·5	18 6	12·8	15·1	44	0	2·3	+1·1	1·3	0	0	17	3	3	6	1	2	0	1	1	14	0
	1730	,,	1006·5	965·2	..	34·5	20·0	8·8	11·5	22	..	2·0	..	1·0	0	0	15	2	4	5	2	1	1	0	0	16	0
Hanamkonda	0830	269	1012·6	982·2	+0.3	24·4	20·6	18·2	21·1	70	+8	1·9	−0.1	2·2	0	0	28	2	1	0	4	20	1	0	0	3	0
	1730	,,	1007·8	978·5	..	33·6	22·0	14·7	16·9	33	..	0·7	..	2·1	0	0	29	2	2	0	4	17	2	1	1	2	0
Hakimpet Aerodrome	0530	613	1010·4	942·1	..	21·5	17·5	14·6	17·0	68	..	2·8	..	8·9	0	3	22	0	0	7	13	2	0	2	1	6	0
	0830	,,	1011·5	943·8	..	24.6	18·1	14·3	16·6	56	..	2·3	..	9·3	0	0	31	2	4	4	12	2	3	2	2	0	0
	1130	,,	1010·5	943·9	..	29·8	19·9	13·4	16·0	40	..	2·3	..	10·3	0	2	28	1	2	3	17	5	1	1	0	1	0
	1730	,,	1007·1	941.1	..	31·1	20·1	12·9	15·5	35	..	3·0	..	12·4	0	5	25	2	3	9	14	1	1	0	0	1	0
Bhadrachalam	0830	111	1012·9	1000·3	+0·1	25·8	21·7	19·3	22·7	69	−3	5·5	+2·6	4·7	0	0	31	1	8	1	7	1	5	8	0	0	0
	1730	,,	1007·4	995·2	..	34·9	21·3	11·9	14·2	26	..	1·7	..	3·1	0	0	31	1	9	3	12	0	4	1	1	0	0
Hyderabad (Begampet)	0230	545	1009.5	948.8	..	22.6	17·2	13·6	15·7	59	•	1 0	..	4·5	0	0	21	1	1	4	14	1	0	0	0	10	0
	0530	,,	1010 2	949 3	..	21·0	17·2	14·8	16·8	68	..	2·1	..	3.9	0	0	20	0	2	5	11	0	1	0	1	1	0
	0830	,,	1012·1	951.7	+0·7	24·6	18·2	13·9	16·2	53	−4	2·1	+0.7	6·4	0	0	26	1	4	2	11	2	2	0	4	5	0
	1130	,,	1010·8	951·6	..	30·5	18·8	10·6	13·1	31	..	2·1	..	10·1	0	4	26	0	1	3	12	6	4	1	1	1	2
	1730	,,	1006·3	947·7	..	32·2	18·9	9·4	12·0	26	..	2·9	..	11·4	0	2	27	0	4	6	15	3	1	0	0	2	0
	2330	,,	1010·3	950·1	..	25·1	18.1	13·5	15·7	50	..	1·2	..	7·0	0	0	26	0	1	6	16	3	0	0	0	5	0
Khammam	0830	112	1012·9	1000·1	..	25·8	22·6	20.9	24·9	75	..	3·3	..	6·1	0	0	29	0	0	11	9	9	0	0	0	2	0
	1730	,,	1007·8	995·5	..	34.6	22·7	15·7	17·8	33	..	2·5	..	4·0	0	0	24	0	0	6	6	8	2	0	2	7	0
Mahbubnagar	0830	505	1011·3	955·5	..	26·5	18·6	13·3	15·7	46	..	2·2	..	7·8	0	0	28	1	3	11	6	1	4	0	2	3	0
	1730	,,	1005·9	951·6	..	33·6	18·9	8·1	11·1	21	..	1·9	..	4·5	0	0	30	0	1	11	9	4	5	0	0	1	0
Rayalaseema																											
Kurnool	0830	281	1012·1	980·6	+0·8	27·1	20·8	16·7	19·5	55	+6	1·4	+0.4	3·2	0	0	28	0	1	16	4	5	0	1	1	3	0
	1730	,,	1006·2	975·7	..	35·4	21·6	12·1	14·5	26	..	2·1	..	2·7	0	0	28	0	1	18	9	0	0	0	0	3	0
Anantapur	0530	350	1009·4	970·0	..	23·4	17·5	13·0	15·3	53	..	1·1	..	4·8	0	1	16	0	1	2	9	2	3	0	0	14	0
	0830	,,	1011.3	972·2	0	26·4	19·0	13·6	16·0	47	−1	1·7	+0.7	6·6	0	2	18	0	0	3	7	3	5	1	0	11	1
	1130	,,	1010·1	971·8	..	32·7	20·4	11·2	13·9	29	..	1·8	..	8.9	0	3	24	0	1	5	7	8	2	0	1	4	3
	1730	,,	1005·1	967·4	..	35·7	20·2	7·7	11·0	19	..	2·7	..	13·0	0	8	21	1	7	14	5	0	1	0	1	2	0
	2330	,,	1009·3	970·6	..	28·8	19.2	11·8	14·5	37	..	0.9	..	17·0	0	15	16	0	1	26	4	0	0	0	0	0	0
Cuddapah	0830	130	1012·0	997·4	+0.5	28·8	21·7	17·4	20·1	51	—	0·8	−0·4	2·9	0	0	17	0	0	17	0	0	0	0	0	14	0
	1730	,,	1006·9	992·6	..	35·5	23·4	16·5	18·8	33		1·7	..	9.6	0	0	31	0	0	31	0	0	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	S	S	SW	W	N	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rayalaseema—*Contd.* Arogyavaram	0830	701	1012·0	934·8	..	23·3	17·7	13·7	14·50	58	..	2·6	..	4·9	0	0	29	0	0	1	11	17	0	0	0	2	0
	1730	"	1006·0	937·2	.	31·4	18·5	9·2	11·9	26	..	3·1	..	9·0	0	0	31	2	9	14	6	0	0	0	0	0	9
Madras State Madras	1730	6	1012·7	1012·0	..	26·4	23·4	21·9	26·3	77	..	3·1	..	4·4	0	0	30	1	1	0	1	0	10	13	4	1	0
Madras (Minambakkam)	0230	16	1010·4	1008·6	..	24·0	22·7	21·9	26·6	88	..	1·3	..	2·6	0	0	18	1	0	4	3	5	2	2	0	13	1
	0530	"	1010·7	1008·9	..	23·3	22·2	21·6	25·9	91	..	1·7	..	3·1	0	0	18	1	0	1	1	1	5	7	2	13	0
	0830	"	1012·8	1011·0	+0·4	26·5	23·4	21·8	26·3	76	−1	2·5	+0·4	6·2	0	0	28	2	0	6	1	4	7	10	4	3	0
	1130	"	1012·3	1010·6	..	31·5	23·9	19·9	23·5	51	..	3·0	..	11·4	0	2	29	1	0	13	9	5	2	1	0	0	0
	1730	"	1009·3	1007·5	..	29·3	24·0	21·3	25·6	63	..	2·3	..	17·1	0	11	20	0	1	16	13	1	0	0	0	0	0
	2330	"	1011·9	1010·1	..	25·2	23·2	22·2	26·7	83	..	1·5	..	7·5	0	0	28	0	1	7	16	4	0	0	0	3	0
Vellore	0530	214	1010·9	986·4	..	21·6	20·2	19·4	22·5	87	..	1·5	..	2·5	0	0	16	0	1	0	1	7	3	3	1	15	0
	0830	"	1012·6	988·3	+0·5	24·1	20·9	19·0	22·1	74	−2	2·3	+0·5	1·7	0	0	18	0	1	0	0	6	6	4	1	13	0
	1130	"	1011·6	987·9	..	31·1	22·1	16·7	19·3	44	..	2·0	..	6·8	0	0	29	1	2	4	7	8	3	1	0	2	3
	1730	"	1007·5	989·6	..	33·0	21·9	15·1	17·1	35	..	2·0	..	7·9	0	1	30	0	3	7	16	3	2	0	0	0	0
	2330	"	1011·9	987·7	..	25·2	21·6	19·5	22·8	71	..	1·3	..	6·5	0	0	24	0	3	5	11	5	0	0	0	7	0
Tambaram (Aerodrome)	0830	29	1012·6	1009·3	..	27·0	24·2	22·9	27·9	78	..	3·2	..	8·6	0	0	31	3	1	0	2	6	5	2	12	0	0
	1730	"	1009·0	1005·7	..	29·9	24·3	21·4	25·8	61	..	2·2	..	20·2	0	12	19	0	0	3	23	3	1	1	0	0	0
Tirupattur	0830	390	1012·5	968·7	..	23·4	20·6	18·8	22·0	76	..	3·0	..	4·3	0	0	30	11	8	8	1	0	0	1	1	1	0
	1730	"	1006·5	964·2	..	32·7	23·4	18·1	21·1	43	..	3·0	..	15·0	0	3	28	9	5	15	0	2	0	0	0	0	0
Cuddalore	0530	12	1010·4	1009·0	..	22·5	21·5	21·1	24·9	92	..	3·4	..	1·2	0	0	9	4	0	1	0	2	0	0	2	22	0
	0830	"	1012·8	1011·4	+0·3	26·1	23·4	22·1	26·6	79	−1	4·6	+2·1	3·7	0	0	20	5	2	0	0	0	4	1	0	0	0
	1130	"	1012·3	1011·0	..	29·9	24·1	21·3	25·2	60	..	4·2	..	8·8	0	0	31	0	5	8	17	0	1	0	0	0	0
	1730	"	1009·1	1007·8	..	28·5	24·1	22·0	26·4	68	..	4·3	..	9·7	0	0	31	0	2	13	16	0	0	0	0	0	0
	2330	"	1011·3	1010·2	..	25·8	23·5	22·3	26·9	81	..	2·9	..	7·1	0	0	31	0	5	8	18	0	0	0	0	0	0
Kallakkurichchi	0830	127	1012·6	998·2	..	25·9	23·5	22·3	26·9	81	..	2·8	..	2·2	0	0	11	1	1	1	0	4	0	0	0	0	0
	1730	"	1007·3	993·4	..	33·6	25·5	21·7	25·9	51	..	2·5	..	12·8	0	5	26	0	1	24	5	0	1	0	0	0	0
Salem	0530	278	1010·7	979·1	..	22·3	19·9	18·5	21·3	79	..	3·7	..	2·2	0	0	17	0	2	15	0	0	0	0	0	14	1
	0830	"	1012·5	981·3	..	25·8	20·7	17·7	22·2	62	−8	3·9	+2·4	2·6	0	0	20	1	2	15	2	0	0	0	0	11	0
	1130	"	1010·8	989·2	..	31·9	20·9	13·1	15·7	34	..	3·7	..	4·3	0	0	20	0	2	9	2	2	4	1	0	1	0
	1730	"	1006·2	976·0	..	33·7	20·5	10·8	13·3	26	..	3·4	..	7·5	0	0	30	0	2	20	5	1	1	1	0	1	0
	2330	"	1010·8	979·7	..	26·3	21·1	17·9	20·8	61	..	3·2	..	13·2	0	5	25	0	2	27	1	0	0	0	0	1	0
Coimbatore (Pilamedu)	0530	399	1010·7	965·7	−0·5	21·8	19·5	18·1	20·8	80	..	2·6	..	5·9	0	0	23	10	9	0	0	0	2	0	0	1	0
	0830	"	1012·4	967·8	..	25·0	21·2	18·9	22·1	70	..	3·5	..	10·1	0	0	30	4	20	3	1	0	0	1	0	0	1
	1130	"	1011·0	967·2	..	29·9	21·8	16·7	19·5	47	..	2·8	..	13·5	0	5	26	2	15	9	1	2	1	0	0	0	1
	1730	"	1006·3	963·1	..	32·8	21·8	14·3	17·1	36	..	2·7	..	14·8	0	7	24	1	6	19	0	3	2	0	0	6	0
	2330	"	1010·9	966·4	..	25·2	21·7	19·7	23·1	73	..	2·0	..	9·4	0	4	21	2	1	2	5	8	7	0	0	0	0
Coimbatore	0830	409	1012·5	966·8	+0·3	24·9	20·6	18·0	20·8	66	−9	4·0	+1·4	18·7	0	18	13	1	1	13	13	2	0	0	1	0	0
	1730	"	1006·3	962·0	..	32·9	20·7	12·1	14·4	30	..	3·8	..	18·4	0	11	20	1	1	12	11	3	2	0	1	0	0
Nagapattinam	0830	9	1012·7	1011·6	+0·5	27·6	23·9	22·2	26·6	73	−2	3·5	0	9·4	0	3	24	1	9	7	4	0	0	1	5	4	0
	1730	"	1009·1	1008·0	..	28·5	24·5	22·5	27·4	70	..	4·1	..	19·0	0	16	15	0	11	12	8	0	0	0	0	0	0
	2330	"	1010·4	1000·4	..	23·6	22·2	21·5	25·6	88	..	2·1	..	7·2	0	0	25	5	9	6	2	0	0	1	2	6	0
Tiruchchirappalli	0530	88	1010·8	1000·7	..	22·9	21·7	21·1	25·0	90	..	2·5	..	5·3	0	20	23	6	8	6	0	0	0	1	2	8	0
	0830	"	1012·9	1002·9	+0·2	26·4	23·2	21·6	25·8	75	−2	2·8	+0·5	7·9	0	1	25	2	13	7	1	0	0	2	0	6	0
	1130	"	1012·1	1002·2	..	30·8	23·4	19·5	22·7	52	..	2·7	..	9·4	0	0	29	0	13	10	4	0	1	0	0	2	0
	1730	"	1007·9	998·1	..	33·0	23·2	17·7	20·4	41	..	2·5	..	15·8	0	8	23	0	11	15	3	1	0	0	0	0	1
	2330	"	1011·8	1001·8	..	25·1	22·8	21·7	25·9	81	..	2·1	..	12·1	0	2	27	0	5	20	4	0	0	0	0	2	0
Vedaranniyam	0830	4	1012·2	1011·7	..	28·9	24·2	22·0	26·3	67	..	4·0	..	4·6	0	0	25	2	12	4	3	0	0	0	4	6	0
	1730	"	1008·6	1008·1	..	28·8	24·3	22·2	26·6	68	..	3·0	..	6·6	0	0	30	2	14	10	4	0	0	0	0	1	1
Atirampattinam	0830	6	1012·2	1011·5	..	27·4	24·1	22·6	27·3	75	..	3·5	..	7·9	0	0	31	11	10	3	2	1	0	0	4	0	0
	1730	"	1008·6	1007·9	..	30·1	24·8	22·3	26·9	64	..	3·1	..	18·1	0	15	16	0	3	11	15	2	0	0	0	0	0
Madurai	0830	133	1012·1	997·1	−0·1	27·0	23·7	22·1	20·6	75	+4	4·8	+1·4	4·7	0	0	27	3	17	1	2	0	1	0	3	4	0
	1730	"	1007·0	992·3	..	33·4	24·4	19·6	23·2	46	..	5·2	..	6·6	0	0	30	1	11	6	11	1	0	0	0	1	0
Madurai (Aerodrome)	0530	102	1010·4	995·4	..	23·1	21·7	20·9	24·9	87	..	2·5	..	2·9	0	0	14	1	9	4	0	0	0	0	0	17	0
	0830	"	1012·4	997·5	..	26·5	23·0	21·1	25·3	73	..	3·3	..	8·6	0	0	29	4	21	2	1	0	0	0	1	2	0
	1130	"	1011·6	996·9	..	30·7	23·1	19·0	22·0	50	..	4·1	..	9·8	0	1	28	1	16	10	1	1	0	0	0	2	0
	1730	"	1007·3	992·8	..	33·3	22·9	16·9	19·4	39	..	4·3	..	14·3	0	6	25	0	7	18	5	1	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madras State —(*contd.*)																										
Tondi	0830	5	1012·3	1011·7	..	27·0	24·0	22·5	27·4	77	..	5·1	..	2·6	0	0	8	1	0	6	1	0	0	0	0	23
	1730		1008·7	1008·1	..	28·9	25·0	23·2	28·6	72	..	3·8	..	22·0	0	22	9	0	8	20	2	1	0	0	0	0
Pamban	0830	11	1012·0	1010·7	+0·1	28·1	24·8	23·3	28·6	75	−1	4·2	+1·6	8·6	0	0	29	2	16	7	4	0	0	0	0	2
	1730	,,	1008·5	1007·2	..	29·0	25·7	24·2	30·4	76	..	2·3	..	6·8	0	0	26	7	12	7	0	0	0	0	0	5
Tuticorin	0830	4	1012·3	1011·9	−0·3	27·4	24·1	22·5	27·3	75	+1	3·2	+0·7	13·6	0	3	28	16	11	1	0	0	0	0	3	0
	1730	,,	1008·4	1008·0	..	28·9	25·3	23·6	29·3	73	..	4·5	..	23·9	0	26	5	0	3	21	4	2	1	0	0	0
Palayancottai	0830	51	1012·3	1006·6	−0·3	27·1	23·3	21·4	25·5	71	−2	4·2	+0·9	2·7	0	0	25	20	0	0	0	0	0	2	3	6
	1730	,,	1007·9	1002·2	..	30·9	23·9	20·3	24·0	54	..	3·9	..	7·5	0	0	29	0	3	19	5	2	0	0	0	2
Kaniyakumari	0830	37	1011·6	1007·5	..	28·1	23·4	21·0	25·0	66	..	3·8	..	14·9	0	7	24	12	16	1	0	0	0	1	1	0
	1730	,,	1008·1	1004·0	..	29·1	24·5	22·2	26·9	67	..	4·3	..	16·5	0	15	16	0	7	11	5	3	3	2	0	0
Coastal Mysore																										
Karwar	0830	4	1011·2	1010·7	−0·7	24·2	21·8	20·4	24·1	80	−1	1·6	−0·2	3·2	0	0	18	9	9	8	0	0	0	0	1	13
	1730	,,	1008·4	1007·9	..	29·2	25·1	23·1	28·6	70	..	2·6	..	21·2	0	19	12	0	0	0	1	0	0	2	27	0
Honavar	0830	26	1011·8	1008·9	−0·4	24·0	21·7	20·1	24·1	79	+1	3·1	+0·1	5·4	0	0	30	1	8	20	1	0	0	0	0	1
	1730	,,	1008·4	1005·5	..	29·8	24·6	22·1	26·6	64	..	2·9	..	1·5	0	0	31	0	0	0	0	1	4	16	19	0
Mangalore (Bajpe)	0230	102	1009·5	998·0	..	24·9	23·0	22·0	26·6	84	..	1·3	..	3·0	0	0	14	1	4	7	2	0	0	0	0	17
	0530	,,	1009·7	998·1	..	23·9	22·5	21·7	26·1	88	..	1·5	..	5·0	0	0	27	2	7	15	3	0	0	0	0	4
	0830	,,	1011·7	1000·2	..	26·7	23·4	21·8	25·9	74	..	2·1	..	6·1	0	0	31	0	7	21	3	0	0	0	0	0
	1130	,,	1011·1	999·8	..	31·9	24·0	19·9	23·2	50	..	2·4	..	9·2	0	0	31	0	0	1	6	2	5	14	3	0
	1730	,,	1007·7	996·3	..	29·6	24·1	21·3	25·5	61	..	2·6	..	18·2	0	11	20	0	0	0	0	0	2	18	11	0
	2330	,,	1010·9	999·3	..	25·9	23·5	22·3	26·9	80	..	1·4	..	3·9	0	0	22	10	2	1	0	0	0	1	3	9
Mangalore	0830	22	1011·6	1009·1	−0·3	27·8	24·1	22·3	26·9	72	−2	3·6	+1·8	2·7	0	0	31	3	10	17	1	0	0	0	0	0
	1730	,,	1007·8	1005·3	..	30·1	25·2	22·9	27·9	65	..	3·4	..	6·9	0	0	31	2	0	0	0	0	2	19	7	0
Bidar	0830	664	1011·6	938·6	..	25·3	18·9	14·7	17·1	54	+13	0·5	−1·3	11·7	0	5	26	4	3	4	3	4	9	0	4	0
	1730	,,	1005·6	934·6	..	32·2	21·3	14·7	17·4	37	..	1·8	..	12·1	0	5	26	0	7	10	5	3	4	1	1	0
Gulburga	0830	458	1011·6	960·9	+0·5	27·5	17·1	9·1	11·9	33	−8	1·4	+0·7	6·2	0	0	28	2	6	4	7	2	3	0	4	3
	1730	,,	1005·3	956·1	..	35·0	18·8	6·5	9·9	18	..	3·8	..	10·1	0	1	27	1	3	10	7	1	0	5	1	3
Bijapur	0830	594	1011·4	945·6	0·1	24·4	16·8	10·6	12·7	43	−4	1·6	+0·7	2·1	0	0	17	5	2	1	1	1	2	2	3	14
	1730	,,	1004·4	941·3	..	34·9	20·3	11·0	13·1	24	..	4·2	..	2·1	0	0	21	7	2	3	1	2	3	3	0	10
Raichur	0830	400	1011·2	966·9	+0·2	27·0	20·2	16·1	18·2	53	+6	3·4	+2·4	4·9	0	0	29	1	3	0	22	0	1	0	2	2
	1730		1005·7	962·7	..	35·0	22·7	15·2	17·6	32	..	4·0	..	5·0	0	0	31	0	14	0	15	0	0	0	2	0
Belgaum	0830	753	1012·0	929·5	+0·6	24·2	16·8	10·9	13·7	46	−14	0·9	0	4·3	0	0	25	5	3	9	2	2	0	0	1	6
	1730	,,	1005·3	925·0	..	30·4	19·9	13·0	15·6	38	..	3·0	..	8·5	0	0	31	0	0	4	1	0	0	13	7	0
Belgaum (Samra)	0530	747	1010·7	927·6	..	19·5	14·8	10·9	13·4	60	..	2·0	..	2·0	0	0	10	1	2	3	2	1	0	1	0	21
	0830	,,	1011·3	929·4	..	24·1	16·5	10·5	13·2	45	..	1·0	..	5·2	0	0	26	7	3	2	3	0	1	6	1	5
	1130	,,	1009·5	929·4	..	30·5	17·5	7·4	10·5	24	..	0·9	..	9·1	0	0	30	6	3	1	4	5	1	2	2	1
	1730	,,	1005·5	925·8	..	31·0	19·1	10·8	13·4	32	..	3·2	..	16·8	0	13	16	1	3	3	2	0	2	15	3	2
Gadag	0530	650	1010·0	938·0	..	22·1	17·9	15·0	17·4	65	..	1·2	..	2·8	0	0	11	0	0	1	1	1	1	6	0	20
	0830	,,	1011·3	939·8	0	25·1	18·3	13·7	16·1	51	−6	1·4	+0·5	4·9	0	0	22	0	1	3	3	1	3	9	2	9
	1130	,,	1009·3	939·7	..	32·7	25·2	12·1	14·5	30	..	1·2	..	7·2	0	0	30	0	4	6	4	2	1	3	6	1
	1730	,,	1004·6	935·7	..	34·5	20·5	11·5	13·8	26	..	4·5	..	5·4	0	0	29	2	7	9	4	0	3	2	2	2
	2330	,,	1009·9	938·7	..	26·1	19·3	15·0	17·4	52	..	1·4	..	8·6	0	0	28	0	0	9	4	0	3	12	0	3
Bellary	0830	449	1010·0	961·3	+0·1	26·8	21·2	17·9	20·6	59	+13	1·1	−0·1	5·5	0	0	20	0	1	0	7	0	7	0	5	11
	1730	,,	1004·8	956·8	..	35·2	25·3	29·6	24·1	43	..	3·2	..	7·4	0	0	27	0	1	2	15	0	3	0	6	4
Chitradurga	0830	733	1010·9	930·8	−0·2	25·1	18·6	14·4	16·7	53	+3	1·9	+0·6	4·9	0	0	26	0	1	6	2	3	9	5	0	5
	1730	,,	1004·3	926·7	..	33·3	19·8	11·0	13·2	26	−	3·3	..	4·3	0	0	22	0	2	17	0	0	0	3	0	9
Shimoga	8030	571	1011·6	948·2	−0·3	23·3	19·5	17·3	19·9	69	−8	8·0	+5·4	2·0	0	0	19	0	0	0	4	10	4	0	1	12
	1730	,,	1003·6	942·9	..	34·3	20·5	11·8	14·0	26	..	8·0	..	5·0	0	0	24	0	2	0	8	7	7	0	0	7
Agumbe	0830	,,	..	..	..	22·0	19·3	17·7	20·5	77	..	1·6	..	3·1	0	0	17	0	13	3	0	0	0	1	0	14
Balehonnur	0830	,,	..	..	..	19·3	17·1	15·5	17·8	80	+1	..	..	..	0	0	—	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1523·1	907·2	..	22·9	17·6	14·2	16·3	60	−5	2·8	+1·3	1·5	0	0	16	4	0	2		4	0	1	0	15
	1730	,,	1503·5	903·7	..	31·7	18·5	9·9	11·7	28	..	4·2	..	2·5	0	0	25	1	0	9	7	1	1	0	0	6
Bangalore	0230	921	1502·2	909·4	..	20·8	19·9	14·3	16·4	67	..	2·0	..	8·2	0	0	31	0	1	15	12	1	2	0	0	0
	0830		1525·9	911·7	+0·3	22·5	17·5	13·9	16·3	61	−3	3·2	+1·8	7·2	0	0	28	0	0	6	10	2	6	4	0	3
	1130	,,	1535·2	911·3	..	28.4	18·2	10.8	13·5	35	..	3.4	..	10·8	0	1	30	0	1	10	11	2	3	4	0	0
	1730	,,	150 0	907·8	..	29·9	17·8	8·8	11·5	28	..	3.6	..	9·9	0	2	25	0	1	15	9	1	0	0	1	4

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—(*Contd.*)																											
Bangalore (Aerodrome)	0530	897	1500·1	912·2	..	19·3	16·8	15·0	17·4	77	..	1·8	..	2·9	0	0	16	0	1	8	3	1	3	0	0	15	0
	0830	,,	1525·9	914·2	..	22·8	17·9	14·6	16·9	62	..	3·1	..	6·7	0	0	25	0	0	10	3	5	3	4	0	6	0
	1130	,,	1536·3	913·8	..	29·1	18·2	10·6	12·9	33	..	3·1	..	12·1	0	3	28	0	0	12	8	2	3	5	1	0	0
	1730	,,	1504·9	910·3	..	30·7	18·1	8·8	11·5	27	..	3·5	..	11·9	0	2	25	1	0	18	6	1	1	0	0	4	0
	2330	,,	1518·2	913 3	..	23·0	17·1	13·0	15·2	54	..	1·8	..	7·1	0	0	26	0	0	18	8	0	0	0	0	5	0
Mysore	0530	767	1011·7	928·8	+0·2	24·1	18.5	15·0	17·1	58	−9	1·6	−0·4	3·0	0	0	30	2	0	0	5	9	12	0	2	1	0
	1730	,,	1005·4	923·9	..	31·7	17·9	7·2	10·4	23	..	3·0	..	13·0	0	5	26	1	18	5	3	0	0	1	3	0	0
Calicut	0530	5	1010·1	1009·5	..	25·1	23·4	22·6	27·3	77	..	1·6	..	8·7	0	0	26	0	7	19	0	0	0	0	0	5	0
	0830	,,	1011·9	1011·3	+0.1	28.0	24·2	22·5	27·1	73	−3	1·5	−0·6	7·0	0	0	31	3	8	14	5	0	0	0	1	0	0
	1130	,,	1011·9	1011·3	..	30·9	25·2	22·6	27·3	61	..	2·0	..	12·5	0	0	30	0	0	1	0	1	8	17	3	1	0
	1730	,,	1008·2	1007·6	..	30·3	25·7	23·6	28·9	67	..	2.2	..	16·5	0	5	26	0	0	0	0	0	1	2	28	0	0
	2330	,,	1011·2	1010 6	..	27·8	24·7	23·3	28·6	77	..	2·0	..	8·7	0	2	24	5	3	0	0	0	2	9	7	5	0
Palghat	0830	97	1012·0	1001·0	..	27·5	23·0	20·5	24·4	67	..	2·7	..	6·4	0	0	28	0	0	25	0	0	0	3	0	3	0
	1730		1006 2	995·5	..	34·8	22·7	15·0	17·7	35	..	2·8	..	12.1	0	5	26	0	0	22	0	0	0	9	0	0	0
Fort Cochin	0830	3	1011·8	1011·5	−0·1	27 6	24·6	23·2	28·4	77	+2	5·4	+3·4	4·7	0	0	28	7	13	6	1	0	0	0	1	3	0
	1730	,,	1007·5	1007·2	..	29·8	25·6	23·9	29·3	71	..	5·1	..	10·4	0	1	30	1	0	0	0	0	2	16	12	0	0
Cochin (Naval Air-Station)	0230	3	1010.1	1009·8	..	26·1	24·3	23·4	28·9	85	..	4·5	..	1·6	0	0	12	4	2	5	1	0	0	0	0	19	0
	0530	,,	1010·0	1009·7	..	25·2	23·8	23·2	28·3	89	..	4·1	..	1·9	0	0	14	0	6	8	0	0	0	0	0	17	0
	0830	,,	1011·8	1011·5	..	27·7	24·3	22.7	27·6	74	..	4·0	..	6·3	0	0	30	3	14	13	0	0	0	0	0	1	0
	1130	,,	1011·8	1011·5	..	31·2	25·1	22·2	26 9	59	..	4·0	..	13·3	0	0	31	0	0	0	1	4	3	9	14	0	0
	1730	,,	1008·2	1007·9	..	30 4	25·6	23.4	29·5	66	..	4·3	..	17·5	0	4	27	0	0	0	0	0	7	18	6	0	0
	2330	,,	1011·4	1011·1	..	27·3	24 6	23·4	28 6	79	..	5·4	..	2·0	0	0	14	3	1	5	0	0	0	3	2	17	0
Alleppey.	0830	4	1011·6	1011·2	0	28·4	25·4	24·1	30 0	78	+1	3·3	−1·0	4·2	0	0	31	2	8	5	15	0	0	0	1	0	0
	1730	,,	1007·9	1007·5	..	30·8	26·3	24·4	30·4	69	..	3·3	..	19·6	0	20	11	0	0	0	0	0	0	8	23	0	0
Punckur	0830	34	1011·5	1007·6	..	24·0	22·6	21·8	26·3	87	..	4·5	..	0·4	0	0	4	0	1	1	1	0	0	1	0	27	0
	1730	,,	1007·2	1003·4	..	32·6	24·4	19·9	23·8	50	..	6·2		4·1	0	0	29	1	0	6	8	7	5	1	1	2	0
Trivandrum	0230	64	1009 5	1002·5	..	25·2	23·6	22.7	27·7	86	..	2·1	..	3·4	0	0	23	14	6	0	0	1	1	0	1	8	0
	0530	,,	1009·6	1002·2	..	24·3	22·9	22·2	26·9	88	..	2·0	..	3·7	0	0	20	6	6	1	0	0	0	0	6	11	0
	0830	,,	1011·6	1004·2	−0·2	26.0	23·4	22·1	26·6	79	+2	2·2	0	4·0	0	0	27	8	9	4	1	0	0	0	5	4	0
	1130	,,	1011·0	1003·9	..	31·0	23·8	19·8	23 3	52	..	3·6	..	6·3	0	0	28	4	3	0	1	3	4	8	5	3	0
	1730	,,	1008·1	1000·9	..	29·4	24·7	22·5	27·3	67	..	4·7	..	7·8	0	0	31	1	0	0	2	2	22	2	2	0	0
	2330	,,	1011·2	1003·9	..	26.2	24·1	23·2	28.3	84	..	3·0	..	4·8	0	0	26	7	5	0	1	1	3	2	7	5	0
Trivandrum (Aerodrome)	0830	8	1011·5	1010·6	..	27·3	23·5	21·6	25.8	72	..	2·9	..	4·6	0	0	26	5	16	2	0	0	0	0	2	5	1
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*.	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1458·2	800·9	+1·2	10·5	5·0	−3·0	5·1	42	−18	3·1	+0·4	3·6	0	0	31	0	10	0	15	0	1	0	0	0	5
	1730	,,	..	..	..	13·1	8·3	3·1	7·6	53	..	3·4	..	3·1	0	0	31	0	1	0	9	0	19	0	0	0	2
Dharmsala	0830	1211	1563·2	886·6	+2·5	14·1	9·3	4·3	8·2	52	+3	3·9	+0·5	1·0	0	0	14	1	9	2	0	0	0	1	1	17	0
	1730	,,	1563·2	885·9	..	18·3	12·3	7·2	9·9	51	..	5·4	..	2·5	0	0	31	0	3	0	0	0	28	0	0	0	0
Simla	0830	2202	..	..	..	10·1	4·3	−3·9	4·5	40	+4	2·0	−1·2	2·0	0	0	31	1	6	0	9	5	7	0	3	0	0
	1730	,,	..	..	..	10·7	5·8	0.1	6·4	51	..	4·1	..	2·1	0	0	31	1	0	0	5	3	15	0	7	0	0
Lokpal	0830	..	..	..	..	−8·5	−10·2	−15·0	1·7	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..	..			Closed during winter months																					
Joshimath	0830	..	..	..	..	10·1	4·1	−4·9	4·2	38	..	2·1	..	12·7	0	5	25	1	7	13	3	0	0	0	0	1	6
	1730	...	..	..	..	13·7	6·7	−1·2	5·2	40	..	5·6	..	7·9	0	2	28	0	3	5	5	7	3	2	1	1	4

*Data given as addenda in December 1961 issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	[illegible]
Hill Stations excluding Kashmir—*Contd.*																											
Mussoorie	0830	2042	1494·2	796·6	−0·5	11·1	6·3	1·4	6·9	51	+3	2·8	−0·2	3·8	0	0	23	7	2	0	2	4	2	0	6	8	[illegible]
	1730	,,	1479·1	795·5	..	12·4	8·7	5·5	9·0	65	..	4·0	..	4·9	0	0	29	5	2	0	5	10	4	0	3	2	[illegible]
Mukteswar (Kumaon)	0830	2311	3128·5	773·1	+0·5	9·9	4·6	−2·2	5·3	45	+1	2·2	−0·4	8·8	0	3	23	0	3	3	1	1	1	9	8	5	[illegible]
	1730	,,	3120·6	771·8	..	12·1	7·7	3·5	8·0	58	..	2·9	..	19·7	0	15	16	0	1	1	0	0	4	15	10	0	[illegible]
Nainital	0830	1953	1494·8	805·3	+0·1	12·3	6·5	−17·6	6·0	44	−1	1·9	−0·7	2·3	0	0	11	0	4	1	1	0	0	2	3	20	[illegible]
	1730	,,	1473·4	803·3	..	12·7	8·2	3·5	8·1	55	..	2·5	..	6.9	0	0	31	5	0	3	3	4	2	12	2	0	[illegible]
Kalimpong	0830	1209	1467·9	876·2	−3·9	18·4	16·2	14·8	16·8	79	+17	1·9	+0.1	3·0	0	0	31	1	0	0	0	0	0	0	30	0	[illegible]
	1730	,,	1476·6	877·1	..	18·4	15·9	14·2	16·2	75	..	2·1	..	3·0	0	0	31	0	0	2	29	0	0	0	0	0	[illegible]
Darjeeling	0830	2128	1469.0	786.5	−1·8	11·4	8·4	5·7	9·1	69	+2	3·4	+0.4	0·3	0	0	3	2	0	0	0	0	1	0	0	28	[illegible]
	1730	,,	1440·4	784.0	..	11·9	9·0	6·4	9·6	69	..	5.3	..	3.0	0	0	18	0	0	0	0	0	8	5	1	13	[illegible]
Kohima	0830	1406	1553.0	864.5	..	16·4	10·2	3·7	8·0	45	..	0·9	..	3·6	0	0	31	3	5	3	0	3	1	6	4	0	[illegible]
	1730	,,	1446.0	854.1	..	19·4	13·9	9·5	11·9	51	..	2·6	..	3·3	0	0	31	1	2	0	0	0	1	5	18	0	[illegible]
Shillong	1730	1500	1519.4	852.1	+1·5	19·8	11·1	1·3	6·9	32	−13	0·9	−1·0	2·8	0	0	17	0	0	0	1	1	7	1	7	14	[illegible]
	0830	..	1491·4	849·7	..	18·4	12·4	6.7	10·0	51	..	4·3	..	0·8	0	0	5	0	0	0	0	2	2	0	1	26	[illegible]
Cherrapunji	0830	1313	1522·0	871·1	+1·2	18·3	14·5	11·6	13·7	65	+7	2.5	−0·5	5·1	0	0	29	0	2	6	0	0	18	0	0	2	[illegible]
	1730	,,	1523·0	871·1	..	18·9	14·7	12·1	14·1	65	..	3·4	..	2·7	0	0	22	0	0	3	0	0	18	0	0	9	[illegible]
Abu	0830	1195	1507·3	881·7	−0·6	18.1	11·0	2·7	8·1	38	+3	0·9	−0·6	1·4	0	0	12	0	3	2	1	0	2	3	1	19	[illegible]
	1730	,,	1504·0	880·3	..	23·7	12·6	0·6	6·5	23	..	1·2	..	1·5	0	0	16	2	2	0	1	0	6	2	3	15	[illegible]
Aijal	0830	..	..	..	..	22·5	16·9	12·8	15·2	56	..	0·9	..	2·2	0	0	31	3	1	7	1	3	8	8	0	0	[illegible]
	1730	..	..	..	..	24·1	18·4	13·9	16·9	57	..	1·1	..	2·3	0	0	31	2	0	0	1	4	4	19	1	0	[illegible]
Pachmarhi	0830	1075	1533·0	896.5	+0·9	20·7	14·1	8·6	11·2	48	+11	2·7	+1·1	2·3	0	0	23	0	2	3	2	6	5	1	4	8	[illegible]
	1730	,,	1512.1	893·5	..	26·6	16·5	8·3	10·9	32	..	4·7	..	3·7	0	0	29	3	3	1	1	2	4	8	7	2	[illegible]
Mahabaleshwar	0830	1382	1522·6	864·2	+0·2	19·9	12·7	6·0	9·5	40	+3	0·6	−0·1	9·5	0	0	31	0	13	8	4	0	3	1	2	0	[illegible]
	1730	,,	1513·7	863·1	..	25·3	15·9	8·6	11·2	32	..	0·7	..	9 6	0	0	31	4	0	0	2	0	8	7	10	0	[illegible]
Mercara	0830	1152	1520·2	887·3	+0.3	21.0	16·6	13.7	15.7	65	−4	1·5	−1·1	7.5	0	0	30	2	14	14	0	0	0	0	0	1	[illegible]
	1730	,,	1500·6	884·6	..	26·9	18.9	13·9	15·9	47	..	3.1	..	9·4	0	0	31	1	5	5	0	0	0	9	10	0	[illegible]
Ootacamund	0830	2249	1520·2	780·8	+0·1	13·7	9·7	6·0	9·5	61	+11	1·3	−0·4	3.9	0	0	23	2	12	8	0	0	1	0	0	8	[illegible]
	1730	,,	1492·8	779·1	..	16·6	11·8	7.6	10·7	57	..	3·9	..	2·9	0	0	23	2	8	12	0	1	0	0	0	8	[illegible]
Coonoor (R)	0830	1747	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	[illegible]
Kodaikanal	0830	2343	3162·3	772·4	+0·3	13·6	8·5	2·7	7·8	51	+5	2·3	+0·6	11·2	0	5	25	7	13	5	4	0	0	0	1	1	0
	1130	..	3176·9	772·7	..	17·4	11·3	5·7	9·5	48	..	2·9	..	13·3	..	7	23	5	11	7	6	1	0	0	0	1	0
	1730	,,	3150.7	771.0	..	15·0	11·9	9·3	11·9	70	..	4·9	..	6·6	0	2	25	5	4	2	9	2	0	0	5	4	0
Nepal																											
Katmandu	0830	1324	1501.7	868.3	..	12.9	10·9	9.0	11·5	79	..	2·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1497·2	867·4	..	20·6	13.9	8.3	11·0	47	..	2.8	..	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	1473·3	884·7	..	18·6	13·2	8·6	11·2	54	..	3·4	..	0·1	0	0	1	1	0	0	0	0	0	0	0	30	0
Sikkim																											
Lachen	0830	..	..	..	..	6·4	2.8	−2.2	5.1	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	[illegible]
Hydrometeorological observatories Damsdar Catchment																											
Tilaiya	0830	..	..	..	..	25·0	15·7	7·1	10·4	33	..	0·8	..	14·7	0	4	26	0	0	0	2	0	3	20	5	1	0
	1730	..	..	..	..	29·0	16·0	2·6	6·5	20	..	1·9	..	17·6	0	8	23	2	0	2	0	0	0	16	11	0	0
Hazaribagh	0830	615	1011·9	943·7	..	23·8	14·9	7·5	10·5	37	..	1·1	..	6·5	0	0	26	3	1	2	0	1	0	7	12	5	0
	1730	..	1007·7	940·4	..	26·7	15·2	5·0	8·9	26	..	1·9	..	7·7	0	0	31	6	0	2	0	0	1	7	15	0	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	1·5	..	9.6	0	2	28	0	0	1	1	0	1	24	3	1	0
	1730	..	..	..	..	..	..	..	..	..	..	1·8	..	13·0	0	2	29	0	0	0	1	0	1	28	1	0	0
Bokaro	0830	242	1013·2	985·7	..	24·0	16·3	9·8	12.0	43	..	1·8	..	2·0	0	0	17	0	1	0	0	0	11	0	5	14	0
	1730	,,	1008·5	981·7	..	30·2	17·6	6·7	10·0	24	..	2·9	..	5·5	0	0	27	0	4	0	1	0	1	1	20	4	0
Maithon	0830	,,	..	..	..	..	..	..	..	..	..	1·1	..	6.8	0	0	31	0	2	4	1	0	2	15	7	0	0
	1730	,,	..	..	..	..	..	..	..	..	..	1·9	..	10·0	0	0	31	1	2	1	1	1	6	8	11	0	0
Ramgarh	0830	,,	..	..	..	22·6	19·4	17·4	20·0	73	..	0·6	..	2·2	0	0	22	0	1	0	0	1	5	12	3	9	0
	1730	,,	..	..	..	28·4	22·7	19.6	22·7	62	..	1·3	..	2·5	0	0	24	0	0	1	0	2	10	7	4	7	0
Panchet Hills	0830	,,	..	..	..	26·2	17·6	11.1	13·0	40	..	3·8	..	5·2	0	0	30	1	2	0	0	2	13	11	1	1	0
	1730	,,	..	..	..	31·0	18·3	7·7	10·7	25	..	4·2	..	5·3	0	0	25	1	1	0	1	1	1	5	15	6	0
Durgapur	0830	,,	..	..	..	26·8	19·2	13·6	16·1	47	..	1·3	..	6·5	0	0	31	9	4	1	0	0	2	3	12	0	0
	1730	,,	..	..	..	31·2	19·6	10.9	13.7	30	..	1·2	..	6·5	0	0	31	1	0	0	1	0	1	5	23	0	0
Mahanadi Catchment																											
Ginabahar	0830	,,	..	..	..	24·3	16·3	9·7	12·3	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	[illegible]
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	[illegible]

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—Contd.																											
Gandak Catchment—Contd.																											
Hirakud	0830	159	1013·1	995·0	..	25·9	19·2	14·9	16·9	52	..	1·8	..	3·6	0	0	26	6	3	2	4	2	0	0	8	5	1
	1130	..	1012·1	994·4	..	30·9	20·5	13·8	15·8	37	..	2·2	..	3·6	0	0	31	8	2	1	0	0	2	3	15	0	0
	1730	..	1008·1	990·5	..	32·6	20·7	12·1	14·7	30	..	1·7	..	2·3	0	0	20	4	2	1	1	1	0	0	11	11	0
Bhimkund	0830	..	..	..	..	24·4	17·4	12·6	14·6	49	..	2·0	..	3·8	0	0	21	6	6	0	1	0	0	0	8	10	0
	1730	..	..	..	..	30·9	18·4	8·4	10·9	27	..	3·3	..	3·4	0	0	17	2	1	0	0	4	2	1	7	14	0
Sonepur	0830	..	..	..	..	26·7	20·9	17·5	20·2	58	..	..	..	4·0	0	0	23	3	4	4	4	1	3	2	2	8	0
Khirjawan	0830	..	..	..	..	26·3	18·7	12·9	14·7	45	..	0·6	..	5·1	0	1	29	4	2	6	7	6	1	4	0	1	0
	1730	..	..	..	..	27·3	19·2	13·3	15·3	44	..	0·3	..	10·2	0	1	30	2	2	6	15	1	1	2	2	0	0
Narmada Catchment																											
Bagre Tawa	0830	..	..	..	..	22·7	15·6	9·5	11·9	44	..	2·0	..	6·0	0	0	24	1	9	0	0	1	10	1	2	7	0
	1730	..	..	..	..	32·2	18·2	5·7	9·5	20	..	2·9	..	7·0	0	0	24	0	6	1	2	1	3	6	3	7	2
Punasa	0830	..	..	..	..	24·2	16·6	10·8	12·3	45	..	..	..	4·7	0	0	26	1	13	3	0	1	2	2	4	5	0
	1730	..	..	..	..	34·3	19·7	9·6	10·9	23	..	..	..	5·9	0	0	29	1	2	1	0	0	1	13	11	2	0
Thikri	0830	..	..	..	..	26·0	17·6	9·7	13·3	40	..	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	21·3	14·8	8·7	11·5	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	31·8	18·8	8·0	11·2	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	7.3	3·2	−1·7	5·3	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·8	5·2	1·6	6·9	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	17·3	12·2	8·6	11·2	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·4	14·5	10·2	12·4	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	10·5	(a) 6·1	(a) 1·3	(a) 6·7	(a) 54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·9	11·1	7.1	10·1	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	18·2	13·7	10·1	12·4	60	..	2·2	..	2·2	0	0	18	4	1	0	2	1	6	1	3	13	0
	1130	..	..	..	..	22·4	15·2	9·6	12·0	46	..	2·5	..	6·2	0	0	31	1	0	1	21	6	0	0	2	0	0
	1730	..	..	..	..	21·4	14·9	10·1	12·2	51	..	4·4	..	5·1	0	0	26	4	2	0	15	4	0	0	1	5	0
Gorkha*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	19·0	14·4	10·9	13·0	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·0	14·5	8·5	11·1	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh	0830	..	..	..	..	13·7	10·1	6·7	9·8	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.1	11·8	5·9	9·3	45	..	..	..	..	..	..	.	.	..	..	..	..	..	..	..	..	..
Dadeldhura	0830	..	..	..	..	12·1	8·1	4·1	8·2	59	..	2.3	..	..	..	.	.	1	0	9	10	2	3	0	1	5	0
	1730	..	..	..	..	14·1	9·4	5·1	8·8	55	..	2·9	..	..	..	..	..	1	2	2	1	0	14	1	10	0	0
Sadayana	0830	..	..	..	..	15·4	10·6	6·0	9·3	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·4	11·7	6·5	9·7	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	24·4	17·9	13·3	15·3	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·0	18·4	13·0	15·0	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu††	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chautara	0830	..	..	..	..	14·5	10·4	6·9	9·9	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19.2	12·3	6·8	9·9	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	10·7	8·7	7·4	10·3	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·2	10·3	9·2	11·6	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	6·4	3·0	−1·0	5·6	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	3·6	(c)3·2	(c)1·8	(c)6·9	(c)83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	14·0	10·2	5·8	9·2	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·0	11·7	6·9	9·9	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	15·6	11·1	7·5	10·4	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·5	10·7	6·7	9·8	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung**	0830	..	..	..	..	14·2	9·8	5·9	9·3	59	..	2·3	..	..	..	..	..	0	0	1	0	0	0	2	0	27	0
	1130	..	..	..	..	16·7	11·2	6·6	9·7	53	..	3·2	..	..	..	..	..	0	0	0	0	6	9	8	3	4	0
	1730	..	..	..	..	15·0	10·2	6·1	9·3	58	..	5·5	..	..	..	..	..	0	0	2	2	16	8	0	0	2	0
Okhaldhunga	0830	..	..	..	..	14·2	18–1	6·8	9·7	63	..	2·3	..	6·9	0	1	26	2	1	0	5	6	8	2	3	4	0
	1130	..	..	..	..	16·8	10·9	5·8	9·3	51	..	3·2	..	7·2	0	1	29	1	0	1	3	6	10	9	0	1	0
	1730	..	..	..	..	14·7	10·1	6·3	9·4	59	..	3·6	..	13·0	0	4	26	0	0	0	1	0	4	20	5	1	0

**Observations for 30 days. *Data not reliable. ††Data included under 'Nepal'. (a) Mean of 30 days. (c) Mean of 26 days.

TABLE III SUMMARY OF OBSERVATIONS AT FIXED HOURS MARCH 1962 (PHALGUNA 10, 1883 CHAITRA 10, 1884 SAKA)

Division and Station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of boservations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Hydrometeorological Observatories—*Contd.* **Kosi Catchment**—*Contd.*																										
Chainpur	0830	..	..	..	..	17·7	13·0	9·1	11·5	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·5	13·5	8·5	11·1	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung *	0830	..	..	..	..	17·5	13·0	9·3	11·7	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·9	13·5	7·1	10·1	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1012·3	995·5	..	21·4	16·1	12·0	14·0	57	..	1·4	..	4·3	0	0	31	0	9	2	4	3	8	2	3	0
	1130	,,	1010·8	994·4	..	27·4	18·7	12·5	14·5	41	..	1·8	..	6·1	0	0	31	1	0	0	1	0	25	1	3	0
	1730	,,	1007·2	990·7	..	26·5	18·3	12·1	14·4	44	..	2·1	..	3·8	0	0	31	1	7	8	8	2	4	0	1	0
Tista Catchment																										
Gangtok	0830	1812	1503·5	819·7	..	11·6	8·9	6·7	9·7	72	..	2·1	..	(j) 0·9	0	0	8	3	5	0	0	0	0	0	0	23
	1130	..	1494·3	819·2	..	16·4	11·9	8·6	11·0	61	..	3·7	..	(i) 4·6	0	0	29	0	3	1	2	7	13	2	1	2
	1730	..	1475·3	817·1	..	13·2	10·2	7·7	10·5	71	..	6·7	..	(i) 2·9	0	0	24	0	3	0	8	8	5	0	0	7
Gezing	0830	..	..	..	..	14·9	11·5	8·9	11·4	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·5	11·9	9·2	11·6	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(i) Mean of 22 days. (j) Mean of 21 days. *Observations for 30 days.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations ;

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

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

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

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

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18·0, 21·0, 24·0, 27·0 and 30·0 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

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PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530		1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1130	1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1130	1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	11th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	11th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530		1730	
21.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
22.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
23.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th Nov., 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1959	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45.	Raxaul	26°59	84°51′	83	28th October, 1957	0530	1130	1730	
46.	Siliguri/Baghdogra	26°33′	88°19′	140	7th June, 1953	0530	1130	1730	2330
47.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
48.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1130*	2330
49.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
50.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
51.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
52.	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
53.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

March 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	AGARTALA																AHMADABAD							
Time in I. S. T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·3	0·8	185	31	2·0	1·5	263	31	2·3	1·7	253	31	1·7	1·4	199	31	2·3	1·3	344	31	3·5	1·3	042
0·15 a.g. .	29	4·1	2·1	244	31	3·3	2·4	274	31	5·1	4·2	257	31	6·2	3·6	217	31	8·6	5·1	357	31	3·5	1·3	032
0·3 a.m.s.l.	29	4·7	3·0	279	31	3·3	2·3	263	31	5·2	4·5	255	31	6·1	4·0	236	31	7·9	4·3	352	31	3·8	1·4	039
0·6 ,, .	29	4·8	3·1	282	31	3·3	2·3	259	31	5·6	5·1	257	31	6·1	4·7	259	31	6·7	2·9	352	30	3·8	0.7	055
0·9 ,, .	29	4·9	4·0	290	31	4·2	3·4	254	31	5·8	5·3	255	31	6·8	6·0	268	31	6·0	2·0	320	30	4·2	0·3	110
1·5 ,, .	29	6·1	5·5	281	29	5·8	5·0	262	31	6·1	5·8	258	31	6·6	6·3	273	31	5·4	2·8	269	31	5·1	1·9	220
2·1 ,, .	29	9·0	8·5	283	21	7·9	6·9	273	30	6·5	6·3	265	31	8·1	8·0	279	31	6·8	5·4	252	30	6·1	3·5	235
3·0 ,, .	28	12·6	11·8	230	14	10·8	9·3	276	29	10·6	10·1	285	22	11·0	10·4	281	31	10·4	8·7	248	30	8·7	7·3	244
3·6 ,, .	21	13·5	13·0	285					29	14·2	13·4	286	6	10·8	10·2	279	31	11.4	10.6	247	30	10·4	9·4	249
4·5 ,, .	10	15·1	14·7	283					28	17·1	16·5	284	3	9·3	8·5	267	31	14·0	13·0	253	29	12·8	11·8	250
5·4 ,, .	7	16·9	16·7	270					23	18·0	17·4	278	1	2·5	2·5	275	31	17·2	15·9	255	28	16·2	15·3	256
6·0 ,, .	4	18·5	17·7	265					20	21·2	20·9	274	1	5·5	5·5	280	31	18·5	17·0	259	28	18·9	17·9	256
7·2 ,, .	2	22·5	22·3	285					6	24·2	23·9	264	1	16·5	16·5	270	30	23·5	21·7	265	22	23·5	22·7	262
9·0 ,, .																	26	33·8	31·7	272	4	24·1	23·6	260

Station	AHMADABAD								ALLAHABAD/BAMHRAULI															
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·8	1·4	291	31	2·1	1·4	315	31	0·9	0·3	274	31	1·8	1·5	276	31	2·7	2·1	298	31	0·8	0·1	310
0·15 a.g. .	30	4·3	1·6	283	31	7·5	5·1	320	31	5·3	2·5	296	31	3·2	2·3	267	31	5·7	4·4	298	31	6·7	4·5	324
0·3 a.m.s.l. .	30	4·1	2·0	287	31	7·4	5·3	320	31	5·3	2·6	298	31	3·3	2·3	266	31	5·7	4·4	298	31	7·0	4·7	325
0·6 ,, .	30	3·1	1·3	270	30	6·3	4·8	317	31	5·8	3·8	304	31	4·4	3·5	274	31	6·5	5·1	302	31	7·2	4·9	315
0·9 ,, .	30	3·7	1·7	278	31	5·4	3·9	307	31	6·3	4·6	293	31	5·9	5·0	283	31	6·3	5·2	299	31	6·9	5·0	297
1·5 ,, .	30	3·9	2·4	264	31	5·3	3·0	269	31	8·2	7·3	288	31	8·8	7·8	292	31	6·2	5·6	287	30	8·3	7·5	287
2·1 ,, .	30	4·8	3·7	267	31	6·9	3·9	230	31	10·2	9·6	285	31	11·1	9·6	289	31	8·4	8·0	281	30	10·4	9·4	278
3·0 ,, .	30	8·8	7·8	263	31	9·1	6·8	243	30	11·4	11·3	278	29	13·9	12·8	284	31	11·7	11·1	278	23	12·3	11·5	279
3·6 ,, .	30	11·3	9·8	255	9	10·9	9·0	226	29	12·8	12·1	273	28	15·4	14·7	280	31	13·4	12·6	279	2	13·0	12·0	281
4·5 ,, .	30	14·5	13·3	256					29	14·7	13·8	269	25	16·7	16·3	276	31	15·6	15·1	274				
5·1 ,, .	30	17·7	16·6	260					28	18·2	17·7	271	21	18·8	18·5	274	31	18·3	17·8	271				
6·0 ,, .	30	20·1	19·0	260					27	20·1	19·6	270	14	19·3	19·0	272	31	20·0	19.3	269				
7·2 ,, .	30	24·4	22·9	260					26	25·7	25·1	265	9	21·2	20·7	273	30	24·9	24·1	264				
9·0 ,, .	25	35·1	33·2	264					21	34·5	32·5	260	1	20·0	20·0	265	27	34·3	32.7	261				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	AMBALA																ANANTAPUR							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·2	0·7	327	31	1·8	0·9	326	31	2·1	1·3	304	31	1·7	1·3	334	31	2·5	1·4	173	31	3·5	3·1	082
0·15 a.g. . .	30	7·9	5·5	336	30	5·3	2·9	323	30	6·3	4·6	303	31	9·4	7·7	338	31	5·0	3·5	175	31	5·1	4·7	080
0·3 a. m.s.l. .	30	3·4	2·2	338	30	2·8	1·5	317	30	3·5	2·6	298	31	3.8	2·9	333								
0·6 ,, .	30	7·6	5·9	325	30	6·0	2·9	332	30	6·9	5·1	304	31	8·3	6·6	335	31	5·1	4·0	179	31	4·7	4·2	084
0·9 ,, .	30	7·3	5·3	330	30	7·3	3·8	323	30	6·5	5·0	308	31	7·4	5·6	337	31	6·1	4·9	173	31	4·0	3·4	090
1·5 ,, .	30	6·4	5·0	307	30	6·8	3·2	305	30	6·6	1·4	310	31	5·5	3·3	313	31	5·9	4·2	143	31	3·8	3·2	096
2·1 ,, .	30	6·1	4·8	293	29	5·9	3·6	288	30	6·3	3·9	288	30	5·7	3·9	284	31	5·4	3·6	091	31	4·1	3·4	095
3·0 ,, .	29	6·3	4·9	290	29	6·2	4·3	273	28	6·3	3·8	284	27	6·4	4·9	271	31	5.1	4·1	051	30	5·3	4·1	091
3·6 ,, .	28	8·1	6·5	288	29	7·2	4·6	269	27	6·8	4·5	274	2	3.7	3·5	235	31	4·8	2·7	064	29	5·0	2·9	071
4·5 ,, .	23	8·6	7·2	271	25	9·4	7·5	274	24	9·4	7·6	264	2	6·7	5·8	268	30	5·4	1·1	349	28	5·3	1·1	337
5.4 ,, .	17	10·2	9.0	256	19	12·9	11·3	278	19	11·7	10·9	172	1	2·0	2·0	330	29	6·4	3·8	240	26	5·7	2·9	272
6·0 ,, .	11	11·2	10.8	252	18	14·6	13.1	270	18	14·2	13·6	274					28	7·1	5·1	245	25	6·2	3·9	257
7·2 ,, .	3	19·0	18.4	260	9	15·3	14·9	261	2	15·7	14·5	251					25	10.5	8.5	265	24	10·3	7·9	260
9·0 ,, .																	14	12·5	9·8	255	19	16.0	13·7	243

Station	ANANTAPUR				ASANSOL																AURANGABAD/ CHIKALTHAN			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·8	5·4	095	31	0·7	0·6	283	31	2·1	1·8	300	31	2·3	2·0	306	31	1·1	0·5	287	31	0·9	0·5	353
0·15 a.g. . .	31	8·8	8·6	103	31	5·1	3·1	292	31	3·5	2·7	311	31	5·5	4·6	306	31	7·1	4·8	314	31	5·4	3·0	012
0·3 a.m.s.l. .					31	5·2	3·0	309	31	3·6	2·7	309	31	5·6	4·8	306	31	7·1	5·2	317				
0·6 ,, .	31	9·0	8·8	106	31	7·2	5·6	318	31	4·9	3·9	303	31	6·7	5·7	302	31	9·1	6·7	311				
0·9 ,, .	31	8.5	8·3	110	31	8·4	6·9	310	31	5·7	4·6	296	31	7·0	6·1	295	31	9·4	7·4	301	31	6·2	3·6	032
1·5 ,, .	31	4·7	4·1	113	31	9·3	8·2	296	31	7·4	6·4	285	31	7·6	6·8	289	31	9·0	7·9	277	30	5·5	0·9	035
2·1 ,, .	31	4·1	1·3	099	31	11·2	9.9	284	29	10·2	9·2	284	31	8·8	8·2	284	31	10·6	10·0	272	28	5·4	2·0	221
3·0 ,, .	30	4·7	1·7	026	27	14·8	13·7	286	18	13·4	12·1	282	29	12·3	11·8	286	25	13·3	12·3	278	25	6·4	5·5	210
3·6 ,, .	29	4·9	1·3	033	15	14·6	14·0	286					23	13·9	13·5	289	14	15·5	14·7	284	8	8·8	8.1	228
4·5 ,, .	24	5.0	1·8	313	11	20·4	19·6	283					16	17·7	17·3	285	11	18·2	17·5	266				
5·4 ,, .	19	5.4	2·8	265	1	11·5	11·5	285					6	17·0	16·6	296								
6·0 ,, .	11	6·5	5·1	263									4	21·2	21·0	291								
7·2 ,, .	5	10·2	9·2	258									1	20·5	20·5	280								
9·0 ,, .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	AURANGABAD/CHIKALTHAN								BAHRAICH								BANGALORE							
Time in I. S. T.	1730				2330				0530				1730				0530@				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·2	0·7	266	31	2·4	1·4	344	31	1·5	1.0	288	31	2·2	1·6	284	31	1·3	0·7	125	31	2·8	1·8	117
0·15 a.g.	31	4·1	1·8	275	31	7·4	4·4	009	30	8·6	7·3	307	31	6·4	4·9	291	29	5·2	3·5	149	31	4·6	3·3	118
0·3 a.m.s.l.									30	9·0	7·8	316	31	6·6	5·2	294								
0·6 ,,									30	10·4	9·0	308	31	8·1	6·7	292								
0·9 ,,	31	4·0	1·4	259	31	7·7	4·5	010	30	10·7	9·5	305	31	8·6	7·3	293								
1·5 ,,	31	4·0	2·0	262	31	5·6	1·9	342	30	11·2	10·4	301	31	9·5	8·5	297	29	6·8	3·9	122	31	5·1	3·7	100
2·1 ,,	30	4·7	3·2	250	30	4·7	2·0	239	30	12·3	11·3	297	30	12·1	11·2	299	29	6·7	4·8	091	29	6·3	4·9	072
3·0 ,,	27	5·8	5·0	244	26	6·3	4·7	200	30	13·5	12·9	287	30	12·4	12·1	294	28	7·2	6·4	058	27	9·0	8·3	078
3·6 ,,	24	7·5	6·3	253	19	7·1	6·2	215	25	12·8	12·4	287	30	14·1	13·3	290	28	6·2	4·6	067	25	7·4	6·2	080
4·5 ,,	17	11·3	10·6	263	5	9·0	6·6	243	18	12·3	12·0	284	28	15·2	14·7	292	28	4·8	2·7	093	25	5·1	3·2	073
5·4 ,,	13	16·5	16·1	269	1	11·5	11·5	230	11	14·3	14·1	284	26	17·7	17·3	287	26	5·4	1·0	098	22	6·1	1·4	057
6·0 ,,	11	17·0	16·3	269					6	16·3	16·0	276	25	19·5	19·1	286	26	6·3	1·6	195	21	6·2	0·9	114
7·2 ,,	3	15·5	15·5	276					2	14·3	14·2	266	23	23·2	22·6	277	25	8·1	3·5	245	18	6·4	2·0	264
9·0 ,,									1	13·0	13·0	265	13	29·1	27·8	269	21	12·7	10·4	250	15	10·2	7·7	262

Station	BANGALORE								BAREILLY								BEGAMPET							
Time in I. S. T.	1730@				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.7	2·5	097	31	3·1	2·6	104	31	1·7	1·1	300	31	2·1	1·3	306	31	0·8	0·2	130	31	2·5	1·9	109
0·15 a.g.	31	5·2	4·8	098	29	9·3	8·6	119	31	7·2	5·4	312	31	5·6	4·1	294	31	4·7	3·3	023	31	4·2	3·3	105
0·3 a.m.s.l.									31	6·8	5·1	320	31	5·4	4·0	295								
0·6 ,,									31	9·0	6·8	310	31	7·5	5·0	298	31	3·5	1·9	142	31	3·9	3·2	105
0·9 ,,									31	9·4	7·3	305	31	7·9	5·8	293	31	6·5	4·8	153	31	4·3	3·4	111
1·5 ,,	31	5·9	5·4	093	28	8·7	7·9	114	30	10·5	9·2	296	31	8·6	7·4	289	31	5·5	3·6	137	31	3·6	2·7	116
2·1 ,,	30	5·4	4·8	084	29	6·0	3·0	085	29	10·6	10·2	296	29	9·1	8·6	294	31	5·1	1·6	131	31	4·0	2·2	130
3·0 ,,	29	5·1	4·6	068	29	6·2	4·1	047	21	10·3	9·6	291	29	9·7	9·0	290	30	4·8	1·7	334	30	4·1	0·9	250
3·6 ,,	28	5·4	4·3	064	27	5·6	3·9	048	11	10·4	9·9	278	27	10·1	9·1	289	30	4·7	3·1	314	30	4·7	2·1	283
4·5 ,,	27	5·3	2·6	053	16	4·8	3·3	065	5	9·6	8·6	270	27	12·7	12·2	283	23	7·6	5·8	291	25	6·6	4·8	274
5·4 ,,	27	5·9	1·7	050	9	4·6	0·6	222	1	8·0	8·0	300	24	15·4	15·3	283	20	10·5	8·9	275	24	9·9	8·8	259
6·0 ,,	25	6·2	0·7	129	9	6·0	2·2	219	1	7·0	7·0	305	21	16·5	14·3	282	17	12·2	11·3	276	21	11·2	9·4	261
7·2 ,,	24	7·3	4·0	216					1	7·0	7·0	305	12	23·0	21·7	276	11	18·3	16·7	271	20	15·8	13·7	261
9·0 ,,	24	12·0	9·3	241													7	28·9	22·9	262	15	21·6	20·2	254

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	BEGAMPET				BHAGALPUR												BHOPAL/BAIRAGARH							
Time in I. S.T.	2330				0530				1130				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·8	1·4	120	31	2·2	1·8	233	31	3·7	3·4	274	31	3·2	2·9	279	31	1·7	0·7	086	31	2·5	1·1	329
0·15 a.g. . .	31	7·1	6·7	124	31	6·3	4·7	262	30	5·5	5·1	280	31	7·7	7·1	283	31	6·6	2·8	111	31	4·1	2·0	308
0·3 a.m.s.l. .					31	6·9	4·9	285	30	5·6	5·1	282	31	7·8	7·2	284								
0·6 ,, .	31	5·0	4·6	120	31	8·1	6·7	303	30	6·7	6·0	284	31	8·7	8·0	285	31	5·6	2·3	105	31	4·0	1·8	307
0·9 ,, .	31	7·8	7·4	130	31	9·0	7·8	298	30	8·2	7·7	287	31	9·4	8·7	281	31	6·4	1·9	111	31	4·0	2·2	304
1·5 ,,	31	6·1	4·4	130	31	10·7	10·0	292	28	10·6	10·3	288	30	11·0	10·3	278	31	5·1	0·3	002	31	4·2	2·4	282
2·1 ,,	31	4·6	0·6	054	30	13·1	12·4	287	20	12·0	11·7	290	24	12·2	11·8	283	31	6·2	4·1	260	29	4·9	3·5	261
3·0 ,, .	30	4·9	2·6	308	20	13·8	13·5	286	12	13·1	12·9	290	18	13·0	12·6	288	30	8·3	7·4	258	28	8·8	7·7	251
3·6 ,, .	27	5·7	4·1	302	15	13·3	12·9	292					17	14·7	14·4	280	28	11·5	8·0	257	23	12·3	11·6	262
4·5 ,, .	11	6·4	3·9	287	10	14·9	14·7	283					16	18·0	17·7	285	22	13·4	12·5	265	19	15·0	14·8	266
5·4 ,, .	6	8·1	6·7	288	7	16·5	16·4	280					13	21·9	21·8	283	14	15·3	14·2	270	15	18·0	17·7	267
6·0 ,, .	2	8·3	7·3	265	3	13·8	13·7	295					13	24·1	23·9	281	13	18·2	17·1	268	14	21·0	20·4	265
7·2 ,, .					2	18·7	18·7	283					7	25·3	25·3	278	8	20·7	19·2	269	9	24·6	24·1	264
9·0 ,, .													4	45·4	44·5	274	3	34·3	34·0	258	1	30·0	30·0	250

Station	BHOPAL/ BAIRAGARH				BHUBANESHWAR																BHUJ/RUDRAMATA			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·1	0·6	056	31	1·4	0·5	222	31	2·5	0·8	228	31	4·4	2·8	173	31	2·8	2·4	212	31	1·5	1·1	273
0·15 a.g. . .	31	7·7	2·6	040	27	5·5	2·7	267	31	6·0	0·4	226	31	5·7	3·7	175	31	8·3	7·3	213	31	5.5	4.5	306
0·3 a.m.s.l. .					27	5·9	3·1	270	31	4·7	0·9	287	31	5·8	3·8	177	31	8·9	7·6	215	31	6·5	5·5	317
0·6 ,, .	31	7·4	2·7	043	27	5·2	2·6	265	31	4·4	1·0	292	31	5·4	2·9	193	31	8·2	6·6	215	31	7·5	6·1	315
0·9 ,, .	31	6·7	1·7	002	25	4·9	2·7	279	31	4·4	1·2	287	31	4·0	1·8	233	30	6·8	4·2	224	30	6·2	4·0	304
1·5 ,, .	31	5·7	2·5	267	25	3·8	2·0	302	30	4·5	1·9	270	28	4·5	3·5	297	29	4·7	2·4	206	30	5·7	2·6	275
2·1 ,, .	31	6·2	4·7	253	24	4·8	3·4	323	28	5·1	2·5	287	26	6·7	6·1	310	25	6·0	4·5	316	29	6·6	3·4	266
3·0 ,, .	29	8·9	7·6	248	23	8·1	6·9	324	10	8·9	7·1	308	21	9·0	8·0	310	22	7·1	5·5	320	25	6·6	4·5	260
3·6 ,, .	9	8·6	7·0	256	15	8·5	7·1	239					20	9·7	8·8	300	1	7·3	7·3	315	1	7·5	7·5	320
4·5 ,, .	2	10·7	9·9	282	12	10·1	9·2	260					17	11·1	9·6	280								
5·4 ,, .					7	14·6	14·0	266					14	13·3	12·2	262								
6·0 ,, .					1	13·0	13.0	245					14	15·3	14·0	258								
7·2 ,, .													6	19·5	16·8	250								
9·0 ,, .													1	18·0	18·0	255								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10,—1884 Chaitra 10, 1883 Saka)

Station	BHUJ/RUDRAMATA								BIKANER												BOMBAY/SANTA-CRUZ			
Time in I. S. T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·1	2·0	278	31	2·7	2·3	262	31	0·2	0·1	182	31	0·5	0·3	266	31	1·0	0·8	025	31	0·9	0·8	360
0·15 a.g. .	31	4·1	2·5	266	31	6·4	5·5	273	31	7·6	4·8	144	30	3·9	2·4	255	30	8·1	3·8	040	31	4·5	4·2	355
0·3 a.m.s.l. .	31	4·2	2·7	269	31	6·8	5·8	280	31	5·9	3·5	112	30	3·6	2·1	277	30	6·8	3·0	038	31	4.6	4·2	357
0·6 ,, .	31	4·6	3·1	268	31	5·9	4·9	286	31	7·3	2·9	089	30	4·6	2·9	277	30	7·8	3·3	032	31	5·4	4·6	360
0·9 ,, .	31	4·5	3·0	272	31	5·1	3·3	295	31	6·1	1·9	095	29	4·1	2·2	292	30	6 6	2·1	320	31	5·5	4·1	359
1·5 ,, .	31	4·4	3·2	271	31	4·7	1 4	291	31	4·9	1·8	275	29	4·1	2·0	275	30	4·9	2·1	244	31	5·1	2·6	304
2·1 ,, .	30	5·1	3·9	272	31	5·8	2·7	277	30	6·2	4·6	260	29	4·5	3·4	257	30	5·8	3·9	238	31	5 3	1·9	211
3·0 ,, .	27	7·5	6·0	270	31	7·3	5·2	258	28	7·6	3·1	267	29	6·9	5 5	253	24	8·5	5·7	249	31	6·7	4·9	205
3·6 ,, .	22	10·5	8·6	268	4	7·5	6·1	243	22	7·0	3·5	110	27	10·4	8·1	258	7	10·5	9·1	240	31	7·9	6·6	211
4·5 ,, .	20	14·3	12·2	266					10	11 1	8·7	098	24	11·0	10·3	260					31	7·8	6·8	248
5·4 ,, .	19	16·8	15·7	262					4	10·5	8·9	265	20	14·5	13·6	265					30	11·5	10·6	257
6·0 ,, .	17	19·5	18·3	267					3	11·7	10·3	265	17	15·7	15·4	263					30	13·2	12·2	257
7·2 ,, .	2	25 7	25 6	273									8	17·9	17·3	265					30	18·5	17·1	259
9·0 ,, .																					28	28·5	26·1	255

Station	BOMBAY/SANTA CRUZ												CALCUTTA/DUM DUM											
Time in I. S. T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·3	1·1	299	31	5·3	5·0	308	31	1·1	0·9	340	31	0·5	0·3	252	31	1·6	0·9	280	31	0·6	0·4	210
0·15 a.g. . .	31	2·6	1·9	335	31	7·5	7·1	319	31	5·1	4·5	336	31	4·9	2·7	290	31	3·1	2·0	295	31	4·9	2·9	272
0·3 a.m.s.l. .	31	2·6	1·8	015	31	6·7	6·1	315	31	5·6	5·0	336	31	5·1	2·8	284	31	3 3	2·2	297	31	4·7	3·1	262
0·6 ,, .	31	3·4	2·1	036	31	4·7	3·8	310	31	5·7	4·8	333	31	5·0	2·9	301	31	3·9	2·7	291	31	4·8	3·3	285
0·9 ,, .	31	4·2	2·6	041	31	3·4	2·0	289	31	4·8	3·4	329	31	4·9	3·0	308	31	4·3	3·0	287	31	4·7	3·7	289
1·5 ,,	31	4·5	1·0	229	31	3·3	1·6	232	31	3·8	1·6	290	31	5·1	4·5	300	31	6·6	5·5	290	31	5·6	5·0	292
2·1 ,,	31	5·3	3·6	202	31	5·0	3·6	215	31	4·8	3·5	217	31	7·5	6·8	290	31	9·1	8·1	293	31	6·8	6·5	294
3·0 ,, .	31	7·1	6·4	210	31	6·4	5·5	209	31	7·0	5·3	198	31	10·9	10·2	291	28	12·5	11·5	293	31	10·7	10·2	298
3·6 ,, .	30	7·6	5·6	219	31	7·0	5·4	230	24	7 6	5·3	209	31	11·4	10·6	290	25	12·9	12·1	293	31	13·4	12·9	294
4·5 ,, .	29	9·7	8·6	249	31	8·3	6·4	250	12	9·0	7·3	234	31	13·7	13·2	285	25	14·2	13·7	288	31	14·9	14·3	287
5·4 ,, .	27	12·1	11·2	256	31	10·8	9·6	251	3	11·0	10·8	258	30	17·3	16·9	277	23	17·3	16·7	281	31	18·2	17·6	275
6·0 ,, .	27	15·1	13.7	255	31	13·3	12·1	256	1	7·0	7·0	265	30	20·0	19·4	273	20	18·9	18·7	273	30	20·3	20·0	272
7·2 ,, .	24	19·7	17.8	255	31	18·3	16·9	255					30	24·0	23·5	267	10	23·1	22·1	280	29	25·9	25·5	266
9·0 ,, .	10	28·4	25·8	245	28	26·9	25·0	250					25	37·8	31·8	268	3	30·0	29·4	264	24	33·5	32·5	264

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	CALCUTTA/ DUM DUM				COCHIN/WILLINGDON												DARJEELING							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·0	0·8	209	31	1·0	0·8	064	31	3·4	3·1	270	31	0·8	0·5	038	31	0·1	0·1	225	31	1·1	1·1	225
0·15 a.g.	31	5·3	4·4	230	30	3·0	2·1	023	31	4·7	4·3	272	29	2·3	1·4	340	17	1·6	1·1	178	23	3·9	3·8	232
0·3 a.m.s.l.	31	5·5	3·8	230	30	2·5	1·9	004	31	4·7	4·2	273	29	2·2	1·5	334								
0·6 ,,	31	5·6	3·3	269	30	2.6	1·6	345	31	3·5	2·3	273	29	2·5	1·1	324								
0·9 ,,	31	5·5	3·8	295	29	2·6	0·9	039	31	3·1	0·8	012	29	2·3	0·7	059								
1·5 ,,	31	6·5	5·8	303	29	3·6	2·9	062	31	5·2	4·9	063	28	4·2	3·8	087								
2·1 ,,	31	8·2	8·1	295	27	6·9	6·6	064	31	8·1	7·8	061	22	6·2	5·8	070								
3·0 ,,	20	10·1	9·4	296	25	6·0	4·9	080	29	8·4	7·9	076	14	7·1	6·6	072	17	6·6	6·2	274	23	7·6	7·3	275
3·6 ,,	2	8·7	8·6	293	21	6·7	5·2	081	28	6·3	5·9	076	2	6·7	6·7	097	16	12·2	12·0	277	20	9·7	9·3	292
4·5 ,,					13	6·1	5·6	082	20	5·5	4·5	076					8	16·5	16·3	271	17	17·7	17·4	274
5·4 ,,					1	2·5	2·5	290	12	5·7	3·8	067					4	14·6	14·2	267	13	23·0	22·8	280
6·0 ,,									9	6·4	2.9	114									11	23·5	23·2	282
7·2 ,,									5	6·9	3·6	117									4	19·4	19·2	287
9·0 ,,																					1	12·5	12·5	290

Station	DEHRA DUN								DIBRUGARH/MOHANBARI															
Time in I.S.T.	0530				1730				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·0	0·8	008	31	2·4	1·5	263	31	0·8	0·7	043	31	0·8	0·7	053	31	0·7	0·7	042	31	0·9	0·7	045
0·15 a.g.	31	2·1	1·5	052	30	3·9	2·7	270	28	5·7	5·1	046	30	2·3	1·9	052	31	3·2	2·5	056	24	5·3	5·2	054
0·3 a.m.s.l.									28	6·1	5·6	047	30	2·4	2·0	051	31	3·5	2·8	055	24	5.7	4·9	055
0·6 ,,									28	4·8	3·7	048	30	3·3	2·2	053	31	3·7	2·8	063	24	5·1	4·1	058
0·9 ,,	31	2·0	1·2	060	30	4·1	2·8	270	28	3·9	1·5	065	30	2·9	1·0	081	31	3·2	1·7	068	24	4·6	3·5	075
1·5 ,,	31	2·5	1·0	303	30	4·5	2·5	265	28	4·2	2·0	205	29	3·5	2·7	217	31	3·4	2·3	217	24	3·4	1·8	144
2·1 ,,	31	3·4	1·7	287	30	4·3	1·8	249	24	5·6	4·1	232	27	5·7	4·9	229	28	6·5	6·1	230	23	4·8	3·5	299
3·0 ,,	29	4·4	3·2	290	28	4·2	2·0	267	20	6·5	5·9	251	25	7·4	6·9	227	27	11·1	8·6	229	16	9·3	8·9	247
3·6 ,,	27	4·8	2·2	288	26	4·8	1·9	283	13	6·3	5·3	250	23	9·1	8·3	238	19	10·5	7·0	229	8	7·3	7·0	240
4·5 ,,	23	7·9	5·7	286	23	6·7	5·3	280	4	10·5	9·2	265	13	8·7	6·9	258	13	9.8	8·7	248	1	14·0	14·0	255
5·4 ,,	17	9·6	9·0	265	21	10·4	9·6	278	3	10·2	7·2	271	7	10·5	7·6	285	9	11·1	9·7	260				
6·0 ,,	15	11·4	10·4	263	21	14·0	13·2	275	1	9·0	9·0	230	6	15·0	12·1	279	6	15·0	13·3	275				
7·2 ,,	6	14·4	13·2	257	10	17·5	16·5	279					4	17·0	12·6	281	4	18·1	15·2	270				
9·0 ,,													1	15·5	15·5	255	1	13·0	13·0	230				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	GADAG												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·4	1·1	179	31	2·3	1·4	100	31	4·2	1·2	229	31	0·4	0·2	086	31	2·6	1·1	342	31	1·7	0·8	279
0·15 a.g.	31	5·3	0·5	247	31	3·5	2·1	102	31	8·6	1·8	245	31	3·0	1·3	084	31	3·6	1·6	348	31	4·4	1·9	285
0·3 a.m.s.l.													31	3·3	1·1	095	31	3·7	1·2	335	31	4·4	1·9	287
0·6 ,,													31	4·2	1·[illegible]	245	31	3·8	2·1	287	31	5·0	3·2	282
0·9 ,,	31	5·7	1·2	034	31	3·6	2·1	102	31	9·1	1·6	265	31	4·3	2·5	257	31	4·6	3·3	26[illegible]	31	5·4	3·9	270
1·5 ,,	30	6·2	1·9	128	31	4·2	2·4	109	31	6·6	2·6	104	31	5·8	5·2	260	30	7·6	6·9	249	31	6·2	5·7	258
2·1 ,,	30	4·4	2·4	113	31	4·0	2·2	096	31	5·4	4.7	106	31	8·0	7.4	265	30	9·5	8·9	249	31	8·0	7·8	252
3·0 ,,	30	4·2	2·6	095	30	3·8	1·8	095	31	5·4	4·4	100	31	10·8	10·4	271	28	11.7	11·3	256	31	11·0	10·5	254
3·6 ,,	30	5·1	1·4	073	30	3·8	1·3	085	30	4·6	3·0	080	31	13·0	12 5	275	25	13·8	13·2	265	31	12·4	11·7	262
4·5 ,,	29	5·8	2·2	273	27	5·3	1.5	265	28	5·6	0·8	320	31	17·1	16·5	275	22	18·0	17·7	272	31	16·9	16·[illegible]	271
5·4 ,,	29	8·3	6·2	257	25	6·9	4·1	257	25	7·4	3·3	257	31	19·5	18·7	273	19	20·6	20·3	271	31	20·6	20·0	273
6·0 ,,	29	10·2	7·3	259	24	8·0	5·3	260	12	9·3	3·9	269	31	22·3	21.9	275	18	22·9	22.5	271	30	21·5	20·8	274
7·2 ,,	29	12·4	9·8	261	21	11·9	9·8	257	3	8.0	6.0	286	31	27·7	27·3	273	11	27·4	27·0	272	30	26·9	26·4	274
9·0 ,,	20	15·0	11·2	249	20	19·2	16·3	255					22	37·2	36·3	271					18	31·4	33·8	277

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2[illegible]0				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	0·3	114	31	1·1	0·7	205	31	4·3	3·2	297	31	4·3	3·4	311	31	1·5	0·7	231	31	1·1	0·7	271
0·15 a.g.	31	4·8	1·7	158	30	5·7	4·6	264	31	6·2	4·7	282	31	7·1	5·8	302	30	7·2	5·6	299	31	4·0	2·7	229
0·3 a.m.s.l.	31	5·2	1·7	177	30	5·9	4·6	277	31	6·0	4·8	281	31	7·3	5·9	300	30	7·7	6·3	303	31	3·5	3·0	228
0·6 ,,	31	5·6	2·0	213	30	7·2	6·2	306	31	6·3	4·9	278	31	7·8	6·6	297	30	8·5	7·5	304	31	4·6	3·5	234
0·9 ,,	31	5·6	3·6	250	30	7·5	7·3	299	31	6·7	5·5	280	31	8·2	7·1	294	30	8·9	8·0	296	31	4·7	2·4	240
1·5 ,,	28	5·6	4·8	254	30	9·9	9·6	292	30	10·6	9·6	290	31	9·0	8·2	285	29	11·1	9·8	285	31	3·7	0·8	292
2·1 ,,	24	7·2	6·8	255	29	11·5	11·3	283	25	13·1	12·4	291	30	10·7	10·1	281	17	11·1	10·7	276	31	4·3	2·2	324
3·0 ,,	18	8·3	7·6	262	18	13·5	13·2	283	7	12·0	11·2	285	26	14·5	14·0	288	6	10·7	10·6	285	26	6·4	5·6	325
3·6 ,,	6	8·8	6·6	267	6	12·5	12·5	292					23	16·3	15·9	287	1	11·5	11·5	275	23	7·1	4·8	338
4·5 ,,	2	11·3	10·9	283	2	7·0	7.0	293					19	17·6	17·5	289					20	9·1	8·0	279
5·4 ,,	2	13·3	11·9	282									11	19·4	19·1	285					14	11·7	10·4	266
6·0 ,,	2	16·5	12·1	308									8	22·7	22·2	283					11	13·8	12·3	266
7·2 ,,													1	33·5	33·5	275					5	16·2	16·0	270
9·0 ,,																					1	31·0	31·0	250

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1984 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5.2	4·9	186	31	4·3	3·9	212	31	1·4	1·0	272	31	2·9	2·3	275	31	0·3	0·1	221	30	0·8	0·2	272
0·15 a. g. .	31	7·8	6·3	181	31	7·5	6·5	212	30	8·6	6·1	296	31	6·5	5·1	290	31	4·4	0·8	040	30	2·3	0·9	30[illegible]
0·3 a.m.s. l. .	31	8·0	7·0	178	31	7·3	6·8	208	30	9·5	7·0	302	31	7·3	5·8	285	31	3 5	0.2	277	30	2.4	0.9	28[illegible]
0·6 „ .	31	5·5	4·4	171	31	5·9	5·1	205	30	10·5	8·5	298	31	8·8	7·5	283	31	4 5	1.1	352	30	2.9	1.0	24[illegible]
0·9 „ .	31	4·1	2·3	160	29	4·6	3·3	205	30	11·2	9·4	296	31	9·2	8·1	283	30	4·4	2·2	303	30	3·4	2·1	27[illegible]
1·5 „ .	29	3·6	2·8	336	27	3·0	0·9	333	30	12·7	9·6	297	31	10·2	9·2	281	30	5·5	4·5	286	30	5·8	4·1	27[illegible]
2·1 „ .	29	5·9	5·0	319	22	5.2	4·4	347	29	13·4	12·6	288	31	12·3	11·7	287	30	7·7	6·8	281	29	7·3	6·4	27[illegible]
3·0 „ .	28	8·2	7·5	311	22	6·1	5·1	213	20	13·3	12·5	280	30	14·4	14·0	288	28	10·9	10·1	270	29	10·5	9·7	26[illegible]
3·6 „ .	27	9·1	8·9	308	8	6·7	5·7	317	8	13·4	12·9	283	29	15·5	15·1	280	28	12·9	12·2	268	29	12·5	11·8	26[illegible]
4·5 „ .	26	10·1	9·1	286	1	8·5	8 5	280	2	11·5	11·1	291	25	17·0	16·6	289	27	15·0	14 3	268	28	15·9	15·5	26[illegible]
5·4 „ .	23	12.5	11·0	274									15	15·7	15·6	285	22	17·1	16·4	270	28	18·6	18·3	26[illegible]
6·0 „ .	21	14·1	13·3	267									13	17·8	17·5	283	20	19·5	19·1	269	24	21·0	20·3	26[illegible]
7·2 „ .	16	17·3	16·1	256									5	21.0	20.7	283	15	22.2	21·8	266	22	25·4	25·1	26[illegible]
9·0 „ .	7	31·0	29·2	254									1	14.5	14.5	275	4	23.9	23.9	259	8	25·5	24·3	[illegible]

Station	GWALIOR								IMPHAL/TULIHAL															
Time in I. S.T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	0·8	017	31	0·5	0·1	132	31	0·9	0·4	285	31	3·5	2·6	270	31	4·3	3·7	277	31	0·5	0·2	26[illegible]
0·15 a. g. .	31	4·6	2·6	335	31	5·2	3·2	039	31	2·4	0·5	010	31	5·5	3·0	284	31	6·5	6·0	277	31	2·2	1·3	26[illegible]
0·3 a.m.s.l. .	31	4·1	2·3	337	31	4.3	2.7	040																
0·6 „ .	31	5·1	3·5	319	31	4.8	2.0	020																
0·9 „ .	31	4·7	2·8	307	31	4 6	2·0	314	31	2·5	0·8	020	31	5·3	3·0	286	31	6·3	5·8	277	31	2·1	0·9	26[illegible]
1·5 „ .	31	5·6	4·0	282	31	5·8	4·3	274	31	4·5	3·9	270	31	5·2	4·5	269	31	6·2	5·9	268	31	5·4	5·0	27[illegible]
2·1 „ .	31	6·7	5·1	271	31	7·4	6·4	258	30	8·0	7·5	277	31	7·2	6·5	268	31	7·1	6·7	261	29	10·1	9·8	26[illegible]
3·0 „ .	30	9·9	8·8	268	31	10·2	9·3	263	23	11·7	11·3	272	23	10·7	10·3	272	21	11·4	10·7	271	17	11·5	11·1	26[illegible]
3·6 „ .	29	12·8	12·5	265	16	10.2	9·5	270	12	10·7	10·2	276	12	13·0	12·4	277	16	11·9	11·0	271	8	13.9	13·6	26[illegible]
4·5 „ .	25	16·0	15·7	264					3	14·3	13.2	295	4	12·7	12·4	284	9	14·5	14·0	277	1	13·0	13·0	28[illegible]
5·4 „ .	24	19.4	19.1	269					1	13.0	13.0	275	2	17·0	16·9	276	6	17.4	17.3	281				
6·0 „ .	23	21.3	20.8	269					1	13.5	13.5	275	1	24.5	24.5	275	6	22.5	22.2	278				
7·2 „ .	18	21·9	21·4	267					1	21.0	21.0	255	1	29.0	29.0	280	3	28.5	28.3	280				
9·0 „ .	9	28.4	27.3	262													1	36·5	36·5	265				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	JABALPUR												JAGDALPUR											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·7	0·4	110	31	1·2	0·2	012	31	1·0	0·6	100	31	0·1	0·1	161	31	1·7	0·2	254	31	0·9	0·3	163
0·15 a. g.	31	4·8	2·3	113	31	4·1	0·7	315	31	6·0	2·8	085	31	3·7	1·6	198	31	3·9	0·9	314	31	5·9	1·0	107
0·3 a.m.s.l.																								
0·6 „	31	5·5	2·4	114	31	4·4	1·0	303	31	5·9	2·5	083	31	1·5	0·7	194	31	2·9	0·7	298	31	3·7	0·6	134
0·9 „	31	6·3	0·5	071	31	4·4	1·3	287	31	5·9	1·9	079	31	4·7	2·0	193	31	4·2	0·9	310	31	5·9	1·2	087
1·5 „	31	5·9	1·9	267	31	4·5	2·7	291	31	4·9	1·0	307	31	4·1	0·5	265	31	3·4	1·2	320	31	4·1	1·0	015
2·1 „	30	6·8	4·8	275	31	6·1	4·7	280	31	6.3	3·8	265	31	4·3	1·4	325	30	3·0	1·3	311	28	3·9	1·2	331
3·0 „	26	9·7	8·9	285	30	9·2	8·2	274	29	8·9	7·9	267	31	5·5	3·4	305	26	4·2	2·1	320	28	5·1	2·8	313
3·6 „	25	11·3	10·5	279	29	11·4	10·4	275	18	11·6	10·9	267	31	6·9	5·7	312	23	5·2	3·5	311	11	8·3	6·1	281
4·5 „	17	14·6	14·2	274	25	14·5	14·1	274	3	14·8	13·4	267	29	9·1	7·8	283	16	8·5	7·5	74				
5·4 „	9	13·9	13·3	282	19	18·0	17·6	272					25	11·8	10·6	279	13	12·4	11·9	1				
6·0 „	3	11·5	11·5	295	17	20·2	19·7	273					17	11·3	10·1	273	12	14·2	13·8	2·7				
7·2 „					8	21·0	20·3	273					3	14·0	13·7	242	2	19·3	19·1	292				
9·0 „					1	25·5	25·5	265									1	20·5	20·5	280				

Station	JAIPUR/SANGANER												JAMSHEDPUR											
Time in I. S. T.	0530				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·7	040	31	2·6	1·3	279	31	2·1	1·5	044	31	0·9	0·7	280	31	1·9	1·3	295	31	2·7	1·8	319
0·15 a. g.	31	5·9	1·8	066	31	4·1	2·4	273	30	6·0	1·9	028	31	3·0	2·4	285	31	3·0	1·8	303	31	4·3	3·2	324
0·3 a.m.s.l.													31	3·1	2·4	285	31	3.0	1·9	302	31	4·3	3·2	323
0·6 „	31	5·9	1·5	068	31	4·1	2·5	271	30	6·1	1·8	019	31	4·0	2·2	305	31	3·2	1·9	300	31	5·0	4·1	312
0·9 „	31	4·9	0·3	335	31	4·1	2·6	270	30	6·0	1·3	346	31	4·9	3·2	320	31	4·0	2·4	298	31	5·1	4.4	309
1·5 „	31	5·4	3·7	276	31	4·9	3·0	268	30	4·5	2·5	257	31	6·2	4·7	292	31	5·9	4·6	282	31	5·8	4·8	299
2·1 „	31	6·9	5·4	266	31	5·3	3·5	270	30	5·1	4·2	250	31	8·9	7·7	287	29	8·6	7·4	285	28	6·7	5·9	289
3·0 „	27	9·3	8·3	265	30	8·5	7·7	268	30	8·8	8·0	253	28	11·5	10·7	286	13	9·3	8·9	291	25	10·7	10·3	291
3·6 „	17	9·8	9·0	260	30	11·8	11·1	270	19	10·8	10·2	264	19	14·3	13·5	290					22	13·4	12·9	286
4·5 „	4	12·0	11·2	265	26	15·9	15·2	264	3	9·7	9·6	288	10	14·7	14·3	289					16	15·6	14·6	285
5·4 „					20	17·0	16.3	266	2	9·5	9·4	289	3	14·3	14·3	280					9	23·3	23·0	280
6·0 „					16	18·0	17·5	267					1	21·0	21·0	270					4	23·3	23·0	275
7·2 „					9	22·7	22·2	268																
9·0 „					2	28·5	27·6	262																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10 1883—Chaitra 10, 1884 Saka)

Station	JHARSUGUDA												JODHPUR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·0	0·7	029	31	1·5	0·6	307	31	0·9	0·4	012	30	2·1	1·3	022	31	2·1	1·2	149	30	2·3	1·0	237
0·15 . .	31	4·3	3·1	044	31	3·8	1·9	309	31	4·5	1·3	346	29	7·0	3·1	040	31	3·7	1·6	165	28	4·0	1.0	288
0·3 a.m.s.l. .	31	3·6	2·5	044	31	3·6	1·5	306	31	4·3	1·2	011	29	5·5	2·1	031	31	2·9	0·9	143	28	3·7	1·0	259
0.6 „ .	31	4·6	1·7	036	31	4·5	2·6	313	31	4·8	1·7	322	29	6·5	1·5	065	31	3·7	2·4	159	28	3·7	2·0	263
0·9 „ .	31	4·4	1·7	016	31	4·3	2·9	311	31	4·9	2·9	313	29	5·7	2·1	324	31	4·2	1·8	178	28	3·2	2·2	238
1·5 „ .	31	4·8	2·7	254	30	4·9	3·3	301	31	3·3	3·1	289	29	5·2	2·5	256	31	5·0	2·5	253	28	3·9	2·5	236
2·1 „ .	31	6·2	5·5	289	29	5·3	3·7	299	30	5·4	4·5	285	29	5·6	3·6	258	31	6·2	4·0	263	28	4·3	3·2	240
3·0 „ .	28	9·1	8·5	289	28	8·4	6·7	300	21	8·4	6·9	297	29	7·5	5·3	266	31	7·8	5·9	258	28	6·7	5·7	247
3·6 „ .	15	10·8	10·4	301	20	10·7	8·7	295	6	8·5	7·9	303	29	9·3	4·0	269	30	9·2	7·8	258	28	8·9	7·8	251
4·5 „ .	8	9·1	8·4	302	12	12·7	10·7	281					29	11·0	9·4	260	29	12·1	11·1	250	28	11·6	10·9	251
5·4 „ .					4	16·4	15·9	278					28	15·5	13·4	258	24	16·0	15·0	249	28	14·6	13·2	257
6·0 „ .													29	16·2	15·5	260	21	17.0	15.1	248	28	17·0	16·4	254
7·2 „ .													27	22·5	19·8	260	16	20·2	19·2	255	28	21·1	20·0	257
9·0 „ .													21	29·1	27.1	262	8	25·7	24·8	269	19	26·3	25·3	260

Station					LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	1·2	030	31	2·4	1·4	284	31	4·8	3·6	298	31	2·2	1·2	278	30	0·2	0·0	calm	31	3·0	2·5	110
0·15 a.g. . .	31	7·0	2·3	025	30	7·5	5·5	324	31	6·7	5·6	303	31	8·0	5·9	309	30	3·1	1·4	143	31	4·1	3·4	126
0·3 a.m.s.l. .	31	6·5	2·9	025	30	7·5	5·5	323	31	7·0	6·5	300	31	8·0	6·5	305	30	3·1	1·9	142	31	3·7	3·1	134
0·6 „ .	31	6·4	1·6	019	30	8·5	6·1	307	31	7·3	6·1	298	31	8·3	6·1	305	30	4·0	3·0	146	31	3·5	2·5	136
0·9 „ .	31	6·0	1·0	337	30	9·7	7·5	302	31	7·8	6·4	295	31	8·2	6·5	296	30	5·3	4·2	137	31	4·2	2·7	128
1·5 „ .	29	5·5	2·8	249	30	11·7	10·0	294	31	9·0	7·6	291	31	9·1	8·1	296	30	6·7	4·9	103	27	6·9	5·6	092
2·1 „ .	28	5·3	4·2	239	28	12·5	12·2	294	29	10·1	9·7	290	28	10·9	10·0	286	30	7·2	5·5	066	24	9·4	7·9	074
3·0 „ .	24	7·6	5·5	249	15	12·9	11·2	282	28	13·5	13·1	288	20	12·3	11·9	285	30	7·6	6·1	050	24	8·9	8·0	068
3·6 „ .	14	8·2	7·6	257	4	9·9	9·0	270	28	15·0	13·9	272	7	12·8	12·1	270	30	5·9	5·5	045	23	6·8	6·1	072
4·5 „ .	6	11·2	9·8	275	2	15·3	15·3	270	25	18·8	18·3	283					28	5·0	3·6	074	21	5·3	3·8	061
5·4 „ .	3	15·3	13·0	267					15	21·9	21·6	278					29	5·3	2·1	053	20	4·7	1·7	062
6·0 „ .	2	14.7	13·7	235					11	22·8	22·0	273					29	5·9	0·4	081	19	5·1	1·6	110
7·2 „ .									6	19·5	19·4	270					30	7·1	2·8	226	15	6·5	2·8	114
9·0 „ .																	24	11·3	7·0	240	12	11·9	6·1	216

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883 –Chaitra 10, 1884 Saka)

Station	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·6	4·3	109	31	2·5	2·2	116	31	1·3	1·1	082	31	4·7	4·2	250	31	1·3	1·1	344	31	1·3	1·0	347
0·15 a. g.	31	6·6	6·2	110	31	5·2	4·9	125	31	3·2	1·9	053	31	6·4	6·0	280	31	4·6	3·9	323	31	3·5	2·7	350
0·3 a.m.s.l.	31	6·1	5·7	115	31	5·5	5·0	128	31	3·2	1·6	041	31	6·4	5·9	281	31	4·9	4·5	325	31	3·3	2·5	001
0·6 ,,	31	5·0	4·5	125	31	5·1	4·5	125	31	3·1	1·3	020	31	5·4	4·6	297	31	4·7	4·2	325	31	3·5	2·5	011
0·9	31	4·4	3·6	115	31	5·1	4·2	115	31	4·0	2·2	027	31	4·0	3·1	312	31	4·3	3·1	331	31	3·8	2·6	047
1·5	31	6·0	3·8	095	31	5·8	4·5	089	31	4·9	1·9	015	31	3·2	2·4	038	31	3·5	1·7	327	30	6·1	5·4	082
2·1	30	7·7	6·7	070	31	6·7	5·4	064	31	4·8	3·2	084	29	6·6	6·4	082	31	5·4	4·6	086	29	6·7	6·2	084
3·0	30	7·8	6·9	055	30	6·6	5·2	059	31	7·1	6·5	082	28	8·6	8·1	083	29	9·6	9·3	080	26	5·5	4·6	086
3·6	30	6·0	4·8	054	26	5·6	4·6	060	28	6·3	5·3	082	28	5·9	4·6	082	23	7·9	7·3	080	23	6·1	5·0	086
4·5	30	4·7	2·5	050	18	4·3	2·2	061	26	4·5	1·4	107	28	4·6	1·6	076	13	4·7	1·5	063	19	6·5	5·0	092
5·4	30	5·4	2·4	029	9	3·2	1·5	230	26	5·7	0·7	258	25	5·5	1·3	303	4	5·6	5·3	237	17	5·7	3·8	076
6·0 ,,	29	6.1	1.0	002	8	5·1	3·0	234	26	6·7	1·4	269	25	5·9	2·1	277	3	4·5	4·2	264	14	6·5	2·1	075
7·2 ,,	28	7.2	2·0	230	2	11·5	10·5	254	22	8·2	5·6	249	21	9·0	5·7	248					9	5·7	2·3	197
9·0	23	10·4	6·4	235	1	14·0	14·0	245	10	13·1	10·4	240	14	14·1	12·8	246					6	10·3	6·5	173

Station	MINICOY								NAGPUR/SONEGAON															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	0·6	349	31	1·7	1·3	339	31	1·5	1·1	352	31	1·6	0·5	111	31	2·0	0·4	038	31	1·9	0·9	028
0·15 a. g.	31	4·1	3·7	352	31	3·5	2·8	340	31	5·6	3·2	034	31	3·0	0·8	129	31	3·5	1·1	316	31	6·7	3·1	070
0·3 a.m.s.l.	31	3·8	3·4	354	31	3·5	2·6	347																
0·6 ,,	31	4.1	3·5	005	31	3·5	2·3	001	31	5·7	2·9	042	31	3·4	1·7	114	31	3·3	0·3	299	31	6·5	2·8	085
0·9 ,,	30	4·5	3·6	032	31	3·9	2·6	050	31	6·0	2·2	066	30	3·8	2·1	141	31	3·0	0·4	267	31	5·4	2·1	113
1·5 ,,	28	5·3	4·4	061	31	6·6	6·1	075	31	4·6	1·6	178	29	4·4	2·6	208	31	3·0	1·0	218	31	4·1	1·8	202
2·1 ,,	27	6·6	6·1	071	29	8·2	7·7	081	31	5·4	3·2	225	29	5·2	3·3	238	31	3·9	2·3	234	30	5·0	2·9	249
3·0 ,,	23	6·4	5·6	075	26	6·7	5·9	083	31	8·4	6·6	258	29	8·0	6·0	265	31	6·5	5·3	252	29	7·3	6·0	265
3·6 ,,	16	5·7	4·8	079	9	4·6	2·9	069	31	9·9	8·3	268	28	8·8	7·5	273	31	8·6	7·6	263	16	8·4	7·5	274
4·5 ,,	12	6.0	5·6	086	1	9·5	9·5	090	31	13·3	12·2	270	27	11·0	10·2	276	31	11·8	10·8	270	5	7·2	6·7	260
5·4 ,,	10	5.4	3·7	082					31	14·8	10·7	269	26	13·2	12·1	272	31	13·9	13·4	269				
6·0 ,,	7	7·1	5·2	059					31	17·0	16·0	267	26	16.1	14.7	263	31	16·4	15·6	265				
7·2 ,,	3	7·0	4·3	094					31	22·0	20·7	265	20	22·3	21·0	258	31	22·7	21·6	265				
9·0 ,,									31	32·4	30·4	264	4	26·7	25·3	251	31	32·0	30·0	260				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	NEW DELHI/SAFDARJUNG																POONA							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·1	1·3	317	31	3·5	2·4	304	31	2·2	1·6	309	31	2·4	1·4	352	31	0·0	0·0	000	31	1·2	1·0	289
0·15 a. g. .	31	8·6	5·3	321	31	4·6	2·5	308	31	6·5	4·1	315	31	6·9	4·9	360	31	2·9	1·1	321	31	4·4	3·7	281
0·3 a.m.s.l. .	31	3·4	2·3	318	31	4·6	2·6	314	31	2·6	2·1	309	31	6·0	4·2	360								
0·6 „ . .	31	9·6	6·2	320	31	4·6	2·5	302	31	7·7	4·9	313	31	7·0	4·5	354	31	1·6	1·3	230	31	3·3	2·6	287
0·9 „ . .	31	9·6	6·4	322	31	5.9	3·9	292	31	7·3	4·6	318	31	6·3	3·7	331	31	4·2	1·6	358	31	4·3	3·6	276
1·5 „ . .	31	8·9	5·9	305	31	7·8	5·5	287	31	7·8	5·7	307	30	7·1	4·5	288	31	4·8	1·1	010	31	3·6	2·8	260
2·1 „ . .	31	8·8	7·2	282	31	8·7	6·5	285	31	8·5	6·7	299	28	8·7	7·3	277	29	5·3	2·7	219	31	3·5	2·2	232
3·0 „ . .	31	9·5	7·7	274	29	10·1	8·6	277	31	8·8	7·4	275	24	10·0	9·4	273	29	6·3	5·4	194	29	4·4	2·9	228
3·6 „ . .	31	10·0	7·8	275	29	11·3	9·6	270	31	10·6	9·2	267	4	15·0	15·0	271	17	6·6	5·4	222	28	5·4	3·6	241
4·5 „ . .	31	11·0	9·4	266	26	13·3	11·6	265	31	13·4	11·8	265	1	12·0	12·0	290	5	9·8	8·3	270	27	8·4	6·5	254
5·4 „ . .	26	14·5	13·0	261	23	15·2	13·3	272	30	14·2	13·2	267									23	11·7	10·7	257
6·0 „ . .	28	16·1	15·0	260	23	17·6	15·8	271	30	16·2	15·1	268									23	13·9	12·6	259
7·2 „ . .	31	2·5	15·7	259	11	20·6	19·0	259	31	20·1	18·5	266									9	18·4	17·5	267
9·0 „ . .	30	29·3	29·2	264	2	25·7	25·7	244	31	27·4	25·6	265									6	30·3	28·8	259

Station	POONA				PORT BLAIR																RAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·3	0·3	251	31	2·1	1·1	348	31	2·7	2·2	063	31	1·1	0·8	055	31	1·0	0·6	039	31	1·0	0·4	040
0·15 a.g. .	31	4·4	3·7	282	31	3·7	3·1	035	31	4·3	3·4	062	31	4·1	3·6	056	31	3·5	2·7	039	31	5·8	2·5	038
0.3 a.m.s.l. .					31	3·7	2·9	042	31	4·4	3·7	060	31	4·1	3·5	058	31	3·6	3·0	045				
0·6 „ . .	31	2·2	1·8	254	31	4·6	3·7	056	30	4·6	3·7	066	31	3·6	3·1	047	31	3·6	3·0	055	31	6·7	2·2	042
0·9 „ . .	31	5·3	4·3	300	31	4·6	3·6	068	29	4·7	3·6	066	31	3·9	2·8	055	30	4·2	3·6	062	31	5·9	1·2	042
1·5 „ . .	31	5·8	3·6	282	31	6·2	5·4	079	30	4·0	4·0	083	31	5·0	4·2	072	29	4·5	3·6	075	31	4·9	1·6	214
2·1 „ . .	31	4·6	1·7	217	31	6·2	5·4	086	29	5·7	4·5	094	31	5·6	4·7	082	26	4·5	3·7	090	31	6·7	2·9	258
3·0 „ . .	31	5·2	3·9	162	31	5·5	4·6	097	25	5·1	4·3	103	31	4·9	3·9	079	21	4·1	3·4	086	21	7·6	6·1	285
3·6 „ . .	25	6·2	4·5	201	31	4·9	3·8	100	25	4·4	3·5	086	30	4·2	3·1	081	2	8·7	6·8	094	17	8·7	7·1	298
4·5 „ . .	13	7·7	6·8	241	30	5·1	4·4	079	25	4·6	3·7	088	30	4·3	3·7	085	1	3·5	3·5	135	10	9·5	7·4	278
5·4 „ . .	5	9·9	9·6	264	29	5·6	4·3	074	22	5·0	3·1	087	29	5·4	4·0	079					4	10·0	8·8	271
6·0 „ . .	2	8·0	7·7	258	29	5·9	3·8	075	21	4·7	2·5	087	28	6·1	3·9	074					4	14·0	13·7	275
7·2 „ . .					27	6·0	2·8	088	8	4·9	1·0	001	28	6·4	4·2	089								
9·0 „ .					25	7·5	0·7	259	2	8·0	3·9	178	23	7·3	1·5	218								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	RAIPUR								RAXAUL												SILIGURI/ BAGHDOGRA			
Time in I.S.T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	0·5	343	31	1·6	0·4	066	31	0·8	0·1	305	31	1·8	1·0	255	31	1·6	1·4	265	31	1·6	1·3	048
0·15 a. g. .	31	2·8	1·0	331	31	5·4	2·6	040	30	5·0	2·7	288	31	4·2	1·0	220	31	6·2	5·1	279	30	4·0	3·6	067
0·3 a.m.s.l. .									30	5·1	3·2	288	31	4·1	1·2	228	31	6·6	5·6	281	30	4·1	3·9	076
0·6 „ . .	31	2·9	1·0	322	31	5·1	2·5	043	30	6·2	4·9	288	31	5·4	2·3	258	31	7·5	6·5	279	30	5·7	2·2	087
0·9 „ . .	31	2·9	1·1	328	31	3·8	1·5	028	30	6·9	5·9	288	31	6·5	3·8	270	31	8·0	7·1	273	30	5·3	3·8	083
1·5 „ . .	31	3·8	2·2	300	31	3·4	1·1	276	26	8·9	8·7	288	26	6·9	5·6	287	30	8·7	7·8	270	30	4·1	0·7	014
2·1 „ . .	31	5·1	3·4	284	30	5·1	3·7	274	22	9·4	8·9	285	19	7·2	6·5	288	27	9·1	8·4	280	28	5·6	3·4	280
3·0 „ . .	29	7·6	6·1	285	27	7·4	5·7	267	15	10·9	10·8	283	9	10·0	9·9	290	17	11·0	11·0	290	22	10·3	9·6	281
3·6 „ . .	27	8·7	7·7	281	8	6·9	6·2	288	13	13·1	12·9	280					13	13·1	13·0	290	19	12·6	12·5	285
4·5 „ . .	21	11·6	11·0	276	1	12·5	12·5	260	7	13·4	13·4	285					8	12·9	12·8	285	13	14·8	14·5	282
5·4 „ . .	12	16·0	14·6	275	1	14·0	11·0	240	2	10·5	10·5	284					4	16·6	16·5	286	7	15·4	15·2	285
6·0 „ . .	7	17.0	16·6	264					1	3·0	3·0	265					2	8·0	7·4	283	3	11·8	11·7	293
7·2 „ . .	3	23·2	23·0	265					1	6·0	6·0	320												
9·0 „ . .																								

Station	SILIGURI/BAGHDOGRA												TIRUCHCHIRAPPALLI											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·5	1·8	118	31	1·6	0·9	255	31	1·3	0·8	355	31	1·4	0·9	019	31	3·9	3·3	084	31	3·5	3·1	099
0·15 a.g. . .	30	3·7	2·9	120	31	4·0	2·4	252	30	3·6	1·4	037	31	3·5	2·6	051	31	5·4	4·8	084	31	6·3	5·9	102
0·3 a.m.s.l. .	30	3·8	2.9	119	31	4·0	2·4	253	30	3·5	1·4	045	31	3·8	3·0	067	31	5·6	5·1	084	31	6·6	6·1	102
0·6 „ . .	30	3·8	3·1	114	31	4·8	3·4	253	30	4·2	0·5	354	31	4·1	3·3	097	31	5·6	5·3	086	31	7·2	6·6	101
0·9 „ . .	30	4·0	2.8	112	31	5·1	3·9	256	30	4·0	1·9	277	31	4·8	3·4	095	31	5·7	5·3	087	31	6·6	5·7	094
1·5 „ . .	25	3·4	0·5	219	30	5·2	4·5	257	30	5·2	4·2	274	30	5·7	4·6	082	31	5·6	4·7	074	31	6·2	5·3	070
2·1 „ . .	22	4·9	2·7	273	28	5·8	4·8	265	29	6·6	5·9	273	30	7·5	6·5	069	31	7·3	6·3	059	31	7·5	6·7	065
3·0 „ . .	15	9·5	8·4	286	21	8·8	8·5	289	21	8·3	7·8	275	29	8·0	7·1	063	30	7·6	6·9	063	31	7·3	6·4	061
3·6 „ . .					20	12·0	11·2	282	6	12·8	12·7	279	29	7·7	7·3	074	30	6·6	5·3	069	27	5·8	4·9	073
4·5 „ . .					13	18·2	18·0	287	1	19·5	19·5	280	25	5·8	5.1	081	29	6·0	5·4	073	25	6·1	5·2	083
5·4 „ . .					7	19·8	19·6	286					24	5·9	3.7	076	28	6·0	4·7	055	13	4·5	3·3	065
6·0 „ . .					6	19·3	18·4	280					20	5·2	2.7	088	27	5·0	2·5	051	9	4·6	2·3	040
7·2 „ . .					3	14·3	14·3	284					16	5·8	0.9	146	25	6·1	1·8	102	4	5·4	0·5	145
9·0 „ . .					2	19·3	18·9	268					10	7·9	4·1	195	18	8·1	4·2	211				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	TRIVANDRUM																UDAIPUR							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	1·0	010	31	1·1	0·4	312	31	2·0	1·7	248	31	1·0	0·7	351	31	0·3	0·1	345	31	1·2	0·8	235
0·15 a.g. .	31	4·1	3·3	359	31	2·3	1·0	275	31	3·6	3·2	255	31	3·3	2·1	317	31	2·6	0·9	346	31	3·6	1·7	217
0·3 a.m.s.l. .	31	4·0	3·3	357	31	2·3	0·9	271	31	3·6	3·1	256	31	3·4	2·3	309								
0·6 „ . .	31	3·4	1·9	350	31	1·8	0·8	338	31	3·4	2·1	255	31	3·2	2·0	319								
0·9 „ . .	31	2·9	1·5	024	29	2·6	2·0	036	31	3·0	0·6	022	30	3·7	2·5	029	31	3·8	0·6	002	31	3·9	2·2	224
1·5 „ . .	31	5·2	4·5	060	24	6·7	6·3	065	31	6·3	6·1	056	29	7·0	6·4	058	31	6·6	1·5	251	31	4·4	2·3	237
2·1 „ . .	31	6·8	6·3	065	22	8·3	7·7	070	31	7·8	7·4	057	25	8·1	7·6	066	31	6·8	3·5	246	31	4·9	3·2	234
3·0 „ . .	31	6·5	5·7	075	18	6·6	5·6	081	31	7·4	6·5	070	23	7·0	6·3	082	30	8·4	6·7	245	31	8·1	6·5	248
3·6 „ . .	31	6·3	4·9	085	17	6·1	5·1	086	31	6·5	5·4	078	16	6·2	5·4	084	28	10·4	9·3	244	27	11·3	10·0	255
4·5 „ . .	31	7·3	6·5	083	16	7·8	7·1	085	31	6·7	5·7	075	15	6·0	5·4	084	22	12·6	11·4	246	23	15·2	14·2	258
5·4 „ . .	31	7·6	6·3	086	13	8·8	7·9	081	31	7·4	5·9	086	10	5·7	3·4	090	15	12·7	11·9	264	21	19·0	18·0	259
6·0 „ . .	31	7·4	5·7	091	12	8·6	7·4	091	31	8·1	6·0	085	7	4·9	2·5	088	13	14·6	13·9	265	15	19·7	19·1	264
7·2 „ . .	31	6·9	4·1	080	12	8·5	7·0	089	31	7·1	3·9	078									9	17·6	17·3	268
9·0 „ . .	29	7·4	3·7	166	9	6·9	3·4	092	31	8·0	3·6	164									2	28·3	28·3	270

Station	UDAIPUR				VENGURLA												VERAVAL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·7	0·3	275	31	0.3	0·2	005	31	2·8	2·5	275	31	0·8	0·7	345	31	3·9	3·5	346	31	6·2	6·0	270
0·15 a.g. .	31	3·9	0·8	290	31	4·1	2·7	004	31	4·7	4·4	291	31	4·9	4·8	348	31	8·6	8·1	339	31	8·3	7·9	277
0·3 a.m.s.l. .					31	5·1	3·7	360	31	4·8	4·1	288	31	6·3	6·1	345	31	8·8	8·1	339	31	7·7	6·9	279
0·6 „ . .					31	6·0	5·2	355	31	4·5	3·6	287	31	6·0	5·7	338	31	8·1	7·0	335	31	5·6	4·1	291
0·9 „ . .	31	5·0	1·1	282	31	7·0	5·5	349	31	4·3	3·1	290	31	6·0	5·6	324	31	6·5	4·9	335	31	4·7	3·0	304
1·5 „ . .	31	5·8	2·4	258	31	5·3	1·9	323	31	3.5	1·9	302	31	4·8	3·6	302	31	5·4	2·1	305	31	5·3	2·8	330
2·1 „ . .	31	5·1	3·4	245	31	5·3	2·3	143	31	3.9	1·2	111	31	4·5	2·0	143	31	5·7	3·5	246	31	6·4	3·1	275
3·0 „ . .	28	8·1	6·7	250	31	5·4	4·0	135	31	6·0	4·1	114	31	7·4	6·4	120	31	7·1	5·1	232	31	7·9	5·7	249
3·6 „ . .	17	10·0	8·5	255	8	6·3	2·1	214	31	6·1	2·8	128	14	5·9	4·2	114	24	8·2	6·6	231	31	9·7	8·2	246
4·5 „ . .	2	12·5	12·4	282					31	5·6	1·7	243					16	11·2	9·5	236	31	12·8	11·3	252
5·4 „ . .									30	7·6	5·3	254					6	18·2	13·7	246	31	15·7	14·6	257
6·0 „ . .									30	9·3	6·9	256					1	23·0	23·0	280	31	17·3	16·2	256
7·2 „ . .									18	13·2	11·4	254									30	20·6	19·4	260
9·0 „ . .									2	22·0	22·0	269									23	29·8	27·8	256

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

March 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Station	VERAVAL				VIJAYAWADA/GANNAVARAM												VISHAKHAPATNAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·8	3·6	315	31	0·9	0.7	089	31	3·4	3·0	163	31	1·3	1·0	158	31	0·1	0·1	270	31	2·7	1·9	207
0·15 a. g. .	31	8·6	8·3	312	30	4·4	3·5	170	31	4·3	3·9	158	31	7·0	6·5	165	31	4·4	3·6	320	30	2·8	2·1	200
0·3 a. m. s. l. .	31	9·3	8·7	313	30	5·4	4·9	174	31	4·2	3·9	154	31	7·1	6·8	163	31	4·3	3·5	290	30	2·7	2·1	210
0·6 ,, .	31	7·7	6·9	313	29	6·0	5·7	172	31	3·9	3·6	151	31	5·9	5·5	154	31	4·5	2·8	235	30	2·5	1·6	224
0·9 ,, .	31	6·0	4·4	311	29	5·9	5·5	154	31	3·3	2·9	143	31	5·0	4·2	137	31	3·9	2·5	223	30	3·0	1·5	210
1·5 ,, .	31	4·5	1·2	298	29	5·3	3·5	112	31	3·4	1·9	092	31	4·7	3·2	107	31	3·8	1·3	181	30	4·0	0·2	118
2·1 ,, .	31	5·4	2·4	239	29	5·1	3·0	057	31	5·0	3·4	055	31	5·3	3·4	060	31	4·6	1·7	360	29	4·3	1·8	040
3·0 ,, .	31	7·5	5·2	232	28	5·0	2·7	002	31	5·3	3·5	023	31	5·5	3·2	023	31	5·5	3·3	351	31	5·6	3·7	350
3·6 ,, .	28	8·8	7·5	249	28	5·0	2·9	302	30	5·4	2·0	357	30	5·0	2·5	325	31	6·6	4·4	323	30	6·0	4·1	322
4·5 ,, .	20	12·0	10·5	256	27	6·2	3·9	276	29	6·5	4·5	274	28	6·3	4·9	278	31	8·5	7·0	287	25	7·0	4·9	278
5·4 ,, .	11	13·0	11·2	253	26	8·7	6·1	256	29	8·9	7·4	265	20	9·2	7·9	251	31	10·8	9·3	274	23	10·0	8·3	266
6·0 ,, .	6	15·1	13·7	268	25	9·9	8·0	248	29	10·6	8·6	258	15	9·8	8·8	239	31	12·5	10·8	266	23	12·0	10·6	262
7·2 ,, .					23	13·6	11·3	250	26	14·0	12·1	259	4	14·4	12·9	231	30	14·5	12·9	258	18	15·7	13·9	254
9·9 ,, .					14	20·6	18·7	240	25	20·4	19·1	249					29	20·8	19·2	258	14	23·4	21·2	253

Station	VISHAKHAPATNAM							
Time in I.S.T.	1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface .	31	2·3	1·7	249	31	0·5	0·3	220
0·15 a. g. .	31	3·2	1·6	244	31	3·5	3·1	227
0·3 a. m. s. l. .	31	3·7	2·1	227	31	4·3	4·0	228
0·6 ,, .	31	4·7	3·5	204	31	5·1	4·5	224
0·9 ,, .	31	4·1	2·5	184	29	4·2	3·1	222
1·5 ,, .	31	3·7	1·2	035	29	3·7	1·1	165
2·1 ,, .	31	4·6	3·5	005	29	3·8	1·7	023
3·0 ,, .	31	6·8	5·7	341	28	4·6	2·1	350
3·6 ,, .	31	6·6	5·3	342	20	6·3	4·1	305
4·5 ,, .	29	7·9	5·8	295	13	8·1	7·0	283
5·4 ,, .	29	10·4	9·3	269	3	8·8	6·7	246
6·0 ,, .	29	12·1	10·8	263	1	4·5	4·5	230
7·2 ,, .	29	16·0	14·5	260				
9·0 ,, .	23	22·8	21·5	262				

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TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883— Chaitra 10, 1884 Saka)

AHMADABAD

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	19	41·1	39·2	260
12·0	13	47·2	44·2	262
14·1	5	44·2	44·0	258
16·2	2	22·7	22·4	270
18·0	1	22·5	22·5	240
21·0	1	7·0	7·0	140

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	61·0	61·0	265
12·0	1	40·0	40·0	275

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	20	41·6	40·3	259
12.0	12	41·7	39·9	261
14·1	3	43·5	43·3	255
16.2	2	34·0	33·9	270
18·0	1	26·0	26·0	270

ALLAHABAD/BAMHRAULI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	16	44·3	42·5	257
12·0	9	46.7	45·6	250

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	16	38·7	37·8	259
12·0	5	46·7	46·2	244
14.1	1	43·5	43·5	255

ANANTAPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	7	14·6	11·9	259
12·0	1	11.5	11·5	205

1730 hr.

Ht. in Km.	n	V	v	D
10·5	15	19·3	18·0	227
12·0	7	18·3	15·7	252
14·1	3	13·3	11·2	308
16·2	1	8·0	8·0	315

BAHRAICH

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	27·5	27·5	265

1730 hr.

Ht. in Km.	n	V	v	D
10·5	8	39·7	38·2	261
12·0	6	49·7	48·3	256
14·1	1	38·0	38·0	255
16·2	1	24·5	24·5	270

BANGALORE

0530 hr.@

Ht. in Km.	n	V	v	D
10·5	20	16·1	13·5	242
12·0	17	16·5	13·0	245
14·1	16	15·4	13·3	266
16·2	15	10·2	5·0	257
18·0	15	6·3	3·7	290
21·0	8	6·0	3·9	237
24·0	3	5·7	5·1	070

1130 hr.

Ht. in Km.	n	V	v	D
10·5	11	14·1	12·3	237
12·0	7	16·6	13·2	237
14·1	5	11·2	9·1	257
16·2	5	8·1	6·5	238
18·0	3	8·5	2·7	164
21·0	1	2·0	2·0	045

1730 hr.@

Ht. in Km.	n	V	v	D
10·5	19	14·7	11·7	241
12·0	14	16·0	13·0	263
14·1	9	15·4	11·8	274
16·2	7	6·9	4·3	277
18·0	5	5·3	1·9	275
21·0	2	8·5	7·7	285
24·0	1	5·0	5·0	030

BEGAMPET

0530 hr.

Ht. in Km.	n	V	v	D
10·5	5	21·4	20·0	253
12·0	3	21·0	18·3	269
14·1	2	21·5	20·0	286
16·2	2	24·7	22·1	302

1730 hr.

Ht. in Km.	n	V	v	D
10·5	5	24.9	23·8	247
12·0	2	28·0	27·0	235

BHAGALPUR

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	38·5	38·5	265

BHOPAL/BAIRAGARH

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	36·5	36·5	255

BOMBAY/SANTA CRUZ

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	28	32·8	30·7	249
12·0	19	30·1	27·4	255
14·1	9	33·0	31·2	261
16·2	2	26·5	26·4	262

1130 hr.

Ht. in Km.	n	V	v	D
10·5	6	36·6	32·8	236
12·0	2	33·0	32·9	252

1730 hr.

Ht. in Km.	n	V	v	D
10·5	28	35·3	34·0	249
12·0	23	35·6	32·3	254
14·1	12	30·0	27·2	268
16·2	4	23·5	32·2	268
18·0	1	9·0	9·0	335

CALCUTTA/DUM DUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	19	39·2	39·0	263
12·0	8	41·1	40·6	254
14·1	3	23·0	22·0	270

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	61·0	61·0	265
12·0	1	86·0	86·0	280

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	14	38·6	37·8	257
12·0	7	37·0	36·1	254

GADAG

0530 hr.

Ht. in Km.	n	V	v	D
10·5	14	15·0	13·5	242
12·0	5	15·9	15·0	238
14·1	1	14·5	14·5	280
16·2	1	10·0	10·0	310

1730 hrs.

Ht. in Km.	n	V	v	D
10·5	18	22·2	19·1	250
12·0	16	23·4	20·2	264
14·1	12	20·0	16·8	264
16·2	8	13·5	8·8	252
18·0	3	9·8	9·7	273
21·0	1	30·5	30·5	260

GAUHATI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	11	45·5	44·0	266
12·0	6	46·6	46·0	274
14·1	1	36·0	36·0	260
16·2	1	27·5	27·5	265
18·0	1	28·5	28·5	275

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	13	40·9	40·2	274
12·0	8	51·1	49.9	277
14·1	1	64·5	64·5	270

GOPALPUR

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	26·3	25·4	262
12·0	2	30·7	29·0	253

GORAKHPUR

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	28·0	28·0	255

GWALIOR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	27·0	27·0	265

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	32·3	31·2	257

IMPHAL TULIHAL

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	58·5	58·5	260

JODHPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	8	36·0	32·5	262

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	26·8	26·6	259
12·0	1	29·5	29·5	255
14·1	1	30·0	30·0	255
16·2	1	33·0	33·0	270
18·0	1	26·5	26·5	300

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	8	41·7	35·9	244
12·0	4	56·5	50·0	240
14·1	1	49·0	49·0	266

MADRAS/MINAMBAKKAM/

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	19	12·7	8·1	243
12·0	15	15·5	10·1	236
14·1	14	13·5	11·1	257
16·2	5	14·8	10·4	277
18·0	5	12·5	11·4	267
21·0	2	9·0	8·9	273

1130 hr.

Ht. in Km.	n	V	v	D
10·5	9	15·2	11·1	236
12·0	7	15·0	10·8	241
14·1	4	9·3	7·8	218
16·2	4	6·3	5·4	163
18·0	2	8·0	7·7	160
21·0	1	17·0	17·0	170

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	24	14·2	10·4	233
12·0	22	16·0	12·2	240
14·1	17	15·5	14·1	252
16·2	13	13·0	10·6	241
18·0	4	15·4	14·2	245
21·0	2	5·0	5·0	265

MANGALORE/BAJPE

0530 hr.

Ht. in Km.	n	V	v	D
10·5	4	12·7	8·4	258

1730 hr.

Ht. in Km.	n	V	v	D
10·5	5	13·1	12·6	271
12·0	2	9·5	8·7	255
14·1	1	17·5	1·75	245

MINICOY

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	13·9	12·0	193
12·0	2	12·0	10·9	193

NAGPUR/SONEGAON

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	31	38·8	36·8	255
12·0	23	37·9	36·3	250
14·1	19	30·3	29·4	253
16·2	13	21·8	21·2	253
18·0	11	12·9	11·7	259
21·0	6	6·1	2·5	235
24·0	1	5·5	5·5	055

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Ht. in Km.	n	V	v	D
	NAGPUR/SONEGAON			
	1130 hr.			
10·5	1	32·5	32·5	270
	1730 hr.*			
10·5	29	37·4	35·6	254
12·0	26	38·8	36·5	254
14·1	21	30·8	29·3	254
16·2	19	24·5	23·5	259
18·0	13	11·8	11·3	256
21·0	6	5·0	0·3	297
24·0	2	7·5	7·4	107
	NEW DELHI/ SAFDARJUNG			
	0530 hr.*			
10·5	29	38·1	36·4	261
12·0	29	46·7	44·6	260
14·1	27	35·1	34·0	261
16·2	26	19·7	18·7	263
18·0	23	12·7	10·1	250
21·0	15	7·7	1·9	045
24·0	3	7·7	6·8	326
	1130 hr.			
10·5	1	40·0	40·0	235
	1730 hr.*			
10·5	31	36·4	32·4	260
12·0	29	45·2	43·3	260
14·1	29	38·1	37·0	263
16·2	27	22·1	21·4	265
18·0	25	12·8	7·6	272
21·0	7	10·9	3·8	114
	POONA			
	1730 hr.			
10·5	3	27·7	26·7	062
	PORT BLAIR			
	0530 hr.*			
10·5	20	8·5	6·1	198
12·0	16	10·8	6·8	220
14·1	7	11·1	8·1	258
16.2	2	6·5	2·5	302
	1130 hr.			
10·5	1	13·5	13·5	180

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	20	8·3	4·3	207
12·0	16	8·2	5·9	207
14·1	8	10·2	8·5	229
16·2	1	2·0	2·0	352
	SILIGURI/ BAGHDOGRA			
	1730 hr.			
10·5	1	36·5	36·5	270
	TIRUCHIRA-PPALLI			
	0530 hr.			
10·5	8	12·2	4·2	206
12·0	2	5·7	3·7	051
	1730 hr.			
10·5	12	11·8	5·6	224
12·0	8	12·1	8·6	249
14·1	7	10·0	4·6	254
16·2	6	8.2	4·7	223
18·0	4	11·1	0·7	298
	TRIVANDRUM			
	0530 hr.*			
10·5	28	10·5	6·9	164
12·0	25	11·6	7·7	193
14·1	24	10·1	5·8	260
16·2	24	7·7	3·5	202
18·0	15	6·2	2·8	055
21·0	5	9·1	8·3	250
24·0	1	13·5	13·5	245
	1130 hr.			
10.5	8	8.4	5·7	164
12·0	5	8.0	0.8	313
14·1	3	8·7	2·0	127
16.2	2	7·7	3·9	028
18·0	1	6·5	6·5	160
	1730 hr.*			
10·5	29	10·3	6·7	180
12·0	29	10·6	6·1	189
14·1	24	11·2	4·0	195
16·2	22	9·0	2·7	224
18·0	16	10·6	4·4	150
21·0	3	7·7	6·0	359

Ht. in Km.	n	V	v	D
	VERAVAL			
	1730 hr.			
10·5	13	35·5	34·4	261
12·0	6	46·8	42·4	287
	VIJAYWADA/ GANNAVARAM			
	0530 hr.			
10·5	7	21·7	18·3	233
	1730 hr.			
10·5	14	25·1	22·9	251
12·0	8	25·1	24·2	257
14·1	3	18.0	17.8	242
16·2	2	7·5	7·1	225
	VISHAKHAPATNAM			
	0530 hr.*			
10·5	26	27·5	24·3	254
12·0	23	26·6	24·7	245
14·1	21	27·7	25·7	253
16·2	17	18·1	16·3	258
18·0	10	11·5	7·9	264
21·0	4	13·3	10·6	259
24·0	1	5·5	5·5	215
	1130 hr.			
10·5	5	23·0	22·0	241
12·0	4	21·1	20·2	240
14·1	2	9·7	9·7	220
16.2	2	7·3	6·9	108
18.0	1	9·0	9·0	030
	1730 hr.*			
10·5	20	25·7	23·1	252
12·0	19	25·7	23·1	257
14·1	15	22·1	20·5	265
16·2	10	14·1	12·9	254
18·0	5	12·1	12·1	263
21.0	2	19·3	12·1	294
24·0	1	18·0	18·0	305

RADIOSONDE DATA

List of Radiosonde Stations in India

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in th list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 11 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

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

RADIOSONDE DATA

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

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

March, 196 : (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1004 mb.)						ALLAHABAD/BAMHRAULI (999 mb.)						BANGALORE (910 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	955	294·3	299	288	280·7	31	098	290·8	295	289	284·7	31	921	292·3	295	290	237·7
1000	31	090	..	..	..	..	31	094	..	..	..	..	31	109	..	..	..	..
900	31	1008	294·3	298	287	273·0	31	1007	293·6	300	284	275·1	31	1019	292·2	295	287	286·1
850	31	1500	290·8	294	284	269·4	31	1497	290·2	297	283	271·9	31	1511	291·2	295	287	282·2
800	31	2016	286·7	293	277	267·2	31	2011	286·1	293	280	269·5	31	2029	288·9	292	285	277·4
700	31	3126	279·1	287	275	258·8	31	3118	278·5	285	274	262·7	31	3148	281·3	285	278	270·0
600	31	4368	270·2	277	265	..	31	4358	270·1	275	265	..	31	4409	274·8	280	271	254·7
500	31	5788	260·6	268	255	..	30	5773	260·4	266	255	..	31	5859	266·3	270	262	..
400	31	7456	248·2	255	241	..	29	7445	249·2	255	243	..	31	7563	254·5	259	251	..
300	31	9498	234·3	245	225	..	27	9490	234·8	242	230	..	28	9653	240·0	243	235	..
250	28	10720	225·0	233	213	..	24	10738	230·1	234	223	..	28	10908	229·5	234	223	..
200	27	12170	217·5	224	207	..	21	12210	221·9	229	217	..	27	12339	216·9	223	212	..
175	27	13014	213·2	221	201	..	17	13075	216·9	223	211	..	26	13211	211·1	217	206	..
150	26	13930	209·3	219	194	..	11	14056	212·6	219	205	..	26	14175	203·9	212	199	..
125	26	14981	205·2	214	190	..	10	15174	207·3	214	261	..	25	15173	198·6	205	192	..
100	24	16283	201·6	211	190	..	7	16489	204·7	215	198	..	23	16525	193·2	199	189	..
80	19	17657	198·7	208	193	..	5	17742	201·2	204	198	..	22	17837	194·5	201	190	..
70	13	18575	202·4	211	195	..	5	18518	205·4	208	204	..	22	18607	196·2	206	190	..
60	10	19168	207·1	213	201	..	..	..	..	..	..	..	22	19492	199·8	209	193	..
50	9	20586	210·1	219	203	..	..	..	..	..	..	..	21	20509	204·0	211	195	..
40	..	..	..	..	..	..	..	..	..	..	..	..	9	21845	208·3	220	199	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTA CRUZ (1009 m.b.)						CALCUTTA/DUM DUM (1010 mb.)						GAUHATI (1004 mb.)					
Surface	31	013	294·4	298	290	291·5	31	006	293·3	301	287	291·0	31	049	289·4	295	285	285·7
1000	31	087	..	..	..	..	31	090	..	..	..	..	31	090	..	..	..	..
900	31	1008	295·6	299	290	276·3	31	1000	291·5	298	285	281·1	31	992	290·3	297	283	279·5
850	31	1503	292·8	296	288	272·3	31	1488	288·0	294	281	278·4	31	1477	286·7	293	280	276·9
800	31	2022	289·3	293	285	270·8	31	1996	284·0	290	276	276·1	31	1985	282·9	288	278	274·2
700	31	3142	281·0	285	279	266·7	31	3100	276·8	281	273	268·9	31	3080	276·1	281	271	265·8
600	31	4397	272·9	276	268	255·8	31	4338	269·7	274	267	263·4	31	4313	269·3	278	263	..
500	31	5831	263·5	263	259	..	30	5769	261·8	266	256	..	31	5731	261·0	268	254	..
400	31	7519	252·4	257	248	..	30	7441	251·4	258	245	..	31	7404	250·0	257	242	..
300	29	9593	238·9	244	233	..	25	9525	237·5	245	230	..	30	9449	236·2	245	227	..
250	29	10847	230·3	235	224	..	20	10794	230·5	237	223	..	28	10694	229·1	235	223	..
200	27	12321	219·9	227	212	..	11	12210	220·7	228	213	..	25	12153	221·3	228	216	..
175	27	13159	215·0	219	209	..	6	13054	215·5	218	214	..	18	13008	217·7	225	213	..
150	21	14109	209·0	216	203	..	..	..	..	..	..	..	12	13968	214·6	221	209	..
125	13	15236	205·2	208	199	..	..	..	..	..	..	..	9	15117	210·8	216	206	..
100	11	16557	199·7	203	196	..	..	..	..	..	..	..	6	16432	204·7	213	195	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (986 mb.)						MADRAS/Minambakkam (1009 mb.)						NAGPUR/Sonegaon (973 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	218	292·6	296	287	279·5	30	015	297·1	299	295	294·7	31	311	293·1	299	287	285·
1000	29	096	..	..	..	..	30	092	..	..	..	..	31	093	..	..	..	..
900	29	1002	292·5	299	287	275·5	30	1009	294·4	299	291	281·7	31	1009	295·2	302	290	279·
850	29	1491	289·8	298	284	272·8	30	1503	291·8	297	289	275·6	31	1503	292·0	293	289	278·
800	29	1968	285·5	293	273	270·3	30	2005	289·6	294	283	270·3	31	2021	288·4	294	285	275·
700	29	3107	277·6	284	273	263·2	30	3143	282·3	286	279	262·6	31	3136	279·1	284	277	270·7
600	29	4375	268·7	276	265	..	30	4404	275·1	278	270	249·3	31	4385	271·5	277	263	262·
500	29	5753	259·9	266	256	..	30	5853	266·7	269	264	..	31	5814	262·6	268	257	..
400	29	7400	246·7	261	243	..	31	7562	255·5	260	251	..	31	7496	251·4	258	247	..
300	18	9465	234·4	241	224	..	25	9653	239·7	246	237	..	31	9557	237·1	246	229	..
250	8	10740	228·2	237	219	..	22	10917	229·9	234	225	..	31	10797	227·8	234	220	..
200	6	12183	220·5	226	215	..	19	12389	219·3	227	214	..	28	12262	217·5	224	211	..
175	6	13037	216·2	227	212	..	17	13238	213·1	221	208	..	28	13095	212·3	219	205	..
150	6	14002	212·0	216	208	..	16	14192	206·6	216	200	..	28	14050	210·3	215	193	..
125	5	15167	207·8	211	204	..	14	15253	200·4	209	193	..	26	15140	202·5	207	194	..
100	..	..	..	..	..	..	12	16573	196·6	201	191	..	24	16470	199·0	206	191	..
80	..	..		..	..	..	9	17872	197·0	208	189	..	20	17781	197·6	205	193	..
70	..	..	..	..	..	..	8	18641	198·5	213	189	..	19	18564	199·4	207	193	..
60	..	..	..	..	..	..	6	19488	202·3	215	193	..	18	19481	201·8	209	195	..
50	..	..	..	..	..	..	6	20569	205·8	217	195	..	16	20544	206·3	212	201	..
40	..	..	..	..	..	..	..	..	..	..	..	..	7	22024	210·8	218	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI/Safdarjung (987 mb.)						PORT BLAIR (1001 mb.)						TRIVANDRUM (1002 mb.)					
Surface	31	209	289·2	293	284	285·0	30	079	296·2	301	293	295·3	31	064	298·1	301	295	294·6
1000	31	095	..	..	..	..	30	091	..	..	..	..	31	082	..	..	..	..
900	31	1000	292·2	297	283	275·6	30	1005	294·2	297	291	286·1	31	1003	293·2	296	290	281·9
850	31	1489	288·9	294	281	272·1	30	1501	291·4	294	287	283·5	31	1494	290·4	295	285	280·5
800	31	2001	285·3	290	277	269·5	30	2019	288·4	292	283	281·1	31	2010	287·6	290	285	274·5
700	31	3102	276·5	281	270	262·7	30	3139	282·2	287	278	272·6	31	3127	281·6	284	279	264·5
600	31	4333	267·8	274	262	..	30	4404	275·9	281	272	263·8	31	4387	275·1	280	269	257·8
500	31	5738	258·5	264	254	..	30	5857	268·2	273	264	..	31	5837	266·5	274	260	..
400	31	7393	246·8	252	241	..	30	7577	257·0	261	253	..	31	7547	255·6	263	244	..
300	31	9413	232·5	241	227	..	30	9686	242·1	249	233	..	30	9661	241·1	249	237	..
250	28	10633	225·2	231	219	..	30	10955	232·5	239	221	..	28	10923	231·6	236	227	..
200	25	12095	220·9	227	215	..	30	12439	220·9	231	213	..	28	12350	220·3	227	212	..
175	20	12977	218·5	223	213	..	26	13306	213·4	220	201	..	27	13241	214·4	221	209	..
150	19	13962	215·5	221	208	..	21	14277	208·6	221	195	..	26	14187	207·6	216	201	..
125	15	15075	210·7	216	205	..	17	15402	203·0	209	197	..	26	15284	202·0	209	195	..
100	12	16438	206·2	212	202	..	12	16646	196·8	201	193	..	25	16609	195·2	203	185	..
80	7	17841	206·0	211	201	..	6	17896	195·1	201	190	..	17	17906	194·4	202	188	..
70	5	18670	205·6	211	200	..	6	18687	195·6	203	186	..	13	18698	194.5	205	186	..
60	..	..	..	..	..	..	5	19597	196·6	207	192	..	13	19581	197·5	208	191	..
50	..	..	..	..	..	..	5	20629	201·4	214	195	..	10	20642	201·3	212	196	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

March 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (1006 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	31	041	297·3	300	295	293·2
1000	31	094	..	..	..	..
900	31	1017	295·4	300	291	279·2
850	31	1512	292·9	297	289	275·5
800	31	2030	289·0	295	281	273·2
700	31	3151	281·8	287	277	265·8
600	31	4412	274·5	281	267	257·9
500	31	5857	265·8	273	260	..
400	31	7564	255·2	263	248	..
300	30	9659	240·8	250	235	..
250	27	10920	231·7	243	225	..
200	24	12399	221·0	233	214	..
175	22	13240	214·9	225	210	..
150	22	14212	208·5	218	201	..
125	20	15285	203·7	213	195	..
100	20	16625	199·2	205	192	..
80	19	17705	199·1	212	191	..
70	14	18676	199·9	216	191	..
60	12	19583	200·7	221	191	..
50	10	20640	203·0	225	191	..
40						
30						
20						
10						

RADIOSONDE DATA

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

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

March, 1962 (Phalguna 10, 1883— Chaitra 10, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1005mb.)						ALLAHABAD/BAMHARAULI (998 mb.)						BANGALORE (908 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	307·2	310	304	282·8	31	098	304·2	311	294	284·2	30	921	303·5	306	302	283·5
1000	31	078	..	..	..	..	31	078	..	..	..	..	30	051	..	..	..	..
900	31	1014	297·1	301	291	276·0	31	1009	296·4	303	287	276·5	30	996	302·5	304	299	281·6
850	30	1510	292·5	297	286	273·4	31	1504	291·9	299	283	272·7	30	1500	297·2	300	294	278·3
800	30	2023	288·0	292	281	269·5	31	2020	287·6	294	279	270·1	30	2025	292·2	294	289	276·6
700	30	3141	279·6	286	270	264·2	31	3130	279·3	287	274	261·2	30	3150	281·7	285	278	272·8
600	30	4338	270·9	277	266	254·4	31	4374	270·6	278	264	..	30	4408	274·7	279	272	258·4
500	30	5813	261·4	269	256	..	31	5797	261·7	269	256	..	30	5856	266·2	270	261	..
400	30	7483	248·7	257	244	..	30	7472	250·2	259	244	..	29	7561	255·4	261	251	..
300	30	9526	234·4	244	228	..	28	9520	236·0	247	231	..	28	9652	240·8	245	237	..
250	29	10756	226·0	236	218	..	25	10760	229·0	237	222	..	26	10908	230·5	237	226	..
200	28	12210	217·9	231	213	..	21	12245	221·8	228	215	..	24	12376	217·6	225	211	..
175	27	13053	213·7	223	206	..	19	13106	217·3	223	211	..	20	13199	211·1	215	207	..
150	26	14011	209·5	222	202	..	15	14066	213·3	218	207	..	19	14146	204·7	208	199	..
125	24	15119	204·9	215	196	..	14	15206	208·9	213	203	..	17	15210	200·1	203	195	..
100	21	16450	201·2	213	191	..	8	16534	205·5	209	198	..	15	16522	195·2	201	190	..
80	21	17761	201·8	210	191	..	5	17959	204·8	209	201	..	12	17819	196·0	201	192	..
70	12	18584	201·9	212	191	..	5	18768	207·2	214	203	..	11	18599	198·5	207	192	..
60	9	19441	203·3	215	191	..	..	..	..	..	..	..	11	19498	202·4	213	195	..
50	7	20459	204·9	215	193	..	..	..	..	..	..	..	9	20564	205·3	220	198	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ (1007 mb.)						CALCUTTA/DUM DUM (1007 mb.)						GAUHATI (1001 mb.)					
Surface	31	013	302·8	306	301	291·1	31	006	304·2	308	297	292·4	31	049	301·2	306	295	286·4
1000	31	076	..	..	..	..	31	071	..	..	..	..	31	061	..	..	..	..
900	31	1005	298·1	304	292	278·3	31	1006	297·7	303	289	283·4	31	989	295·8	303	289	279·5
850	31	1503	294·7	300	299	273·7	31	1503	293·3	298	286	279·9	31	1481	291·8	298	285	277·2
800	31	2025	291·1	295	287	271·4	31	2022	288·8	293	282	276·8	31	1998	287·2	294	281	275·6
700	31	3150	282·7	286	279	264·6	31	3139	280·4	289	275	269·7	31	3106	278·4	284	273	268·2
600	31	4410	274·1	279	271	253·9	31	4392	273·0	280	267	261·4	31	4348	271·0	277	265	255·2
500	31	5852	265·2	270	259	..	31	5831	264·5	271	258	..	30	5777	263·0	272	257	..
400	31	7542	254·1	258	249	..	29	7531	254·0	259	247	..	30	7460	251·5	261	246	..
300	29	9639	240·1	246	231	..	25	9612	239·4	247	232	..	24	9512	236·3	245	231	..
250	27	10896	231·5	236	228	..	14	10877	232·0	239	226	..	21	10751	228·4	236	222	..
200	23	12375	221·6	227	214	..	9	12399	223·1	229	219	..	19	12231	221·2	226	213	..
175	21	13232	216·6	222	210	..	..	..	..	..	..	..	9	13089	217·1	221	210	..
150	18	14213	210·9	217	206	..	..	..	..	..	..	..	6	14099	214·2	217	211	..
125	14	15364	205·6	211	201	..	..	..	..	..	..	..	..	..	..	..	..	..
100	12	16701	199·8	207	194	..	..	..	..	..	..	..	..	..	..	..	..	..
80	9	17990	199·4	204	195	..	..	..	..	..	..	..	..	..	..	..	..	..
70	8	18781	200·5	207	197	..	..	..	..	..	..	..	..	..	..	..	..	..
60	5	19778	204·0	210	201	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (984 mb.)						MADRAS/MINAMBAKKAM (1008 mb.)						NAGPUR/SONEGAON (973 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	218	304·3	309	298	281·0	30	015	302·3	305	301	295·0	31	311	305·0	310	297	283·4
1000	29	075	..	..	..	..	30	083	..	..	..	..	31	064	..	..	..	..
900	29	1005	297·3	304	291	275·5	30	1009	296·5	299	293	278·0	31	1005	299·9	308	295	278·5
850	29	1501	292·9	299	287	272·3	30	1503	293·7	297	291	274·3	31	1506	295·5	302	291	275·6
800	29	2016	288·2	296	282	270·3	30	2027	290·8	293	286	270·6	31	2029	290.9	296	285	274·3
700	29	3132	279·3	285	274	264·4	30	3154	283·9	288	281	261·9	31	3152	281·3	285	278	270·4
600	29	4372	269·8	276	265	..	30	4423	276·7	283	273	254·6	31	4403	272·0	276	267	259·2
500	29	5791	260·7	268	253	..	30	5880	267·7	273	263	..	31	5835	263·2	268	258	..
400	28	7457	249·1	257	243	..	30	7594	256·5	261	252	..	31	7522	252·0	255	248	..
300	16	9537	235·7	245	228	..	26	9692	242·2	255	235	..	31	9591	238·2	243	231	..
250	9	10807	230·2	238	223	..	25	10950	230·3	237	225	..	29	10840	228·6	235	219	..
200	7	12314	224·3	230	219	..	22	12131	219·3	226	212	..	28	12300	218·7	227	212	..
175	..	..	..	..	..	..	21	13284	214·2	219	206	..	27	13140	214·3	222	207	..
150	..	..	..	..	..	..	20	14233	207·6	214	198	..	27	14102	208·2	217	201	..
125	..	..	..	..	..	..	19	15305	201·3	208	195	..	27	15147	203·0	210	192	..
100	..	..	..	..	..	..	18	16627	197·0	203	193	..	25	16517	198·6	204	192	..
80	..	..	..	..	..	..	8	17873	195·9	201	190	..	19	17862	198·2	206	193	..
70	..	..	..	..	..	..	6	18575	199·0	203	195	..	17	18639	199·0	206	193	..
60	..	..	..	..	..	..	5	19418	199·0	203	193	..	15	19547	200·6	209	195	..
50	..	..	..	..	..	..	..	..	..	..	..	..	14	20614	203·0	215	196	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (986 mb.)						PORT BLAIR (1000 mb.)						TRIVANDRUM (1001 mb.)					
Surface	31	209	300·7	307	293	285·7	31	079	301·3	303	299	295·6	31	064	302·7	304	300	295·9
1000	31	083	..	..	..	..	31	079	..	..	..	..	31	069	..	..	..	..
900	31	1006	294·5	302	287	277·8	31	1002	294·6	299	291	290·0	31	1000	294·4	297	292	287·9
850	31	1497	290·5	297	283	273·6	31	1495	291·7	297	286	286·1	31	1494	291·8	295	288	285·4
800	31	2010	286·4	293	281	270·6	31	2014	288·7	293	284	283·0	31	2013	288·7	291	285	280·5
700	31	3115	277·6	282	272	264·8	31	3135	283·0	286	279	275·0	31	3136	283·4	287	280	266 0
600	31	4352	269·0	275	264	..	31	4401	276·2	281	272	267·2	31	4403	276·1	280	272	261·2
500	31	5766	259·8	265	254	..	30	5858	268·4	274	264	..	31	5860	267·6	277	263	..
400	31	7427	247·6	253	241	..	28	7586	258·2	263	254	..	31	7578	257·5	265	251	..
300	31	9454	233·6	240	227	..	25	9700	242·6	251	235	..	30	9688	242·1	250	227	..
250	29	10481	226·6	233	219	..	25	10972	232·1	241	226	..	29	10960	233·2	240	217	..
200	25	12147	221·8	227	215	..	25	12456	220·9	231	213	..	29	12450	222·2	229	216	..
175	23	13017	219·7	224	213	..	18	13322	214·7	225	207	..	25	13313	216·2	223	211	..
150	21	13996	216·6	221	213	..	15	14247	207·7	219	198	..	25	14291	209·8	219	205	..
125	16	15134	211·9	216	208	..	13	15345	201·6	211	194	..	24	15365	203·6	213	193	..
100	11	16496	208·2	216	202	..	11	16636	194·8	200	189	..	23	16719	197·9	206	191	..
80	8	17845	207·7	211	201	..	7	17935	194·6	196	191	..	18	17991	196·6	212	192	..
70	8	18644	209·3	216	202	..	5	18678	198·7	200	198	..	16	18788	195·6	203	191	..
60	7	19583	210·4	212	207	..	5	19556	202·7	205	200	..	13	19677	197·9	204	193	..
50	6	20705	212·8	215	209	..	..	..	..	..	..	..	11	20761	201·0	207	193	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 12 hr. GMT.

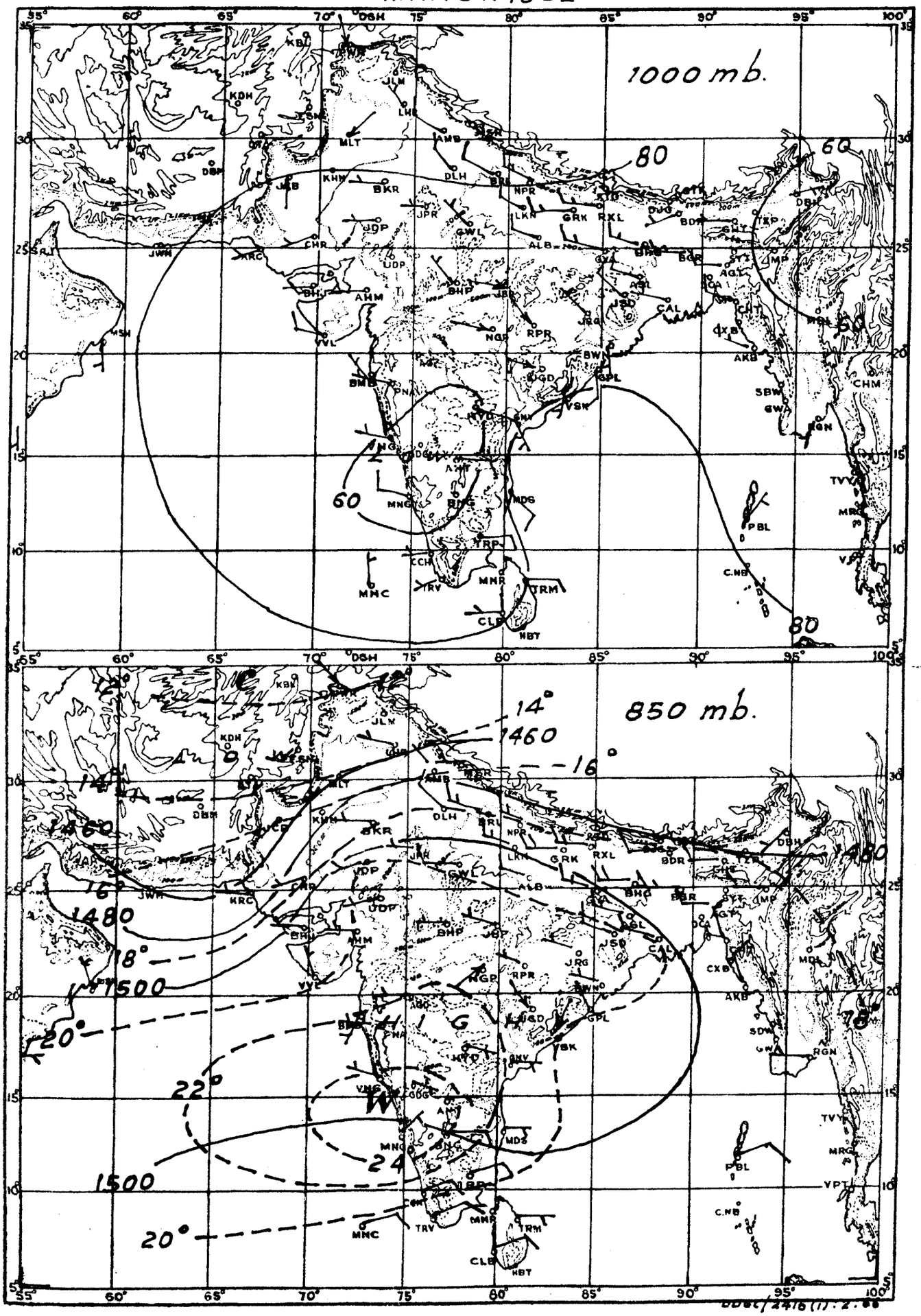
March, 1962 (Phalguna 10, 1883—Chaitra 10, 1884 Saka)

Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (1005 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	301.6	304	300	295.2
1300	31	082	..	..	..	..
900	31	1010	296.6	302	293	279.1
850	31	1506	293.4	298	289	276.9
800	31	2026	289.7	293	285	274.3
700	31	3145	281.1	287	276	268.7
600	30	4400	273.5	279	268	261.6
500	29	5843	265.1	270	260	..
400	29	7542	253.6	259	249	..
300	24	9626	239.3	246	233	..
250	21	10878	229.2	239	225	..
200	20	12341	218.0	225	207	..
175	18	13167	212.0	218	199	..
150	17	14142	206.8	210	199	..
125	13	15201	201.1	207	194	..
100	11	16504	195.8	204	189	..
80	10	17767	197.6	204	191	..
70	7	18594	198.1	203	193	..
60	7	19501	201.3	208	197	..
50	7	20565	206.3	212	200	
40						
30						
20						
10						

GIPN—S1—611 D.D.G. Obs. P./65—22-7-66—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. — *MARCH 1962* — *Plate I*



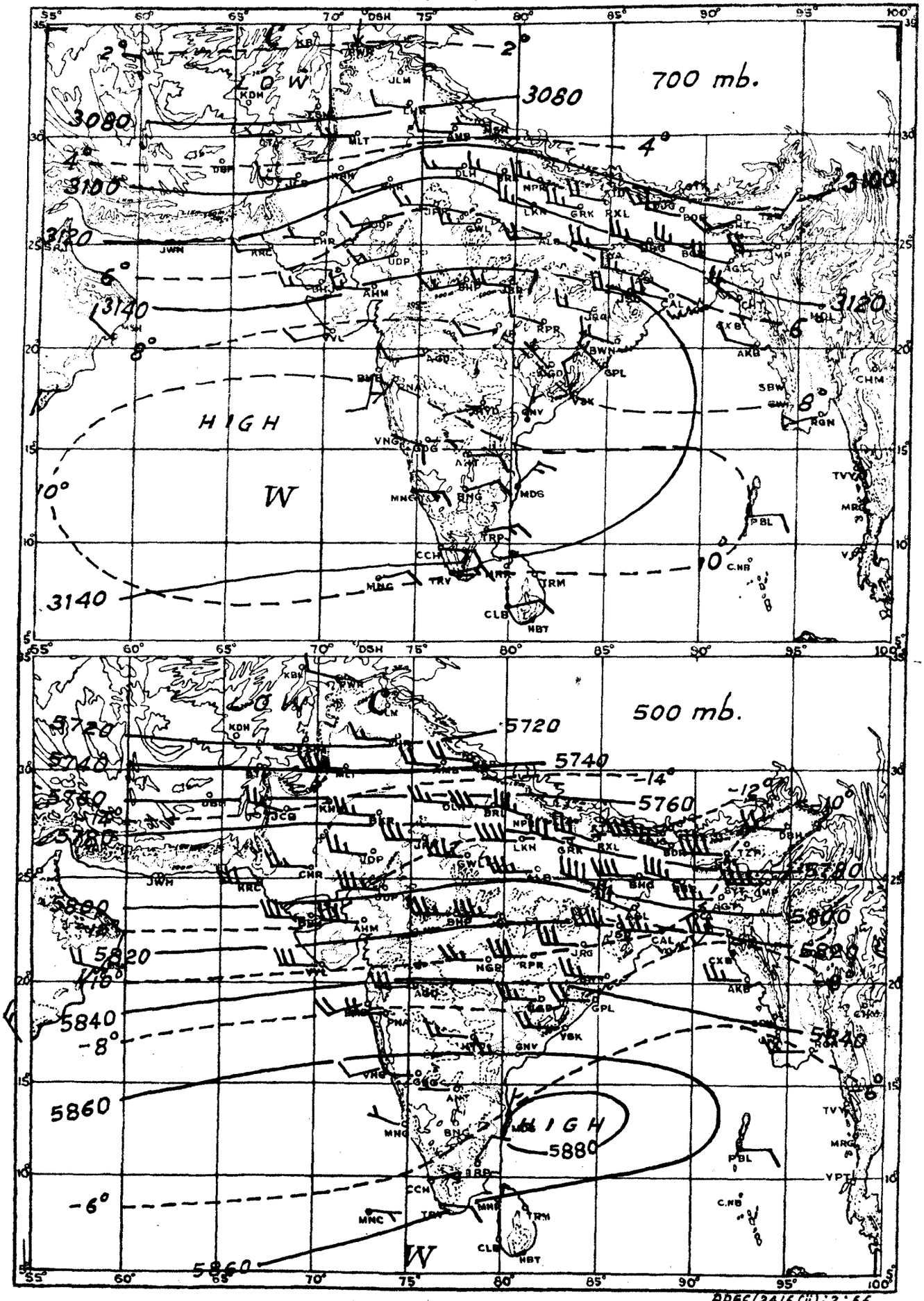
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

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

G.P.Z.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **MARCH 1962** Plate II



DDGC/24/6(ii):2:66

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

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

G.P.O. POONA, 1965

Registered No. MH-75

INDIA WEATHER REVIEW, 1962

Monthly Weather Report

APRIL

Published by authority of the Government of India

Chief features :—

(i) Good seasonal thunderstorm activity;

(ii) Movement of five western disturbances; and

(iii) A spell of abnormally low day temperatures in the north Peninsula and Central parts of the country.

Five western disturbances moved across the country and affected the weather over north India. Of these the second disturbance was quite active. It appeared over Baluchistan on 3rd and moving slowly eastwards was over the Punjab(I) on 7th and persisted there till 9th. It finally moved away eastwards across the Western Himalayas by 12th. Under its influence thundershowers occurred at a number of places in northwest India between 6th and 11th. Banihal recorded 5 cm of rain on 8th. The remaining four western disturbances were feeble and caused scattered showers in northwest India. However, the upper air troughs associated with these disturbances (except the first one) extended far into the south, upto about Lat. 15°N and considerably influenced the weather over the central parts of the country and the north Peninsula. The details of the movement and activity of the various western disturbances are given in the accompanying statement.

Statement showing the movement and activity of western disturbances during the month of April 1962

S. No.	Period	Course	Area affected	Nature of precipitation	Period	Remarks
1	30th March-2nd April.	Northern divisions of West Pakistan-Punjab(I)—Jammu and Kashmir.	Punjab(I)	Scattered very light showers.	1st	Western disturbance as upper air trough
			Jammu and Kashmir	Scattered showers	1st	
2	3rd-12th	Baluchistan—West Rajathan and adjoining Pakistan—Punjab(I)—Western Himalayas	Jammu and Kashmir	Fairly widespread/local rain or snow	6th-10th	Slow eastward movement practically stationary over Punjabs from 7th to 9th. Banihal 5 cm of rain on 8th.
			Himachal Pradesh	Do	7th,9th10th.	
			Punjab(I) and west Uttar Pradesh	Scattered rain	6th 11th.	
3	12th-21st	Baluchistan—Rajasthan—Hills of west Uttar Pradesh—Bihar Plains—Sub-Himalayan West Bengal—Assam	Rajasthan	Scattered showers	15th	
			East Rajasthan	Do	17th	
			Punjab(I)	Do	17th	
			Jammu and Kashmir	Do	16th,17th.	
			West Uttar Pradesh	Do	17th,18th.	
4	19th-21st	Extreme north of the country	Jammu and Kashmir	Scattered light or very light showers	20th	Feeble.
			Western Himalayas	Do	21st	
5	25th-29th	Punjabs and north Rajasthan—Hills of west Uttar Pradesh	Jammu and Kashmir	Scattered showers	25th-27th	
			Himachal Pradesh	Fairly widespread showers	26th	
			Punjab(I)	Scattered showers	26th, 27th	
			West Uttar Pradesh	Do	27th-30th.	
			West Rajsathan	Do	28th.	

A well marked trough in the low level easterlies developed over the extreme south Peninsula on 2nd. Moving westwards, it lay over south central Arabian Sea on 6th and became unimportant later. Under its influence, fairly widespread or local thundershowers occurred in the south Madras State, Kerala and the Arabian Sea Islands. Palayamcottai reported 11 cm and Kanyakumari 6 cm of rain on 4th. The thundershower activity over these parts continued till the middle of the month as a result of a persistent cyclonic circulation in the low levels over the Peninsula. Trivandrum recorded 10 cm of rain on 10th.

In association with a well marked high level trough in the westerlies, a spell of severe thunderstorm activity occurred in the central parts of the country and the Peninsula from 12th to 18th. The activity was particularly severe in Vidarbha, Marathwada and Telangana on one or

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two days. Some of the important amounts of rainfall were : Nanded 7 cm and Raichur 6 cm on 13th, Adiramapattinam 7 cm on 14th and Gadag 7 cm on 17th. There was practically no rain from 21st to 24th. Later with the development of a feeble upper air trough there was a weak revival of the thunderstorm activity over the Peninsula towards the end of the month.

The seasonal thunderstorm activity over northeast India was moderate but it became sever towards the end of the month. A low level cyclonic circulation persisted over Assam and Sub-Himalayan West Bengal between 7th and 11th. In association with one of the western disturbances moving eastwards, a high level trough extending from northeast India to the Bay of Bengal was present from 18th to 23rd. An upper air low was well marked and fairly persistent over Bihar an neighbourhood between 25th and 29th. These three systems caused spells of thundershowers in Bihar State and east Uttar Pradesh and well distributed thundershowers in the rest of northeast India. Some of the heavy rainfall amounts were : Haflong 7 cm on 2nd Silchar 7 cm on 6th and 8 cm on 7th, Pasighat 8 cm on 7th and Cherrapunji 8 cm on 30th. According to press reports, hailstones of the size of apples fell during a heavy thundershower in Chabua area near Dibrugarh on the night of 2nd. Hail showers were also reported from several villages of Lakhimpur district on 16th.

Day temperatures were appreciably to markedly below normal in central parts of the country and the north Peninsula during the period 10th to 20th. The temperatures were as much as 9°C below normal at some stations in Telangana on a few days. They were above normal in northwest India during the third week being appreciably to markedly so on a few days. The day temperatures in Assam were also appreciably to marked by above normal during the first week and in upper Assam during the third week.

The total rainfall during the month was in moderate excess in Bihar Plains and coastal Andhra Pradesh, in slight excess in Jammu and Kashmir, and normal in Bihar Plateau, Saurashtra and Kutch and Madhya Maharashtra. It was in slight defect in the Madras State and Kerala, in moderate defect in the Bay Islands, Assam, Sub-Himalayan West Bengal, and east Uttar Pradesh and in large defect in west Uttar Pradesh, the Punjab(I), the Konkan and coastal Mysore. It was in large excess over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in the Bay Islands, Assam and West Rajasthan and below normal in Telangana and Rayalaseema. It was normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in Assam, West Uttar Pradesh, the Punjab(I) and west Rajasthan and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in east Uttar Pradesh, Madhya Pradesh, Saurashtra and Kutch, Vidarbha, Telangana and the Interior Mysore State, and below normal in the Bay Islands. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in the Bay Islands, Sub-Himalyan West Bengal, Bihar State, east Madhya Pradesh, Telangana, the Madras State, Interior Mysore State and the Arabian Sea Islands and below normal in Uttar Pardesh, Rajasthan and Gujarat Region. It was normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,
Dated the 16th February, 1963.

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

Errata to M.W.R. for April 1962 (Chaitra 11 - Vaisakha 10, 1884 Saka)

Page No.	Station	Hour	Column	For	Read
	Table I - Division				
175	7. Jammu and Kashmir		5	-8.2	8.3
	Table - II				
176	Asansol		11	40.4	40.3
176	Santiniketan		1	Santinketan	Santiniketan
176	Krishnanagar		11	40.3	40.4
177	Ranchi Aerodrome		10	24.0	24.0(m)
177	Jamshedpur		10	9.4(m)	9.4
178	(Heading)		14	Da	Date
178	Mahajan		20(a)	0	..
178	Mahajan		21	0	..
178	Munabao		20(a)	1	0
178	Tonk		2	38.3	38.8
179	Baroda		10	3.2	2.6
179	Kandla Aerodrome		1	Kandla	Kandla Aerodrome
180	Porbander		11	(Blank)	0
180	(Foot note)		-	(Not clear)	(c)Mean of 28 days
181	Kanniyakumari		6	27.4	25.4
181	Bijapur		24	2	0
181	Shimoga		9	189	18,19
182	Bangalore		19	+ .8	+0.8
182	Alleppey		7	0.5	-0.5
182	Joshimath		21	..	0
182	Cherrapunji		28	(Blank)	0
	Table III				
184	(Heading)	-	16	(Not printed)	62 or more
184	Dibrugarh (Mohanbari)	0830	18	2	28
184	Digboi	1730	3	152	..
184	Majbat	1730	3	77	..
184	Rangia	0830	2	‡ 0830	0830
184	Rangia	0830	13	1.8	1.8(c)
184	Rangia	0830	15	4.3	4.3(c)
184	Rangia	1730	2	1730	‡ 1730
184	Chaparmuk	1730	18	(Not clear)	30
184	Gauhati	1730	10	(Not clear)	20.8
184	Gauhati	1730	11	0	50
185	Gauhati (Bhorjor)	0230	22	(Blank)	1
185	Gauhati (Bhorjor)	0830	5	1012.3	1003.3
185	Gauhati (Bhorjor)	0830	20	0	10
185	Lumding	0830	12	-0	0
185	Imphal (Tulihal)	1130	24	1	11
185	Imphal (Tulihal)	1730	24	11	1
189	Azamgarh	0830	5	908.6	998.6
189	Banda	0830	4	1018.2	1008.2
189	Allahabad(Bamhrauli)	0830	4	1017.8	1007.8
189	Agra (Aerodrome)	2330	27	1	13
190	Chandigarh	1730	14	-1.7	..
190	Patiala	0830	21	3	2
193	Bhopal (Bairagarh)	1130	7	34.5	34.4
193	Sidhi	0830	3	,,	..
193	Sidhi	1730	3	,,	..

Contd.2

Page No.	Station	Hour	Column	For	Read
	Table III (contd.)				
193	Jabalpur	2330	11	3	43
194	Raipur	2330	11	30	39
194	Ahmedabad	0830	5	1003.9	1003.3
195	Bhuj (Rudramata)	0830	6	-0.2	+0.2
195	Bhaunagar Aerodrome	1730	16	(Blank)	0
195	Bombay (Santacruz)	0230	3	15	14
197	Amraoti	0830	14	-0.8	-0.1
197	Kalingapatam	0830	12	+6	+8
198	Vellore	1730	28	0	1
199	Madurai	1730	13	4.8	5.8
200	Bidar	1730	16	..	0
200	Belgaum (Samra)	1730	10	18.8	18.9
200	Mysore	0830	6	+0.3	++0.4
200	Cochin (Naval Air Station)	0830	10	29.3	29.5
201	Punalur	0830	16	(Blank)	0
201	Kohima	1630	2	1730	1630
203	Timure	1730	10	11.2 ( )	11.2 (e)
203	Pokhara	0830	10	(Not clear)	14.9

Page No.	Station	Time in IST	Height in K.M.	Entry under column	Existing entry	Correct entry
	Table IV					
207	Asansol	0530	Surface	n	-	30
208	Bangalore	0530	0.15	D	23	237
210	Calcutta	1130	7.2	D	242	249
211	Dehra Dun	0530	-	Time	030	0530
212	Gauhati	1730	5.4	D	721	271
220	Vizakhapatnam	0530	4.5	D	35	320
220	Vizakhapatnam	1130	3.0	D	350	359
	Table V					
221	Ahmedabad	1130	16.2	D	27	237
221	Bangalore	0530	14.1	D	25	250
221	Bhagalpur	1730	12.0	D	25	275
221	Bikaner	0530	-	Time	0530 hrs.*	0530 hrs.
221	Gorakhpur	0530	-	Station	Rakhpur	Gorakhpur
221	Gorakhpur	1730	12.0	D	3025	302
221	Nagpur	0530	10.5	D	26	264
	Table VI - Radiosonde Data.					
225	Jodhpur	850 Mb.		Ht.in gpm	480	1480
225	Nagpur	600 Mb.		D. point	262.2	262.9
226	Trivandrum	175 Mb.		Ht.in gpm	1387	13287

Contd.3

Errata to M.W.R. for May 1962 (Vaisakha 11 - Jyaistha 10, 1884 Saka)

Page No.	Station	Hour	Column	For	Read
	Table II				
234	Asansol		22	0	1
234	Calcutta (Dum Dum)		12	42.6	-42.6
234	Midnapur		2	3.5	37.5
234	(Foot note)		-	(c)Mean of 29 days.	(c)Mean of 28 days.
234	(Foot note)		-	(b)Total for 25 days.	(f)Total for 25 days.
235	Gopalpur		17	33.0	23.0
235	Gopalpur		19	+0.4	-0.4
235	Dumka		5	22	23
235	Fatehpur		9	22	12
236	Jammu Aerodrome		13	94	9.4
237	Jodhpur		7	-1.3	+1.3
237	Jodhpur		12	9.6	-9.6
237	Pilani		6	46.6	24.6
237	Jaipur (Sanganer)		11	8.0	8.2
237	Shivpuri		22	1	0
237	Sagar		22	1	0
237	Rajpur (Jhabua)		1	Raipur(Jhabua)	Rajpur (Jhabua)
237	Jabalpur		12	+4.6	-6.4
237	Kanker		15	(Blank)	3
237	Idar		10	.2	3.2
237	Idar		23	1	0
237	(Foot note)		-	(k)Mean of 30 days.	(k)Mean of 20 days.
237	(Foot note)		-	(Not given)	(j)Mean of 21 days.
238	Bhutakia Bhimasar		1	Bhutakia Bhimasa	Bhutakia Bhimasar †
238	Poona		12	+9.6	+59.6
238	Aurangabad		3	+0.5	-0.5
238	(Foot note)		-	Data not reliable	† Data not reliable.
239	Nandyal		1	Nandyal	Nandyal (R)
239	Cuddalore		18	(Not clear)	10.2
239	Salem		19	(Not clear)	+2.1
239	Tondi		17	1.1	19.1
240	Chitradurga		7	-0.5	+0.5
241	Ramgarh		26	(Blank)	0
241	Thikri		13	4	1.4
241	Jomosom		12	(Blank)	..
241	(Foot note)		-	Data not available	*Data not available
	Table III				
242	Tezpur	1730	28	(Blank)	2
242	Golaghat	1730	7	25.0	27.0
242	Rangia	0830	5	1001.1	..
242	Rangia	1730	5	996.8	..
243	Berhampore	0830	8	25.6	25.9
245	Forbesganj	0830	1	Forbe ganj	Forbesganj
246	Gaya	2330	5	998.0	988.0

Contd.4

Page Col.	Station	Hour	Column	For	Read
	Table III contd.				
246	Lucknow	0830	14	-1.0	-0.1
247	Fatehpur	1730	10	15.1	15.0
247	Varanasi (Babatpur)	0530	5	992.2	982.2
247	Orai	0830	2	1830	0830
248	Adampur (Aerodrome)	0530	3	23	238
248	Ambala (P.B.O)	0530	5	969.9	969.4
248	New Delhi (Safdarjung)	0830	14	0.5	+0.5
249	Bilaspur	0830	2	0860	0830
249	Leh	0830	8	-3.0	3.0
249	Leh	1730	8	-5.7	5.7
249	Srinagar (Aerodrome)	0830	10	10.2	10.7
249	Jammu	0830	12	-2	-1
249	Ganganagar	0830	6	+0.1	+0.5
249	Bikaner	2330	14	0.0	..
249	Jodhpur	0830	4	1003.	1003.6
250	Munabao	1730	15	4.8(d)	14.8(d)
250	Jaipur (Sanganer)	0830	14	..	0
250	Jaipur (Sanganer)	1730	14	0	..
250	Ajmer	0830	14	+.	+0.9
250	Srinpura (Jawai Dam)	1730	13	1.	1.9
250	Chambal (Rawat Bhatta Dam)	0830	13	0	0.8
251	Guna	0830	17	(Blank)	3
	Seoni	1730	3	11	,,
252	Baroda	2330	10	14.1	24.1
252	Surat	2330	28	(Blank)	0
253	Bhuj (Rudramata)	1130	23	(Blank)	0
253	Jamnagar (Aerodrome)	0530	8	14.8	24.8
253	Porbandar Aerodrome	1130	7	32.2	32.0
253	Bombay (Santacruz)	0230	3	15	14
253	Bombay (Santacruz)	0830	6	-2.8	-2.0
253	Bombay (Santacruz)	0830	7	24.9	29.9
253	Bombay (Santacruz)	2330	3	11	,,
255	Bombay	0830	3	,,	11
255	Akola Aerodrome	2330	5	978.3	968.3
255	Kalingapatam	0830	5	1005.6	1005.0
255	Kakinada	0830	7	31.8	31.7
258	Mangalore	0830	5	1005.8	1005.4
258	Gadag	0830	12	(Blank)	0
259	Mukteswar (Kumaun)	1730	21	0	1
	Nainital	0830	6	+03	+0.3
259	Shillong	1730	11	83	82
260	Thikri	0830	8	13.7	28.7
261	Pokhara	0830	8	19.7	19.1
261	Butwal	0830	2	T1830	T 0830
261	Gangtok	1130	7	19.8	19.3
261	Gangtok	1730	28	(Blank)	0

Page No.	Station	Time in IST	Height in Km.	Entry under column	Existing entry	Correct entry
	Table IV					
265	Anantapur	2330	0.15	V	7.1	7.2
266	Bangalore	0530		Time	0530*	0530
266	Bangalore	1730		Time	1730*	1730
272	Jagdalpur	2330	3.6	D	0.4	004
274	Mangalore	0530	5.4	v	(not clear)	2.0
276	Raxaul	0530		Time	0530*	0530
276	Raxaul	1730		Time	1730*	1730
276	Tiruchchirappalli	1730	0.15	D	192	292
276	-do-	1730	5.4	V	5.	5.6
276	-do-	1730	7.2	v	.3	1.3

Page No.	Station	Time in IST	Height in Km.	Entry under Column	Existing entry	Correct entry
	Table V					
279	Ahmedabad	0530	14.1	V	20.0	21.0
	Table VI - Radiosonde data					
283	Nagpur		700 mb.	mean	158.1	198.1
283	Port Blair		600 mb.	Dew Point	273.3	272.3

Errata to M.W.R. for June 1962 (Jyaistha 11 - Asadha 9, 1884 Saka)

Page No.	Station	Hour	Column	For	Read
	Table I - Division				
291	1. Assam (including Manipur, Tripura)		8	+6.8	6.8
291	8. Rajasthan		6	2	-2
	Table I Sub-division				
29[illegible]	4. Gangetic West Bengal		2	43.9	-16.9
	Table II				
292	Car Nicobar		11	224.3	224.1
292	Goalpara		14	(Blank)	9
292	Gauhati		15		16
292	Gauhati (Bhorjor)		14	(Blank)	27
292	Lumding		11	300.0	300.8
293	Sambalpur		3	-3.2	-0.2
293	Darbhanga		12	57.9	-57.9
293	Lucknow		12	+5.8	-5.8
294	Sultanpur		5	8.9	8.9
294	Meerut		5	4.7	4.7
294	Bareilly		5	8.9	8.9
294	Jhansi		19	46	-4.6
294	Hissar		10	32	3.2
295	Srinagar (Aerodrome)		14	(Blank)	13
295	Ajmer		20(a)	(Blank)	0
295	Tonk		20(a)	(Blank)	0
295	Bhilwara		20(a)	(Blank)	0
296	Baroda		11	7.4	7.4(b)
296	Broach		11	43.2(b)	43.2
296	Naliya		24	0	1
296	Dwarka		24	1	0
297	Ahmadnagar		18	-11.3	11.3
298	Nandyal		1	Nandyal	Nandyal(R)
298	Anantpur		1	Anantpur(R)	Anantpur
298	Salem		17	9.	9.4
298	Belgaum (Samra)		1	Belgaum(Samra)	Belgaum(Samra) (R)
299	Mussoorie		22	(Blank)	0
299	Kodaikanal		29	(Blank)	0

Contd.6

Page No.	Station	Hour	Column	For	Read
	Table III		1		
302	Gauhati (Bhorjor)	0230		Gauhati(Bhorjo	Gauhati (Bhorjo
303	Asansol	0530	23	(Blank)	1
303	Asansol	0830	7	31.1	30.1
303	Asansol	0830	23	(Blank)	2
303	Asansol	1730	22	(Balnk)	5
303	Santiniketan	0830	5	992.9	993.5
303	Santiniketan	0830	22	(Blank)	1
303	Santiniketan	1130	5	997.9	992.9
303	Santiniketan	1130	22	(Blank)	4
303	Santiniketan	1730	22	(Blank)	6
303	Bankura	1730	28	(Blank)	0
303	Barrackpore(Aerodrome)	0530	8	26.	26.1
303	Midnapore	0830	25	(Not clear)	4
303	Midnapore	0830	26	(Not clear)	0
304	Keonjhargarh	1730	15	6.8	5.8
304	Sambalpur	1730	8	24.4	25.4
304	Titlagarh	1730	26	7	4
304	Bhubaneshwar	0230	25	2	5
304	Bhubaneshwar	0830	23	7	4
307	Bareilly	2330	28	10	0
307	Agra (Aerodrome)	0530	28	1	0
309	Mahajan	0830	11	(Blank)	52
310	Kota (Aerodrome)	2330	4	991.1	999.1
310	Gwalior	1730	8	34.0	24.0
313	Vengurla	1730	8	24.5	25.8
314	Kolhapur	0830	24	0	6
315	Akola	0830	16	1	0
315	Akola	1730	23	(Blank)	0
315	Kalingapatam	0830	23	(Blank)	1
316	Tiruppattur	0830	9	20.6	20.7
317	Atirampattinam	1730	22	0	1
318	Calicut	1130	25,26	1,11	11,9
319	Darjeeling	0830	3	2126	2128
319	Kohima	0830	3	140.6	1406
319	Shillong	1730	18	6	3
320	Tilaiya	1730	9	24.0	21.0
320	Bokaro	1730	9	21.7	24.7
321	Gangtok	1730	4	1409.4	1407.4

Page No.	Station	Time in IST	Height in km.	Entry under column	Existing entry	Correct entry
	Table IV					
326	Begampet	1730	2.1	n	0	30
329	Cochin	-	-	Station	Cochin/Willington	Cochin/Willington
331	Gorakhpur	1730	Surface	D	948	048
331	Imphal	1730	0.15	D	189	198
331	Imphal	2330	0.15	v	0.6	0.5
331	Imphal	2330	0.9	v	0.'5	0.4
333	Jodhpur	2330	Surface	v	3.0	3.5
333	Jodhpur	2330	2.1	V	3.2	5.2
	Table V					
340	Port Blair	1730	10.5	V	12.6	12.5
340	Trivandrum	1130	10.5	D	10.5	105
	Table VI - Radiosonde Data					
343	Calcutta		125 mb.	Min	189	198
344	Madras		200 mb.	No.ofObs.	10	19
344	Madras		175 mb.	Max	233	223
344	Nagpur		70 mb.	Ht.gpm	18745	18746
344	New Delhi		125 mb.	-do-	1590	15590
345	Visakhapatam		1000 mb.	No.of Obs.	80	30
346	Calcutta		80 mb.	Mean	178.8	198.8
346	Gauhati		950 mb.	Dew Point	270.5	290.5
347	New Delhi		1000 mb.	Ht. gpm	051	-051

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %. 0830 hrs. IST.	Relative humidity %. 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	130.7	73	32.3	20.9	70	61	3.4	3.9
	—48.0		+1.9	+1.4	—3		—0.6	
2. West Bengal	62.9	127	35.7	23.5	61	50	2.6	3.5
	+13.2		—0.2	0	—1		—0.1	
3. Orissa	42.7	169	35.4	24.3	65	56	2.8	4.8
	+17.5		—1.0	—0.1	0		+0.3	
4. Bihar	18.7	125	36.7	22.6	48	35	2.3	3.1
	+3.7		—0.7	+0.4	+5		+0.6	
5. Uttar Pradesh	2.8	39	37.6	21.8	43	26	1.6	1.8
	—4.3		+0.1	+1.1	+6		—0.6	
6. Punjab (India) (Including Himachal Pradesh Delhi.)*	2.2	20	36.0	20.1	44	25	1.8	2.6
	—8.8		+0.7	+1.2	+4		0	
7. Jammu and Kashmir.	51.3	117	21.6	—8.3	54	49	4.5	5.3
	+7.5		+0.1	—0.6	—4		+0.4	
Sub-Division								
1. Bay Islands	36.0	66	32.8	24.5	67	75	4.5	5.5
	—23.9		+1.1	+0.8	—6		+0.8	
2. Assam (Including Manipur, Tripura).	130.7	73	32.3	20.9	70	61	3.4	3.9
	—48.0		+1.9	+1.4	—3		—0.6	
3. Sub-Himalayan, West Bengal.	49.5	61	33.8	20.9	57	44	3.5	3.1
	—32.2		0	+0.4	—2		+1.1	
4. Gangetic, West Bengal.	67.8	178	36.3	24.3	63	52	2.4	3.7
	+29.8		—0.3	—0.1	—1		—0.4	
5. Orissa	42.7	169	35.4	24.3	65	56	2.8	4.8
	+17.5		—1.0	—0.1	0		+0.3	
6. Bihar Plateau	21.4	109	36.6	22.7	47	33	2.2	3.5
	+1.7		—1.0	+0.2	+5		+0.5	
7. Bihar Plains	17.1	140	36.8	22.5	49	37	2.3	2.6
	+4.9		—0.4	+0.5	+4		+0.7	
8. Uttar Pradesh, East.	4.2	71	37.8	22.0	44	27	2.0	1.6
	—1.7		—0.4	+0.7	+8		—0.9	
9. Uttar Pradesh, West.	1.0	11	37.3	21.5	41	23	1.1	2.0
	—7.9		+0.8	+1.6	+5		—0.3	
10. Punjab (India) (Including Delhi).	2.2	20	36.0	20.1	44	25	1.8	2.6
	—8.8		+0.7	+1.2	+4		0	
11. Himachal Pradesh.	29.6		30.8	14.2	60	30	2.6	3.7
	..		..	..	..		..	
12. Jammu and Kashmir.	51.3	117	21.6	8.3	54	49	4.5	5.3
	+7.5		+0.1	—0.6	—4		+0.4	
13. Rajasthan, West	9.0	243	38.5	22.0	36	15	0.7	1.6
	+5.3		+1.2	+1.2	+3		—0.8	
14. Rajasthan, East	7.5	163	37.9	22.0	30	17	0.9	2.2
	+2.9		+0.6	+0.1	0		—0.3	
15. Madhya Pradesh West.	9.1	163	38.0	21.7	38	21	1.3	2.6
	+3.5		—0.1	—0.1	+8		—0.2	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %. 0830 hrs. IST.	Relative humidity %. 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	8.2	191	38.1	22.0	33	16	0.8	1.9
	+3.9		+0.9	+0.5	+1		—0.5	
9. Madhya Pradesh	16.7	161	37.8	22.0	41	23	1.7	2.9
	+6.3		—0.2	0	+7		+0.1	
10. Gujarat State.	1.5	100	36.7	23.2	69	44	1.1	1.2
	0		—0.2	+0.4	+7		—0.2	
11. Maharashtra State	18.7	165	36.8	23.5	52	33	2.2	2.9
	+7.4		—0.3	—0.2	+3		+0.2	
12. Andhra Pradesh	41.9	231	37.6	25.3	65	46	3.4	3.3
	+23.8		—0.9	—0.3	+3		+0.5	
13. Madras State	34.1	82	34.9	25.3	72	59	4.1	4.5
	—7.6		—0.4	—0.1	—1		+0.9	
14. Mysore	81.3	272	34.7	22.6	70	46	3.5	5.1
	+51.4		—0.8	—0.3	+5		+1.0	
15. Kerala	108.2	87	32.6	25.1	77	72	4.1	5.2
	—15.5		+0.3	—0.5	0		—0.1	
Sub-Division—*contd.*								
16. Madhya Pradesh (East).	26.4	159	37.6	22.3	44	25	2.2	3.3
	+8.9		—0.4	+0.2	+7		+0.4	
17. Gujarat Region	4.2	210	39.0	23.5	56	23	0.9	1.2
	+2.2		—0.3	+0.5	+3		—0.3	
18. Saurashtra and Kutch.	0	0	35.2	23.0	76	55	1.2	1.2
	—1.2		—0.2	+0.3	+10		—0.1	
19. Konkan	0.7	15	31.4	24.4	73	68	2.9	1.8
	—3.9		—0.1	—0.1	0		+0.3	
20. Madhya Maharashtra	15.3	96	38.8	22.3	49	24	1.8	3.5
	—0.6		0	+0.2	+3		+0.2	
21. Marathwada	38.6	471	38.8	23.1	34	17	1.7	4.0
	+30.4		—0.3	—0.5	—2		+0.1	
22. Vidarbha	36.0	279	38.8	24.2	43	22	2.1	2.3
	+23.1		—0.9	—0.6	+6		+0.1	
23. Coastal Andhra Pradesh	25.7	140	35.9	25.5	71	62	3.6	3.4
	+7.3		—0.3	—0.1	+1		0	
24. Telangana	81.5	422	37.8	24.5	62	31	3.9	3.1
	+62.2		—1.6	—0.5	+7		+1.4	
25. Rayalaseema	27.1	170	38.5	25.7	56	32	2.2	3.4
	+11.2		—1.1	—0.6	+3		+0.1	
26. Madras State	34.1	82	34.9	25.3	72	59	4.1	4.5
	—7.6		—0.4	—0.1	—1		+0.9	
27. Coastal Mysore	3.8	16	32.3	25.7	74	68	4.0	4.3
	—20.4		—0.1	+0.2	0		+0.3	
28. Interior Mysore, North.	101.6	363	36.9	23.0	61	36	2.9	4.7
	+73.6		—1.0	—0.4	+7		+1.2	
29. Interior Mysore, South.	97.1	286	33.9	21.0	75	45	3.9	6.0
	+63.1		—1.0	—0.5	+6		+1.2	
30. Kerala	108.2	87	32.6	25.1	77	72	4.1	5.2
	—15.5		+0.3	—0.5	0		—0.1	
31. Arabian Sea Islands.	81.5	186	32.1	25.9	75	71	4.8	5.0
	+37.7		+0.1	—0.6	+3		+1.4	

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29		
Bay Islands																															
Maya Bandar	32·8	..	33·9	6,17	24·3	..	22·9	7	14.2	8·2	..	7.2	22	1	..	10·0	6·3	..	0	2	0	0	4	0	0	0	0	0	0		
Long Island	32·3	..	33·3	29	24·3	..	21·8	3	35.2	63·8	..	37·0	23	4	..	5·3	2·8	..	0	4	0	0	8	0	0	0	0	0	0		
Port Blair	32·8	+1·1	33·9	19	24·5	+0·8	23·4	8,17	31.6	36·0	—23.9	28·6	20	2	—3·1	7.4	5.7	—3.8	0	6	0	0	13	0	0	0	0	0	0		
Car Nicobar	32·0	..	32·6	13	23·0	..	21·6	3	2·7	60·4	..	26·6	19	3	..	7.2	3.3	..	0	5	0	0	10	0	0	0	0	0	0		
Nancowry	33·4	..	34·7	8	25.6	..	23·4	10	34·0	62·6	..	19·4	10	5	..	0·8	0·4	..	0	7	0	0	10	0	0	0	0	0	0		
Kondul	30·6	..	31·9	8	24·9	..	23·2	10	99.8	122·0	..	42·4	10	5	..	..	..	..	1	7	0	0	16	0	0	0	0	0	0		
Assam (Including Manipur, Tripura)																															
Pasighat	29·3	..	34.4	26	19·9	..	15·3	8	43·3	250·3	..	74·8	7	9	..	7.3	10·9	..	0	12	0	0	1	0	0	0	0	0	0		
Dibrugarh (Mohanbari)	30·0	+3.1	34.7	27	19·1	+0·8	15·7	8	10·6	79·6	—161·5	21·5	18	7	—6.6	7·7	5·4	+0·1	0	13	0	0	15	0	0	0	0	2	0		
Dibrugarh (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Digboi (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
North Lakhimpur	30·3	+1.5	35·1	26	19·7	+0·3	15.7	5	13·6	106·0	—39·8	24·6	18	7	—3.4	8·4	5·5	..	0	12	0	1	5	0	0	0	0	0	0		
Sibsagar	30·6	+3·0	36·2	27	20·0	+1·1	17·4	8	38·6	110·4	—146·7	31·8	20	9	—5·1	..	5·1	+0·8	1	13	0	0	0	0	0	0	0	0	0		
Gohpur	32.1	..	36.6	26	17.6	..	13.8	5	0	147.6	..	63.5	7,8	3	..	3·0	3.0	..	0	3	0	0	0	0	0	0	0	0	0		
Majbat	..	..	..	..	..	..	..	..	90·4	122·6	..	95·3	30	6	..	1·3	6·6	..	0	6	0	0	1	0	0	0	0	0	0		
Jorhat (Aerodrome)	31·1	..	35·7	26	20.2	..	16·9	9	59·6	171·8	..	58·2	8	10	..	..	..	..	0	11	0	0	11	0	0	0	0	1	0		
Tangla	32·9	..	37·0	26	19·7	..	15·1	5	11.7	29·1	..	11·7	30	4	..	2·7	1.6	..	0	5	0	0	0	0	0	0	0	0	0		
Tezpur	32.6	+3·1	36·7	26	21 5	+1·6	18·0	8	11·8	66·2	—86·5	18·2	7	3	—2·7	1·2	8·1	+1·3	0	9	0	0	7	0	0	0	0	0	0		
Golaghat*	32.0	..	..	..	20·7	..	..	..	3.8	95·6	..	..	..	..	..	..	..	..	0	9	0	0	0	0	0	0	0	0	0		
Rangia	34·0	..	37·8	26	20.0	..	16·1	5	0	45·3	..	25·0	8	3	..	..	(c) 3·4	..	0	3	0	0	0	0	0	0	0	0	0		
Chaparmukh	35·5	..	39·4	17	21·6	..	17·2	5	45·4	91·3	..	26·8	9	7	..	..	..	..	0	7	0	0	0	0	0	0	0	0	0		
Goalpara	34·7	..	38·7	26	21·0	..	16·3	4,5	1·2	66·6	..	25·8	9	4	..	7·9	5.9	..	0	6	0	0	0	0	0	0	0	0	0		
Gauhati	34·2	+3.3	38.3	26	22·4	+2.5	18·6	6	31·3	60·4	—84.6	25·0	6	5	—0.5	0	0	—3·2	0	11	0	1	0	0	3	0	0	0	0		
Gauhati (Bhorjor)	33·4	+2·5	39·0	1	20·9	+1.8	16·4	5	25·6	123·0	—74·2	32·4	7	7	—0·3	10.2	7·4	..	0	13	0	4	15	0	0	0	0	2	0		
Dhubri (Rupsi)	35.1	..	39·4	15	21·7	..	17.3	5	43.6	57·8	..	43·2	20	2	..	11.5	7·5	..	2	2	0	1	3	0	0	0	0	1	0		
Dhubri	35·0	+3.8	40.3	15	23·2	+2·0	20·0	5	0	3·0	—134·7	3·0	10	1	—7·1	9·3	7·3	—2·8	0	1	0	0	1	0	0	0	0	0	0		
Lumding	35·3	+3·2	38·8	25	23·6	+4.5	17·3	20	40.0	54·3	—37·4	18·6	30	6	—1·2	7·0	4·1	..	0	8	0	0	0	0	0	0	0	0	0		
Tura	32·4	..	35·9	1	20·2	..	16·1	20	40·9	103.7	..	16.9	27	8	..	9·0	5·4	..	2	7	0	0	0	0	0	0	0	0	0		
Haflong	28.5	..	32·2	26	18·4	.	14·3	7	38·0	231·2	..	67·2	2	15	.	..	..	..	0	16	0	0	11	0	0	0	0	0	0		
Silchar (Kumbhirgram)	31·8	..	36·7	1	20·1	..	15·1	5	73.8	412·4	..	127·8	7	17	..	8·7	3·0	..	0	19	0	0	0	0	0	0	0	3	0		
Silchar	30.3	—0·8	35·4	1	21·2	+0.8	17·1	7	41.6	393.6	+8·3	78·0	7	16	+1·7	3·7	2.9	—0·6	0	17	0	0	17	0	0	0	0	0	0		
Imphal (Tulihal)	28·7	—0.7	33.3	26	16.4	+0.9	13·3	7,20	85.5	161·7	+70·4	39.7	7	12	+4·0	10·0	6·6	—2·4	0	16	0	4	17	2	0	0	0	0	0		
Kailashahar	33.7	..	37.9	1	21.3	..	18·6	20	84.5	244·4	..	53.2	27	10	..	5·7	3·2	..	0	13	0	4	20	0	0	0	0	2	0		
Agartala	34.5	—0·6	39·7	1	21·5	—1·4	14·5	24	61.7	279·6	+158·3	119·8	28	8	+2·1	14·3	11.3	+0·4	0	12	0	1	14	0	0	0	0	3	0		
Sub-Himalayan West Bengal																															
Baghdogra	33·8	+0.6	37·2	16	19·0	—0.6	12·0	4	14 8	43 4	—16·6	22·0	29	3	—0.8	9·1	12·3	+3·3	0	3	0	0	5	1	0	0	0	0	0		
Jalpaiguri	31·2	—0.7	35·4	17	20·7	+0·6	13·9	4	14.9	50·5	—43·2	43·5	30	2	—3·5	10·4	7.2	+3·3	0	2	0	0	3	0	0	0	0	0	0		
Cooch Behar	34.0	..	37·7	17	20·3	..	14·6	4	13 2	73·9	—69·6	45·0	29	4	—3.3	9·2	6·1	..	0	6	0	2	6	0	0	0	0	2	0		
Balurghat	37·9	..	40.6	14	21·6	..	17·8	5	33.2	38.3	..	33.2	30	2	..	9·4	6·4	..	2	2	0	0	3	0	0	0	0	0	0		
Malda	36·5	+0·1	40·6	2	22·9	+1·1	19·4	4	0·6	30.0	0	15·2	29	2	0	10·7	7·8	—0·2	0	3	0	0	5	0	0	0	0	1	0		
Gangetic West Bengal																															
Berhampore	37·7	+0·5	41·2	2	21·6	—1·7	16·7	20	4·6	27·5	—10·1	14 0	11	3	+0·3	6·0	4.3	—1.3	0	4	0	0	0	0	0	0	0	0	0		
Suri	37.6	..	40·9	2	23·7	..	19·4	29	..	31.3	..	27·6	29	1	..	..	9·5	..	2	3	0	0	0	0	0	0	0	0	0		
Asansol	37·2	—1·6	40·9	9,10,11	24·0	+0.6	19·3	19	12.9	40 4	+19·2	19.0	27	4	+2·2	12·2	8·8	+0.9	0	5	0	0	7	0	0	0	0	1	0		
Santiniketan	37.6	..	41·1	7	23.2	..	19·5	19	4.7	16.3	..	7.6	25	3	..	9·9	9·5	..	0	4	0	0	9	0	0	0	0	0	0		
Krishnanagar	37·8	+0·6	41.7	2,8,18	24·0	+0.6	18·9	19	36·2	40.3	—17·5	25·0	30	3	—0·7	5·8	4·8	—3·4	0	6	0	0	3	0	0	0	0	0	0		
Purulia	37·4	—1·6	40.7	2	24·1	—0,6	19·4	19	47·4	76·2	+52·8	52.2	25	3	+0.5	8·3	6.1	+0.7	0	4	0	0	4	0	0	0	0	0	0		
Bankura	..	..	..	..	..	..	..	..	..	126·8	+95·1	64·8	25	5	+2·3	..	..	..	1	5	0	0	5	0	0	0	0	0	0		
Burdwan	37·9	+0·3	40·6	1	24·6	+0·7	20·1	19	7.2	25·8	—23.5	15·6	29	4	+0·8	11·4	7·7	+2·9	0	5	0	0	0	0	0	0	0	0	0		
Barrackpore (Aerodrome)	36·0	..	40·1	1	23·8	..	18·2	19	32·9	50 2	..	26·9	21	4	..	..	..	..	0	9	0	0	10	2	0	0	0	2	0		
Calcutta (Dum Dum)	35·9	0	40·3	16	23·9	—0.4	19·1	19	92·6	124·3	+80·2	80·4	21	5	+2.2	10·7	9·2	—4·0	1	6	0	0	9	0	0	0	0	1	0		
Calcutta (Alipore)	36.3	+0·3	40·6	18	25·0	+0.8	21·0	21	13·1	43·4	—1·1	18·2	21	4	+1·0	11·5	8·6	+0·7	1	6	0	0	10	0	0	0	0	7	0		
Midnapore	38·0	—0·3	42·2	2	24.6	0	20·3	26	11 5	79·7	+36·5	34·0	26	4	+0·9	11·3	7·7	+1·7	0	9	0	0	5	0	0	0	0	0	0		
Contai	33·7	—0·1	38·4	15	24·9	—0.8	19·8	21	7·6	89.7	+64.0	37·3	21	5	+3.1	19.9	15.1	—1.2	0	7	0	0	0	0	0	0	0	0	0		
Sagar Island	31·1	—1·0	32·8	17	25·8	—0·5	12·9	3	3.8	71.2	+41·5	45·0	30	3	+0·9	27·1	27·6	+5·6	1	7	0	0	12	0	0	0	0	6	0		
Sandheads	30·5	..	32·6	19	26.6	..	23.1	30	0	13·0	—1·7	12·0	30	1	—0·1	..	..	..	0	2	0	0	2	0	0	0	0	0	0		
Orissa																															
Baripada	37·9	..	43·4	2	24·2	..	19·3	26	82·0	140·2	..	57·4	26	7	..	5·5	4·2	..	0	9	0	0	18	0	0	0	0	0	0		
Jharsuguda	38·2	—1·9	41·6	2	24·1	—0·1	20.0	19	15.9	27·7	+17·9	10·4	6	3	+1·8	10·2	7·9	+0·1	1	6	0	0	12	0	0	0	0	4	0		
Keonjhargarh	36·0	..	39·1	2	22·6	..	17·1	29	10·6	66·7	..	22·0	28	6	..	10·4	7·5	..	0	9	0	0	5	0	0	0	0	0	0		

(R) Register not received. *Observations 24 days. (c) Mean of 28 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Orissa—*Contd.*																													
Balasore	36.4	+0·3	40·6	2	24·7	+0·3	20·1	30	(c) 0·8	78·6	+34·1	28·6	30	5	+1·5	(c) 15·2	(c) 11·8	+3·1	0	7	0	0	13	0	0	0	0	0	0
Sambalpur	40.1	+0·7	42·4	29	24·3	+0·5	21·4	16	0	4·6	—10·4	4·6	6	1	—0·6	7·0	4·9	+0·2	0	1	0	0	5	4	0	0	0	0	0
Angul	38.5	—0·4	40·6	2	24·7	+0·6	20·5	26	12·4	31·0	+4·8	9·6	13	4	+1·8	11·0	9·5	+1·9	0	6	0	0	5	0	0	0	0	0	0
Cuttack	37·8	—0·6	41·2	17	25·0	—0·3	22·4	30	11·2	68·3	+41·6	30·6	26	6	+4·3	11·7	9·3	+3·5	0	6	0	0	7	0	0	0	0	0	0
Chandbali	36·6	—0.4	40·6	6	23·9	—0·9	20·6	19	0	62·9	+25·4	38.0	26	4	+1·1	18·4	14·0	0	0	4	0	0	8	0	0	0	0	0	0
Bolangir	40·1	..	43·8	28	..	..	..	13	0·8	6·0	..	5.2	18	1	..	10·9	9·5	..	0	2	0	0	2	0	0	0	0	0	0
Phulbani	37·0	..	40·6	29,30	21·5	..	16·9	12	6·8	14·4	..	7·8	11	2	..	6·6	4.1	..	0	2	0	0	3	0	1	0	0	0	0
Titlagarh	39·3	..	44·0	30	24·6	..	16·1	19	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhubaneswar	36·3	—1·7	39·6	18	25·0	—0·7	19·8	26	14·8	61·0	+51·6	25·4	22	5	+3.9	27·4	22.8	—1·9	1	6	0	0	13	0	0	0	0	1	0
Puri	30·2	—0·7	31·8	19	26·1	—0.1	20·7	26	2·0	27·8	+13·1	19·8	26	3	+2·0	25·6	24.3	+4·2	0	4	0	0	3	0	0	0	0	0	0
Gopalpur	30·8	—0·4	34·5	16,	25·0	—0·1	22·2	5,6	28·2	23·0	+5·2	20·0	6	2	+0·6	26·4	23·3	+3·3	0	2	0	0	12	1	0	0	0	2	0
Koraput	29·1	—4·5	33·3	29	20·2	—0·5	16·7	19	16·0	39·8	—8·4	20·1	18	3	—0·6	..	..	..	0	5	0	0	2	0	0	0	0	0	0
Bihar Plateau																													
Dumka	37·4	—0·3	41·7	9	23·2	0	20·2	19,30	7·6	11·8	—9·5	7·6	30	1	—0·9	13·2	9·1	+4·9	1	3	0	0	6	0	3	0	0	0	0
Daltonganj	37·3	—1.3	41·7	10	21·9	+0·8	15·6	4	0	0	—10·4	0	..	0	—0·8	9·4	5·4	—0·2	0	0	0	0	2	0	1	0	0	0	0
Hazaribagh	34·4	—1·8	38·3	10	21·2	—2·9	18·4	19	9.8	12·6	—1·4	8·2	25	2	+0·5	11·9	9·0	—1·5	0	5	0	0	8	0	0	0	0	0	0
Dhanbad	36·5	..	40·6	9,10	23·3	..	18·2	19	41·5	59·5	..	22·2	25	4	..	(b) 10·0	(b) 6·9	..	0	5	0	0	4	0	0	0	2	0	0
Ranchi	34·6	—0·8	38·3	3	21·4	—0·4	15·4	20	0	25·0	+2·4	16·0	27	2	—0·4	7·8	5·7	—2·2	0	2	0	0	3	0	0	0	0	0	0
Ranchi Aerodrome	34·1	..	38·4	2	21·6	..	17·3	19	24·0	17·4	..	8·0	19	2	..	(m) 12.7	10·5	..	0	4	0	0	8	0	0	0	0	1	0
Jamshedpur	38·2	—0·7	41·3	1, 3	24·1	+0·9	20·1	19	(m) 9·4	37·3	+14·4	33·4	25	1	—1·1	10·5	7·5	+2·2	0	5	0	0	9	0	0	0	0	3	0
Jamshedpur (PBO)	37·4	..	41·7	2	23·7	..	19·6	19	12·6	46·8	..	46·2	25	1	..	11.6	8·0	..	1	2	0	0	15	0	0	0	0	6	0
Chaibasa	37·7	—1·2	41·7	2	24·6	+0·9	19·7	19	30·0	41·6	+14·7	17·4	26	3	+0·8	7·5	5·0	+1·0	0	7	0	1	7	0	0	0	0	0	0
Bihar Plains																													
Motihari	32·8	—3·3	36·4	16	17·7	—2·1	..	..	0	0	—20·8	0	..	0	—1·4	(g) 9.2	(h) 7·4	+1·1	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	36·4	..	40·1	14	20·3	..	14·6	4	18·2	24·4	..	12·4	26	2	..	13·7	9·4	..	0	5	0	1	5	0	0	0	0	0	0
Darbhanga	36·0	—0·1	38·3	2, 14	21·1	+0·1	16·9	4	0	0	—17·3	0	..	0	—1·3	8·2	6·5	+0·4	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	4·1	—8·1	4·1	24	1	+0·1	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Chapra	36·8	..	40·3	7	22.5	..	17·4	4	17·2	39·9	+31·8	17·2	25	3	+2·3	11·3	7·1	..	0	3	0	0	6	0	1	0	0	0	0
Purnea	36·5	+0·8	40·6	14	21·3	+0·6	16·1	5	0	14.1	—18·4	12·0	29	1	—0.8	10·8	6·5	+1·0	0	2	0	0	2	0	1	0	0	0	0
Patna	36·8	—0·4	40·4	10	24·1	+1·0	19·7	4	47·0	53.2	+46·3	47·0	25	2	+1·4	7·8	8·0	+1·1	0	2	0	0	3	0	0	0	0	0	0
Patna Aerodrome	36·5	..	40·0	7, 17	22.6	..	17·8	4	11·6	14·4	..	11·6	25	2	..	13·4	7.8	..	0	2	0	0	2	0	0	0	0	1	0
Arrah	..	..	..	..	..	..	..	..	..	0	—6·3	0	..	0	—0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	36·7	—1·2	40·2	14	23·9	+0·3	20·3	29	2.8	15·8	+7.1	13·0	29	2	+0·8	13·9	10·1	—0·3	0	2	0	0	4	0	0	0	0	1	0
Sabaur	37·0	—0·3	39·5	6	21·6	+0·7	17·2	4	3·6	18·6	+0·3	15·0	29	2	+0·7	14·1	9·0	—0·7	0	3	0	0	4	0	0	0	0	2	0
Jamui	37·5	..	41·7	10	24·1	..	19·9	4	7·2	7·5	..	5·1	29	1	..	10·9	6·4	..	0	2	0	0	3	0	0	0	0	0	0
Dehri	37·7	..	41·4	9	23·9	..	19·1	4	0	4·4	—1·4	4·4	29	1	+0·4	8·2	6·5	..	0	1	0	0	0	0	0	0	0	0	0
Gaya	37·7	—1·1	42·1	10	22·9	+0·3	17·3	4	1·4	20·8	+14·7	17·4	29	1	+0·4	14·5	10·3	+1·0	0	3	0	0	3	0	0	0	0	2	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich	37·3	+0·1	40·0	10	22·1	+1·4	16·3	4	0	0	—8·1	0	..	0	—0·6	11·4	7·9	+2·4	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	36·7	..	41·8	12	..	..	..	..	0	7·4	..	5·1	30	1	..	10·6	6·4	..	0	2	0	0	0	0	0	0	0	0	0
Hardoi	37·6	—0·3	40·6	30	21·8	+1·2	16·1	2,3	0	0·5	—0·5	0·5	18	0	—0·2	..	..	..	0	1	0	0	3	0	0	0	0	0	0
Gonda	37·6	—0·1	40·1	10	21.6	+1.3	16·1	16	0	0·8	—8·1	0·8	29	0	—0·1	8·5	5·9	—1·8	0	1	0	0	2	0	0	0	0	0	0
Lucknow	37·3	—1·3	39·6	9	19·8	—1·8	14·1	4	0	0	—6·3	0	..	0	—0·6	4·3	3·8	—0·1	0	0	0	0	1	0	0	0	0	0	0
Lucknow (Amausi)	37·6	—0·7	40·1	9	20·7	+0·4	14·2	3	0	0	—6·3	0	..	0	—0·6	13·0	9·9	..	0	0	0	0	4	0	3	0	0	1	0
Faizabad	36·4	..	39·5	10	21·7	..	14·5	3	0·3	0·8	..	0·5	29	0	..	6·1	3·4	..	0	2	0	0	3	0	0	0	0	0	0
Gorakhpur	37·5	+0·1	40·8	10	22·0	+0·2	17·7	4	0	11·6	+2·2	11·6	24	1	+0·3	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Kanpur	38·1	+0·7	41·1	30	22·7	+1·3	17·9	4	0	0	—5·6	0	..	0	—0·6	14·1	10·8	—0·9	0	0	0	0	1	0	2	0	0	0	0
Kanpur (Aerodrome)	38·3	..	41·1	30	22·7	..	17.0	4	0	0	..	0	..	0	..	..	..	..	0	0	0	0	6	0	3	0	0	0	0
Sultanpur	37·8	..	41·2	9,10	22·7	..	18·3	3	0	16·4	..	16·4	29	1	..	9·1	6·2	..	0	1	0	0	1	0	1	0	0	0	0
Azamgarh	37·6	..	41·6	9	20·5	..	15·6	4	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	1	0	0	0	0
Fatehpur	38·6	+0.3	41·8	28	22·1	+1·0	16·5	3	0	2·7	—5·7	2.7	15	1	+0·4	10·0	6·9	+1·3	0	1	0	0	2	0	0	0	0	0	0
Ballia	37·7	..	40·5	7,10	22·3	..	18·4	6	10·8	10·8	..	10·8	25	1	..	2·8	1·6	..	0	1	0	0	0	0	0	0	0	0	0
Banda	39·6	..	44·2	28	22·9	..	16·7	3	0	0	..	0	..	0	..	7.9	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	38·9	—0·3	42·0	10	23·1	+1·2	17·8	3	0	21·0	+16·7	21·0	29	1	+0.6	8·2	5·9	—0·7	0	1	0	0	6	0	2	0	0	1	1
Varanasi (Babatpur)	37·5	—1·5	41·1	10	22·7	+0·5	18·4	3	0	4·5	+3·3	4·5	29	1	+0·8	16·2	12·7	+0·2	0	1	0	0	2	0	4	0	0	0	0
Varanasi	37·5	—1·3	41.7	10	23·0	+1·0	19.2	1	0	5·2	+0·1	5·2	29	1	+0·6	9·9	6·6	+1·3	0	1	0	0	0	0	0	0	0	0	0
Uttar Pradesh West																													
Mukhim (R)																													
Mahsiari(R)																													
Tehre (R)																													
Dehra Dun	32·3	+0·1	3·15	30	17·1	+0·2	11.2	3	0	0	—16·5	0	..	0	—1·7	6·2	5.0	+1·1	0	0	0	0	4	0	0	0	0	0	0
Roorkee	35·6	+0·2	39·6	30	20·6	+2·3	11·9	3	0	0	—11·4	0	..	0	—1·1	9.1	6·8	+2·3	0	0	0	0	0	0	0	0	0	0	0
Najibabad	36·0	..	38·9	25,30	20.2	..	12·3	3	0	0	..	0	..	0	..	6·8	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Meerut	36·5	0	40·0	25	20·6	+1·0	15·6	2	..	0	—9·4	0	..	0	—0·8	..	8·4	..	0	0	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. (c) Mean or total for 28 day (m) Total of Mean of 18 days (g) Mean of 24 days. (R) Register not received. (h) Mean of 23 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Da	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*contd.*																														
Bareilly	37·7	+1·1	40 0	25,26	22·6	+2·2	16·1	3	0	0	−6.9	0	..	0	−0·6	10·0	7·2	+3·0	0	0	0	0	0	0	0	0	0	0	0
Aligarh	38·3	+2·4	42·2	25	21·9	+1·8	14·7	3	0	0	−12·5	0	..	0	−1·0	14·7	12·5	+4·5	0	0	0	0	2	0	0	0	0	0	0
Mainpuri	39·1	+0·7	42·8	25	21·9	+1.2	15·1	3	0	7·8	+2·0	7·8	28	1	+0·3	1·0	0.3	−3.4	0	1	0	0	1	0	0	0	0	0	0
Agra	38·8	+1·0	43·0	25,26	22·7	+1·8	16·8	3	0	0	−5·3	0	..	0	−0·6	7·2	4·4	−1·9	0	0	0	0	0	0	1	0	0	0	0
Agra (Aerodrome)	37·9	..	43·2	25	21·1	..	15·4	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	4	0	2	0	0	0	0
Orai (R)																														
Jhansi	40·0	+0·8	44·4	28	24·6	+2·3	19·6	3	0	0	−3·6	0	..	0	−0·5	5·5	3·9	−1·9	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																														
Pathankot	33·7	+0·2	39·9	30	18·8	+0·9	12·1	2	1·0	11·8	−7·2	5·7	7	2	+0·1	10·4	9·8	−0·1	1	4	0	0	8	0	2	0	1	0	0
Amritsar (Rajasansi)	34·4	+0·1	40·4	25	17·5	+1·3	12·1	3	0	1·8	−5·9	1·0	26	0	−1.0	11·4	9·6	0	2	0	0	0	4	0	5	0	0	5	0
Adampur (Aerodrome)	33·4	..	38·5	25	16·4	..	10·6	2	2·5	11·4	..	8·9	30	2	..	..	..	..	0	2	0	0	6	0	1	0	0	0	0
Ludhiana	37·2	+1·8	43·1	25	19·6	+0·4	13·2	3	0	0	−16·5	0	..	0	−1·3	8·1	6·4	+3·2	0	0	0	0	1	0	1	0	0	0	0
Ferozepore	35·4	..	42·1	25,26	18·1	..	12·9	2	0	0	..	0	..	0	..	6·2	3·6	..	0	0	0	0	1	0	1	0	0	0	0
Halwara (Aerodrome)	36·0	..	41·4	26	17·6	..	11·7	3	0	14·8	..	11·0	30	2	..	..	..	..	0	2	0	0	3	0	2	0	0	0	0
Chandigarh	35·4	+1·0	39·2	30	20 4	+1·1	16·9	3	2 8	3·4	−7.0	2 8	10	1	+0·3	12·3	12·4	..	0	2	0	0	1	0	2	0	0	0	0
Ambala	36·6	+1·0	40·7	30	21·4	+2·3	15·8	2,3	0	0	−16·3	0	..	0	−1·6	5·5	5·5	−0·3	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	35·6	..	40·6	29	19·4	..	13·6	4	0·2	0·2	..	0·2	6	0	..	..	..	..	1	0	0	0	4	0	3	0	0	0	0
Patiala	36·2	..	40·8	30	20·1	..	14·7	3	0	0·4	−2·7	0·4	6	0	−0·3	10·9	9·7	..	0	1	0	0	0	0	0	0	0	0	0
Bhatinda	37·1	..	44·7	29	19·5	..	13·3	5	0	0	..	0	..	0	..	6·6	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Karnal	36·3	..	40·0	25,30	18·8	..	11·4	17	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	37·6	+1·0	43·0	25	20·5	+1 2	13·0	3	0	0	−6·6	0	..	0	−0.9	8·0	7·3	+0·4	0	0	0	0	0	0	4	0	0	0	0
New Delhi (Safdarjung)	37·0	−0·1	41·3	25	22 5	+1·1	16·4	3	0	0	−8·4	0	..	0	−0·9	13·0	9·4	−1·2	0	0	0	0	2	0	0	0	0	0	0
Palam (Aerodrome)	37·7	..	42·4	25	21·3	..	12·1	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	2	0	1	0	0	0	0
Himachal Pradesh																														
Mandi	30·8	+0·4	35·8	26	14·2	+1·0	9·9	3	11·8	29·6	−7.9	11·6	10	3	−1·0	3·7	3·1	−0·4	0	7	0	0	10	0	0	0	0	0	0
Bilaspur	32·1	..	38·1	26	14·0	..	10·1	3,4	21·8	40·6	..	21·0	10	3	..	..	..	..	0	4	0	1	7	0	0	0	3	0	0
Jammu and Kashmir																														
Misgar (R)																														
Gilgit (R)																														
Skardu (R)																														
Drass*																														
Sonamarg (R)																														
Leh	11.5	−1·5	18·3	30	−1 0	−0·1	−6·3	10	16·4	42·6	+36·8	16·0	8	3	+2·2	8.3	6 6	+2·3	0	5	0	2	1	0	0	0	0	1	0
Srinagar	18·0	−1·3	26·7	24	8·3	+1·3	3·3	2	36·5	111·3	+18 6	29·0	9	9	+1·2	12·0	10 7	+5.6	1	15	0	0	3	0	0	0	0	0	0
Srinagar (Aerodrome)	17·6	..	25·7	24	7·5	..	3.0	2	26·5	79·7	..	20·1	9	7	..	..	..	..	0	13	0	0	11	0	0	0	0	0	0
Gulmarg	Closed during winter months																													
Banihal	21·0	..	28·9	24	8·7	..	4·7	7	43·5	154·2	..	47·8	8	11	..	..	..	..	0	15	0	4	12	0	0	0	0	0	0
Jammu	35·3	+3·1	40·9	24	17·6	−2·9	11·1	3	0	0	−32·8	0	..	0	−2·6	..	8·0	..	0	0	..	..	..	..	..	..	..	..	..
Jammu (Aerodrome)	33·6	..	39·6	30	19·3	..	13·3	5	0	5·3	..	2·5	1	1	..	..	..	..	0	4	0	0	6	0	2	0	4	1	0
Rajasthan (West)																														
Ganganagar	37·5	+1·1	43·9	25	20·8	+1·2	14·4	1,2	0	6·8	+3·1	6·8	28	1	+0·6	6·5	4·7	−0·4	0	1	0	0	0	0	0	0	0	0	0
Anupgarh (R)																														
Mahajan	39·3	..	45·0	25	..	..	..	..	..	..	..	..	..	..	..	(c) 6·6	(c) 5·3	..	0	..	0	..	..	..	..	..	..	..	..
Churu	38·3	..	44·1	25	21·2	..	14·0	2	0	3·1	..	2·5	28	1	..	14·3	9·9	..	0	2	0	0	5	0	0	0	0	0	0
Bikaner	38·9	+1·0	44·2	24	22·1	+0·8	13·9	2	0	0	−4 8	0	..	0	−0·5	8·1	6.4	−1·2	0	0	0	0	1	0	2	0	0	0	0
Nagaur	37·3	..	43·3	24	22·4	..	14·8	2	0	0	..	0	..	0	..	10·5	9·1	..	0	0	0	0	0	0	1	0	0	0	0
Phalodi	38·7	..	43·2	24.25	22·7	..	17·3	2	0	28·2	+25·1	28·2	28	1	+0·7	16·9	14·4	..	0	1	0	0	3	0	0	0	0	0	0
Jaisalmer	38·3	..	43·3	30	22·3	..	14·9	11	0	11·4	..	11·4	15	1	..	13·7	11·3	..	0	1	0	0	0	0	0	0	0	0	0
Jodhpur	39·0	+1·6	43·1	28	23·1	+1·5	18·4	12	0	1·0	−2·3	1·0	16	0	−0·5	12·7	10·2	−4·7	0	1	0	0	1	0	1	0	0	1	0
Barmer (R)																														
Munabao	39·6	..	44·0	30	19·6	..	14·0	2,3,11	0	0	..	0	..	0	..	(b) 14·9	(c) 11·4	..	1	0	0	0	1	0	0	0	0	0	0
Rajasthan (East)																														
Pilani	38·4	..	43·9	25	20·9	..	13·4	2	0	2·0	..	2·0	17	0	..	16·5	12 4	..	0	1	0	0	0	0	2	0	0	0	0
Sikar	36·7	..	41·1	28	19·8	..	11·6	12	0	1.0	..	1·0	16	0	..	8.5	8·1	..	0	1	0	0	0	0	0	0	0	0	0
Alwar	38·3	..	43·2	25	23·6	..	17·7	2,4	0	0	..	0	..	0	..	5·3	2·9	..	0	0	0	0	1	0	1	0	0	0	0
Jaipur (Sanganer)	37·6	+1·0	42·5	25	21·6	+1·2	17·6	3	12	1·9	−2·4	1·3	17	0	−0·5	..	..	..	0	2	0	0	2	0	1	0	0	1	0
Dholpur	39·6	..	43·3	25,26, 27	22·4	..	15·5	4	0	0·8	..	0·8	28	0	..	9·6	6·2	..	0	1	0	0	6	0	1	0	0	0	0
Ajmer	37·3	+1·0	41·2	25,27	23·9	+2·0	18·2	3	0	0·2	−3·6	0·2	16	0	−0·4	14·2	11·2	+4 0	1	0	0	0	1	0	1	0	0	0	0
Tonk	38·3	..	43·3	25	21·7	..	14·1	3	0	0	..	0	..	0	..	11·6	8·0	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	37·4	..	42·0	25	21·8	..	16 0	3	0	0	..	0	..	0	..	6·8	4.7	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received. (b) Mean of 29 days. (c) Mean of 28 days. (e) Mean of 26 days. *Data not reliable

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Rajasthan (East)— *Contd.*																													
Kota (Aerodrome)	39·4	..	44·4	27	25·3	..	20·4	3	0·4	3·9	..	3·5	17	1	..	15·5	12·7	..	0	2	0	0	3	0	1	0	0	0	0
Kota	39·4	+0·7	43·4	27	21·7	−2·6	15·6	3	1·8	3·2	−2·1	1·8	15	0	−0·5	11·1	7·5	+3·2	0	2	0	0	2	0	0	0	0	0	0
Erinpura (Jawai Dam)	37·6	..	41·0	24,25, 28	23·1	..	15·5	3	0	0	..	0	...	0	..	9·6	8·3	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	38·7	..	43·2	27	23·3	..	17·2	3	10·6	10·9	..	10·9	17	1	..	12·2	8·0	..	0	1	0	1	2	0	0	0	0	0	0
Udaipur	36·2	−0·3	40·5	24	20·1	−1·7	14·3	3	21·8	25·6	+22·8	22·0	15	2	+1.8	6·4	3.5	..	0	2	0	0	2	0	0	0	0	0	0
Jhalawar	38·8	+0·7	43·1	26	22·7	+1.5	17·2	3	0	6·6	−0·3	6·6	17	1	+0·5	9·0	6·3	+0·7	0	1	0	0	3	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	39·0	−0.1	43.4	28	22·7	−0·6	15.9	2	0	0	−5·1	0	...	0	−0.6	10.3	6·2	..	0	0	0	0	3	0	0	0	0	1	0
Sheopur	39 2	+0·4	43·3	25	22·1	+0·8	14·8	3	0	1·6	0	1·6	29	0	−0·2	12·1	8·4	+1·2	0	1	0	0	6	0	4	0	0	0	0
Shivpuri	37·3	..	41·9	26	20.5	..	13·3	3	1.0	1·0	..	1·0	29	0	..	12.7	8.1	..	0	1	0	0	1	0	0	0	0	0	0
Nowgong	38·8	0	43·7	28	20·5	−0·7	14·3	3	0	3.0	−1.3	3·0	29	1	+0·7	8·8	5.2	+1·5	0	1	0	0	3	0	0	0	0	0	0
Guna	38·3	+0·7	43·0	26	20·4	+1.0	14·1	3	0	2·1	−5.3	2·1	17	0	−0.5	15·4	9·7	..	0	1	0	0	3	0	0	0	0	0	0
Nimach	37·5	+0·7	42·1	25	22·4	+0·8	16·8	3	2·6	2·6	−0·5	2·6	17	1	+0·7	13·1	10·8	+1·3	0	1	0	0	1	0	1	0	0	0	0
Rajgarh	38·9	..	43·5	26	22.0	..	16·5	3	0	0·4	..	0·4	17	0	..	12 7	9·7	..	0	1	0	0	0	0	0	0	0	0	0
Sagar	37·0	−0.7	41·7	26	22·2	−0·6	16·4	17	2·0	11·0	+5·7	7·0	13	2	+1·5	11·4	8·6	..	0	3	0	0	5	0	0	0	0	0	0
Ratlam	37·9	+0·1	42.3	25	21·9	−0·8	17·7	13	9·8	9·8	+8 2	9·8	13	1	+0·8	11·4	8·3	−0.2	0	1	0	0	1	0	0	0	0	0	0
Bhopal (Bairagarh)	37.6	+0·3	42·2	26	20.9	−0.7	16·8	13	12·8	16·2	+10·6	12·4	13	2	+1·3	15·4	11·4	+0·5	0	3	0	0	5	0	0	0	0	2	0
Ujjain	37·3	..	41·8	26	20·0	..	15·0	3	..	2·9	..	1 4	11	0	..	..	9·1	..	1	3	0	0	2	0	0	0	0	0	0
Narsinghpur	39·5	..	43·0	26,27, 28	23·3	..	16·6	3	2·1	17·1	..	11·8	13	2	..	7·3	4·6	..	0	3	0	0	0	0	0	0	0	0	0
Hoshangabad	38.9	+0·1	43·3	27	22·7	−0·4	18·3	4	13·0	21·6	+18·3	17·0	13	2	+1·7	7.7	6·0	+2·0	1	3	0	0	0	0	0	0	0	0	0
Indore	37·2	−1·1	41·9	26	21·0	+1·0	16·8	3	0	8·2	+4·9	7·2	17	1	+0·7	16·1	14·3	..	0	2	0	0	5	0	0	0	0	3	0
Rajpur (Jhabua)	38·1	..	42·6	24,25	21·8	..	17·0	4	0	0	..	0	..	0	..	11·9	9·0	..	0	0	0	0	2	0	0	0	0	0	0
Chhindwara	36·7	+0.2	40·9	26	21·3	−0·5	18·0	13	0	4 3	−6·7	3.3	13	1	−0.2	6.5	3·5	−3·1	0	3	0	0	5	0	0	0	0	0	0
Seoni	37·0	−0·5	41·6	26	21·7	+0·3	18·1	17	2·2	15.0	−0·2	5·8	13	2	+0·3	10·7	6.7	+1·2	1	4	0	0	8	0	0	0	0	0	0
Betul	36·9	−0.2	41·0	26	19·9	−1·0	17·1	13,19	0	12.0	+3·2	10·2	13	1	+0.1	9·2	5·7	0	0	3	0	0	5	0	3	0	0	0	0
Khandwa	39·4	−0·8	43·8	25	23·9	+0 2	18·8	4,13	20·0	20·0	+17·2	20·0	13	1	+0.7	13.4	9·7	+1·3	0	1	0	0	1	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	38·9	+0·8	43·9	28	22·4	+0·5	17·6	4	0	3.6	−3·5	2.0	29	0	−0·7	9·1	6·1	+0·1	0	2	0	0	5	0	0	0	0	0	0
Sidhi	38·6	..	43·0	28	21·8	..	17·0	4	0	0	..	0	..	0	..	10·4	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	38.0	+0·8	42·3	29	21·4	+1·0	15·4	4	0	5.6	−6·1	3·8	13	1	+0·1	10·3	6·4	+0.8	0	2	0	0	3	0	0	0	0	0	0
Jabalpur	38·5	+0·4	42.5	28	21·8	+1·6	17.7	4	4·2	28.6	+20·5	20·8	13	3	+2·2	8·1	5·5	+1·6	1	4	0	0	7	0	0	0	0	0	0
Ambikapur	35·8	−0·8	39·4	29	20·8	+0·5	16·6	4	4·0	6.2	−2·3	4·0	18	1	0	13·9	9·9	+1.1	0	2	0	0	3	0	0	0	0	0	0
Pendra	35·7	+0·5	40·0	28	22·1	+0·4	16·8	18	4·9	22·5	−2·1	9·6	17	3	+0·9	12·1	9.0	..	1	5	0	0	7	0	0	0	0	0	0
Mandla	37·3	−0·6	41·6	28	17·5	−1.6	13·6	4	1·4	20·6	+6·7	11·0	17	2	+0·2	7·6	4·5	+0·7	0	5	0	0	6	0	0	0	0	0	0
Champa	39.0	−0·8	42·8	29	24·2	−0·5	19·5	18	0·6	20·0	+10·2	16·4	6	2	+0·6	10·0	7.0	+0·4	0	3	0	0	6	0	0	0	0	0	0
Raigarh	39·0	−1.3	43·0	29	24·3	−1·1	19·6	19	2·0	15·2	+7·7	12·0	6	1	+0·3	4·9	3·7	−1·6	0	3	0	0	0	0	0	0	0	0	0
Raipur	38·5	−0·8	43·3	29	25·0	+0·4	18·4	18	3.3	19·6	+3·3	15 4	18	2	+0·3	10.9	9·5	+1·3	0	4	0	0	7	0	0	0	0	0	0
Kanker	36·8	−0·8	40·5	30	23.9	+1·0	19·4	5	14·1	43·6	+13·9	16·0	27	6	+3·7	11·4	8·9	+3·3	0	8	0	0	5	0	0	0	0	0	0
Jagdalpur	35·8	−1·5	39 4	30	21·8	−0·3	18·1	18	63·9	105·2	+60·0	40·2	11	7	+3·5	8·6	6·0	..	0	8	0	3	14	0	0	0	0	1	0
Gujarat Region																													
Deesa	39.0	..	42.5	24	21·6	..	17·3	4	0	0	..	0	...	0	..	10·6	7·9	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	38·8	..	42·0	30	20·9	..	15·1	3	1·4	1·4	..	1·4	16	0	..	10·4	7·6	..	0	1	0	0	0	0	0	0	0	0	0
Idar	38·6	..	43·0	24	23·3	..	19·1	7,9	0	0	..	0	...	0	..	10·0	8·0	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	39·8	−1 0	43·0	24	23·2	+0·5	19·4	3	0	0	−1·3	0	..	0	−0·1	8·5	6·8	−1·1	0	0	0	0	1	0	0	0	0	0	0
Dohad	38·3	−0.2	45·0	26	23·1	−0·7	18·0	1	0	10·8	+9·3	10·2	14	1	+0.9	(b) 18·1	(b) 17·4	−0·6	0	2	0	0	2	0	0	0	0	0	0
Baroda Aerodrome	39·2	..	43·3	24,25	22·7	.	18·1	2	0	0	..	0	.	0	..	9·1	7·6	..	0	0	0	0	2	0	0	0	0	0	0
Baroda	39·8	0	44·2	24	23·3	+1·6	18·9	2	3·2	3·1	−1.3	2·6	14	1	+0·9	6·5	4·5	−0·6	0	2	0	0	1	0	0	0	0	0	0
Broach	39·9	−0.1	45·1	25	23·8	+0·1	19·6	3	2·0	3·0	+1.2	2·0	14	0	−0·1	9·3	8·6	+0.5	0	2	0	0	0	0	0	0	0	0	0
Surat	37·0	−0·3	42·1	24	24·0	+0·8	20·8	1	0	4·0	+3·2	4·0	12	1	+0·9	11·5	9·5	+2·7	0	1	0	0	1	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimasar	39·1	..	43·0	30	22.7	..	19·6	12	0	0	..	0	..	0	..	(e) 18·9	(e) 16·7	..	0	0	0	0	0	0	0	0	0	0	0
Naliya	34·1	..	38·5	3	20·7	..	15·2	3	0	0	..	0	..	0	..	17·9	10·1	..	0	0	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	38.9	+1·2	42·4	24	21·7	−0.5	17·8	3	0	0	−1·8	0	..	0	−0·1	16.1	12.6	0	0	0	0	0	2	0	0	0	0	0	0
Kandla	38·6	..	42·9	25,30	21·4	..	17·5	11	..	1·0	..	1·0	11	0	..	..	21·1	..	0	1	0	0	2	1	0	0	0	0	0
New Kandla	34·1	..	40·7	27	23·5	..	20·3	11	0	0	..	0	..	0	..	22·3	19·7	..	0	0	0	0	1	0	0	0	0	0	0
Mandvi	31·4	−0·9	36·1	26	23·1	+0·8	17·4	2	0	0	0	0	..	0	0	28·8	24·9	+1·1	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	39·6	−0·1	42 6	25	24·0	+0·5	21·3	3	0	0	−3·8	0	..	0	−0.3	15·2	15·7	+1·1	0	0	0	0	0	0	0	0	0	0	0
Jamnagar Aerodrome	35·0	−0·3	37·6	8	22·3	+1·6	17·6	3	0	0	−0·5	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. (e) Mean of 26 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(*Contd.*)																															
Dwarka	29·7	+0·2	31·6	27	24·3	—0·4	21·0	3	0	0	—0·8	0	..	0	0	16·0	15·3	—0·1	0	0	0	0	0	0	0	0	0	0	0
Rajkot	38·5	—0.4	41·4	30	21·2	+0·2	16·8	3	0	0	—1 0	0	..	0	—0 1	25·8	20.9	+0·1	0	0	0	0	1	0	0	0	0	0	0
Bhavnagar Aerodrome	37·9	+0.4	42·4	24	23·9	0	19·8	3,7	0	0	—2.5	0	..	0	—0.3	22·5	19.8	+4.2	0	0	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	32·9	..	39·4	3	21·6	..	18·3	3,4	0	0	..	0	..	0	..	21·4	15·4	..	0	0	0	0	0	3	0	0	0	0	0
Porbander	30.7	—1.6	34·3	4	23·6	+0 3	21·2	4	0		—0·4	0	.	0	0	16·2	12·9	—3 3	0	0	0	0	0	0	0	0	0	0	0
Keshod	37·2	..	41·7	24	21·5	..	18·4	3	0	0	..	0	..	0	..	22·7	18·3	..	0	0	0	0	0	1	0	0	0	0	0
Mahuva	35·0	..	41·9	24,27	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	30·7	..	39·4	4	22·1	..	18·7	7	0	0	0	0	..	0	0	21·7	18·2	..	0	0	0	0	0	1	0	0	0	0	0
Konkan																															
Dahanu	31·7	—0·2	35·0	24	23·9	+0·1	21·6	1	0	0·7	—6·5	0·7	12	0	—0.3	21.6	14·6	0	0	1	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz)	32·0	—0.1	34·6	23	22·8	+0·4	20·3	7	0	0	—1.3	0	..	0	0	18 2	10·7	0	0	0	0	0	1	0	0	0	0	0	0
Bombay	32 3	+0.6	33·7	23	24·7	+0·2	22·8	7	0	1.3	+0·5	1.3	12	0	0	10·3	7·0	—4 4	0	1	0	0	1	0	0	0	0	0	0
Alibag	30 7	—0·2	32·8	28	23.8	—0·3	21·3	1,4	..	4.0	+3·7	4.0	12	1	+1.0	..	12·3	+1·4	0	1	0	0	1	0	0	0	0	0	0
Harrai	29·3	—0 5	31·6	28	25·5	—0·2	23·7	1,17	0	0	—10.2	0	..	0	—0.6	20·3	16·3	—0.3	0	0	0	0	1	0	0	0	0	0	0
Ratnagiri	31·7	..	33·8	28	25.7	..	22·9	18	0	0	—2·5	0	..	0	—0·3	15.8	9.1		0	0	0	0	2	0	0	0	0	0	0
Devgarh	31·8	—0·1	33·4	30	25.9	—0.4	23·2	17	0	0	—7·6	0	..	0	—0·8	20·6	16·5	+0.2	0	0	0	0	1	0	0	0	0	0	0
Vengurla	32·3	—0·3	34.2	8	24.5	—0·2	20·9	17	0	0	—8·7	0	..	0	—0.8	13·7	8·1	..	0	0	0	0	1	0	0	0	0	0	0
Madhya Maharashtra																															
Nandurbar	39·9	..	44·6	25	..	..	..	..	2.0	9.1	..	6·3	14	1	..	10·5	9·2	..	0	3	0	0	0	0	0	0	0	0	0
Jalgaon	41·2	+0·1	45·4	25	24·0	—0.3	17.5	13	5.5	9.2	+7·1	9·2	13	1	+0.8	17.1	14 9	+1 8	0	1	0	0	1	0	0	0	0	0	0
Malegaon	39·4	—0·2	43·9	25	22·4	+0·8	17.0	14	4.0	8.6	+5.5	8·6	13	1	+0·7	12·8	10·2	+0 1	0	1	0	0	0	0	1	0	0	0	0
Deolali (Aerodrome)	37.5	..	41.6	24	20.3	..	16.8	17	8·4	27 5	..	19·1	13	2	..	11.0	8·7	..	0	2	0	0	2	0	0	0	0	0	0
Ahmadnagar	38·9	+1·0	42·6	26	21·0	0	17·4	13	0.4	0·4	—9·8	0·4	13	0	—1·1	10·3	8·9	—0·9	0	1	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	0	—7·9	0	..	0	—0·7	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Poona (Aerodrome.)	37·8	..	40·9	24	..	..	..	..	1.0	1·0	..	1·0	13	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Poona	38·2	—0.1	40.9	5	20·8	+0·6	16.6	18	0	0	—15 0	0	..	0	—1·3	5.7	4·3	—6·0	0	0	0	0	0	0	0	0	0	0	0
Jeur	39·1	+0·2	42·0	25	22.8	0	17·9	17	12.4	32 5	+17.0	12.4	13	3	+1·5	10·6	9·2	—0 4	0	3	0	0	7	0	1	0	0	0	0
Baramati	38.8	0	42.0	25	22·5	+0·2	17 9	17	13.2	15·2	+8·0	9·0	13	2	+1·4	10·7	11.0	+0·6	0	3	0	0	5	0	1	0	0	0	0
Sholapur	38·3	—1.4	41·9	27	24·0	—0·1	20·1	15	0	48·2	+34·7	12·2	13	6	+4·8	9.1	8·6	—1.7	0	6	0	0	3	0	0	0	0	0	0
Miraj	37·7	+0.4	40·2	4,5	22·0	+0·9	17·5	18	16.4	21·0	—29·5	12·0	25	2	—1.1	..	..	.	0	4	0	0	12	0	1	0	0	0	0
Kolhapur	37·2	+0·4	39·9	4	21·3	0	16.6	17	8.5	17 6	—15·7	12·6	26	2	—0·8	13·4	12·7	—0.4	0	3	0	1	6	0	1	0	1	0	0
Marathawada																															
Aurangabad	38·3	—0·2	41·4	25,26, 30	22·7	—0·5	17·8	13	9.0	13.0	+6.9	10·6	13	1	+0·4	12·4	11·1	—1 0	0	3	0	0	3	0	0	0	0	0	0
Aurangabad (Chikalthan)	38·0	..	41·3	25	20·4		15·3	4	6.2	9 4	..	8·0	13	1	..	15·9	12·8	..	0	2	0	0	5	0	0	0	0	0	0
Parbhani	39·3	—0·5	43·5	27	23.6	—0.4	19·1	14	0	64.2	+53·9	39·8	13	4	+2.7	10·5	8·4	—0·5	0	5	0	0	6	0	0	0	0	0	0
Nander	39·4	..	42·8	26,27	..	..	..	..	71.2	140·9	..	69·7	13	3	..	8.0	6.1	..	0	4	0	0	6	0	1	0	0	0	0
Bir	39.1	..	42.7	25,26 27	22·9	..	18.5	13	(b) 0	45.6	..	33.0	13	3	..	(b) 10.7	7.1	..	0	4	0	0	6	0	0	0	0	0	0
Vidarbha																															
Gondia	38·7	—0·5	42·7	29	24.4	—0·1	19·5	18	0	27·4	+14·9	9.2	15	4	+2·6	7·3	5.0	+0·2	1	5	0	0	5	0	0	0	0	0	0
Nagpur (Sonegaon)	39·4	—0.8	43·6	26	23·1	—1·0	18.0	18	0·2	19.1	+3·9	10.2	13	2	+0·7	12·3	9·9	..	1	5	0	0	8	0	0	0	0	5	0
Amravati	38·5	—1·7	44·4	27	25·1	+0·4	19·5	13	0.6	16 4	+7·8	10.8	13	2	+1.2	14·1	10·4	+3·0	0	3	0	0	3	0	0	0	0	0	0
Akola	40·1	—0·7	44·5	27	23·0	—0·8	18·7	13	9·7	25.6	+20.5	15.0	13	3	+2.5	10.1	7·6	+0 4	0	4	0	0	0	0	0	0	0	0	0
Bramhapuri	39·1	..	42·7	30	24.2	..	19.8	13	1·8	28 4	..	16·6	12	2	..	9.8	7·8	..	0	6	0	1	8	0	6	0	0	0	0
Buldhana	36.8	—0·3	40 8	25	23 3	—1·8	15.9	13	12·0	13·8	+4.9	8·8	12	2	+1·1	11.7	10.6	—0·2	0	3	0	0	0	0	0	0	0	0	0
Yeotmal	39·0	—0·4	43.2	26	24·8	—0·4	18·8	13	0	45.2	+29·0	30·2	13	2	+0·6	15·2	13.3	+1·7	0	3	0	0	2	0	2	0	0	0	0
Chanda	39.4	—1·4	43·9	26	24·9	+0·5	18.5	12	30·8	51·4	+31·6	38·0	15	3	+1·2	8·8	6·5	+1·8	1	5	0	0	7	0	0	0	0	0	0
Pusad	40·2	..	43·3	26	23·7	..	19.2	13	0	38·1	..	24·2	13	3	..	(c) 10·3	7.4	..	0	3	0	0	0	0	0	0	0	0	0
Sironcha	38·5	—1·4	42·1	30	25·0	—1·7	20·0	15	0	88.8	+72·0	33.0	27	4	+2·7	9·1	7·7	+1·3	0	4	0	0	5	0	0	0	0	0	0
Coastal Andhra Pradesh																															
Kalingapatam	33·1	—0·5	39·0	16	25.7	0	21.6	18	0	47·2	+27.9	24.6	26	2	+0·5	22·8	17·3	+3.9	0	2	0	0	6	0	0	0	0	0	0
Vishakhapatnam	35·1	—0·8	38.3	27	25·6	+0·3	20·9	18	0	29·9	+11·9	26.2	18	1	—0·3	25.7	15·8	+2·1	0	4	0	0	7	0	0	0	0	1	0
Kakinada	36.4	+0.8	39·3	30	25.2	—0.6	22·3	18	0	28.8	+12.5	22.4	18	2	+1.0	13.1	10.0	+1.8	0	2	0	0	3	0	1	0	0	0	0
Nidadavole	35.4	..	39·0	29	24·9	..	19·1	20	29·0	31.4	..	27.0	20	1	..	7.3	6.5	..	0	3	0	0	6	0	0	0	0	0	0
Rentachintala	39.5	+0·9	43·8	30	26·2	0	23.2	13	0	7.4	—22.8	2.6	13	1	—1.7	8·1	8·6	—2.0	0	3	0	0	0	0	0	0	0	0	0
Gannavaram	37·3	—0·5	43·8	29	25·1	—0·5	22·9	12	2·2	19.6	+4.8	16.0	13	1	+0.3	16·7	13·3	+0·3	0	3	0	0	9	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days w											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*contd.*																														
Nagarjunakonda	39·5	..	43·7	30	26·6	..	21·3	14	27·4	33·6	..	21·4	9	3	..	15.9	15·7	..	0	5	0	0	7	0	0	0	0	0	0
Masulipatam	33·7	−0·9	39·4	29	25·2	−0·2	22·1	13	10·4	27·6	+10·1	17·2	13	2	+1·1	5·3	3·6	−5.7	0	3	0	0	3	0	0	0	0	0	0
Ongole	34·9	..	40·9	29	25·8	..	23·9	1,2,3	4·2	4·2	..	4·2	14	1	..	15·7	10·6	..	0	1	0	0	0	0	0	0	0	0	0
Nellore	36·1	−1·3	41·8	30	25·6	+0·4	23·2	14	19·2	19·2	+7·0	19·2	14	1	+0·4	11·9	8·9	−0·1	0	1	0	0	1	0	0	0	0	0	0
Telengana—																														
Ramagundam	38·4	−1·9	42·8	30	25·6	+1.1	20.5	15	0	68·6	+58·7	36·0	15	5	+4·3	10·8	9·1	+1·2	0	5	0	0	3	0	2	0	0	0	0
Nizamabad	37·9	−1·9	41·0	27	23·8	−0·8	19.3	12	0	90·6	+69·0	32·0	15	5	+3.0	8·8	7·0	+1·9	0	7	0	0	9	0	0	0	0	0	0
Hanamkonda	37.0	−1·2	41·3	30	23·7	−1·4	20.0	15	0	93·0	+69·9	43·0	13	3	+1·4	10·7	10·4	+0·9	0	3	0	0	3	0	0	0	0	0	0
Rakinapet (Aerodrome)	35·2	..	38·6	27	22·8	..	18·0	15	2·3	31·5	..	18·0	15	9	..	..	..	..	0	7	0	0	14	0	0	0	0	0	0
Bhadrachalam	37·9	−1·4	42·0	29	24·9	−0·8	21·6	9	0	74·0	+51·1	22·0	9	4	+2·4	8·9	8·0	−1·6	0	4	0	0	1	0	0	0	0	0	0
Hyderabad (Begumpet)	35·7	−1·4	39·6	27	22·8	−0·9	18·8	15	12·8	58·9	+29·2	23·4	15	5	+3·1	13·0	9·7	−0·8	1	9	0	0	12	0	0	0	0	2	0
Khammam	37·6	..	41·9	30	24·7	..	20·2	14	32·4	85·4	..	32·4	6	5	..	5·7	6.2	..	0	5	0	0	4	0	0	0	0	0	0
Mahbubnagar	35·8	..	40·4	29,30	23·9	..	20·3	13	0	48·4	..	37·4	13	3	..	9·7	7·7	..	0	4	0	0	5	0	0	0	0	0	0
Rayalaseema																														
Kurnool	33·0	−1·8	41·7	30	25·3	−0·8	21.5	9,12	7·2	37·5	+20·5	19·3	12	4	+2·5	7·5	7·7	+0·1	0	6	0	0	3	0	1	0	0	0	0
Anantapur	37·9	−0·6	40·3	30	25·3	−0·3	22·7	1,15	0	24·6	+8·5	14·4	12	2	+0·8	9·9	11.0	+0·7	0	6	0	0	10	0	0	0	0	0	0
Cuddapah	39·6	−0·8	41·8	29,30	26·6	−0·6	23·5	9	11·8	19·2	+4·7	7·6	19	2	+0·9	10·5	7·7	−3·6	0	5	0	0	0	0	0	0	0	0	0
Anantayavaram	34·5	..	36·1	6,14,30	21·7	..	19·8	14	22·8	138·6	..	48·0	18	5	..	9·3	8·8	..	0	6	0	0	6	0	0	0	0	0	0
Madras State																														
Madras	33·9	..	37·5	29	25·9	..	23·5	2	..	3·1	..	3·1	19	1	..	..	9·3	..	0	1	0	0	3	0	0	0	0	0	0
Madras (Minambakkam)	35·3	0	39·0	29	26·1	+0·5	23·6	2	35·7	35·7	+20·2	29·8	19	2	+1·1	15·4	11·0	−0·4	0	2	0	0	5	0	0	0	0	0	0
Vellore	36·9	−0·2	40·6	29	24·1	−0·5	20·7	2	3·0	24·4	−1·0	11·0	14	2	+0·5	9·6	8·7	+2·7	0	5	0	0	7	0	0	0	0	0	0
Tanjavur (Aerodrome)	36·7	..	41·3	29	..	..	..	..	30·7	30·7	..	18·0	19	3	..	0	..	..	0	3	0	0	3	0	0	0	0	0	0
Tiruppattur	35·8	..	38·8	29	22·3	..	19.0	2	47·1	82·1	..	29·4	14	7	..	6·2	4·9	..	0	7	0	0	4	0	0	0	0	0	0
Cuddalore	33·7	−0·5	38·5	29	25·4	0	23·0	22	0	0	−24·9	0	..	0	−1·1	15·8	12·0	+3.8	0	0	0	0	1	0	0	0	0	0	0
Kallakkurichchi	37·4	..	40·6	29	24.9	..	20.6	29	0·2	88·6	+54·1	75·0	29	2	+0·3	8·7	7·0	..	1	2	0	0	3	0	0	0	0	0	0
Salem	36·7	−1·2	39·8	29	25·2	+0·5	22·9	19	11·6	26·6	−22·4	9·8	29	4	+0·4	9·5	9·1	+2·8	0	6	0	0	13	0	0	0	0	0	0
Coimbatore (Pillamadai)	35·1	..	36·5	7	22·9	..	19·9	19	12·9	21·6	..	9·0	18	3	..	11·8	11·7	..	1	5	0	0	16	0	0	0	0	2	0
Coimbatore	35·7	−0·1	37·4	30	22·4	−0·7	18·9	19	10·9	28·4	−11·7	15·8	19	2	−1·2	8·4	6·2	+2·0	1	4	0	0	12	0	0	0	0	0	0
Pattukottai	33·0	−0·3	27·9	30	27·0	+0·5	25·2	16	0	0	−28·2	0	..	0	−1·3	18·1	14·1	+4.0	0	0	0	0	2	0	0	0	0	0	0
Tiruchchirappalli	36·5	−1·3	39·3	29	25·7	+0·1	22·9	22	25·8	45·9	+0·2	19·1	5	4	+2·0	10·3	10·8	+1·9	1	4	0	0	8	0	0	0	0	0	0
Vedaraniyam	34·3	..	35·9	30	26.8	..	23·7	19	2·4	17·0	..	11·4	19	2	..	10·0	7·0	..	0	4	0	0	3	0	0	0	0	0	0
Atirampattinam	33·4	..	35·5	3	26·1	..	22·0	14	0	84·6	..	67·2	14	2	..	18·3	13·9	..	0	2	0	0	8	0	0	0	0	0	0
Madurai	36·1	−0·5	38·7	30	25·6	+0·8	23·1	5	30·2	33·6	−21·3	30·4	5	1	−2·1	6·3	5·4	+0·7	0	3	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	35·5	..	38·0	30	24·9	..	22·6	5	61·8	63·0	..	33·8	5	2	..	10·1	9·2	..	0	3	0	0	14	0	0	0	0	0	0
Tondi	32·6	..	34·1	15	27·4	..	24·8	5	0	20·0	..	20·0	15	1	..	20·0	17·3	..	0	1	0	0	2	0	0	0	0	0	0
Pamban	32·8	0	34·2	1,25	26·4	−0·1	22·6	5	17·6	64·7	+18·0	18·4	5	5	+1·8	10·0	11·1	+1·3	1	6	0	0	1	0	0	0	0	0	0
Tuticorin	31·6	−0·3	35·2	28	25·3	−1·2	22·4	4	8·5	41·8	−23·6	18·5	5	3	−0·8	18·3	14·1	+0·5	1	4	0	0	2	0	0	0	0	0	0
Palayankotai	35·1	−0.3	38·3	30	24·9	−1·0	22·4	4	6·6	20·0	−50·8	10·8	4	3	−0·9	5·8	4·2	−2·9	0	3	0	0	2	0	0	0	0	0	0
Kanniyakumari	31·6	..	33·6	3	27·4	..	21·7	4	49·6	150·8	..	59·0	4	4	..	15·0	11·6	..	0	6	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	31·9	+0·3	33·1	27	25·9	+0·6	23·2	18	0	0	−16·8	0	..	0	−1·0	17·9	12.1	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	32·3	−0·4	33·9	7,28	24·5	−0·8	22·4	7	0	3·3	−13·5	3·3	7	1	−0·2	12.4	10·0	+4.7	0	1	0	0	3	0	0	0	0	0	0
Mangalore (Bajpe)	33·7	..	34·9	23	24·7	..	22·6	21	0	16·5	..	10·4	5	2	..	14·0	8·9	..	0	2	0	0	5	0	0	0	0	0	0
Mangalore	32·8	−0·1	33·6	7	26·7	+0·9	24·0	3	0	8·0	−30·9	4·0	25	2	−0·3	12·8	9·7	+1.7	0	3	0	0	0	0	0	0	0	0	0
Interior Mysore North																														
Bidar	35·7	−1·4	39·2	27	23·1	−1·3	17·0	15	1·3	107·7	+80·5	46·3	13	4	+1·5	13·8	12·5	+2·2	0	5	0	0	2	0	0	0	0	0	0
Gulbarga	38·1	−1·6	41·0	27	23·9	−0·7	19·8	9	0	60·0	+38·9	49·0	13	2	−0·1	12·5	11·1	+0·8	0	4	0	0	7	0	0	0	0	0	0
Bijapur	37·9	−0·3	40·6	30	23·7	+0·1	20·2	15	6.8	74·4	+52·8	31·2	10	4	+2·2	3·1	3·1	−4·3	2	6	0	0	4	2	0	0	0	0	0
Raichur	37·7	−1·5	40·7	30	24·8	−1·2	18·5	11	0	153·2	+136·9	61·5	13	5	+3·6	10·5	11.7	+2·0	0	5	0	0	4	0	0	0	0	0	0
Belgaum	35·3	−1·0	38·5	5	20·4	+0·8	16·6	17	65·4	78·4	+33·9	53·0	28	5	+1·7	8·8	7·6	−0.2	0	6	0	1	4	0	0	0	0	0	0
Belgaum (Samra)	34·8	..	37·8	4	20·4	..	16·4	17	60·0	88·9	..	50·6	11	3	..	11·2	10·6	..	0	5	0	2	10	1	0	0	0	0	0
Gadag	36·7	−0·4	39·9	3	22·2	−0·2	18·7	17	6·8	135·8	+98·7	65·8	17	6	+3·2	8·7	10·2	+0·4	0	10	0	0	12	0	0	0	0	0	0
Interior Mysore (South)																														
Bellary	38·0	−1·3	41·8	30	24·7	−0·5	21·2	12	0	40·0	+18·7	15·0	12	5	+3·1	8·3	7·5	+1·2	0	7	0	0	0	0	0	0	0	0	0
Chitradurga	34·5	−1·8	37·2	5	22·6	−0·1	19·9	15	26·6	87·2	+62·6	25·2	9	6	+4·0	7·3	7·2	+0·3	0	6	0	0	8	0	0	0	0	0	0
Shimoga	35·5	−0·2	38·7	4	20·6	−1·6	15·6	189	45.8	87·2	+34·2	32·4	18	6	+2·1	5·4	4·8	−0·5	0	10	0	0	5	0	0	0	0	0	0
Agumbe	31·0	..	34·0	23	..	..	..	..	..	38·0	..	18·0	7	4	..	..	3·0	..	0	5	0	0	8	0	0	0	0	0	0
Balchonnur	31·6	+0·9	35·6	2	18·6	−0·3	16·7	8,19	..	105·6	+15·4	37·3	27	7	+0·5	..	..	..	0	12	0	2	2	0	0	0	0	0	0
Hassan	32·4	−1·2	35·2	5	19·4	−0·2	18·1	15	33·6	80·0	+24·1	22·4	15	8	+3·8	7·1	6·0	−0·3	0	13	0	0	16	3	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	ecipitation (0·1 and 0.2 mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	
Interior Mysore South—(*Contd.*)																													
Bangalore	32·1	—1·5	34·8	29	20·7	+0·1	17·6	15	23·4	122·5	+81·6	43·0	15	8	+5·4	8·1	7·7	+ ·8	0	9	0	0	14	0	0	0	0	0	
Bangalore Aerodrome	33·1	..	35·8	25	20·2	..	17·6	15	26 0	82·7	..	18·6	13	9	..	..	..	..	0	9	0	0	12	0	0	0	0	5	
Mysore	32·9	—1·9	35·8	3	20·1	—1·2	17·8	13,15	12·2	157·4	+99·0	78·6	15	7	+2·4	14·1	10·4	+2·7	0	9	0	0	4	0	0	0	0	0	
Kerala																													
Calicut	33·2	+0·4	34·2	9	25·7	—0·1	22·5	19	0	87·8	—3·1	47·2	16	5	+0·8	15·4	13·2	+2·4	0	7	0	0	6	0	0	0	0	0	
Palghat	36.3	..	38·4	3,4	24·8	..	21·6	17,19	27·4	65.4	..	23·4	15	6	..	10·9	8·7	..	0	8	0	0	9	0	0	0	0	0	
Fort Cochin	32·3	+0·9	34.4	19	25·3	—0·6	22·9	26	19·6	70·4	—55·1	35·9	8	5	—1·7	7·8	4·8	—3·7	0	11	0	0	7	0	0	0	0	0	
Cochin (Naval Air Station)	32·9	..	34·3	4	24·1	..	21.7	26	14·0	57·4	..	16·8	8	5	..	13·1	9·2	..	0	9	0	0	17	0	0	0	2	5	
Alleppey	32·9	+0·3	34·8	24	25·2	0·5	23·4	8	4·0	66·4	—96·3	24·0	3	5	—3.5	15·5	10·2	—1.9	0	16	0	0	15	0	0	0	0	0	
Punalur	34·5	..	36·6	2,4	23·3	..	22·0	6,19,22	106·6	210·1	..	45·4	10	12	..	4·7	3·1	..	0	12	0	0	0	0	0	0	0	0	
Trivandrum	32·1	—0·2	34·6	2,6	24·2	—0·9	20·3	10	27·9	208·1	+92·5	102·0	10	9	+2·1	9·2	6·1	—0·8	1	10	0	0	21	0	0	0	0	0	
Trivandrum (Aerodrome).	32·3	..	33·9	30	24·3	..	20·8	10	..	109·9	..	44·8	10	7	..	..	7·0	..	0	10	0	0	13	0	0	0	0	0	
Arabian Sea Islands																													
Amini *																													
Minicoy*																													
Hill Stations (excluding Kashmir)																													
Dalhousie	19 5	—3·3	22·5	2,10	12·2	+0·3	10·0	9	3·0	89·0	+10·2	65·0	1	4	—0·9	(c) 3·7	(b) 3·0	—3·3	0	5	0	1	0	9	0	0	0	0	
Dharmsala	27·1	+1·0	32·3	26	17·3	+0·5	11·7	2	23·5	52·2	+5·2	14·5	10	6	+2·7	7·0	6·0	—0·3	0	8	0	0	12	0	0	0	0	0	
Simla	19·4	+0·6	24·5	27	11·3	+1·0	6·3	10	22·8	28 5	—17·5	7 3	10	5	+0·9	4·8	3·5	+0·7	2	7	2	0	7	0	0	0	0	0	
Dharmpur	..	..	..	..	..	..	..	..	..	7·2	—27·9	4·0	27	1	—1·7	..	..	..	0	3	..	..	..	..	..	..	..	..	
Lokpal	0·1	..	2·3	30	—7·4	..	—9·0	3	..	96·8	..	20·0	8	8	..	..	..	..	1	12	8	10	8	24	0	24	0	0	
Badrinath	Closed during winter months																												
Joshimath	21·8	..	26·0	25	10.6	..	4·8	18	18·5	69·4	..	16·2	8	7	..	8·8	9·1	..	0	13	..	3	13	0	7	0	0	0	
Mussoorie	21·2	+0·5	23·9	12	12·4	+0·8	7·9	3,7	9·0	3.0	—30·8	3·0	8	1	—2·8	14·0	11·5	+3·1	0	1	0	0	5	0	0	0	0	0	
Mukteswar (Kumaun)	21·4	+1·5	24·5	28,29	10·3	+0·1	6·8	18	10·2	23·2	—12·6	10·6	18	2	—1·3	16·8	14·6	+3·8	2	9	0	1	13	0	0	0	0	0	
Nainital	20·7	—0·5	22·8	26	11·6	—0·5	6·7	3	8·0	10·5	—14·2	7·0	29	1	—1·0	8·3	5·3	—2·8	0	4	0	0	0	0	0	0	0	0	
Kalimpong	24·4	+1·0	29·2	16	17·0	+1·7	15.6	2,3,9	0	114 2	+44·9	45·7	8	5	—0·8	6·8	5·2	—7·5	0	5	0	0	0	0	0	0	0	0	
Darjeeling	18·5	+1·2	21·4	3	11·3	+1·0	9·0	21	102·8	189·8	+84·6	82·0	10	9	+1·5	4·2	3·4	—0·1	0	10	0	3	7	4	0	0	0	0	
Kohima	24·5	..	27.7	18	16·1	..	11·6	20	81·9	131·5	..	31.6	28	13	..	4·2	3·8	..	0	13	0	0	0	0	0	0	0	0	
Shillong	24·6	+1·1	27·8	3	15·0	+1·1	11·1	22	109·4	162·2	+32·7	29·6	19	12	+2·8	11·0	9·1	+0·7	0	12	0	0	0	0	0	0	0	0	
Cherrapunji	24·0	+2·2	25·8	14	16·7	+1·8	14·7	14,15	101.0	400·5	—265·7	77·0	30	18	+2·0	8·7	8·0	—2·6	0	17	0	0	0	0	0	0			
Abu	(h) 29·2	+0·1	..	..	19·2	—1·0	15·8	17	0	1·6	—1·2	1·6	15	1	+0·7	12·0	7·8	—1·7	0	1	0	0	1	0	0	0	0	0	
Aijal	27·7	..	30 6	16,18	17·9	..	14·2	20	29·0	89·2	..	15·2	28	9	..	20·1	(b) 21·7	..	0	11	0	0	0	0	0	0	0	0	
Pachmarhi	33·2	—0·1	37·3	26	17·9	—2·5	13·2	4	0	31·6	+22·2	22·6	13	3	+2·1	7·5	5·6	—1·2	0	5	0	0	5	0	0	0	0	0	
Mahabaleshwar	30·1	+0·4	33·4	23	17·8	—1·1	13.6	16	0	2·5	—27.5	2·5	12	1	—0·5	11·3	11·5	+0·2	0	1	0	0	1	2	0	0	0	0	
Mercara	28·5	—0·2	31·8	3	17·3	—0·4	16·0	2,7	70·6	134·4	+69·4	21·4	6	11	+5·9	8·9	7·8	+2·7	0	14	0	0	2	0	0	0	0	0	
Ootacamund	21·3	—0·6	23·9	3	11·4	+0·6	7·3	2	43·0	79·4	+2·2	22·6	19	7	+0·5	7·7	4·7	—0·6	0	8	0	0	8	0	0	0	0	0	
Coonoor (R)																													
Kodaikanal	19·3	—0.8	21·6	28	10·9	—0·8	9·0	12	70·7	170·4	+48·0	45·1	12	7	—0·7	12·4	12·2	+0·1	0	16	0	1	15	2	0	0	0	0	
Nepal																													
Katmandu	27·5	..	30·5	15	11·0	..	6·5	4	37.8	109·2	..	27·6	26	7	..	1·9	1·4	..	0	9	0	0	8	0	0	0	0	0	
Sikkim																													
Lachen	15·3	..	20·6	25	5·5	..	—1·1	1	..	56·2	..	11·2	16	9	..	..	..	..	0	15	0	0	0	0	0	0	0	0	
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	35·8	..	39·6	10	23·4	..	20·0	29	25.3	28·6	..	21·8	25	2	..	13.8	9·6	..	0	3	0	0	0	0	0	0	0	0	
Hazaribagh	33·9	..	37·8	10	20·9	..	17·1	4	16·2	19·7	..	14·8	25	2	..	12·5	8·1	..	1	5	0	0	3	0	0	0	0	0	
Konar	..	..	..	..	..	..	..	..	30·5	33·9	..	14·2	19	3	..	..	..	..	1	5	0	1	1	0	0	0	0	0	
Bokaro	36·4	..	40·1	10	21·3	..	16·6	5	24·0	35·5	..	13·6	18	3	..	12·4	8·0	..	1	4	0	0	4	0	0	0	0	0	
Maithon	36·7	..	41·4	9	23·2	..	18·3	22	19·9	29·3	..	15·0	22	3	..	..	..	..	0	5	0	0	4	1	1	0	0	1	
Ramgarh	36·9	..	40·8	10,11	21·5	..	14·6	4	11·2	12·7	..	8.8	26	2	..	6.2	3.3	..	0	3	0	0	0	0	0	0	0	0	
Panchet Hills	37·3	..	41·6	11	24·0	..	19·2	19	20.6	55.0	..	23.8	29	3	..	8.1	6·4	..	0	4	0	0	3	0	0	0	0	0	
Durgapur	37·7	..	42·2	2,10	22·4	..	17·8	22	4·0	32·5	..	12.5	29	4	..	15·6	6·1	..	0	4	0	0	0	0	0	0	0	0	
Mahanadi Catchment																													
Ginabahar	37·5	..	41·1	28	21·0	..	16 7	19	..	8.3	..	4.1	18	1	..	..	..	..	0	3	..	..	..	..	..	..	..	..	
Hirakund	38·0	..	41·6	29	25·5	..	22·1	18	3·0	6·6	..	3·6	6	2	..	7.4	5·4	..	0	2	0	0	3	0	0	0	0	1	
Bhimkund	36·6	..	40·6	2	21·9	..	18·3	19,25, 26	38·0	121·8	..	36·5	26	8	..	6.1	3·6	..	0	10	0	2	17	0	0	0	0	0	
Sonepur	38·7	..	43·3	29	25·2	..	20·0	18	..	7·4	..	3·8	30	1	..	..	7·1	..	0	4	..	..	..	..	..	..	..	..	
Khijrawan	37·0	..	41·1	30	22·8	..	18·9	16	17·0	52·0	..	16·0	5	5	..	9·6	7·3	..	0	7	0	0	0	0	0	0	0	0	

Register not received.

*Data given as addenda in December 1962 issue.

(b) Mean of 29 days.

(h) Mean of 23 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Heighest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0.3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observaetries— *(Contd.)*																													
Narmada Catchment																													
Bagra Tawa	39·6	..	43·7	27	23·2	..	17·6	4	0	8·6	..	6·0	13	1	..	7·4	4·5	..	0	3	0	0	1	0	0	0	0	0	0
Punasa	40·2	..	44·8	26	..	..	..	..	0	12·7	..	12·7	13	1	..	7·5	4·2	..	0	1	0	0	0	0	0	0	0	0	0
Thikri	40·2	..	44·6	25	24·6	..	15·7	6	..	0·5	..	0·5	10	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	38·9	..	44·0	26	22·4	..	19·2	8	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	19·1	..	22.5	26	4·6	..	0·3	3	8·3	26·7	..	7·2	15	5	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	25 2	72·0	..	18·8	21	6	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Timure	24·2	..	27·4	15	12·8	..	8·1	7	5·4	33·0	..	15 0	24	4	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Pokhara	29·6	..	33·1	15	(b) 17·2	..	13·9	16	9·0	75 0	..	39·6	28	5	..	6·0	5·9	..	1	9	0	0	12	0	0	0	0	0	0
Gorkha*																													
Nuwakot	31·3	..	33·7	15	17·3	..	14·0	19	17·4	99·8	..	37·6	30	7	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	25·9	..	28·3	9	15·1	..	11·1	27	6·9	121·9	..	72·4	28	6	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	22·8	..	25·0	16	11·9	..	8·4	18	13 0	38 0	..	12·4	21	4	..	..	..	..	0	10	0	1	15	1	0	0	0	0	0
Sallayana	26·4	...	29·5	9	16·6	..	11·5	18	28·0	48·5	..	32·0	26	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Butwal	35·3	..	37·9	2,13	23·1	..	17·7	3	8·2	61·2	..	40·0	29	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Baghmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	27·1	..	31.0	15	14·6	..	11·6	19	30 6	112·9	..	68·6	30	5	..	..	..	..	0	10	..	..	..	..	..	..	..		..
Chepua	..	..	..	..	..	..	..	..	13·2	74·4	..	14·2	8	10	..	..	..	..	2	14	..	..	..	..	..	..	..	..	..
Walungchung Gola	13·2	..	17·2	25	(b) 2·9	..	0·2	20	31·2	63·6	..	12·2	20	7	..	..	..	..	0	17	..	..	..	..	..	..	..	..	..
Taplethok	25·9	..	29 1	15	14·3	..	11·5	11	23·0	79·8	..	14·4	11	9	..	..	..	..	1	14	..	..	..	..	..	..	..	..	..
Bhojpur	24·5	..	27·2	15,17	15·7	..	11·6	20	26·0	70·0	..	34·0	29	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Taplejung	22·9	..	25·8	3	(b) 12·5	..	9·7	5	95·8	139·5	..	71.0	10	9	..	..	..	..	0	10	0	1	8	1	0	0	0	0	0
Okhaldhumga	22·2	..	26·7	13	13·4	..	9·6	20	6·2	22·5	..	8·0	25	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Chainpur	28·3	..	31·6	15	16·4	..	13·3	21	9·4	45·6	..	12·8	21	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Angbung	28·1	..	31·4	2	(b) 16·1	..	8·4	9	36·2	107·2	..	35·0	8	9	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Barahakshetra	34·9	..	38·8	14	21·8	..	17·4	4	25·5	162·7	..	102·6	29	5	..	10·3	7·5	..	0	6	0	0	8	0	0	0	0	2	0
Tista Catchment																													
Gangtok	22·7	..	26·0	15	12·7	..	10·2	19	44·3	133·6	..	25·2	11	14	..	7·1	6·9	..	0	16	0	2	12	2	0	0	0	0	0
Gezing	25·3	..	29.7	15	13·6	..	11·2	5	12·5	60·2	..	14·4	28	8	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..

*Data not available. †Data included under 'Nepal'. (b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Colud amount (Oktas): Mean amount	Colud amount (Oktas): Departure from normal	Mean wind speed, in K per hour	Wind speed (Km. p.h.): —	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Bay Islands																										
Maya Bandar	0830	28	1011·7	1008·6	..	30.1	26·1	24·4	30·5	71	..	3·5	..	2.7	0	0	22	3	4	7	1	0	0	4	3	8
	1730	,,	1008·3	1005·2	..	29·2	26·1	24·7	31·1	76	..	3·8	..	3·3	0	0	20	1	4	10	1	1	0	1	2	10
Long Island	0830	25	1011·3	1008.5	..	29·6	25·7	23·9	29·7	71	..	4·0	..	3.2	0	0	20	0	3	0	0	0	2	7	8	10
	1730	,,	1008·1	1005·3	..	28·8	25·6	24·2	30·2	75	..	4·9	..	0.4	0	0	2	0	0	0	0	0	1	0	1	28
Port Blair	0530	79	1009·9	1000·9	..	24·8	24·0	23·6	29·1	94	..	4·5	..	0·9	0	0	7	0	1	0	0	0	0	4	2	23
	0830	,,	1011·6	1002·9	+1.0	30·6	25·9	23·9	29·7	67	—6	4·5	+0·8	4·4	0	0	23	6	8	1	2	1	0	3	2	7
	1130	,,	1010·4	1001·6	..	31·5	26·0	23·5	28·9	63	..	5·3	..	7·3	0	0	30	1	8	18	1	0	0	2	0	0
	1730	,,	1008·4	999·6	..	28·5	25·1	23·6	29·1	75	..	5·5	..	1·3	0	0	8	2	2	2	0	0	0	0	2	22
	2330	,,	1010·0	1001·1	..	25·8	24·5	23·9	29·7	90	..	3·7	..	1·5	0	1	5	0	0	1	1	0	0	3	1	24
Car Nicobar	0830	10	1011·5	1010·3	..	30·0	25·9	24·1	30·0	71	..	4·6	..	4·4	0	0	27	4	14	7	1	1	0	0	0	3
	1730	,,	1008 5	1007·3	..	28·9	25·7	24·3	30·4	76	..	4·5	..	1·4	0	0	12	2	5	3	1	0	0	0	1	18
Nancowry	0830	26	1011·3	1008·4	..	30·0	26·3	24·7	31·1	73	..	3·0	..	0	0	0	0	0	0	0	0	0	0	0	0	30
	1730	,,	1008·4	1005·5	..	28·6	25·6	24·3	30·4	77	..	3·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30
Kondul	0830	8	..	..	..	29·1	26·2	24.9	31·5	78	..	4·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	27·6	25·7	24·8	31·3	84	..	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																										
Pasighat	0830	157	1010·4	992·5	..	23·2	19 5	17·1	19·5	69	..	5·6	..	10·5	0	5	21	0	0	0	0	0	0	0	25	4
	1730	,,	1005·9	988·2	..	25·8	21·4	18·8	21·7	66	..	5·7	..	4·5	0	2	6	0	0	0	0	0	0	0	8	22
Dibrugarh (Mohanbari)	0230	111	1007·7	994·9	..	20·0	18·7	17·7	20·5	88	..	5·6	..	3·2	0	0	13	0	11	2	0	0	0	0	0	17
	0530	,,	1008·8	995·9	..	19.8	18·7	17·9	20·8	89	..	5·2	..	2 2	0	0	12	3	5	2	0	0	0	2	0	18
	0830	,,	1010·3	997·6	—0·6	24·7	20·8	18·4	21·3	69	—9	4·6	—0 5	6·1	0	0	2	1	14	6	2	0	2	3	0	2
	1130	,,	1008·9	996·4	..	28·1	22·1	18·6	21·7	58	..	4·1	..	6·4	0	1	26	0	14	6	1	0	3	3	0	3
	1730	,,	1006·0	993·1	..	25·7	21·4	18·8	22·0	67	..	5·0	..	5·8	0	0	24	3	10	4	2	0	2	2	1	6
	2330	,,	1008·1	995·3	..	21·3	19·6	18·5	21·4	85	..	5·5	..	3·2	0	1	9	0	8	1	1	0	0	0	0	20
Dibrugarh (R)	0830	106																								
(R)	1730	,,																								
Digboi (R)	0830	..																								
(R)	1730	152																								
North Lakhimpur	0830	102	1010·5	998·8	0	24·9	21·1	19·0	22·0	71	—5	3·9	—1·4	3 8	0	0	29	2	14	7	2	4	0	0	0	1
	1130	,,	1008·7	997·2	..	28·5	22·1	18·5	21·3	55	..	3·6	..	5·9	0	0	30	1	9	10	5	5	0	0	0	0
	1730	,,	1005·8	994·3	..	26·1	22·1	20·0	23·4	70	..	4·5	..	5·2	0	0	24	1	17	1	3	0	1	1	0	6
Sibsagar	0830	97	1010·5	999·8	+0·4	21·9	21·6	19·4	22·5	71	—10	4·4	—1·6	3·2	0	0	20	3	16	0	0	0	1	0	0	10
	1730	,,	1006·2	995·5	..	27·2	22·8	19·9	23·2	65	..	5·7	..	4·1	0	1	18	4	11	1	1	0	1	0	1	11
Gohpur	0830	..	..	..	..	24·9	21.7	20·4	24·0	74	..	1·3		3·3	0	0	30	0	12	8	7	0	2	1	0	0
	1730	..	..	..	..	27·5	22·5	20·0	23·4	64	..	1·5		2·9	0	0	29	0	12	0	11	0	2	0	4	1
Majbat	0830	..	..	..	..	..	..	..	..	..	..	1·9	.	5·1	0	0	29	0	12	13	2	0	0	0	1	1
	1730	77	..	..	..	..	..	..	..	..	..	2·8	..	2·6	0	0	18	2	3	2	1	2	4	2	0	12
Jorhat (Aerodrome)	0530	90	1007.7	997·3	..	20.7	19·7	19·0	22·0	92	..	4.8	..	4 9	0	1	14	0	13	1	0	0	0	0	1	15
	0830	,,	1009·5	999·3	..	24·7	21·3	19·4	22·5	73	..	3·8	..	7 5	0	2	24	1	16	4	0	1	1	2	0	4
	1130	,,	1008·1	998·1	..	28·3	22·2	18 8	21·7	58	..	3·5	..	9·8	0	1	26	2	16	3	0	0	1	1	3	3
	1730	,,	1004·5	994·5	..	27·3	22·1	19·1	22·1	62	..	4·6	..	11·6	0	6	19	0	13	3	1	0	3	0	0	5
	2330	,,	1007·2	996·9	..	22·1	20·7	20·0	23·4	88	..	4·3	..	5·5	0	0	19	1	13	0	0	2	2	0	1	11
Tangla	0830	78	1008·6	1000·1	..	26·6	21·6	19·6	22·8	66	..	2·4	..	1 7	0	0	11	0	7	3	0	0	0	1	0	19
	1730	,,	1004·6 (c)	995·2 (c)	..	28·9	23·9	19·6	22·8	57	..	3·5	..	0·8	0	0	7	0	0	4	0	0	0	3	0	23
Tezpur	0830	79	1008·7 (f)	999·9 (f)	—1·8	25·7	23·2	22·0	26·4	80	+6	3·4	—0·7	10·5	0	1	26	0	16	1	7	0	1	0	0	3
	1730	,,	1005·7	996·5	..	29·4	25·7	23·8	29·5	74	..	3·8	..	5·0	0	0	17	0	6	2	3	2	4	0	0	13
Golaghat *	0830	..	..	..	..	25·2	21·7	19·8	23·1	72	.	5·3	..	0	0	0	0	0	0	0	0	0	0	0	0	24
(j)	1730	..	..	..	..	29·9	24·4	21·7	25·9	61	..	2·2	..	0	0	0	0	0	0	0	0	0	0	0	0	17
Rangia ‡	0830	..	..	..	..	27·6	22·1	19·1	22·1	60	..	1·8	..	4·3	0	0	27	0	1	18	1	0	2	5	0	1
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaparmukh	0830	66	1009·7	1002·2	..	27·1	21·9	19·0	22·0	63	..	1·9	..	3·0	0	0	30	1	0	14	4	3	1	6	1	0
	1730	,,	1004·3	997·0	..	30·8	23·3	19·3	22·4	52	..	4·2	..	4·5	0	0	3	9	0	4	0	8	0	9	0	0
Goalpara	0830	38	1009·9	1005·5	..	25·2	21·7	19·8	23·1	73	.	3·5	..	3·5	0	0	29	1	11	2	8	0	2	1	4	1
	1730	,,	1004·2	999·9	..	32·7	23 5	18·6	21·4	46	..	2·9	..	5·4	0	0	28	0	7	0	2	0	12	3	4	2
Gauhati	0830	55	1009·7	1003·4	—0·1	27·3	22·1	19·4	22·4	63	—10	2·3	—1·5	0·1	0	0	1	0	1	0	0	0	0	0	0	29
	1730	,,	1004·9	998·7		30·6	22.7	18·1	20·∞	0	..	3·6	..	1·3	0	0	12	0	3	1	0	0	5	0	3	18

(R) Register not received. (f) Mean of 24 days. (c) Mean of 28 days. *Observations for 24 days. (j) Observations for 17 days. (‡) Observations available for less 15 days than hence no means.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in geopm. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (K.m.p.h): 62 or more	Wind speed (K.m.p.h): 20 to 61	Wind speed (K.m.p.h): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variabl
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Gauhati (Bhorjor)	0230	54	1006.2	1000·0	..	22·6	20·5	19·3	22·4	83	..	2·9	..	4·6	0	0	21	3	8	0		5	3	1	0	9	0
	0530	,,	1007·5	1001·2	..	21·6	20·0	19·1	22·1	86	..	3·3	..	4·0	0	0	18	2	8	3	0	2	2	0	1	12	0
	0830	,,	1009·5	1013·3	−0·5	26·9	22·4	20·0	23·5	67	−6	3·7	−0·1	4·5	0	0	21	3	0	5	0	0	1	1	1	9	0
	1130	,,	1006·0	1001·9	..	30·4	23·2	19·3	22·4	53	..	3·4	..	8·2	0	0	30	5	8	2	0	0	3	6	6	0	0
	1730	,,	1004·3	998·2	..	29·5	23·0	19·5	22·7	57	..	4·7	..	7·6	0	0	22	1	3	1	3	4	6	4	0	8	0
	2330	,,	1006·9	1000·7	..	24·2	21·2	19·5	22·7	77	..	3·4	..	4·2	0	0	18	1	4	1	0	4	8	0	0	12	0
Dibrugarh (Rupai)	0530	36	1006·3	1002·4	..	22·6	19·9	18·2	20·9	73	..	4·3	..	5·4	0	0	24	3	9	6	1	1	1	3	0	6	0
	0830	,,	1008·6	1004·5	..	28·0	21·7	17·9	20·8	55	..	3·8	..	9·3	0	1	29	1	6	9	2	2	9	0	1	0	0
	1130	,,	1007·2	1003·2	..	32·1	22·3	15·9	17·7	41	..	3·5	..	12·9	0	4	25	1	3	5	4	5	10	4	1	1	0
	1730	,,	1005·2	999·2	..	31·2	21·5	15·9	17·7	41		3·0	..	8·3	0	2	22	0	3	2	2	1	4	6	6	6	0
Dibrugarh	0830	35	1009·9	1005·9	+0·5	27·1	21·9	19·0	22·0	63	−8	2·9	−0·9	4·6	0	1	24	1	15	0	0	3	5	0	1	5	0
	1730	,,	1004·4	1000·6	..	31·8	21·9	15·0	18·1	41	..	2·9	..	2·3	0	0	20	1	4	2	1	4	5	3	0	10	0
Lumding	0830	149	1009·3	992·6	..	27·2	23·3	21·1	25·5	71	−0	2·2	..	2·4	0	0	16	0	2	1	7	1	3	0	2	14	0
	1730	,,	1005·1	983·5	..	29·8	21·1	21·2	25·2	61	..	3·7	..	2·4	0	0	15	2	3	0	7	1	0	1	1	15	0
Tura	0830	370	1000·9	968·5	..	26·2	23·9	22·9	27·9	82	..	4·7	..	5·6	0	0	25	1	1	4	7	7	4	1	0	5	0
	1730	,,	1005·1	954·4	..	30·5	23·2	27·3	35·3	64	..	4·3	..	3·3	0	0	25	0	0	2	9	4	8	1	1	5	0
Haflong	0830	682	1000·4	934·1	..	22·6	18·7	16·5	18·8	69	..	2·9	..	15·1	0	8	22	0	3	0	0	5	22	0	0	0	0
	1730	,,	1001·7	930·0	..	25·2	20·2	17·9	20·5	61	..	4·3	..	11·4	0	2	28	1	1	0	1	2	25	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1007·9	996·8	..	21·0	19·7	18·9	21·8	89	.	3·8	..	7·6	0	1	26	0	1	25	0	0	0	1	0	3	0
	0830	,,	1009·3	998·4	..	25·2	21·6	19·7	22·9	72	..	5·3	..	5·2	0	0	25	0	0	20	4	0	0	0	1	5	0
	1130	,,	1007·7	993·9	..	29·0	23·0	19·9	23·2	59	..	2·4	..	5·6	0	0	26	1	2	3	2	4	5	6	3	4	0
	1730	,,	1004·5	993·7	..	28·1	23·2	20·3	24·6	67	..	3·9	..	6·2	0	3	18	0	0	5	0	2	4	9	1	9	0
Silchar	0530	29	1010·5	1007·3	−0·2	26·3	22·3	20·2	23·7	71	−4	3·8	−0·4	2·0	0	0	20	3	6	5	4	1	0	1	0	10	0
	1730	,,	1006·0	1002·7	..	28·6	23·9	21·5	25·6	67	..	3·4	..	2·2	0	0	18	2	2	2	2	2	1	3	4	12	0
Imphal (Tulihal)	0530	781	1011·0	923·6	..	17·4	16·0	15·1	17·1	88	..	4·8	..	1·4	0	0	6	0	0	0	1	0	2	2	1	24	0
	0830	,,	1011·0	925·0	−0·2	22·0	18·2	15·9	18·2	70	+7	3·8	+0·5	3·1	0	0	18	0	1	2	6	3	2	2	2	12	0
	1130	,,	1008·7	923·8	..	25·9	19·6	15·9	18·3	56	..	4·3	..	11·3	0	5	24	1	0	0	0	5	1	5	7	1	0
	1730	,,	1005·9	921·0	..	24·5	19·0	15·6	17·9	59	..	5·0	..	7·9	0	1	25	0	0	0	0	2	11	15	8	4	0
	2330	,,	1009·4	922·9	..	20·0	17·8	16·5	18·8	81	..	4·1	..	4·1	0	1	14	0	0	0	1	4	2	5	3	15	0
Kailashahar	0530	29	1009·1	1005·8	..	22·1	21·2	20·8	24·6	92	..	4·3	.	1·0	0	0	9	0	1	1	0	5	1	1	0	21	0
	0830		1010·8	1007·5	..	26·9	23·3	21·6	25·8	73	..	3·8	..	5·2	0	1	25	1	3	4	0	13	2	1	2	4	0
	1130	,,	1009·1	1005·9	.	31·4	24·7	20·8	24·6	57	..	4·5	..	6·6	0	0	29	3	2	1	0	12	2	7	2	1	0
	1730	,,	1006·1	1002·8	..	29·0	23·8	21·1	25·0	64	..	4·2	..	6·8	0	3	13	3	3	1	0	5	3	1	0	14	0
Agartala	0230	16	1006·1	1004·3	..	24·1	22·6	21·9	26·3	86		3·0	.	8·9	0	1	20	1	0	1	6	13	0	0	0	9	0
	0530	,,	1007·4	1005·6	..	23·5	22·5	21·9	26·4	91	..	4·3	..	7·2	0	0	23	0	1	2	9	10	0	0	1	7	0
	0830	,,	1009·3	1007·5	+0·3	28·2	24·5	22·9	27·6	73	+2	4·1	+0·2	13·0	0	4	24	2	2	1	3	18	0	0	2	2	0
	1130	,,	1008·0	1006·3	..	32·3	24·7	20·9	24·9	52	..	3·8	..	14·3	0	7	23	3	1	0	5	12	8	1	0	0	0
	1730	,,	1004·9	1003·2	..	29·3	23·9	21·2	25·0	64	..	4·0	..	16·9	1	9	18	2	3	0	8	9	3	3	0	2	0
	2330	,,	1007·3	1005·5	..	25·0	23·1	22·3	26·6	85	..	3·7	..	12·2	0	5	20	1	2	2	3	16	1	0	0	5	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1005·5	990·6	..	22·9	19·3	17·0	19·4	70	..	3·1	..	7·3	0	0	26	10	6	3	0	1	4	1	1	4	0
	0530	,,	1006·8	991·8	..	20·4	18·3	17·0	19·4	81		4·4	..	7·1	0	0	27	10	7	7	1	0	1	0	1	3	0
	0830	,,	1008·8	994·1	+0·3	27·3	21·3	17·9	20·5	56	−2	4·3	+1·5	13·3	0	6	23	0	3	19	4	1	0	0	0	1	2
	1130	,,	1007·6	992·9	..	31·1	22·9	18·4	21·1	49	..	4·2	..	12·7	0	2	28	1	2	11	7	3	2	1	2	0	1
	1730	,,	1003·6	989·0	..	30·4	22·7	18·5	21·3	51	..	4·0	..	8·9	0	2	22	1	4	5	1	3	8	1	1	6	0
	2330	,,	1006·2	991·4	.	24·7	20·2	17·4	19·4	65	..	3·2	..	7·1	0	1	23	11	2	5	2	1	1	1	1	6	0
Jalpaiguri	0830	83	1009·1	999·7	+0·1	24·7	20·3	17·7	20·2	65	−5	2·9	+0·3	7·1	0	2	23	1	8	9	4	0	1	0	2	5	0
	1730	,,	1003·6	994·5	..	30·9	22·1	17·0	19·4	45	..	2·7	..	8·9	0	1	28	4	5	4	3	1	5	4	3	1	0
Cooch Behar	0830	43	1009·2	1004·4	..	27·0	21·5	18·6	21·4	61	..	4·0	..	10·5	0	2	26	0	2	13	5	2	4	0	2	2	0
	1130	,,	1007·8	1003·1	..	31·2	22·7	18·2	20·9	47	..	3·8	..	12·5	0	4	25	1	1	7	7	4	1	3	2	1	3
	1730	,,	1003·9	999·2	..	30·9	22·5	17·9	20·5	47	..	3·3	..	5·1	0	0	23	2	3	3	2	2	1	5	5	7	0
Balurghat	0830		..	..	..	28·3	21·7	18·0	20·6	55	..	1·5	..	4·0	0	0	29	1	1	4	7	6	8	1	1	1	0
	1730	..	..	..	..	33·6	21·6	14·0	16·0	33	..	2·1	..	3·4	0	0	27	0	2	0	4	4	7	9	1	3	0
Malda	0830	31	1008·7	1005·1	+0·7	29·5	21·7	17·4	19·9	51	+1	3·4	+1·5	8·0	0	0	30	1	3	7	2	7	5	3	2	0	0
	1730	,,	1004·1	1000·6	..	33·3	21·9	15·2	17·3	35	..	2·7	..	4·9	0	0	27	1	0	4	4	4	3	4	7	3	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
Gangetic West Bengal																											
Berhampore	0830	19	1007.3	1005·1	−1·0	28·3	22·7	19.7	22·9	61	−3	2·3	−0·9	5·0	0	0	27	2	0	7	0	7	7	4	0	3	0
	1730	,,	1003·7	1001.5	..	32·6	22·7	17·1	19·5	42	..	3·6	..	6·0	0	0	27	0	1	4	1	15	1	4	1	3	0
Puri	0830	77	..	..	..	29·4	21·4	16·7	19·0	47	..	3.6	..	5·8	0	0	30	1	2	5	3	8	2	8	1	0	0
Asansol	0230	126	1005.8	991 6	..	26·2	21·3	18·7	21·6	65	..	1.0	..	4·1	0	0	15	0	1	3	3	2	1	4	1	15	0
	0530	,,	1006·8	992.5	..	24.5	20·6	18.4	21·1	71	..	2·2	..	4·1	0	1	14	0	1	3	3	2	1	3	2	15	0
	0830	,,	1008·5	994·4	+0·8	29·5	22·5	18.9	21·8	53	+3	1.5	−0.7	8·7	0	0	27	1	1	4	8	1	2	3	7	3	0
	1130	,,	1007·6	993·7	..	34·5	23·4	17.2	19.6	38	..	2·2	..	8·5	0	2	23	2	2	5	4	1	0	7	4	5	0
	1730	,,	1004·1	990.3	..	33·3	22·8	16·9	19·3	39	..	4.0	..	11·6	0	4	19	1	3	4	2	0	2	6	5	7	0
	2330	,,	1006·7	992.5	..	27·3	21·7	18·8	21·7	60	..	2.2	..	6·8	0	1	16	0	0	3	4	4	3	2	1	13	0
Shanti Niketan	0830	59	1009·1	1002·5	..	29·6	21·9	17·5	20.0	51	..	2·3	..	9·9	0	0	27	0	2	2	5	6	7	2	3	3	0
	1130	,,	1008·1	1001.6	..	34·2	21·9	14.0	16 0	33	..	2·9	..	8·0	0	0	30	2	3	0	7	5	4	3	6	0	0
	1730	,,	1004·4	997·9	..	33·8	21·6	13·9	15·9	33	.	3·9	..	7·0	0	0	29	1	3	2	5	3	8	4	3	1	0
Krishnanagar	0830	15	1010·6	1008·9	+2·4	29·7	24.5	22·1	26·6	65	0	1·6	−1.2	2.0	0	0	19	0	1	0	0	12	5	0	1	11	0
	1730	,,	1004·5	1002·9	..	33·7	23·3	17·7	20·2	41	..	2·9	..	3·0	0	0	26	0	0	0	1	21	3	1	0	4	0
Purulia	0830	255	1008·5	980.4	+0·4	29·3	20.6	15·1	17·1	44	+7	2·1	+0·5	3·5	0	0	27	0	1	0	9	1	4	0	9	3	3
	1730	,,	1003.9	976·3	..	32·9	21.3	13·9	15·9	35	..	4.8	..	4·6	0	0	29	0	5	0	6	0	6	2	9	1	1
Burdwan	0830	32	1008·2	1004·6	..	30·2	23.0	19.2	22·2	52	−16	1.2	−1·7	0.9	0	0	4	1	0	1	0	1	1	0	0	26	0
	1730	,,	1004·1	1000·6	..	32·6	23·3	18·3	21.0	41	..	2·5	..	8·8	0	3	13	2	1	3	3	5	2	0	0	14	0
Barrackpore (Aerodrome)	0530	7	1006·9	1006·1	..	24 4	22·3	21·2	25·2	83	..	2·8	..	3.9	0	0	15	0	1	1	0	11	2	0	0	15	
	0330	,,	1008·8	1008·0	+0·3	29·2	24·0	21·5	25·6	62	−6	3·2	+0·9	11·0	0	1	27	0	2	2	4	7	9	2	2	2	0
	1130	,,	1008.1	1007·4	..	33·2	24·1	19·4	22·5	45	..	2·6	..	10·1	0	1	27	0	1	1	3	7	6	6	3	2	1
	1730	,,	1004·9	1004·2	..	31·5	23·3	18·9	21·8	50	..	4·2	..	13·7	0	5	24	1	2	4	2	16	2	1	1	1	0
	2330	,,	1007·0	1006·2	..	25·8	22·5	20.9	24.7	75	..	2·8	..	7·8	0	0	23	0	0	2	2	12	5	1	1	7	0
Calcutta (Dum Dum)	0230	6	1005·8	1005·1	..	25 0	23·3	22.4	27.1	86	..	2·5	..	5·9	0	0	24	1	0	3	3	13	2	2	0	6	0
	0530	,,	1006·6	1005·9	..	24·2	23·1	22.5	27·3	90	..	3·4	..	3·9	0	0	19	0	2	1	3	9	2	2	0	11	0
	0830	,,	1008·8	1008·1	−0·1	29·2	25·2	23·4	28 8	71	+1	3·3	+0 2	7.7	0	1	28	1	1	1	2	13	9	2	0	1	0
	1130	,,	1007·9	1007·2	..	33·4	25·8	22·3	26·9	54	..	2·9	..	8·1	0	0	29	1	1	1	5	10	2	9	0	1	0
	1730	,,	1004·9	1004.2	.	30·9	24·9	21·7	25·9	61	..	4·1	..	10·6	0	0	28	1	1	1	2	14	7	2	0	2	0
	2330	,,	1006·8	1006.1	..	26·0	23·5	22·3	26·9	81	..	3·2	..	8·6	0	2	25	1	1	1	4	14	5	1	0	3	0
Calcutta (Alipore)	0330	6	1008·6	1007·9	+0·2	29·6	25·0	22·9	27.9	67	−6	3·3	+0.3	8·6	0	0	29	0	1	0	3	7	14	3	1	1	0
	1130	,,	1007·6	1006·9	..	34 1	25·3	21·1	25.0	47	..	3·2	..	7·2	0	1	29	3	0	0	4	8	7	8	0	0	0
	1730	,,	1004·8	1004·1	..	31·3	24·4	21·0	24.9	57	..	3·8	..	13.3	0	5	24	0	2	1	1	17	5	2	1	1	0
Midnapore	0830	45	1008·5	1003·4	+0·3	28·5	23·2	20·4	24.0	62	−2	1.7	−0.4	4·0	0	0	26	1	1	2	0	14	5	1	2	4	0
	1730	,,	1004·5	999·5	..	32·5	24·0	19·7	22.9	49	..	4·0	..	8·3	0	1	26	1	2	0	1	16	4	1	1	3	1
Contai	0830	11	1008·7	1007·5	+0·4	29·6	20.7	23·9	29·7	72	+1	2·0	−1·0	7·0	0	0	29	1	1	0	2	10	13	0	2	1	0
	1730	,,	1005.2	1004·0	..	29·0	25·7	24.3	30·4	75	..	2.2	..	8.5	0	0	29	0	0	0	6	15	6	0	2	1	0
Sagar Island	0830	3	1008·6	1008·3	0	28·9	26·1	24.9	31·5	80	+6	4·0	−0·4	26·5	0	20	10	0	0	0	3	13	10	2	2	0	0
	1730	,,	1005·2	1004·9	..	28·7	26·0	24·8	31·3	81	..	4·2	..	30 6	0	26	4	0	1	0	3	16	9	0	1	0	0
Sandheads	0530	10	1007·0	1005·8	..	26·9	25·6	25·0	31·7	84	..	3.6	..	18·6	0	13	16	0	0	0	2	6	19	2	0	1	0
	0830	,,	1009·1	1008·0	−0·4	28·4	25·8	24·7	31·1	81	+3	3·1	0	18·4	0	9	21	0	0	0	1	4	22	3	0	0	0
	1130	,,	1008·8	1007·7	..	28·9	25·9	24·7	31·1	78	..	3·1	..	19·1	0	13	16	0	0	0	0	5	23	1	0	1	0
	1730	,,	1005·7	1004·6	..	28·3	25·9	25·0	31·7	82	..	3.7	..	20·2	0	12	18	0	0	0	1	10	17	1	1	0	0
	2330	,,	1007·3	1006·2	..	27·6	25·5	24·7	31·1	84	..	1.1	..	19.8	0	10	20	0	1	1	0	5	19	3	1	0	0
Orissa																											
Baripada	0830	54	1009·4	1003·3	..	29·7	23·6	20·5	24·1	60	..	1·3	..	4·0	0	0	26	3	3	2	5	5	5	3	0	4	0
	1730	,,	1005·7	999.7	..	31·5	23·5	19·5	22·7	52	..	3.9	..	6·1	0	0	29	5	2	3	12	3	3	0	1	1	0
Jharsuguda	0230	230	1005·7	980·0	..	25·8	19·8	16·0	18·2	56	..	2.8	..	2.8	0	0	16	1	5	1	6	2	1	0	0	14	0
	0530	,,	1006·8	980·9	..	24·5	20·1	17·4	19·9	64	..	3.1	..	2·0	0	0	9	0	2	2	3	0	1	1	0	21	0
	0830	,,	1008·5	983·0	+0·2	29·2	21·3	16·6	18·9	48	+8	2 0	+0·1	6·9	0	0	23	0	2	4	4	4	1	7	1	7	0
	1130	,,	1007.5	982·3	..	34·3	22·0	14·4	16·4	31	..	2·0	..	9.1	0	0	29	4	0	0	1	2	8	12	2	1	0
	1730	,,	1003·0	978.0	..	34.4	21.7	13·7	15·7	32	..	4·5	..	6·4	0	1	24	2	1	1	2	6	2	8	3	5	0
	2330	,,	1006·5	980·8	..	27.7	20.8	16·6	18·9	52	..	3·7	..	4·9	0	1	17	1	2	2	5	4	1	3	0	12	0
Keonjhargarh	0830	463	1005.7	955.1	..	28.7	23.9	23·6	29.1	68	..	2·1	..	4·4	0	0	29	4	3	1	7	1	2	7	4	1	0
	1730	,,	1001.3	951.5	..	32.0	24.7	21·5	25·6	57	..	4·3	..	4·0	0	0	30	2	2	4	4	2	2	4	10	0	0
Balasore	0830	20	1008·3	1006·1	0	30.3	25·2	22·9	27·9	67	−2	2·8 (c)	+0·2	12·6 (c)	0	4	24	2	1	2	0	12	11	0	0	0	0
	1730	,,	1004.6	1002.4	..	30.8	25·4	22·9	27·9	65	..	5·1 (c)	..	14·8 (c)	0	8	19	1	2	1	9	10	4	0	0	1	0

(c) Mean of 28 days.

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	26	26	27	28
Orissa—(*Contd.*)																											
Sambalpur	0830	148	1008·6	992·1	+0·3	30·4	21·8	16·8	19·1	45	—3	1·5	—0·4	1·0	0	0	8	0	1	0	0	2	3	0	2	22	0
	1730	,,	1003·3	987·2	..	35·0	22·2	14·3	16·3	31	..	3·0	..	1·7	0	1	5	0	1	0	0	2	1	1	1	24	0
Angul	0830	139	1009·1	993·6	+0·6	29·0	23·4	20·6	24·3	61	0	2·7	—0·1	3·7	0	0	26	2	5	5	5	0	3	5	1	4	0
	1730	,,	1004·1	989·0	..	34·5	24·5	21·3	25·3	41	..	4·7	..	9·6	0	4	22	2	2	3	10	4	0	3	2	4	0
Cuttack	0830	27	1009·4	1006·4	+0·4	29·2	25·3	23·5	28·9	71	+1	3·1	0	5·5	0	0	17	0	0	1	0	0	15	1	0	13	0
	1730	,,	1005·1	1002·1	..	31·8	25·2	22·1	26·6	57	..	4·9	..	10·7	0	1	25	0	0	0	2	4	19	1	0	4	0
Chandbali	0830	6	1009·2	1008·5	+0·2	28·7	25·2	23·6	29·1	74	+2	3.3	+0·1	5·6	0	0	25	0	0	0	3	1	17	3	1	5	0
	1730	,,	1005·8	1005·1	..	30·8	25·4	22·9	27·9	64	..	3·9	..	12·3	0	3	27	0	0	2	17	4	4	1	2	0	0
Bolangir	0830	190	1008·7	987·7	..	30·3	22·8	18·7	21·6	51	..	2·2	..	2·9	0	0	30	3	1	0	3	10	9	2	2	0	0
	1730	,,	1004·2	983·4	..	36·4	23·7	16·6	18·9	32	..	3·6	..	2·7	0	0	30	9	4	0	1	4	2	4	6	0	0
Phulbani	0830	464	1006·4	955·6	..	28·2	21·3	17·7	20·2	53	..	1·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1002·0	952.2	..	33·1	21·4	14·8	16·8	34	..	2·8	..	2·9	0	1	9	0	1	2	3	0	3	1	0	20	0
Titlagarh	0830	211	..	..	..	34·0	29·7	28·3	33·5	74	..	..	..	3·0	0	0	30	0	19	0	1	4	4	1	1	0	0
	1730	,,	..	..	..	37·3	31·1	28·8	39 6	66	..	..	..	3·0	0	0	30	0	26	0	1	0	1	1	1	0	0
Bhubaneswar	0230	46	1006·5	1001·3	..	26.1	24·1	23·2	28·4	84	..	3·8	..	14.7	0	8	15	0	0	0	2	7	10	3	1	7	0
	0530	,,	1007·2	1002.0	..	25·3	23·5	22·6	27·4	85	..	5·0	..	12·9	0	7	19	1	0	0	1	9	15	0	0	4	0
	0830	,,	1009·1	1003·9	+0·1	29·2	24·7	22·6	27·4	67	—1	3·6	+0·6	18·4	0	12	18	0	0	1	0	12	13	4	0	0	0
	1130	,,	1008·2	1003·0	..	34·2	25·1	20·7	24·4	46	..	2·5	..	18·1	0	11	17	2	0	0	0	9	13	2	2	2	0
	1730	,,	1005·1	999·9	..	30·2	24·5	21·7	25·9	61	..	5·4	..	27·5	0	18	12	1	0	1	0	16	10	0	2	0	0
	2330	,,	1007·8	1002·6	..	26·7	23·9	22·5	27·3	79	..	3·6	..	18·0	0	12	16	0	2	2	1	6	15	2	0	2	0
Puri	0830	6	1009·5	1008·8	+0·5	28·5	26·1	25·1	31·9	82	+2	4·4	+1·2	21·3	0	13	17	0	0	0	0	1	27	2	0	0	0
	1730	,,	1005·9	1005·2	..	28·2	25·9	24·9	31·5	83	..	6·1	..	27·2	0	23	7	0	0	0	0	7	22	1	0	0	0
Gopalpur	0530	17	1007·3	1005·4	..	25·5	24·4	23·9	29·7	91	..	3·4	..	15·1	0	7	19	1	1	0	0	5	17	2	0	4	0
	0830	,,	1009·5	1007·5	+0·6	27·8	25·4	24·3	30·4	81	+3	2·2	+0 6	13·8	0	8	15	0	0	0	1	9	13	0	0	7	0
	1130	,,	1008·8	1006·9	..	30·1	26·3	24·7	31·1	73	..	1·8	..	23·0	0	17	13	0	0	0	1	14	14	1	0	0	0
	1730	,,	1005·8	1003·9	..	27·5	25·6	24·7	31·1	86	..	5 0	..	29·1	0	25	4	0	0	0	0	10	18	0	1	1	0
	2330	,,	1007·6	1005·7	..	26·3	24·9	24·3	30·4	88	..	2·7	..	20·9	0	15	14	0	0	0	1	9	18	1	0	1	0
Koraput	0830	913	1524·8	911·4	+0·7	26·6	19·5	15·4	17·5	53	—10	2·3	+0·2	8·1	0	2	28	2	1	0	0	6	15	3	3	0	0
	1730	,,	1490·4	907·2	..	29·0	19·4	13·5	15·5	41	..	5·3	..	6 3	0	1	29	4	2	2	0	5	4	8	5	0	0
Bihar Plateau																											
Dumka	0830	149	1008·4	991·8	+0·7	29·7	22·8	19·2	22·2	55	+8	1·6	0	4·1	0	0	18	0	0	0	6	3	2	6	1	12	0
	1730	,,	1003·9	987·6	..	33·3	23·1	17·7	20·2	43	..	3·2	..	5·6	0	0	24	0	1	1	3	2	5	10	2	6	0
Daltonganj	0830	221	1007·7	983·2	0	29·0	20·4	14.9	16·9	41	+2	2·4	+1·1	0·5	0	0	1	0	0	0	1	0	0	0	0	29	0
	1730	,,	1002·5	978·5	..	35·0	20·5	10.1	12·3	22	..	2·5	..	4·9	0	0	21	2	6	0	1	2	1	2	7	9	0
Hazaribagh	0830	611	1007·6	941·0	0	28·1	18·6	12·5	14.5	40	+12	2·2	+0·4	8·7	0	0	23	1	0	1	1	7	3	5	5	7	0
	1730	,,	1003·4	937·7	..	30·8	18·6	10·3	12·5	30	..	3·2	..	12·3	0	3	26	2	6	2	1	2	3	2	11	1	0
Dhanbad	0830	257	1007·7	979·1	..	29·1	21·9	17·9	20.5	51	..	1·6	..	4·7	0	0	29	1	1	1	9	2	2	6	7	1	0
	1730	,,	1003·4	975·2	..	32·5	22.3	17·0	19·4	41	..	4·1	..	6·2	0	0	23	2	1	2	1	3	1	1	7	7	5
Ranchi	0830	655	1008·1	936·8	+0·8	27·7	20·6	16·8	19·1	52	+16	2·9	+1·1	2·4	0	0	18	2	0	2	2	5	3	0	4	12	0
	1730	,,	1007·4	936·3	..	28·3	19·6	14·5	16·5	42	..	3·7	..	3·1	0	0	26	1	8	0	1	3	4	0	9	4	0
Ranchi Aerodrome	0530	652	1007·0	935·0	..	22·1	16.8	13·3	15·3	59	..	2·2	..	3·5	0	0	24	1	1	2	0	2	6	7	5	6	0
	0830	,,	1007·6	936·7	..	27·5	18·8	13·3	15·3	42	..	2·2	..	7.8	0	0	26	2	1	2	0	5	8	3	5	4	0
	1130	,,	1006·3	936·4	..	31·4	19·7	12·2	14·2	32	..	2·9	..	9.7	0	0	26	3	1	0	1	5	7	3	6	4	0
	1730	,,	1003·1	933·1	..	29·5	19·1	12·5	14·5	34	..	(m) 4·5	..	(m) 8·7	0	0	16	2	2	2	2	1	1	3	3	2	0
Jamshedpur	0830	129	1008·4	994·0	+0·2	29·3	21·4	16·7	19·0	48	+2	2·0	+0·2	6·3	0	0	29	1	1	4	0	1	3	13	6	1	0
	1730	,,	1003·5	989·4	..	33·9	21·3	13·1	15·1	31	..	4·1	..	5·3	0	0	28	0	0	6	2	2	2	10	6	2	0
Jamshedpur (P.B.O.)	0530	142	1006·7	990·6	..	24·4	20·4	18·1	20·8	69	..	2·6	..	3·5	0	0	21	1	6	0	0	3	3	4	4	9	0
	0830	,,	1008·4	992·6	..	29·3	21·8	17·5	20·0	50	..	2·2	..	5·2	0	0	24	0	5	0	1	1	8	6	3	6	0
	1130	,,	1007·0	991·5	.	34·8	23·2	16·6	18·9	35	..	2·3	..	9·5	0	1	28	1	3	1	4	6	6	6	2	1	0
	1730	,,	1003.4	987·9	..	33·5	22·1	15·3	17·4	36	..	4·7	..	8·1	0	2	22	1	3	5	4	0	3	3	5	6	0
	2330	,,	1006·6	990·7	..	27·4	21·5	18·1	20·8	58	..	2·6	..	6·0	0	0	23	0	6	5	1	3	3	3	2	7	0
Chaibasa	0830	226	1008·2	983·0	+0.3	29·4	21·3	16·5	18·8	46	—7	2.3	+0·5	4·9	0	0	28	0	5	0	5	0	16	0	2	2	0
	1730	,,	1003·4	987·6	..	32·8	20·9	13·2	15·1	33	..	4.6	..	5·9	0	0	27	0	9	0	4	0	10	0	4	3	0
Bihar Plains																											
Motihari	0830	66	1008·8	1001·3	+1·7	30·1	23·7	20·5	24·1	56	+12	(e) 3·5	+2·4	(f) 2·5	0	0	8	0	1	7	0	0	0	0	0	17	0
Forbesganj	1730	,,	1003·8	996·4	..	31·7	23·4	19·1	22·1	48	..	(e) 3·9	..	(e) 2·7	0	0	11	0	1	2	2	0	2	0	3	15	0
	0830	61	1008·4	1001·5	..	26·9	20·3	16·3	18·5	53	..	3·1	..	6·9	0	0	27	2	1	12	5	0	0	6	1	3	0
	1730	,,	1003·4	996·7	..	32·7	21·0	13·3	15·3	33	..	3·0	..	6·6	0	0	28	1	1	4	4	0	1	16	1	2	0

(m) Mean of 18 days. (e) Mean of 26 days. (f) Mean of 25 days

Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in cm. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km p.h.): 62 or more	Wind speed (Km p.h.): 20 to 61	Wind speed (Km p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Other Plains—(Contd.)																											
Bareilly	0830	49	1003·5	1002·9	+0·8	30·1	21·5	16·4	13·6	43	−13	1·3	−0·1	4·3	0	0	28	1	4	13	0	1	2	4	3	2	0
	1730	,,	1004·1	993·7	..	32·3	21·9	15·5	17·6	36	..	1·8	..	2·7	0	0	27	0	2	6	1	0	1	13	4	3	0
Gorgha	0830	..	..	..	..	29·4	20·7	15·0	17·0	43	..	2·4	..	7·7	0	0	30	0	3	5	4	0	9	1	3	0	0
	1730	..	..	..	..	33·0	21·7	13·9	15·9	32	..	2·1	..	3·3	0	0	26	1	5	3	2	0	3	2	10	4	0
[illegible]	0830	38	1008·9	1004·7	+0·9	23·4	20·7	16·0	18·2	49	−11	2·7	+0·5	4·8	0	0	26	0	2	8	6	0	3	6	1	4	0
	1730	,,	1004·1	999·9	..	32·4	21·2	14·1	16·1	35	..	2·5	..	4·1	0	0	23	2	1	6	1	0	2	11	0	7	0
Patna	0830	53	1007·8	1001·9	+0·4	28·6	20·1	14·6	16·6	44	0	2·6	+1·3	3·6	0	0	30	1	3	6	1	0	5	9	0	0	0
	1730	,,	1003·6	997·0	..	34·2	21·2	12·6	14·6	27	..	2·6	..	7·7	0	0	28	1	0	2	0	0	2	12	2	2	0
Patna Aerodrome	0530	60	1005·3	998·5	..	28·5	18·3	15·2	17·3	59	..	2·5	..	5·2	0	0	31	0	2	7	1	0	5	5	1	9	0
	0830	,,	1007·6	1000·9	..	29·1	20·6	15·3	17·4	44	..	2·3	.	12·9	0	2	29	0	5	7	3	0	4	7	4	0	0
	1130	,,	1007·0	1000·4	..	33·7	21·4	15·5	15·5	32	..	2·5	..	16·9	0	7	23	1	4	7	1	0	0	12	5	0	0
	1730	,,	1003·2	996·6	..	34·2	20·9	11·9	13·9	28	..	2·4	..	10·6	0	0	25	2	1	6	1	0	1	7	9	0	0
	2330	52	1005·8	1000·0	..	26·5	19·8	15·6	17·7	54	..	1·0	..	3·8	0	0	19	0	4	6	0	0	0	9	0	11	0
Bhagalpur	0530	49	1006·7	1001·1	..	25·1	18·9	14·9	16·9	55	..	2·5		10·1	0	0	27	0	0	2	4	4	6	3	2	3	0
	0830	,,	1003·7	1000·2	+0·8	29·3	21·1	16·2	18·4	47	0	2·6	+1·1	9·7	0	0	23	0	2	6	6	2	6	5	1	2	0
	1130	,,	1003·0	1002·6	..	34·0	21·7	13·9	15·9	32	..	2·9	..	14·3	0	9	20	0	4	5	7	0	0	11	4	1	0
	1730	,,	1004·1	998·7	..	35·3	21·1	13·0	15·0	31	..	3·1	..	11·2	0	2	27	0	3	6	2	0	1	12	5	1	0
	2330	,,	1006·5	1001·0	..	27·7	20·9	15·0	17·0	43	..	1·9	..	3·0	0	0	24	0	0	3	6	6	4	4	1	6	0
Sabour	0530	37	1003·3	1001·1	+0·6	28·6	23·9	21·6	25·8	65	+22	2·4	−0·5	9·8	0	1	29	1	1	10	2	2	0	13	1	0	0
	1730	,,	1003·6	999·5	..	33·8	25·0	22·3	26·9	52	..	3·1	..	9·2	0	0	28	1	1	6	3	0	0	5	12	2	0
Banaras	0830	82	1003·8	999·5	..	31·6	23·9	20·0	23·4	51	..	2·4	..	4·5	0	0	27	0	2	4	8	0	0	1	12	3	0
	1730	,,	1004·3	995·1	..	34·0	23·9	18·6	21·4	42	..	2·7	..	5·3	0	0	29	1	2	2	4	2	2	2	14	1	0
[illegible]	0830	107	1007·5	995·5	..	30·1	20·7	14·8	16·9	40	..	2·2	..	4·1	0	0	30	1	0	6	5	6	7	5	0	0	0
	1730	,,	1002·6	991·0	..	35·6	22·3	14·1	16·1	29	.	2·0	..	3·9	0	0	30	3	10	2	1	1	1	12	0	0	0
[illegible]	0230	116	1005·8	992·6	..	21·7	19·2	15·7	17·3	58	.	1·7	..	4·7	0	0	22	0	0	4	5	4	6	1	2	3	0
	0530	,,	1006·1	992·8	.	25·5	18·8	15·7	17·8	62	..	1·7	..	5·2	0	0	26	0	0	2	9	5	3	1	1	4	0
	0830	,,	1003·0	995·0	+0·7	30·6	22·4	17·8	20·4	48	+26	2·4	+1·1	10·4	0	4	26	1	0	7	4	0	9	6	3	0	0
	1130	,,	1007·3	991·6	..	35·2	23·6	17·2	13·6	36	..	2·7	..	15·4	0	8	22	4	1	7	3	0	2	7	6	0	0
	1730	,,	1003·6	990·9	..	34·9	23·6	17·4	19·9	33		2·5	..	13·9	0	6	24	5	3	6	1	0	2	4	9	0	0
	2330	,,	1006·3	993·2		25·8	20·4	16·5	18·8	54	..	1·2	..	6·9	0	0	27	1	0	8	4	5	6	3	0	3	0
Uttar Pradesh (East)																											
[illegible] (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1007·5	993·6	+0·6	27·6	19·5	14·1	15·8	44	−1	2·1	+1·1	6·2	0	1	23	1	0	8	3	0	0	9	3	6	0
	1730	,,	1004·1	999·7	..	33·3	21·1	12·9	15·1	31	..	1·6	..	4·7	0	0	24	0	0	9	1	0	0	9	5	6	0
Gautanwa	0830	99	1007·1	995·8	..	24·3	19·5	16·7	13·8	64	..	0·5	..	3·1	0	0	24	3	4	9	4	1	1	1	1	6	0
	1730	,,	1004·4	993·4	..	33·6	21·3	12·6	15·2	32	..	0·3	..	5·3	0	0	29	0	5	4	2	2	5	4	7	1	0
Hardoi	0830	142	1007·5	991·5	+0·1	27·2	19·9	15·0	17·3	43	+8	1·2	−0·2	..	0	0	21	2	0	9	4	0	2	2	2	9	0
	1730		1003·0	987·5	..	36·2	22·7	14·2	16·5	27	..	0·8	..	..	0	0	17	3	0	0	0	0	5	3	6	13	0
Gonda	0830	110	1007·6	995·3	..	28·9	20·0	14·4	16·1	42	+10	1·5	+0·1	3·7	0	0	23	2	0	10	1	0	0	5	5	7	0
	1730		1003·4	991·4	.	34·4	21·8	13·7	15·9	29	..	0·9	..	2·9	0	0	23	1	1	7	0	0	0	4	10	7	0
Lucknow	0830	111	1007·7	995·2	+0·6	26·6	19·5	14·8	16·9	47	+11	3·3	+2·1	3·3	0	0	28	3	6	1	6	0	5	4	3	2	0
	1730	,,	1003·9	991·8		34·9	22·1	13·5	16·1	30	..	1·5	..	1·9	0	0	16	0	0	1	1	0	2	9	3	14	0
Lucknow (Amausi)	0230	128	1004·8	990·3	..	23·9	18·2	14·2	16·3	55	..	2·0	..	7·1	0	3	21	0	2	7	2	4	2	2	5	6	0
	0530		1005·5	990·9	..	21·9	17·3	14·0	16·1	61	..	2·4	..	6·0	0	1	22	1	3	5	1	1	5	5	2	7	0
	0830	,,	1007·5	993·2	+0·4	28·5	20·2	14·8	16·9	44	+19	1·5	+0·3	14·1	0	10	19	1	1	7	4	2	6	4	4	1	0
	1130	,,	1007·0	993·0	.	34·7	22·0	14·1	16·1	31	..	1·5	..	16·1	0	11	19	1	0	5	6	1	3	8	6	0	0
	1730	,,	1003·8	989·0	..	35·6	22·0	13·5	15·4	27	..	1·8	..	12·1	0	4	24	1	2	3	2	1	0	8	11	2	0
	2330	,,	1005·6	991·2	..	26·1	19·1	14·5	16·4	49	..	1·7	..	7·9	0	1	20	0	1	8	2	2	1	4	3	9	0
Faizabad	0830	102	1007·5	996·1	..	27·5	20·0	14·9	17·3	47	..	2·0	..	4·5	0	0	25	2	2	3	6	0	5	5	2	5	0
	1730	,,	1003·4	992·2	..	33·6	22·0	14·8	16·9	33	..	1·3	..	3·4	0	0	24	0	3	2	7	0	2	3	7	6	0
Gorakhpur	0330	77	1006·7	998·0	−0·6	28·7	20·1	14·1	16·5	42	−4	2·4	+1·3	7·1	0	0	25	1	0	6	1	1	5	6	0	5	5
	1730	,,	1002·9	994·5	..	34·7	21·1	11·5	13·9	27	..	2·0	..	9·5	0	0	25	0	0	1	3	0	2	0	5	5	14
Gorakhpur (P.B.O.)	0230	78	1004·9	996·0	..	25·9	18·4	13·9	15·9	51	..	1·5	..	4·7	0	0	23	0	5	3	1	1	6	7	0	7	0
	0530	,,	1005·6	996·6	..	24·4	18·1	14·3	16·4	55	..	2·3	..	4·5	0	0	25	0	8	3	0	0	7	6	1	5	0
	1130	,,	1007·5	998·8	..	33·1	20·5	13·2	15·4	32	..	2·5	..	12·2	0	6	24	1	1	7	3	3	3	9	3	0	0
	2330	,,	1005·8	996·9	..	27·5	19·2	14·3	16·4	46	..	1·1	..	5·7	0	0	24	2	4	4	1	1	5	7	0	6	0
Kanpur	0830	126	1007·9	993·7	+0·6	26·8	19·8	15·5	17·4	49	+16	1·5	+0·9	6·6	0	1	29	1	3	1	5	4	6	6	4	0	0
	1730	,,	1003·6	990·0	..	36·3	23·5	14·1	16·5	27	..	2·2	..	7·1	0	1	29	5	4	1	0	1	2	9	8	0	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard of isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	9	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) (*Contd.*)																											
Kanpur (Aerodrome)	0530	126	1005·8	991·3	..	32·3	17·8	13·7	15·9	56	..	2·4	..	6·3	0	0	21	0	2	3	1	1	3	10	1	9	0
	0830	,,	1007·3	993·2	..	28·8	19·9	13·5	16·0	40	..	1·8	..	12·9	0	5	21	1	1	3	4	3	4	6	4	4	0
	1130	,,	1007·0	993·2	..	35·1	21·5	11.8	14·6	26	..	1·4	..	14·2	0	3	27	2	2	3	2	3	2	8	8	0	0
	1730	,,	1003·1	989·3	..	36·4	21·5	10·8	13·5	22	..	2·1	..	11·9	0	3	27	6	3	2	1	1	3	4	10	0	0
	2330	,,	1005·6	991·3	..	27·9	19·5	13·2	15·9	41	..	1·7	..	6·9	0	1	17	1	0	5	2	0	1	3	6	12	0
Sultanpur	0830	97	1007·9	997·0	..	28·5	20·8	16·0	18·3	47	..	2·0	..	2·7	0	0	24	0	2	8	1	0	3	6	4	6	0
	1730	,,	1003·3	992·7	.	35·1	23·7	17·3	20·0	34	..	2·1	..	3·4	0	0	26	0	3	8	0	0	1	7	7	4	0
Azamgarh	0830	78	1007·4	903·6	..	28·2	22·9	19·9	23·5	62	..	2·1	..	5·5	0	0	30	0	0	11	0	1	0	18	0	0	0
	1730	,,	1003·7	995·1	..	35·2	26·7	22·8	27·9	50	..	1·5	..	4·7	0	0	30	1	2	7	0	0	0	20	0	0	0
Fatehpur	0830	114	1007·7	995·1	..	29·5	20·5	14·7	16·7	41	+4	1·2	−0·1	7·7	0	0	29	3	2	4	4	2	5	6	3	1	0
	1730	..	1003·2	990·7	..	36·6	22·2	12·8	15·0	24	..	1·3	..	7·3	0	0	28	7	5	0	1	0	2	2	11	2	0
Ballia	0830	64	1008·2	1001·0	..	27·1	21·8	18·4	21·7	58	..	0·9	..	1·3	0	0	10	1	1	4	2	0	0	2	0	20	0
	1730	,,	1005·3	998·0	..	34·7	24·0	18·3	21·0	40	..	1·4	..	2·1	0	0	15	0	0	5	2	0	0	7	1	15	0
Banda	0830	121	1018·2	994·5	..	28·3	20·0	14·7	16·6	44	..	1·1	..	2·1	0	0	30	0	4	0	5	0	13	0	8	0	0
	1730	,,	1002·0	988·9	..	37·2	23·4	15·2	17·5	28	..	1·5	..	2·1	0	0	30	0	4	0	1	0	8	0	17	0	0
Allahabad (Bamhrauli)	0230	98	1005·0	994·0	..	25·7	18·2	12·9	14·9	46	..	1·7	..	4·6	0	1	18	1	2	7	0	1	4	0	4	11	0
	0530	,,	1005·6	994·5	..	24·1	17·9	13·3	15·5	52	..	2·7	..	2·7	0	0	16	1	2	4	0	3	3	3	0	14	0
	0830	,,	1017·8	996·2	+0·3	30·1	19·8	12.3	14.7	35	+3	2.5	+1·1	6·9	0	0	27	1	3	6	1	3	5	4	4	3	0
	1130	,,	1007·2	996·4	..	35.9	21·0	10·6	12·7	23	..	2.0	..	8·9	0	0	30	2	6	3	1	2	3	6	6	0	1
	1730	.	1003·1	992.4	.	36·7	21.0	9·1	12·1	20	..	1.9	..	8·7	0	0	28	9	5	2	0	0	0	3	9	2	0
	2330	,,	1005·9	994·9	..	28.3	19·1	12·4	14·6	39	..	1·8	..	5·5	0	1	18	2	2	7	0	0	2	2	4	11	0
Varanasi (Babatpur)	0530	85	1006·7	996·8	..	24.1	17.9	13·1	15.6	53	..	2·4	..	7·7	0	1	26	3	2	3	5	0	9	5	0	3	0
	0830	..	1008·7	999·0	+0·6	29·4	20.3	13·9	16·4	41	+10	2·5	+1·5	13·4	0	5	25	0	1	3	8	1	10	6	1	0	0
	1130	,,	1008·1	998·6	..	34·8	21·5	12·0	14·5	27	..	2·2	..	17·5	0	13	16	1	1	5	4	1	2	5	10	1	0
	1730	,,	1004·4	995·0	..	35·7	21·5	11·1	14·1	25	..	1·5	..	17·4	0	12	18	3	2	5	1	0	1	6	12	0	0
	2330	,,	1006·8	997·0	..	27·6	18·4	11·3	13·3	38	..	1·0	..	12·3	0	6	17	3	3	5	3	0	3	2	4	7	0
Varanasi	0830	76	1007·9	999·3	+0·5	28·8	21·0	15·9	18·5	47	+8	2·7	+1·4	2·4	0	0	29	1	6	1	3	1	5	9	3	1	0
	1730	,,	1003·6	995·2	..	35·8	22·7	14·3	16·8	29	..	2·5	..	2·7	0	0	29	2	8	0	0	0	1	12	6	1	0
Uttar Pradesh (West)																											
Mukhim (R)	0830																										
(R)	1730																										
Tehri (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun	0530	682	1007·2	931·1	..	19·2	14.3	10.5	12·7	58	..	1·7	..	3·0	0	0	22	15	5	1	0	0	0	0	1	8	0
	0830	,,	1007·5	932·7	+0·7	25·1	17.1	11·4	13·7	43	−1	1·6	−0·7	1·5	0	0	19	0	1	0	3	6	6	3	0	11	0
	1130	,,	1007·0	933·2	..	29·3	18.0	9·7	12.3	31	..	2·3	..	4·5	0	0	28	2	2	1	3	9	4	3	2	2	0
	1730	,,	1002·6	929·5	..	30·6	18·4	9·9	12.3	29	..	2·4	..	2·2	0	0	24	1	1	0	5	4	9	6	1	6	0
	2330	.	1006·5	931·3	..	23·3	15·8	10·0	12·4	45	..	1·2	..	4·2	0	0	25	9	15	0	0	0	0	0	1	5	0
Mansiari (R)	0830																										
(R)	1730																										
Roorkee	0830	274	1008·1	977·4	+0·9	26·1	18·1	12·0	14·3	43	+2	3·0	+1·5	2·0	0	0	29	0	1	0	12	0	0	0	16	1	0
	1730	.	1004·5	974·7	.	33·9	20·0	9·4	12.1	23	..	3·7	.	2·0	0	0	30	0	0	0	10	0	0	0	20	0	0
Najibabad	0830	270	1007·6	977·4	..	27·0	18·7	12·8	14·8	43	..	1·3	..	3·9	0	0	26	0	6	1	10	0	2	0	7	4	0
	1730	,,	1003·6	974·2	..	34·7	20·5	9·8	12·5	23	..	1·5	..	3·0	0	0	24	0	5	1	4	0	9	1	4	6	0
Meerut	0830	222	1008·1	983·1	+1·1	27.1	20·1	15·2	17·3	50	+9	0·4	−1.1	5·5	0	0	28	3	7	7	4	0	1	1	5	2	0
Bareilly	0830	173	1007·3	988·0	+0·5	28·9	19·7	13·3	15·5	39	−5	0·8	−0.8	6·7	0	1	29	1	1	10	7	1	3	7	0	0	0
	1730	,,	1002·9	984·0	..	34·8	21·2	11·9	14·1	26	..	1·1	.	2·1	0	1	15	1	0	2	1	0	0	9	3	14	0
Bareilly (P.B.O.)	0230	172	1004·8	985·4	..	25·7	17·6	12·4	14·4	44	..	1·3	..	5·9	0	0	23	1	3	11	2	0	0	3	3	7	0
	0530	,,	1005·4	986·0	..	24·2	17·2	12·6	15·4	50	..	2·0	..	5·2	0	0	26	1	2	15	1	0	1	3	3	4	0
	1130	,,	1006·8	987·8	..	32·9	20·1	12·1	14·8	29	..	0.8	..	6.8	0	0	29	1	2	5	8	2	0	2	8	1	1
	2330	,,	1005·2	985·9	..	27·9	18·7	12·8	15·4	40	..	1·2	..	6·8	0	1	25	0	1	14	2	0	1	6	2	4	0
Aligarh	0830	187	1007·2	986·1	..	28·1	18·9	12·6	14.4	37	+8	1·6	+0·6	2·8	0	0	28	2	0	6	0	3	0	10	7	2	0
	1730	,,	1002·9	982·5	..	36·4	20·4	8·1	10·9	18	..	2·6	..	2·4	0	0	27	10	0	4	0	1	0	11	1	3	0
Mainpuri	0830	157	1007·5	989·8	+0·1	28·3	20·0	14·8	16·6	45	+9	0	−1·4	0·7	0	0	11	0	0	0	7	0	1	0	3	19	0
	1730	,,	1003·2	986·1	..	37·1	22·4	12.8	15·1	24	..	0	..	0·7	0	0	10	0	0	0	2	0	6	0	2	20	0
Agra	0830	169	1007·2	988·4	−0·3	29·0	19·8	13·5	15·6	40	+12	0	−1·3	0·3	0	0	2	0	0	0	0	0	1	0	1	28	0
	1730	,,	1002·9	984·6	..	37·3	21·5	10·0	12·6	20	..	1·3	..	2·9	0	1	6	0	1	0	0	0	3	0	3	23	0
Agra (Aerodrome)	0530	169	1005·7	986·2	..	23.2	16·7	11·5	13·7	49	..	1·6	..	0·6	0	0	25	2	1	2	5	2	1	7	5	5	0
	0830	,,	1007·1	987·9	..	28·3	18·8	11·8	13·9	40	..	1.1	..	9·5	0	1	26	3	0	1	4	5	4	7	3	3	0
	1130	,,	1006.9	988.2	..	35·6	20·7	9·7	12·3	21	..	1·4	..	11·8	0	0	29	3	0	0	1	1	6	7	11	1	0
	1730	,,	1002·9	984.3	..	36·8	20·0	6.3	9·7	11	..	2·4	..	14·0	0	3	26	4	2	1	0	0	5	5	12	1	0
	2330	,,	1005.4	985·9	..	27·5	18·4	11·6	13·7	38	..	1·5	..	4·0	0	1	16	2	1	2	1	1	1	5	4	1	0

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearst standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—(contd.)																											
Orai . . (R)	0830	141																									
(R)	1730	,,																									
Jhansi . .	0830	251	1007·2	979·4	−0·8	29·5	18·6	9 6	12·6	32	+3	1·5	+0·4	1·2	0	0	12	3	0	1	0	0	0	6	2	18	0
	1730	,,	1003·5	976·4	..	37·4	22·5	12·5	14·5	24	..	2·7	..	2·4	0	0	24	7	0	1	0	0	1	4	11	6	0
Punjab (India) (Including Delhi)																											
Pathankot . .	0530	312	1006·1	970·8	..	21·3	15·5	10·5	12·9	52	..	2·8	..	7·5	0	3	20	3	11	0	3	0	3	1	2	7	0
	0830	,,	1007·4	972·4	−0·6	25·7	17·0	9·9	12·3	38	+4	3·2	+0·3	7·1	0	1	25	2	16	3	1	1	2	0	1	4	0
	1130	,,	1007·1	972·7	..	30·5	18·7	9·5	11·9	28	..	3·9	..	7·1	0	1	27	3	3	3	2	7	6	2	2	2	0
	1730	,,	1003·8	969 7	..	32·5	18 4	6·4	9·7	21	..	4·1	..	11·7	0	5	25	3	5	1	0	2	5	9	5	0	0
Amritsar (Rajasansi) . . .	0530	234	1006·4	979·3	..	18·5	15·3	12·9	14·8	71	..	2·2	.	11·6	0	5	20	6	7	3	1	1	2	1	4	5	0
	0830	,,	1007·4	980·9	−0·5	24·3	18·1	13·8	15·8	53	+4	2·2	+0·1	9·4	0	3	21	4	5	7	2	0	0	3	3	6	0
	1130	,,	1007·5	981·5	..	31·3	20·5	13·3	15·4	34	.	2·5	..	10·2	0	3	21	3	5	3	3	0	2	2	6	6	0
	1730	,,	1003·9	978·1	..	32·7	20·3	11·6	13·7	28		3·0	..	11·9	0	4	24	5	2	2	4	0	1	5	9	2	0
Adampur Aerodrome	0530	238	1005·1	977·9	..	17·5	14·8	12·7	**14·7**	74	..	2·7	..	5·0	0	1	20	5	2	7	1	1	1	0	4	9	0
	0830	,,	1005·9	979·2	..	23·8	18·5	14·9	16·9	59	..	3·4	..	10·0	0	6	18	4	4	5	5	2	0	1	3	6	0
	1130	,,	1005·6	979·6	..	31·4	21·0	14·0	16·4	36	..	3·7	..	15·4	0	8	22	3	1	1	6	9	1	2	7	0	0
	1730	,,	1002·9	977·0	..	31·7	20·9	13·6	15·9	35	..	3·7	..	15·4	0	9	19	1	2	3	3	0	0	3	16	2	0
	2330	,,	1005·1	978·3	..	21·7	16·9	13·3	15·4	61	..	1·7	..	7·3	0	1	19	4	3	3	1	0	0	1	8	10	0
Ludhiana . .	0830	247	1007·2	979·3	−0·2	25·0	17·5	11·8	13·9	46	0	2·3	+0.5	2·7	6	0	28	0	6	3	7	4	0	5	3	2	0
	1730	,,	1003·6	976·6	..	33·6	20·4	10·6	13.2	24	..	3·4	..	5·1	0	0	27	5	4	1	0	3	0	2	12	3	0
Ferozepore	0830	200	1007·3	984·6	..	22·4	18·6	16·0	18·3	64	..	1·2	..	1·6	0	0	20	3	9	1	0	1	1	0	5	10	0
	1730	,,	1003·5	981·6	..	33·8	22·0	14·5	16·8	32	..	1·6	..	1·7	0	0	21	5	3	0	0	1	2	1	8	9	1
Halwara (Aerodrome)	0830	242	1007·9	980·7	..	25·3	18·6	13·9	16·0	51	..	2·2	..	8·8	0	3	24	3	3	5	7	2	1	2	4	3	0
	1730	,,	1005·0	978·6	..	34·1	20·7	10·5	13·6	27	..	3 6	..	11·4	0	1	28	6	3	3	3	1	0	1	12	1	0
Chandigarh . .	0830	347	1006·6	968·1	−0.2	28·0	19·1	12·5	14·9	41	+3	2·0	+0·9	11·5	0	7	22	0	6	0	12	0	2	0	9	1	0
	1730	,,	1003·3	965·5	..	32·9	21·4	14·0	16·1	33	..	2·9	−1·7	6·3	0	0	30	0	2	0	6	0	3	0	19	0	0
Ambala . .	0830	272	1006·7	976·3	−0·2	27·4	19·0	12·7	15·2	42	+5	0·1	−1·4	2·2	0	0	19	0	6	0	9	0	0	0	4	11	0
	1730	,,	1002·8	973·3	..	34·0	20·2	9·8	12·4	25	..	0 1	.	2·5	0	0	22	0	4	0	13	0	0	0	5	8	0
Ambala (P.B.O.)	0230	278	1004·9	973·7	..	24·6	17·1	12·4	14·4	48	..	2·2	..	6·7	0	1	21	4	3	2	5	0	0	0	8	8	0
	0530	,,	1005·2	973·8	..	22·7	16·4	12·4	14·4	53	..	2·2	..	5·5	0	0	22	2	2	4	8	0	0	2	4	8	0
	1130	,,	1006·7	976·1	..	31·7	20·4	14·2	16 2	35	..	2·3	..	9·7	0	2	22	0	3	4	11	1	0	0	5	6	0
	2330	,,	1005·2	974·2	..	27·2	18·2	12·8	14 8	43	..	2·2	..	7·0	0	0	26	9	4	2	1	1	1	0	8	4	0
Ambala (Aerodrome) .	0530	274	1005·6	974·3	..	20·5	16·0	12·4	14·5	61	..	1·8	..	2·5	0	0	18	0	2	6	3	0	2	1	4	12	0
	0830	,,	1007·0	976·2	..	26·0	18·1	12·4	14·3	44	..	2·6	..	3·5	0	0	23	0	1	7	6	1	2	0	6	7	0
	1130	,,	1006·7	976·5	..	32·0	20·2	11·5	13·8	29	..	2·3	..	5·1	0	0	29	0	0	8	10	2	0	3	5	1	1
	1730	,,	1003·2	973·2	..	33·8	20·1	9·8	12·4	24	..	3·0	..	4·9	0	0	28	1	1	2	3	0	0	7	14	2	0
	2330	,,	1005·6	974·7	..	24·4	17·0	11·2	13·4	45	..	1·5	..	2·6	0	0	22	1	2	2	2	0	0	2	12	8	1
Patiala . . .	0830	251	1007·3	979·2	..	26·8	18·6	12·7	14.8	43	..	2·1	.	8·7	0	2	24	4	0	3	12	0	0	2	6	4	0
	1730	,,	1003·7	976·3	..	33·3	20·8	12·1	14·4	29	..	(b) 3·2	..	6·2	0	0	23	0	1	0	2	0	0	0	20	7	0
Bhatinda . . .	0830	211	1007·3	983·7	..	28·9	21·0	16·3	18·3	48	..	0·7	..	3·5	0	0	22	1	5	1	5	3	0	0	7	8	0
	1730	,,	1003·2	980·1	..	35·5	22·8	14·7	17·1	31	..	0·9	..	(b) 3 0	0	0	22	1	1	0	3	1	1	0	15	7	0
Karnal . . .	0830	249	1007·8	979·9	..	28·0	19·8	14·2	16·4	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1003·3	976·2	..	34·6	22·2	13·8	16·6	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar . . .	0530	221	1005·8	980·5	..	21·3	16·0	11·8	13·9	56	..	1·2	..	5·2	0	0	27	3	4	3	3	2	5	4	3	3	0
	0830	,,	1007·5	982·6	−0·3	26·1	18·3	12·9	14·8	45	+4	1·5	+0·1	4·5	0	0	27	0	1	5	1	8	5	6	1	3	0
	1130	,,	1006·9	982·7	..	34·3	21·3	12·7	14·8	28	..	1·1	..	7 3	0	1	27	1	1	3	5	3	6	4	5	2	0
	1730	,,	1003·3	978·9	..	35·8	21·2	10·9	13·3	23	..	2·9	.	7·1	0	1	27	6	2	1	0	3	6	8	2	2	0
	2330	,,	1005·8	981·0	..	26·4	17·8	11·4	13·4	40	..	1·2	..	5·9	0	0	27	4	5	4	2	3	3	0	6	3	0
New Delhi (Safdarjang) . .	0230	216	1005·2	980·9	..	25·7	17·7	11·6	13·8	42	..	1·3	..	5·4	0	0	14	1	0	2	2	0	2	2	5	16	0
	0530	,,	1005·6	981·1	..	23·6	16·8	11·5	13·7	47	..	1·2	..	4·5	0	1	16	1	2	2	2	1	1	4	4	13	0
	0830	,,	1007·3	985·0	−0·2	27·5	18·6	12·2	14·2	40	+8	1·3	−0·2	8·6	0	2	25	1	1	5	3	1	3	8	5	3	0
	1130	,,	1007·1	983·4	..	33·7	20·2	10·1	12·7	24	..	1·7	..	10·6	0	6	18	2	1	4	3	1	2	2	9	6	0
	1730	,,	1003·0	979·3	..	35·7	20·2	8·1	11·0	19	..	1·7	..	10·0	0	5	21	3	4	1	2	0	2	2	12	4	0
	2330	,,	1005·6	981·4	..	27·6	18·7	12·1	14·3	39	..	1·4	..	4·5	0	1	13	2	1	3	1	0	1	2	4	16	0
Palam (Aerodrome) .	0230	233	1005·0	978·9	..	25·3	17·1	10·6	12·9	41	..	1·2	..	9·8	0	3	25	4	2	7	2	4	3	4	2	2	0
	0530	,,	1005·5	979·0	..	22·5	16·0	11·0	12·9	49	..	1·7	..	7·2	0	0	28	2	2	5	0	13	4	1	1	2	0
	0830	,,	1007·1	981·1	..	26·8	18·5	12·0	14·5	40	..	1·4	..	11·0	0	2	26	2	0	5	2	4	7	6	2	2	0
	1130	,,	1006·9	981·3	..	34·4	20·8	11·0	13·5	26	..	1·7	..	15·9	0	8	22	2	2	4	4	2	5	6	5	0	0
	1430	,,	1004·2	978·9	..	36·7	20·5	7·2	10·9	18	..	1·9	..	17·7	0	9	20	6	4	1	2	1	3	6	6	1	0

(R) Register not received.

(b) Mean of 29 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Relative humidity: Departure from normal	Cloud amoun (Oktas): Mean amount	Cloud amoun (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)— (*Contd.*)																											
Palam (Aerodrome) (*Contd.*)	1730	233	1002·5	977·3	..	36·2	19·9	7·7	9·9	18	..	2·0	..	15·2	0	4	26	6	5	1	1	1	1	3	12	0	0
	2030	,,	1004·4	978·7	..	30·8	19·2	10·4	12·8	29	..	1·7	..	7·8	0	0	29	5	6	7	1	2	1	3	4	1	0
	2330	,,	1005·4	979·4	..	27·8	18·0	10·1	12·7	34	..	1·5	..	8·1	0	1	24	1	5	8	1	2	3	4	1	5	0
Himachal Pradesh																											
Mandi	0830	761	1009·3	924·8	—0·3	19·6	15·0	11·4	13·7	60	—7	2·6	+0·3	0·4	0	0	5	0	2	1	0	1	0	0	1	25	0
	1730	,,	1003·3	921·7	..	28·4	17·2	8·6	11·5	30	..	3·7	..	1·2	0	0	8	0	1	0	1	2	0	1	3	22	0
Bilaspur	0830	493	1008·8	954·1	..	23.5	17·6	13·8	15·6	57	..	(b) 2·3	..	..	0	1	2	1	0	1	0	1	0	0	0	27	0
	*1730	,,	1003·7	950·4	..	30·8	19·6	12·2	14·6	33	..	(b) 3·0	..	..	0	0	1	1	0	0	0	0	0	0	0	28	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3112·2	666·1	.	—0·4	—3·9	—10·1	2·6	47	..	(c) 3·7	..	8·2	0	0	25	4	21	0	0	0	0	0	0	5	0
	0830	,,	3116·2	667·1	+0·6	4·5	—0·9	—9·4	2·7	37	—13	3·6	—0·6	4·3	0	0	18	1	2	0	1	12	2	0	0	12	0
	1730	,,	3081·2	664·8	..	9·4	3·6	—2·7	4·5	44	..	5·0	.	9·9	0	2	26	1	3	1	2	5	6	6	4	2	0
Srinagar	0830	1587	1519·4	843·3	+1·2	11·3	9·2	7·3	9·8	78	—7	5·5	+1·4	2.3	0	0	18	0	0	3	4	2	2	3	4	12	0
	1130	,,	1520·3	843·5	..	15·1	11·3	8·3	10·6	65	..	5·2	..	2·9	0	0	22	3	1	1	5	1	0	4	7	8	0
	1730	,	1492·8	840·9	..	17·1	11·6	7·0	10·1	54	..	5·7	..	3·5	0	0	22	3	3	1	2	1	0	5	7	8	0
Srinagar (Aerodrome)	0530	1666	1502·0	834·0	..	8·1	6·9	5·7	9·1	84	..	4·7	..	4·3	0	0	18	0	2	2	1	3	0	7	3	12	0
	0830	,,	1512·0	835·1	..	10·8	8·8	7·2	9·8	79	..	5·8	..	5·7	0	0	29	5	2	10	2	2	0	2	6	1	0
	1130	,,	1513·4	835·4	..	14·6	10·7	7·7	10·1	65	..	5·2	..	6·5	0	0	30	5	1	4	0	1	0	4	15	0	0
	1730	,,	1485·3	832·8	..	16·3	11·0	6·6	9·8	57	..	5·9	..	7·6	0	1	28	6	2	2	0	2	2	4	11	1	0
	2330	,,	1505·7	834·5	..	10·9	8·7	6·8	9·8	77	..	4·8	..	4·7	0	1	17	4	0	0	1	1	0	5	7	12	0
Gulmarg	0830	2655							Closed during winter months																		
	1730	,,							Closed during winter months																		
Banihal	0830	..	..	..	..	13·3	9·5	6·4	9·4	65	..	4·8	..	..	0	0	8	5	0	0	0	0	0	2	1	22	0
	1730	..	..	..	..	18·0	11·3	5·7	9·1	48	..	5·4	..	..	0	0	14	3	0	0	0	0	2	3	6	16	0
Jammu	0830	..	..	..	..	28·2	20·6	15·1	18·1	48	+8	..	..	7·2	0	0	30	9	8	2	5	4	0	0	2	0	0
Jammu (Aerodrome)	0530	292	1006·4	973·2	..	20·9	14·6	9·0	11·5	48	..	3·5	..	8·9	0	4	15	2	12	1	2	0	0	0	2	11	0
	0830	,,	1007·1	974·1	..	24·9	16·9	10·4	12·8	42	..	4·1	..	6·9	0	2	18	3	11	1	3	1	0	0	1	10	0
	1130	,,	1007·3	974·9	..	30·4	18·2	8·8	11·0	28	..	4·5	..	7·8	0	2	21	2	5	1	4	2	1	4	4	7	0
	1730	,,	1004·0	971·9	..	31·8	18·7	8·0	10·9	24	..	4·8	..	10·0	0	5	23	2	3	0	2	1	2	15	3	2	0
	2330	,,	1006·6	973·4	..	24·4	16·5	10·0	12·3	42	..	3·0	..	6·7	0	3	13	6	5	0	0	2	0	0	3	14	0
Rajasthan (West)																											
Ganganagar	0530	177	1005·5	985·3	..	21·9	15·8	10·7	13·0	51	..	1·6	..	3·2	0	0	21	4	12	1	1	3	0	0	0	9	0
	0830	,,	1006·8	986·8	—0·6	25·4	17·1	10·4	12·8	40	+1	1·1	—0·2	3·9	0	0	28	5	4	5	2	4	6	0	2	2	0
	1130	,,	1006·9	987·4	..	34·1	19·4	7·2	10·6	20	..	2·0	..	6·5	0	1	27	2	3	3	3	2	9	1	5	2	0
	1730	,,	1002·9	983·7	..	36·3	20·3	8·0	10·8	18	..	2·0	..	3·9	0	0	27	5	0	2	0	1	4	7	8	3	0
	2330	,,	1005·7	985·7	..	26·4	17·7	11·0	13·2	38	..	0·6	..	3·3	0	0	21	6	9	4	1	0	0	1	0	9	0
Anupgarh (R)	0830	..																									
(R)	1730	..																									
Mahajan	0830	..	..	..	..	29·5	21·4	16·3	18·9	46	..	(d) 0·2	..	(d) 3·0	0	0	24	0	2	3	9	1	7	0	2	3	0
	1730	..	..	..	..	37·1	23·4	15·0	16·4	29	..	(e) 2·1	..	(e) 4·4	0	0	25	1	1	0	3	2	8	7	3	1	0
Churu	0830	291	1007·5	974·9	..	26·8	19·9	15·2	17·6	51	..	1·0	..	8·4	0	4	23	0	0	2	1	7	9	8	0	3	0
	1730	,,	1003·0	971·3	..	36·9	23·2	13·5	17·1	28	..	(b) 2·7	..	13·1	0	4	26	5	1	0	2	1	1	11	9	0	0
Bikaner	0830	224	1007·2	982·0	—0·3	27·2	16·3	6·0	9·7	28	0	0·3	—1.1	6·4	0	0	30	0	2	1	9	4	4	7	3	0	0
	1730	..	1002·6	978·4	..	37·7	19·5	2·9	7·9	12	..	0·8	..	7·5	0	1	27	3	1	0	1	2	5	6	10	2	0
Bikaner (P. B. O.)	0530	224	1005·6	980·1	..	23·4	15·6	8·7	11·4	40	..	1·3	..	2·1	0	0	9	0	0	0	0	0	8	1	0	21	0
	1130	,,	1006·7	982·2	..	35·8	19·6	5·2	9·6	17	..	0·9	..	4·7	0	1	19	0	0	0	1	5	9	2	3	10	0
	2330	,,	1005·6	980·6	..	29·2	17·8	8·1	11·1	28	..	1·6	..	2·7	0	0	12	2	0	0	1	2	3	1	3	18	0
Nagaur	0830	298	1007·4	974·3	..	29·6	20·6	14·4	16·9	42	..	0·2	..	8·4	0	1	29	1	2	3	4	10	8	2	0	0	0
	1730	,,	1003·0	971·0	..	37·0	21·7	11·2	13·4	22	..	(c) 2·0	..	6·5	0	1	29	1	0	0	0	8	8	8	5	0	0
Phalodi	0830	234	1007·8	981·6	..	26·9	20·4	16·1	18·6	53	..	0·6	..	18·8	0	11	19	1	0	1	3	7	6	9	3	0	0
	1730	,,	1004·0	978·8	..	37·3	26·1	18·8	24·6	39	..	2·8	..	19·8	0	13	17	2	1	1	0	4	7	10	5	0	0
Jaisalmer	0830	242	1007·2	980·0	..	26·1	20·5	16·7	19·5	59	..	1·3	..	10·2	0	3	23	1	1	0	2	11	10	1	0	4	0
	1730	,,	1002·7	976·6	..	30·7	23·8	16·1	18·6	29	..	2·6	..	14·3	0	6	23	3	1	1	1	10	10	1	2	1	0

(R) Register not received. (e) Mean of 26 days. (b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days. *Wind direction for 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (west)—(*Contd*) Jodhpur	0230	224	1006·1	981·0	..	27·0	16·3	7·0	9·9	26	..	0·7	..	9·4	0	1	28	5	2	0	0	2	8	11	1	1	0
	0530	,,	1006.4	981·0	..	24·4	16·1	8.6	11.5	37	..	9.7	..	8·3	0	1	27	1	4	0	1	1	12	7	2	2	0
	0830	,,	1008·2	983·1	+1.2	27·2	18·4	11.3	14.0	40	+8	0.6	−1.1	9·1	0	0	30	0	1	4	0	2	13	6	1	0	0
	1130	,,	1008·0	983·3	..	34·2	20.5	9·8	12.9	25	..	1.0	..	11 3	0	3	26	0	2	0	2	1	15	7	2	1	0
	1730	,,	1003·5	979·3	..	37·8	20.6	6.6	10·2	16	..	1.9	..	12·3	0	4	25	0	1	0	0	1	14	10	3	1	0
	2330	,,	1006.3	981·4	..	29.3	17·4	7·3	10·0	25	..	0·9	..	8·4	0	1	27	1	2	0	0	1	12	10	2	2	0
Barmer (R)	0530	194																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Munabao	0830	80	1008·6	995.5	..	25·4	21·4	18·8	22·2	70	.	(b) 1·0	..	(b) 12.7	0	8	21	0	0	3	0	5	19	2	0	0	0
	1730	,,	1004.2	995·5	..	38.1	22·4	11·9	14.3	22	..	(b) 1·4	..	(b) 13·5	0	7	20	0	1	1	0	5	16	4	0	2	0
Rajasthan (East) Pilani	0830	301	1007·5	974·1	..	28·1	17·4	8·6	11·2	31	..	0·5	..	11.4	0	1	28	0	0	5	3	4	9	7	1	1	0
	1730	,,	1002·6	970·2	..	36·5	19·6	5·4	9·1	15	..	1·2	..	16·3	0	4	26	3	3	2	1	1	2	8	10	0	0
Sikar	0830	433	1007.8	960·3	..	28·8	19·5	13.0	15·2	40	..	1·0	..	2·9	0	0	26	0	1	3	3	1	3	12	3	4	0
	1730	,,	1002·4	956·0	..	36.2	23·2	15·5	17·8	31	..	0·9	..	2·4	0	0	22	0	0	1	0	0	2	13	6	8	0
Alwar	0830	271	1006·0	975·9	..	29.0	20·5	14·8	17·1	43	..	1·1	..	0·7	0	0	6	0	0	0	1	1	2	2	0	24	0
	1730	,,	1002.5	973.2	..	37.0	22 6	13·3	15·7	25	.	2·6	..	3 3	0	0	23	4	1	0	3	5	4	1	5	7	0
Jaipur (Sanganer)	0230	390	1005·5	961·9	..	24·4	15.3	6·6	10·0	33	..	1 1	..	5.6	0	0	26	8	4	3	0	0	1	3	7	4	0
	0530	,,	1006·0	962·1	..	22·7	14·7	7.1	10·2	38	..	1·2	..	5.4	0	0	26	8	3	2	1	0	1	2	9	4	0
	0830	,,	1007.3	964·2	−0·3	29·0	17·5	8·0	10·7	28	−2	0.8	−0.6	6.4	0	2	20	2	0	1	2	0	3	5	9	8	0
	1130	,,	1006·4	964·2	..	34·6	18·8	5.4	8.8	17	..	0·5	..	11.0	0	3	27	1	0	1	1	3	7	7	8	0	2
	1730	,,	1002·2	960.4	..	36·1	19·1	3·7	8.3	15	..	2.2	..	12.8	0	6	23	1	0	1	0	2	4	11	10	1	0
	2330	,,	1005·6	962·4	..	26.8	16·0	6.3	9.5	28	..	(b) 1.0	..	7.0	0	3	25	7	1	3	1	0	1	3	12	2	0
Dholpur	0830	176	1006·8	987·1	..	29·4	20·9	15.4	17.8	43	..	1·3	..	6·0	0	0	28	0	1	1	4	7	2	5	8	2	0
	1730	,,	1002.4	983·3	..	37·3	23·4	15.0	17.5	27	..	3·0	..	7·9	0	0	29	9	1	0	0	1	4	7	7	1	0
Ajmer	0830	486	1007·8	954·4	−0 5	27·9	16.6	7·3	10.7	28	−2	1.1	−0.3	10·9	0	9	17	2	0	0	3	3	11	6	1	4	0
	1730	,,	1003·0	951·2	..	36·1	18.0	2.1	7·4	13	..	1·8	..	9·4	0	0	28	2	0	0	0	0	11	10	5	2	0
Tonk	0830	272	1006·7	976·4	..	28·0	20.3	15.0	17.6	45	..	0·6	.	4.5	0	1	28	2	1	1	2	2	6	10	5	1	0
	1730	,,	1001.6	972·4	..	37·3	24·3	16.2	19.6	34	..	2·0	..	8.8	0	1	29	1	0	0	0	1	4	13	11	0	0
Bhilwara	0830	..	..	..	..	26·8	17·0	8·9	11·4	33	..	0·8	..	7·9	0	0	26	1	1	0	0	4	8	6	6	4	0
	1730	..	..	..	..	36·5	19·1	3·3	8·0	13	..	2·1	..	7·7	0	0	28	4	1	0	1	1	4	11	6	2	0
Kota (Aerodrome)	0530	274	1006·2	975·5	..	26·6	16·2	6.7	10.0	30	..	1·0	..	10·6	0	4	23	1	0	2	0	0	7	15	2	3	0
	0830	,,	1008·0	977·7	..	30·8	18.3	7·7	10.9	25	..	0·9	..	12·6	0	5	24	3	1	1	1	0	5	11	7	1	0
	1130	,,	1007·5	977.7	..	35.9	19·9	6.5	10.2	18	..	0.7	..	14·9	0	9	21	3	2	2	1	0	4	10	8	0	0
	1730	,,	1003·3	973·8	..	37 7	19·8	3.6	8.5	14	..	2·4	..	14·8	0	8	22	5	4	0	2	0	7	5	7	0	0
	2330	,,	1006·1	975·8	..	30·2	17.6	6·3	9·9	24	..	1·5	..	10.4	0	3	25	0	0	0	1	4	10	11	2	2	0
Kota	0830	257	1007·8	979·5	−0·1	31·8	18·6	7·7	10·7	23	−2	1·0	−0·4	5·1	0	0	24	0	0	0	0	0	1	20	3	6	0
	1730	,,	1003·7	975·8	..	36·4	20·1	6·2	10·4	17	..	2·5	..	3·2	0	0	20	1	1	1	0	0	3	6	8	10	0
Erinpura (Jawai Dam)	0830	295	1009·1	976·2	..	26·6	21.4	18.2	21.3	61	..	0·7	..	6.5	0	1	27	0	0	3	7	12	2	4	0	2	0
	1730	,,	1004.1	972.2	.	36·1	26·3	20.9	26.3	43	..	1·7	..	9.4	0	4	25	3	0	0	0	0	6	15	5	1	0
Chambal (Rawat Bhatta Dam)	0830	351	1008·3	969·3	..	27.8	17·8	9.9	12.3	34	..	1·0	..	2·3	0	0	22	1	0	1	1	2	6	4	7	8	0
	1730	,,	1003.0	965·3	..	36 8	20·9	8·6	11.8	20	..	3·1	..	6.9	0	0	30	6	0	0	1	6	4	3	10	0	0
Udaipur	0230	582	1007·7	943·1	..	22·4	15.6	10·4	12·8	48	..	0·2	..	0·3	0	0	3	0	0	0	0	1	1	1	0	27	0
	0530	,,	1008·2	943·2	..	21·2	15·0	10.4	12.5	51	..	0·6	..	0.6	0	0	4	0	0	0	0	0	2	1	1	26	0
	0830	,,	1008·8	945·0	+0·4	27.1	17·8	11·4	13.6	38	−2	0·7	−0.3	1.9	0	0	8	0	1	0	1	0	2	1	3	22	0
	1130	,,	1007·3	944·9	..	33·6	19·1	8.6	11·5	22	..	0·6	..	4·3	0	0	21	2	2	1	2	2	7	3	2	9	0
	1730	,,	1003·4	941·4	..	34·1	19·3	8·8	11·5	23	..	2·1	..	4.2	0	0	20	1	1	1	0	2	11	4	0	10	0
	2330	,,	1008·0	943·9	..	25.2	16·7	10·4	12.8	41	..	0·7	..	1.3	0	0	8	0	0	0	0	1	2	5	0	22	0
Jhalawar	0830	321	1008·2	972·5	−0·5	28·0	18·2	10.9	12.9	35	+6	1·1	0	1·2	0	0	12	1	0	0	0	0	4	5	2	18	0
	1730	,,	1003·1	968·7	..	37·9	20·6	6.7	10·1	16	..	2.3	..	4.0	0	0	28	1	3	1	1	2	6	9	5	2	0
Madhya Pradesh (West) Gwalior	0230	207	1005.2	981·9	..	25·3	16.3	8.4	11·2	35	..	1.6	..	4·4	0	0	20	1	2	0	4	4	6	1	2	10	0
	0530	,,	1005.8	982·4	..	24·0	15·9	8.8	11·2	39	..	1.4	..	3·4	0	0	17	1	2	1	2	2	5	2	2	13	0
	0830	,,	1007.1	984·2	−0.3	30.3	18·7	9.5	11·9	29	+3	1.1	−0.1	4·9	0	0	24	2	0	2	3	2	9	4	2	6	0
	1130	,,	1006·5	984.2	..	36.2	19.6	5·6	9.3	16	..	1.5	..	8·8	0	0	30	3	1	1	0	2	5	6	12	0	0
	1730	,,	1002·8	980.5	..	37.1	19·1	2·1	7.1	11	..	2.9	..	9.3	0	1	29	5	0	0	0	1	4	4	16	0	0
	2330	,,	1005·6	982·4	..	27·0	16·9	8·6	11.0	33	..	1·5	..	3.7	0	0	16	0	0	0	5	4	5	2	0	14	0

(R) Register not received.

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Kmp.h.): 62 or more	Wind speed (Kmp.h.): 20 to 61	Wind speed (Kmp.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Shepour	0830	235	1007·8	981·6	−0·8	28·4	19·4	12·9	14·9	39	+12	0·8	−1·1	6·3	0	0	29	2	1	2	5	6	7	4	2	1	0
	1730	,,	1003·0	977·4	..	37·4	22·0	11·4	13·5	21	..	2·6	..	11·9	0	1	29	4	1	1	2	1	5	8	6	0	2
Shivpuri	0830	464	1007·6	956·5	..	29·4	17·7	9·1	11·7	29	..	1·3	..	10·6	0	3	26	1	3	2	0	5	7	6	5	1	0
	1730	,,	1003·1	953·3	..	34·8	18·8	6·4	10·0	18	..	2·7	..	9·7	0	1	29	1	2	0	0	3	7	8	9	0	0
Nowgong	0830	229	1007·7	982·1	−0·3	27·7	18·4	11·5	13·6	37	+3	1·5	−0·2	5·1	0	0	26	1	1	3	1	5	14	0	1	4	0
	1730	,,	1002·9	978·2	..	37·1	20·5	7·6	10·6	17	..	2·8	..	7·4	0	2	26	4	3	0	0	0	6	5	10	2	0
Guna	0530	478	1007·1	953·5	..	21·8	14·4	8·3	11·0	44	..	1·7	..	5·0	0	0	23	1	0	2	9	2	3	4	2	7	0
	0830	,,	1008·0	955·5	−0·3	28·8	17·6	9·3	11·9	31	+5	1·2	+0·4	5·9	0	2	25	1	2	3	2	5	6	6	2	3	0
	1130	,,	1006·7	955·3	..	35·2	19·3	7·8	10·7	19	..	1·5	..	13·6	0	6	24	5	2	1	1	1	2	10	8	0	0
	1730	,,	1002·8	951·6	..	35·4	18·4	4·7	8·7	16	..	2·8	..	17·7	0	11	19	2	0	1	0	4	1	7	15	0	0
	2330	,,	1006·6	953·7	..	25·6	15·9	3·1	10·7	34	..	1·3	..	7·2	0	3	20	1	0	0	7	5	2	6	2	7	0
Nimach	0830	496	1008·9	954·3	+0·2	28·0	16·4	6·9	10·2	28	−6	0·7	−0·4	10·7	0	4	24	0	7	0	1	1	7	6	3	2	3
	1730	,,	1003·5	950·6	..	36·0	17·9	1·8	7·3	13	..	2·5	..	13·4	0	4	26	1	3	0	0	0	5	14	3	0	4
Rajgarh	0830	382	1008·2	966·0	..	28·8	18·8	11·0	13·6	35	..	0·7	..	7·2	0	1	26	11	0	4	1	4	3	3	1	3	0
	1730	,,	1002·7	961·8	..	36·8	21·1	9·4	12·2	21	..	1·8	..	7·3	0	1	29	16	0	1	0	6	0	6	1	0	0
Sagar	0830	551	1007·6	947·4	−0·1	28·6	18·6	12·0	14·0	36	+10	1·0	−0·4	8·7	0	0	29	1	1	4	1	1	5	11	5	1	0
	1730	,,	1002·7	943·9	..	34·3	20·0	10·6	12·8	27	..	2·4	..	6·0	0	1	25	0	0	1	0	0	0	13	12	4	0
Rathan	0830	486	1008·4	955·4	0	27·2	19·0	13·7	16·0	46	+9	1·3	−0·3	8·3	0	0	26	1	2	3	1	6	6	6	1	4	0
	1730	,,	1003·7	951·8	..	36·2	21·5	12·8	14·9	25	..	2·7	..	10·8	0	2	28	2	3	1	1	0	6	10	7	0	0
Bhopal (Berasiagarh)	0230	525	1006·4	948·4	..	24·3	15·9	9·3	11·8	40	..	1·8	..	13·6	0	2	26	3	4	3	1	4	1	2	10	2	0
	0530	,,	1007·4	949·0	..	22·4	15·2	9·4	12·0	45	..	2·2	..	9·0	0	1	25	2	5	0	1	3	4	4	7	4	0
	0830	,,	1008·5	951·2	+0·2	28·3	18·4	11·7	13·9	38	+14	1·3	−0·1	14·5	0	7	22	5	5	1	3	1	4	5	5	1	0
	1130	,,	1007·4	951·0	..	34·5	20·3	11·0	13·6	25	..	..	..	15·1	0	8	22	10	4	2	3	1	1	3	6	0	0
	1730	,,	1002·8	947·1	..	35·4	20·1	9·7	12·3	22	..	2·9		16·6	0	10	22	13	4	1	0	1	0	1	10	0	0
	2330	,,	1006·9	949·4	..	26·9	17·0	9·9	12·2	36	..	2·2	..	9·0	0	2	23	6	3	1	3	2	1	3	6	5	0
Ujjain	0830	..	..	..	..	27·9	19·7	14·0	16·3	49	..	1·2	..	9·2	0	5	19	2	2	1	1	1	2	7	8	6	0
Narsinghpur	0830	356	1008·8	968·8	..	24·5	19·6	16·5	18·8	61	..	0·9	..	2·1	0	0	23	4	2	5	3	4	1	4	0	7	0
	1730	,,	996·3	964·5	..	37·3	26·3	20·2	25·2	42	..	1·0	..	3·3	0	0	30	6	0	1	0	7	0	16	0	0	0
Hoshangabad	0830	302	1008·9	975·2	+0·1	27·5	20·6	16·3	18·6	51	+23	0·9	−0·4	3·9	0	0	28	2	4	2	2	2	11	1	4	2	0
	1730	,,	1002·7	970·1	..	37·1	24·8	18·1	19·9	34	..	2·1	..	5·9	0	0	30	10	2	0	1	1	8	3	5	0	0
Indore	0530	567	1007·6	944·6	..	22·6	14·3	7·1	10·2	39	..	1·0	..	11·5	0	5	23	1	3	1	0	5	7	7	4	2	0
	0830	,,	1008·8	946·7	+0·1	27·8	17·4	9·4	11·7	34	−3	1·0	−0·4	13·8	0	9	21	3	3	2	1	5	4	9	3	0	0
	1130	,,	1007·3	946·5	..	34·0	18·6	6·7	10·1	20	..	1·0	..	14·3	0	7	22	4	6	2	1	1	5	5	3	1	2
	1730	,,	1003·0	942·7	..	35·2	18·6	5·6	9·1	18	..	1·9	..	15·3	0	10	20	6	1	0	0	2	8	9	3	0	1
	2330	,,	1007·4	945·1	..	26·6	15·6	5·9	9·7	30	..	1·3	..	13·1	0	7	20	1	2	0	0	2	9	9	4	3	0
Rajpur (Jhabua)	0830	293	1010·2	977·4	..	27·0	19·3	13·7	16·1	47	..	1·4	..	9·1	0	2	26	0	0	4	0	0	1	23	0	2	0
	1730	,,	1004·4	972·9	..	37·1	20·0	5·6	9·5	15	..	1·8	..	14·7	0	7	23	0	1	1	1	1	5	17	4	0	0
Chhindwara	0830	685	1008·0	933·9	−0·1	29·1	19·3	13·0	15·0	39	+6	1·8	−0·1	4·0	0	0	15	1	2	0	2	3	0	3	4	15	0
	1730	,,	1001·9	929·5	..	34·6	20·5	11·4	13·5	26	..	2·8	..	7·5	0	0	30	2	1	1	1	2	4	4	15	0	0
Seoni	0830	619	1008·4	941·0	+0·5	28·0	18·3	11·5	13·6	39	+9	2·9	+1·4	3·7	0	0	29	5	6	0	1	4	7	1	5	1	0
	1730	,,	1002·4	936·5	..	34·2	19·8	10·1	12·3	25	..	4·0	..	3·6	0	0	29	6	6	2	3	2	4	1	5	1	0
Betul	0830	653	1009·0	937·4	0	25·7	17·0	10·7	13·0	42	+11	1·1	−0·7	3·3	0	0	27	2	2	0	10	2	4	0	7	3	0
	1730	,,	1002·5	933·4	..	35·0	18·4	5·2	9·0	17	..	1·9	..	6·1	0	0	30	5	3	1	1	3	0	4	13	0	0
Khandwa	0830	318	1009·1	973·8	+0·5	29·5	19·9	13·1	15·5	39	+11	1·3	+0·1	4·3	0	0	30	2	1	0	1	2	7	7	10	0	0
	1930	,,	1003·1	969·0	..	37·4	21·8	11·0	13·4	23	..	2·4	..	4·2	0	0	30	3	0	2	0	0	5	4	16	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1006·4	970·6	..	23·2	16·4	10·6	13·1	46	..	1·7	..	0·7	0	0	9	2	0	3	1	0	1	2	0	21	0
	0830	,,	1007·4	972·2	−0·1	28·5	18·6	11·1	13·4	35	+6	1·9	+0·4	1·9	0	0	21	1	0	3	1	3	4	9	0	9	0
	1130	,,	1006·2	971·9	..	35·6	20·3	7·9	11·4	19	..	1·2	..	4·6	0	0	28	5	1	1	0	1	7	7	6	2	0
	1730	,,	1002·5	968·3	..	36·6	20·5	7·1	11·0	18	..	2·4	..	4·3	0	0	30	20	0	1	0	1	0	6	2	0	0
	2330	,,	1006·0	970·7	..	27·3	17·8	10·3	12·7	35	..	1·4	..	3·0	0	1	13	3	1	4	3	0	2	1	0	16	0
Sidhi	0830	,,	..	..	..	30·5	19·3	12·0	14·0	36	..	0·3	..	0·1	0	0	1	0	0	0	0	1	0	0	0	29	0
	1730	,,	..	..	..	36·6	20·3	8·3	10·7	19	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Umaria	0830	459	1007·6	957·1	..	28·8	20·2	15·1	17·4	45	+17	1·9	0	5·8	0	0	28	2	3	4	3	5	5	5	1	2	0
	1730	,,	1002·2	953·2	..	35·8	22·2	14·1	16·7	28	..	2·7	..	6·0	0	0	30	4	0	1	0	1	3	5	16	0	0
Jabalpur	0530	393	1007·0	962·8	..	22·5	16·6	12·0	14·1	53	..	2·5	..	3·5	0	0	22	2	1	1	8	6	2	0	2	8	0
	0830	,,	1008·3	964·9	+0·4	28·4	18·6	11·0	13·0	36	+5	1·9	+0·6	4·4	0	0	28	0	2	2	11	5	4	2	2	2	0
	1130	,,	1006·6	964·3	..	35·3	20·3	8·7	11·2	21	..	1·6	.	5·6	0	0	30	3	5	2	4	4	8	2	2	0	0
	1730	,,	1002·3	960·2	..	36·1	20·1	7·1	10·1	18	..	3·2	..	6·7	0	0	30	7	3	2	2	1	4	4	7	0	0
	2330	,,	1006·6	963·0	..	26·4	18·2	12·1	14·2	3	..	1·5	..	2·7	0	0	14	1	4	0	5	2	1	0	1	16	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(Contd.)																											
Ambikapur	0830	611	1008·2	941·5	−0.2	27·3	18.3	12·1	14.5	40	+6	1·8	+0·6	4·2	0	0	29	3	3	0	0	7	14	2	0	1	0
	1730	,,	1002·4	937·5	..	33·4	19.1	8·7	11 7	24	..	1·8	..	4·7	0	0	30	12	1	0	1	2	6	3	5	0	0
Pendra	0530	625	1007·0	938·9	..	23·1	15.7	9·8	12·4	45	..	2·7	..	5·9	0	1	28	5	1	0	2	4	7	6	4	1	0
	0830	,,	1008·0	940·0	0	27·9	17·8	10·6	12 8	36	+5	2·1	+0·1	5·1	0	0	25	4	0	1	2	7	5	3	3	5	0
	1130	,,	1006·4	939·6	..	33·0	18·9	8·6	11·5	25	..	2·7	..	6·7	0	1	29	5	2	1	2	1	8	5	6	0	0
	1730	,,	1002·3	935·9	..	33·5	18·4	6·8	9·9	21	..	4·7	..	6·8	0	0	30	9	1	1	0	3	6	3	7	0	0
	2330	,,	1006·5	938·3	..	26·2	16.7	9·4	12·0	37	..	2.3	..	6·3	0	2	28	3	0	0	0	2	8	8	9	0	0
Mandla	0830	443	1008·9	959·8	−0.1	26·0	18·6	13·3	15·5	47	+4	1.8	−0·3	1·9	0	0	12	1	0	0	2	7	2	0	0	18	0
	1730	,,	1002·5	955·0	..	34·9	19·7	7·4	10·6	20	..	3·0	..	5.1	0	0	27	10	0	0	1	3	1	3	9	3	0
Champa	0830	245	1008·6	981.4	+0·1	28·9	20.8	15·5	17 6	46	+8	2·2	+0·3	4·5	0	0	25	3	0	8	2	1	2	5	4	5	0
	1730	,,	1002·8	976·3	..	36·6	21.9	11.5	13·6	24	..	3·8	..	5·5	0	1	29	7	1	2	0	0	2	14	4	0	0
Raigarh	0830	220	1008·4	983·9	0	29·8	22·2	17·6	20·5	49	+11	2·2	−0·1	3.0	0	0	27	0	8	1	6	3	2	3	4	3	0
	1730	,,	1002·6	978·6	..	36·5	22·4	13·2	15.6	26	..	3·1	..	2.3	0	0	19	4	3	0	0	0	6	3	3	11	0
Raipur	0530	298	1006·7	973·4	..	25·9	19·3	14·7	17·3	52	..	3·8	..	4.5	0	0	21	1	0	0	0	6	5	4	5	9	0
	0830	,,	1009·0	976·0	+0·8	30·3	20.9	15·1	17·0	43	+9	2.9	+1·2	6.5	0	0	26	3	0	0	0	3	7	9	4	4	0
	1130	,,	1007·4	975·3	..	34·4	22.1	13·9	16·5	32	..	2·1	..	8·9	0	0	29	0	1	0	0	1	11	8	7	1	1
	1730	,,	1003·2	971·3	..	36.0	21·8	12.3	14·5	25	..	3.3	..	6·2	0	0	27	0	2	0	1	3	9	9	3	3	0
	2330	,,	1006·4	973·1	..	29·8	20·2	13.8	15·9	30	..	1·1	..	8.9	0	1	28	3	1	0	3	10	9	2	1	1	0
Kanker	0830	402	1008·7	964·7	+0·5	29·3	22·0	17·7	20·5	52	+8	2·8	+0·4	2·5	0	0	13	0	0	0	1	1	7	0	4	17	0
	1730	,,	1003·3	960·0	..	34·8	22·5	14·8	17·0	33	..	3·5	..	2·2	0	0	22	2	2	0	0	1	9	4	4	8	0
Jagdalpur	0530	553	1008·0	946·6	..	22·5	19·2	17·3	19·7	73	..	3.6	..	0·6	0	0	5	0	1	0	0	0	3	0	1	25	0
	0830	,,	1009.7	949.0	+0·4	26·6	20·4	16.9	19·2	57	+1	2·5	+0·7	4.6	0	2	22	0	0	1	1	9	7	3	3	6	0
	1130	,,	1007 7	948·2	..	32·1	21·6	15.8	17·9	39	..	2·6	..	5.5	0	1	26	2	1	1	0	4	10	3	6	3	0
	1730	,,	1003·9	944·4	..	31·3	21·3	15·6	17·7	42	..	4 8	..	3.0	0	0	19	2	2	0	1	3	9	0	2	11	0
	2330	,,	1007·8	947·0	..	25·3	20·1	17·2	19·6	63	..	2·3	..	2·9	0	0	15	0	0	3	0	7	5	0	0	15	0
Gujarat Region																											
Deesa	0830	136	1009·3	993·9	0	26·6	19·9	15·2	17 8	52	..	0·4	..	4·4	0	0	30	1	4	1	2	4	4	6	8	0	0
	1730	,,	1004·5	989.7	..	37·9	21·6	9·5	12·5	19	..	0·9	..	7·9	0	0	30	2	0	0	0	1	5	17	5	0	0
Radhanpur	0830	30	1009·1	1005·6	..	26·2	23·1	21·1	25·6	76	..	0·3	..	9·5	0	1	29	1	2	1	0	3	4	12	7	0	0
	1730	,,	1005·1	1001·9	..	37·6	24.0	16.7	18·6	28	..	0.9	..	6·6	0	1	24	2	0	0	0	0	3	16	4	5	0
Idar	0330	219	1008·8	984·3	..	27·9	19.2	12.4	15·2	42	..	0.6	..	3·8	0	0	24	7	0	2	1	2	0	10	2	6	0
	1730	,,	1004 3	980·6	..	37·5	20·3	5.9	9·8	15	..	1·2	..	8·4	0	2	27	0	0	0	0	0	4	24	1	1	0
Ahmedabad	0230	55	1007·3	1001·0	..	26.8	18·0	11·1	13 5	39	..	0.2	..	9·9	0	4	21	2	0	0	0	2	1	9	11	5	0
	0530	,,	1007·5	1001·2	..	24.6	18·5	13.7	16·3	52	..	0·6	..	10·5	0	3	20	0	1	1	0	0	2	8	11	7	0
	0830	,,	1009·5	1003 9	−0.2	27·3	20.2	15·0	17.8	51	+3	1·1	0	13 7	0	8	20	3	1	1	1	1	2	6	13	2	0
	1130	,,	1009·6	1003·4	..	34.4	20 8	10·6	13·5	26	..	0·5	..	16·0	0	6	24	4	0	3	1	0	4	6	12	0	0
	1730	,,	1004·8	998·8	..	38.7	20.3	4·5	8·8	13	..	1.7	..	16·6	0	13	16	4	1	0	0	3	3	10	8	1	0
	2330	,,	1007·9	1001·7	..	29·8	18·6	9.3	12 3	30	..	0.4	..	10·1	0	1	24	1	0	0	0	1	7	11	5	5	0
Dohad	0830	333	1009·1	972·1	−0.3	27·6	18.5	11.2	13·9	39	−1	1·1	−0·2	(b) 15·4	0	10	18	1	1	0	4	3	4	12	4	1	0
	1730	,,	1003·8	968·1	..	37·2	19·4	3.7	8.0	13	..	1·2	..	15·2	0	9	21	0	0	0	0	1	11	12	6	0	0
Baroda Aerodrome	0830	38	1009·9	1005·6	..	27·5	21·2	17·0	20·0	55	..	0.9	..	9·6	0	1	28	3	2	0	1	4	7	5	7	1	0
	1130	,,	1009·6	1005·4	..	34·4	22·0	13·8	16.3	31	..	0.9	..	8·5	0	1	27	2	2	0	0	1	11	4	8	2	0
	1730	,,	1004·9	1000.8	..	37·9	21·5	9.4	12·3	19	..	1.9	..	9·4	0	1	29	2	0	0	0	2	9	8	9	0	0
Baroda	0530	34	1007·8	1003·8	..	24·4	19·9	16.8	19·5	64	..	0·3	..	1·5	0	0	14	2	1	0	2	2	4	2	1	16	0
	0830	,,	1010.1	1006.2	+0.3	27·8	21·1	16.9	19·5	53	−1	0.2	−0·8	3·1	0	0	22	1	1	0	4	1	8	5	2	8	0
	1130	,,	1009·9	1006.1	..	35·2	22.3	13·7	16·4	29	..	0·1	..	3·2	0	0	27	1	3	1	2	2	7	8	3	3	0
	1730	,,	1005·2	1001 4	..	38·3	21·7	9.6	12.3	19	.	1.4	..	4·7	0	0	28	1	0	1	1	1	7	9	8	2	0
	2330	,,	1008·1	1004.2	..	28·4	20·9	15.9	18·6	48	..	0.2	..	3·5	0	0	24	1	0	0	1	1	9	7	5	6	0
Broach	0830	17	1009·5	1007.5	−0·1	26·7	21·7	18.3	21.8	64	+5	1·1	−0·3	4·7	0	0	30	0	5	1	3	4	14	1	2	0	0
	1730	,,	1005·0	1003·1	..	37·8	22·8	13·1	15·5	25	..	0·8	..	7·0	0	0	30	0	4	0	3	0	21	0	2	0	0
Surat	0530	12	1007·9	1006·6	..	24·4	22·0	20·6	24·4	80	..	0·9	..	8·1	0	1	24	2	0	1	7	10	0	2	3	5	0
	0830	,,	1010·4	1009·0	+0·5	27·2	23·3	21.2	25·3	71	+9	1·1	−0·4	6.0	0	0	27	3	4	0	1	11	4	1	3	3	0
	1130	,,	1010·4	1009·1	..	33·7	24·6	19.6	23·5	46	..	1·5	..	10·3	0	2	28	7	4	0	0	5	6	6	2	0	0
	1730	,,	1006·2	1004.9	..	33·8	24·5	19.2	23·1	46	..	1·1	..	13·7	0	2	28	0	0	0	0	5	10	6	9	0	0
	2330	,,	1008.6	1007·3	..	27·2	23·7	21·9	26.4	74	..	0·8	..	10·2	0	5	25	1	1	0	0	5	9	8	6	0	0
Saurashtra and Kutch																											
Bhutakia Bhimasar	0830	47	1009·4	1004.0	..	26·1	24·0	22·5	28·3	82	..	0	..	16·4	0	12	15	0	1	0	0	0	7	3	16	3	0
	1730	,,	1005·8	1000·6	..	37·0	26·1	20·6	24·9	40	..	0·3	..	(b) 17.2	0	8	20	1	0	0	0	0	6	5	16	1	0
Nalia	0830	21	1009·3	1006·9	..	25·7	23·0	21.6	25·9	81	..	1·3	..	7·9	0	2	18	0	0	0	1	1	7	7	4	10	0
	1730	,,	1006·8	1004·4	..	31·2	23·4	18.0	22.4	51	..	1·1	..	16·1	0	10	20	0	1	0	0	0	18	9	2	0	0

(b)—Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(Contd.)																											
Bhuj (Rudramata)	0230	80	1007·9	998·7	.	23·8	22·3	21·5	25·6	87	..	0·6	..	10·3	0	3	21	0	0	0	0	0	8	14	2	6	0
	0530	,,	1007·7	998.4	..	22·5	21·4	20·8	24·7	90	..	0·6	..	9.1	0	2	23	0	0	0	0	0	12	7	6	5	0
	0830	,,	1009·4	1000·3	−0.2	26·4	23·2	21·5	25·8	75	+25	1·1	+0.1	11·4	0	4	23	3	0	0	0	0	8	11	5	3	0
	1130	,,	1009.3	1000·4	..	34·9	25·1	21·2	23·8	45	..	1·0	..	15.1	0	6	23	3	2	0	0	0	1	13	10	1	0
	1730	,,	1005·7	996·9		36·5	26·0	20·9	25·0	42	..	1·6	..	19.3	0	16	13	3	2	1	0	0	3	16	4	1	0
	2330	,,	1008·6	999·4	..	25.7	23·1	21·7	26·1	79	..	0·6	..	12·1	0	4	24	0	0	0	0	0	9	18	1	2	0
Kandla (Aerodrome)	0830	35	1009·7	1005·7		26.5	22·6	20.5	24·1	71	..	1·0	..	20 0	0	15	15	1	0	0	2	1	12	7	7	0	0
	1130	,,	1009·6	1005·8	..	34.5	23·2	16.7	19.3	34	.	1·0	..	19·3	0	14	15	2	1	0	2	2	9	9	4	1	0
	*1730	,,	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..
New Kandla	0830	14	1010·0	1003·2	..	25·8	22·4	20·6	24·3	74	..	1·8	..	14·7	0	9	20	5	0	0	0	0	8	12	4	1	0
	1730	,,	1006.5	1004.9	..	32·6	23·3	17·5	21·0	44	..	1·8	..	29 5	0	22	8	1	0	0	0	0	17	12	0	0	0
Mandvi	0830	9	1009·8	1008·7	−0.6	26·2	23·4	22·0	26·4	78	−1	2·1	+0·5	21.6	0	15	15	1	0	0	0	0	10	3	11	0	5
	1730	,,	1006·9	1005·8		28.9	25·1	23·4	28·8	73	..	1·2	..	33.5	0	28	2	4	0	0	0	0	21	5	0	0	0
Surendranagar	0830	74	1009·5	1001·1	−0·3	27·3	23·1	20·8	24 9	69	+11	0·9	−0·4	15·3	0	7	23	2	0	0	0	1	3	12	12	0	0
	1730	,,	1005·0	996 8		38·6	24·8	16·2	20·0	30	..	1.9	..	12.2	0	4	24	2	1	0	1	2	5	11	6	2	0
Jamnagar (Aerodrome)	0530	23	1008·1	1005·5	.	23·0	21·6	20·8	24·7	87	..	0·5	..	13·0	0	4	26	1	0	0	0	2	10	14	3	0	0
	0830	,,	1009·8	1007.2	−0·3	26·1	23·3	21·9	26·3	78	+12	1·5	+0.2	16·4	0	9	19	0	0	0	0	0	10	15	3	2	0
	1130	.	1010·2	1007·7		31·8	23·3	18·7	21·7	47	.	1·0	..	21·5	0	15	15	2	2	0	0	0	1	20	5	0	0
	1730	,,	1006·7	1004·2		32·0	22·7	17·3	20·0	43	..	0·9	..	31·7	0	27	3	1	1	0	0	0	0	23	5	0	0
	2330	,,	1009·1	1006·5	.	25·8	22·9	21·5	25·6	77	..	0·4	..	22·4	0	10	20	0	0	0	0	0	4	25	1	0	0
Dwarka	0830	11	1009·7	1008·4	−0·5	25·9	25·0	24·6	30·9	92	+9	0·9	−1·0	13·0	0	5	25	4	0	0	0	1	4	13	8	0	0
	1730	.	1007·8	1006·5	..	28·3	26·7	26·0	33·8	88	..	0·7	..	17 6	0	11	19	2	0	0	0	0	7	17	4	0	0
Rajkot	0830	138	1009 9	994·3	−0·4	25·6	22·9	21·5	25·6	79	+13	0·3	−0·8	16·7	0	10	20	4	1	0	0	0	7	12	5	0	1
	1130	,,	1009·7	994·5	..	33·6	24·1	18·9	22·2	44	..	0·2	..	18·9	0	12	18	6	4	0	1	0	3	8	8	0	0
	1730	,,	1005 4	990·4	..	37·0	24·6	17·8	20·8	34	..	0·7	..	22 0	0	17	12	5	2	0	0	0	2	12	8	1	0
Bhavnagar Aerodrome	0830	11	1010 1	1008·9	−0·3	28·1	21·4	17·2	20·0	53	+8	0·6	−0·7	14·1	0	6	24	7	0	0	1	4	3	7	7	0	1
	1130	,,	1010·3	1009·1	.	33·8	23·7	16·7	19·7	39	..	0·7	..	18.9	0	13	16	3	8	10	4	1	2	1	0	1	0
	1730	,,	1005 6	1004·4	..	36·2	23·5	15·3	18·5	32	..	1·3	..	30·3		24	6	1	2	7	4	13	3	0	0	0	0
Porbander Aerodrome	0830	7	1010·2	1009·4	.	27·9	23·7	21·9	26·6	75	..	1·2	..	14.6	0	8	22	3	1	2	2	1	3	5	13	0	0
	1130	,,	1010·5	1009·7		31·5	24·1	19·8	24·0	54	..	0·5	..	20·0	0	17	13	1	1	0	0	0	13	9	6	0	0
	1730	,,	1007·6	1006·8	..	30·0	24·3	21·2	25·6	62	..	0·5	..	27.2	0	1	29	0	1	0	0	0	10	19	0	0	0
Porbander	0830	7	1010·1	1009·3	−0.2	25·5	23·7	22·7	27·7	85	+6	2·1	+1·0	7.4	0	0	30	9	1	2	1	0	2	5	10	0	0
	1730	,,	1007·8	1007·0		29·2	25·6	23·9	29·8	75	..	1·7	..	15·9	0	7	23	0	0	0	0	0	10	14	6	0	0
Keshod	0830	51	1010·3	1004.4	..	25·6	22·3	20·3	24·1	75	..	0·6	..	12·2	0	4	26	9	5	0	0	2	4	3	6	0	1
	1130	,,	1010 4	1004·7	.	35·2	21·9	14.4	16·9	34	..	0·6	..	17·7	0	11	19	8	1	1	0	0	2	9	9	0	0
	1730	,,	1007·0	1001·3	..	34·1	21·9	13·8	16·3	32	..	0·2	..	36·2	0	29	1	0	0	0	0	0	3	25	1	0	1
Mahuva	0830	9	..	..		27·9	..	..	..	..	..	2·2	..	5·9	0	0	30	2	8	2	1	3	7	1	6	0	0
	1730	,,	..	..	..	30·4	..	..	..	..	..	(b) 1·4	..	(b) 9·4	0	2	27	0	0	0	4	13	10	0	2	0	0
Veraval	0230	8	1008·3	1007·4	..	24·3	22·8	21·9	26·6	88	..	1·1	..	13·5	0	5	24	6	0	0	0	0	2	4	17	1	0
	0530	,,	1008·2	1007.3	..	23·1	21·7	20·8	24·9	88	..	1·1	..	12·1	0	4	24	10	1	0	0	0	0	2	15	2	0
	0830	,,	1010·2	1009.3	+0.1	25·8	22·9	21·2	25·6	78	+4	1·5	−0·2	13·2	0	8	19	6	1	1	1	1	1	2	14	3	0
	1130	,,	1010·8	1009.9	..	28·9	24·8	22·2	27·9	72	..	1·1	..	18·2	0	15	15	0	1	0	0	2	3	19	5	0	0
	1730	,,	1007.6	1006.7	..	27·9	25·1	23·8	29·5	78	..	1·1	..	25·5	0	26	4	0	0	0	0	1	4	17	8	0	0
	2330	,,	1009·6	1008·7	..	25·5	23·7	22 7	27·7	85	..	0·4	..	13·3	0	5	24	2	0	0	0	0	2	10	15	1	0
Konkan																											
Dahanu	0830	5	1010·2	1009·7	+0.4	27·3	23·3	21·3	25·3	70	−5	3·0	+0·6	7·8	0	0	29	0	2	10	11	2	1	1	2	1	0
	1730	,,	1006·8	1006.3	..	29·9	25·6	23·7	29·3	70	..	1·5	..	23.1	0	24	6	4	0	0	0	0	4	16	6	0	0
Bombay (Santa Cruz)	0230	15	1008·5	1006.8	..	24·6	23·0	22·2	26·7	86	..	1·2	..	3.9	0	0	18	8	4	0	0	6	0	0	0	12	0
	0530	,,	1008·5	1006·9	..	23·9	22·4	21·7	25·9	88	..	1·6	..	3·9	0	0	18	4	7	2	1	1	2	0	1	12	0
	0830	,,	1010·7	1009·0	+0.2	28·2	23·7	21·5	25·6	67	−3	2·8	+0·5	4·5	0	0	17	3	3	3	2	3	2	0	1	13	0
	1130	,,	1010·7	1009.8	..	30·9	24·7	21·7	25·9	58	..	1·6	..	16·0	0	6	24	0	0	0	0	0	6	17	7	0	0
	1730	,,	1007·0	1005.4	..	29·7	24·4	21·7	26.3	63	..	1·1	..	21·1	0	20	10	1	0	0	0	0	3	11	15	0	0
	2330	,,	1009·6	1008.0	..	25·9	23.7	22·6	27·6	82	..	1·2	..	4·6	0	0	23	5	1	0	1	1	4	3	8	7	0
Bombay	0830	11	1010·7	1009·5	+0.3	28·1	24·5	22·9	27·7	73	−2	2·8	+0·5	3·2	0	0	26	3	1	3	5	3	3	1	7	4	0
	1130	,,	1010·9	1009·7	..	30·9	25·4	22·8	27·9	62	..	1·3	..	6.1	0	1	28	1	0	0	1	1	6	10	10	1	0
	1730	,,	1007·1	1005·9	..	30·1	25·5	23·4	28·9	68	..	1·1	..	10.1	0	1	29	2	0	0	0	0	2	10	16	0	0
Alibag	0830	7	1010·7	1009·9	+0.1	27·2	24·2	22·7	27·7	77	+8	1·6	−0.7	5·8	0	1	29	7	8	6	6	1	0	0	2	0	0
Harnai	0830	20	1010·4	1008·1	+0.6	27·1	24·2	22·8	27·9	78	+3	3·8	+1.4	7·9	0	0	28	10	2	5	4	3	1	1	2	2	0
	1730	,,	1007·2	1004·9	..	28·4	25·6	24·3	30·5	76	..	2·8	..	26·5	0	22	8	0	0	0	0	0	2	12	16	0	0

*Data not available.

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—(*Contd.*)																											
Ratnagiri	0830	35	1010·5	1006.5	+0·3	27·7	25·6	24·6	30·0	84	..	4·0	..	4·5	0	0	30	8	5	1	10	2	1	0	2	1	0
	1730	,,	1007·2	1003·3	..	29·8	27·1	26·0	33·8	81	..	2·8	..	13·7	0	3	27	0	1	0	0	0	0	9	20	0	0
Devgarh	0830	36	1010·5	1006.5	+0·4	27·7	24·3	22·7	27·6	74	−2	3·6	0	9·1	0	3	27	5	9	7	2	3	2	0	2	0	0
	1730	,,	1007·1	1003·1	..	30·4	25·5	23·3	28·6	66	..	2·2	..	23·0	0	23	7	1	0	0	0	0	0	6	23	0	0
Vengurla	0230	9	1008·7	1007·7	..	26·0	23·8	22·8	27·7	82	..	2·7	..	0·6	0	0	5	4	0	0	0	0	0	0	1	25	0
	0530	,,	1008·9	1007·9	..	25·3	23·4	22·6	27·3	85	..	3·1	..	2·1	0	0	15	11	1	1	2	0	0	0	0	15	0
	0830	,,	1011·0	1010·0	+0·6	27·9	24·3	22·7	27·4	74	+3	2·6	−0·3	2·9	0	0	19	8	2	4	2	0	1	1	1	11	0
	1130	,,	1010·8	1009·8	..	31·3	25·2	22·3	26·9	59	..	1·9	..	10·7	0	3	26	0	1	0	1	1	13	12	1	1	0
	1730	,,	1007·2	1006·2	..	30·3	25·1	22·7	27·6	64	..	2·3	..	11·7	0	2	28	1	0	0	0	0	7	13	9	0	0
	2330	,,	1010·1	1009·1	..	27·4	24·4	23·0	28·1	77	..	2·2	..	2·1	0	0	15	5	1	0	1	0	3	1	4	15	0
Madhya Maharashtra																											
Nandurbar	0830	206	1009·5	986·5	..	29·1	20·9	15·6	18·1	46	..	1·2	..	(b) 11.1	0	2	25	0	2	0	1	0	11	13	0	2	0
	1730	,,	1004·4	982·1	..	37·5	22·6	12·7	15·3	22	..	1·5	..	(f) 10·5	0	5	20	0	2	0	0	0	7	14	2	0	0
Jalgaon	0830	201	1009.5	986·9	+0·5	28·6	19·2	11·8	14·6	38	−1	1·1	−0·3	19.3	0	13	17	1	0	2	2	0	3	17	5	0	0
	1730	,,	1004·5	982·8	..	39·5	20·7	4·6	9·1	14	..	2·2	..	17.3	0	11	19	5	2	1	0	0	0	16	6	0	0
Malegaon	0830	437	1009·6	961·4	+0·4	28·3	17·9	9·6	12·0	34	−4	1·3	+0·2	8·4	0	1	27	2	1	2	1	3	2	7	10	2	0
	1730	,,	1003·2	956·5	..	37·1	20·1	5·5	9·7	16	.	2·8	..	15·6	0	10	20	10	4	1	0	1	1	4	9	0	0
Deolali (Aerodrome)	0830	571	1010·7	947·7	..	29·6	18·7	14·3	16·5	51	..	1·3	..	6·6	0	1	22	3	0	1	0	4	11	3	1	7	0
	1730	.	1004·9	943·9	..	34·5	20·7	11·7	14·3	28	..	2·3	..	14.3	0	7	22	4	4	3	0	0	2	7	9	1	0
Ahmednagar	0830	657	1009·3	937·6	0	26·9	18.5	12·6	15·2	44	+13	1·7	+0·5	3·1	0	0	19	2	3	0	3	0	1	0	10	11	0
	1730	,,	1002·1	933·0	..	36·6	19·7	7·5	10.7	18	..	3.5	..	4·2	0	0	18	4	1	1	1	0	2	2	7	12	0
Poona (Aerodrome)	0230	593	1008·3	942·6	..	23·1	17·2	13·1	15·3	54	..	0·7	..	9·3	0	1	26	1	0	1	2	0	0	15	8	3	0
	0530	,,	1008·7	942·4	..	21·8	16·6	12·9	15·1	59	..	1·2	..	7·4	0	0	28	2	0	1	0	1	0	17	7	2	0
	0830	,,	1009·9	944·6	..	25·7	17·6	11·7	14·2	43	.	1·5	..	9·9	0	2	28	1	0	1	1	0	3	20	4	0	0
	1130	,,	1007·8	944·3	..	33·6	18·8	7·3	10·9	22	.	1·0	..	11·5	0	4	24	5	1	5	3	1	2	4	7	2	0
	1730	,,	1003·5	940·1	..	35·0	19·9	9·6	12·2	23	..	2·9	..	25·7	0	26	4	1	0	2	0	0	1	16	10	0	0
	2330	,,	1008·9	943·6	..	25·7	18·4	13·5	15·9	49	.	0·9	..	13·4	0	2	28	0	0	1	0	0	0	21	8	0	0
Poona	0530	559	1008·4	946·1	..	22·4	17·6	14·6	16·6	63	.	1·4	..	0·3	0	0	3	0	0	0	0	0	1	1	1	27	0
	0830	,,	1009.8	948·2	0	26·2	18·5	13·6	15·7	47	−3	0·9	−0·5	0·7	0	0	6	1	0	0	0	1	3	1	0	24	0
	1130	,,	1007.5	947·6	..	34·2	19·2	8·5	11·2	22	.	0·6	..	2·5	0	0	20	2	6	0	2	1	1	1	7	10	0
	1730	,,	1003·0	943·6	..	35·3	20.8	11·3	13·9	25	..	2·2	..	8·1	0	0	30	0	8	1	1	0	6	5	8	0	1
	2330	,,	1008·4	946·9	..	26·4	19·6	15·6	17·8	53	..	1·0	..	2·0	0	0	13	0	1	0	0	0	7	4	1	17	0
Jeur	0830	521	1008·9	951·7	−0.1	27.5	18·6	12·4	14·9	43	−2	2·1	−0·2	10·3	0	2	28	3	1	3	2	2	2	6	11	0	0
	1730	,,	1001·8	946·7	..	37·0	19·9	7·8	10·7	19	.	4·7	..	11·1	0	5	25	3	3	2	2	3	4	7	6	0	0
Baramati	0830	551	1009·5	949·1	+0·4	27·3	18·4	12·3	14·7	43	−2	1·5	−0·4	6·2	0	1	29	12	0	0	1	1	2	3	11	0	0
	1730	,,	1002·1	943·9	..	36·4	19.9	7·9	11·0	19	..	2·9	..	13·5	0	5	25	3	2	2	1	3	5	5	9	0	0
Sholapur	0530	479	1007·9	954·8	..	25·1	19·7	16·6	19·0	60	..	2·8	.	6·7	0	0	28	3	2	3	4	2	4	4	6	2	0
	0830	,,	1009·5	956·9	+0.5	28·1	21·0	17·1	19·7	53	+15	2·3	+0·7	5·9	0	0	30	4	0	5	3	4	5	1	8	0	0
	1130	,,	1007·9	956·3	..	34·3	22·5	16·1	18·5	36	..	1·1	..	8·8	0	1	28	6	1	2	6	3	3	4	4	1	0
	1730	,,	1002·4	951·5	..	36·6	22·4	14·8	16·6	29	..	4·0	..	7·8	0	1	29	4	4	4	2	4	4	5	3	0	0
	2330	,,	1007·8	955.3	..	29·0	20·6	15·7	18·1	48	..	3·3	..	11·3	0	2	27	4	2	2	7	3	4	4	3	1	0
Miraj	0830	554	1010·3	949·2	+0.4	25·2	21·0	18·8	21.8	68	+6	3·3	+1·5	..	..	..	..	3	0	1	1	2	1	6	9	7	0
	1730	,,	1002·9	944·2	..	35·3	21·9	14·0	16·2	29	..	5·5	..	..	..	..	..	2	0	2	5	2	2	11	3	3	0
Kolhapur	0530	570	1008·7	945·3	..	22·0	19·8	18·7	21·4	82	..	2·6	..	6·0	0	1	26	0	0	0	1	0	6	20	0	3	0
	0830	,,	1010·1	947.2	+0·2	25·0	20.7	18·5	21·1	68	+2	1·8	0	6·8	0	0	27	0	1	0	0	0	5	18	3	3	0
	1130	,,	1008·0	946.7	..	32·5	21·7	15.7	18.1	38	..	1·5	..	8·6	0	1	28	1	4	5	1	0	6	10	2	1	0
	1730	,,	1004.0	942·9	..	32·1	22·6	17·7	20·5	44	..	3·3	..	24·4	1	21	8	0	1	0	0	1	2	26	0	0	0
	2330	,,	1009·2	946·3	..	24·7	20·9	18·9	22·0	71	..	1·7	..	10·5	0	2	27	0	0	0	1	0	3	23	2	1	0
Marathwada																											
Aurangabad	0830	581	1009·5	946·1	+0·2	28·6	17·7	9·4	11·9	33	+2	1·6	+0.2	7·3	0	4	20	7	3	2	1	0	3	5	3	6	0
	1730	,,	1002·9	941.8	..	36·2	19·2	6·5	9·7	18	..	3·9	..	9·1	0	4	23	7	1	2	0	0	1	5	11	3	0
Aurangabad (Chikalthan)	0230	579	1007·1	943·3	..	25·1	17·9	12.6	15·3	49	..	0·7	..	7·3	0	1	18	4	0	2	0	0	0	4	9	11	0
	0530	,,	1008·0	943·6	..	22·8	16·4	11·6	14·0	52	..	1·0	..	6·7	0	0	18	4	0	1	0	0	0	11	2	12	0
	0830	,,	1008·8	945·8	..	29·2	20·5	15·1	17·7	46	..	1·0	..	11·6	0	5	18	6	0	2	0	0	0	3	12	7	0
	1130	,,	1007·4	945·4	..	34·4	22·0	14·7	17·4	34	..	0·7	..	15·5	0	10	17	4	5	4	1	1	2	2	8	3	0
	1730	,,	1002·5	941·2	..	35·9	22.3	14·2	16·9	31	..	3·3	..	13·0	0	6	20	4	4	1	1	0	0	3	13	4	0
	2330	,,	1007·5	944·2	..	27·4	18.6	12·5	15·0	43	..	1·2	..	13·0	0	6	21	6	0	2	0	1	0	4	14	3	0

(b) Mean of 29 days. (f) Mean of 25 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure: At station level	Mean pressure: Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount: Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*Contd.*																											
Parbhani	0830	423	1009.3	962.7	+0.7	28.5	18.3	9.3	12.7	35	−6	1.7	0	10.1	0	2	28	1	1	2	2	3	4	9	8	0	0
	1730	,,	1002.5	957.5	..	37.4	20.1	5.0	9.4	17	..	4.1	..	10.2	0	5	25	0	5	3	5	1	1	9	6	0	0
Nanded	0830	358	1009.3	969.8	..	29.6	20.3	13.8	16.3	41	..	0.8	..	6.2	0	2	22	0	1	1	0	0	11	5	6	6	0
	1730	,,	1003.3	965.9	..	37.4	22.6	13.0	15.4	25	..	2.4	..	5.6	0	1	24	0	6	0	0	0	11	3	5	5	0
Bir	0830	519	1009.8	952.9	..	28.5	21.8	18.4	21.3	54	..	1.9	..	8.2	0	0	29	1	1	0	2	0	2	2	21	1	0
	1730	,,	1002.9	947.8	..	36.6	..	..	..	..	..	(c) 3.9	..	7.7	0	1	26	1	5	1	6	1	1	1	11	1	0
Vidarbha																											
Gondia	0830	313	1009.3	974.6	+0.6	29.0	20.4	14.7	16.9	44	+5	2.6	+0.8	7.7	0	1	26	1	1	0	6	12	5	1	1	3	0
	1730	,,	1002.9	969.3	..	36.9	21.1	9.1	12.1	21	..	2.5	..	3.9	0	0	26	2	4	0	4	4	9	1	2	4	0
Nagpur (Sonegaon)	0230	310	1005.9	971.3	..	26.3	18.1	11.3	14.0	43	..	2.4	..	4.5	0	1	24	2	3	0	3	1	8	4	4	5	0
	0530	,,	1006.8	972.9		24.2	17.4	11.7	14.4	49	..	2.4	..	3.0	0	1	15	3	1	2	1	1	1	2	5	14	0
	0830	,,	1008.8	974.4	0.4	29.7	19.5	11.7	14.0	36	+3	2.1	+0.3	7.7	0	1	25	3	3	2	3	7	3	3	2	4	0
	1130	,,	1007.4	973.8	..	35.8	21.2	10.5	13.3	24	..	1.1	..	8.2	0	3	20	1	1	3	4	1	5	3	5	7	0
	1730	,,	1002.4	969.1	..	37.4	20.7	7.4	10.3	18	..	3.6	..	7.1	0	2	21	5	2	1	3	2	1	5	4	7	0
	2330	,,	1005.6	972.2	..	28.2	19.6	10.9	15.9	39	..	2.3	..	5.7	0	2	16	1	1	1	2	3	5	4	1	12	0
Amraoti	0830	370	1008.5	967.6	+0.2	28.8	18.3	9.4	11.8	34	+6	1.4	−0.8	5.5	0	0	30	1	7	2	1	6	9	3	1	0	0
	1730	,,	1001.5	962.1	..	37.7	20.2	5.5	9.0	16	..	2.4	..	6.2	0	0	29	9	3	0	1	1	4	7	4	1	0
Akola Aerodrome	0530	309	1006.7	972.1	..	25.0	16.2	8.2	11.2	39	..	2.0	..	5.4	0	1	25	0	0	3	1	0	5	15	2	4	0
	2330	,,	1006.1	972.0	..	29.8	18.1	7.6	11.2	30	..	1.7	..	5.7	0	0	25	2	3	3	3	2	0	9	3	5	0
Akola	0830	282	1008.8	977.5	+0.3	29.0	18.9	11.0	13.1	36	+8	0.9	−0.6	1.9	0	0	20	0	1	1	1	0	0	16	1	10	0
	1130	,,	1007.6	977.0	..	35.9	20.9	9.5	12.7	23	..	1.4	..	6.3	0	0	28	0	0	1	2	0	4	11	10	2	0
	1730	,,	1002.5	972.3	..	38.4	21.1	7.5	10.4	19	..	3.3	..	3.8	0	0	24	1	1	0	3	0	2	12	5	6	0
Brahmapuri	0830	229	1009.4	983.8	..	28.4	20.9	16.2	18.6	49	..	2.6	..	10.5	0	3	27	2	0	0	4	16	6	1	1	0	0
	1730	,,	1003.3	978.6	..	37.5	21.8	16.9	13.3	22	..	3.2	..	7.7	0	2	27	6	2	3	2	4	3	4	4	1	1
Buldana	0830	650	1009.1	938.1	+0.6	26.9	18.1	11.6	14.2	40	+2	1.3	−0.8	2.3	0	0	29	0	4	0	7	1	0	0	17	1	0
	1730	,,	1002.9	934.3	..	35.2	20.9	11.2	14.0	27	..	2.5	..	1.7	0	0	20	0	2	0	0	0	0	0	18	10	0
Yeotmal	0830	451	1007.9	958.4	−0.4	29.5	19.2	11.1	13.9	37	+3	3.7	+1.0	22.1	0	19	11	2	2	1	3	6	7	3	6	0	0
	1730	,,	1002.2	954.2	..	37.1	20.5	7.2	10.6	18	..	3.2	..	13.7	0	7	23	2	5	2	1	3	3	9	4	0	1
Chanda	0830	193	1009.1	987.5	+0.4	29.6	22.1	17.7	20.5	52	+15	2.0	+6.3	8.2	0	1	28	0	1	2	15	6	1	3	1	1	0
	1730	,,	1002.9	982.0	..	37.5	22.6	13.0	15.3	26	..	3.0	..	5.7	0	0	30	5	1	6	7	6	2	1	2	0	0
Pusad	0830	334	1009.0	972.6	..	29.6	21.6	16.6	19.3	48	..	1.5	..	4.3	0	0	30	2	2	2	8	1	5	1	9	0	0
	1730	,,	1003.1	967.6	..	38.3	24.3	16.1	18.9	29	..	3.0	..	3.9	0	0	30	3	4	2	3	0	3	5	10	0	0
Sironcha	0830	123	1010.3	996.4	+0.5	28.5	23.1	20.2	23.7	62	+9	2.7	+0.1	6.9	0	1	29	3	0	6	10	9	1	1	0	0	0
	1730	,,	1004.0	990.6	..	37.3	23.4	15.1	17.1	28	..	1.9	..	7.7	0	0	29	1	0	1	1	0	9	6	2	1	0
Coastal Andhra Pradesh																											
Kalingapatnam	0830	6	1009.9	1009.2	+0.4	29.0	26.2	25.0	31.7	80	+6	1.5	−1.1	8.9	0	2	28	0	0	0	1	6	18	3	2	0	0
	1730	,,	1005.9	1005.3	..	29.1	27.0	26.1	33.8	85	..	3.6	..	12.0	0	2	27	0	0	0	0	9	18	1	1	1	0
Visakhapatnam	0230	3	1007.5	1007.1	..	26.9	24.6	23.6	28.9	82	..	2.2	..	5.3	0	0	16	0	0	1	1	0	9	3	2	14	0
	0530	,,	1008.1	1007.7	..	26.2	24.0	23.0	28.1	83	..	2.6	..	4.9	0	0	15	1	0	0	0	1	7	5	1	15	0
	0830	,,	1010.2	1009.8	+0.4	29.9	24.6	22.1	26.6	64	−8	2.8	−0.7	13.1	0	2	26	0	0	0	0	1	18	9	0	2	0
	1130	,,	1009.5	1009.1	..	31.3	25.8	21.8	26.3	49	..	2.1	..	19.3	0	15	15	0	0	0	1	16	11	1	1	0	0
	1730	,,	1006.5	1006.1	..	30.2	25.7	23.8	29.3	69	..	3.7	..	17.9	0	10	20	0	0	0	1	14	15	0	0	0	0
	2330	,,	1008.8	1008.4	..	27.4	25.0	23.9	29.7	81	..	2.2	..	9.4	0	4	20	0	1	2	0	4	13	4	0	6	0
Kakinada	0830	8	1010.8	1009.9	+0.7	30.2	25.9	24.1	30.0	70	−3	4.0	−0.1	11.4	0	0	30	0	1	0	25	0	3	0	1	0	0
	1730	,,	1006.3	1005.4	..	32.3	26.3	23.7	29.3	61	..	2.2	..	15.2	0	0	30	0	0	0	28	0	2	0	0	0	0
Nidadavole	0830	12	1010.4	1009.0		28.5	25.9	24.8	31.3	80	..	6.5	..	3.6	0	0	26	0	5	7	5	2	3	2	2	4	0
	1730	,,	1006.0	1004.6	..	32.1	26.1	23.5	28.9	61	..	4.2	..	4.6	0	0	30	0	0	1	13	7	9	0	0	0	0
Rentachintala	0830	106	1010.0	998.1	..	29.8	24.2	21.5	25.6	62	+5	3.7	−0.7	2.9	0	0	30	3	0	1	7	6	7	6	0	0	0
	1730	,,	1004.5	992.9	..	36.7	23.3	15.4	17.6	30	..	4.2	..	3.3	0	0	30	2	0	8	5	10	0	4	1	0	0
Gannavaram	0230	24	1007.6	1004.9	..	26.4	25.3	24.9	31.5	92	..	2.6	..	4.3	0	0	20	1	3	2	5	5	3	1	0	10	0
	0530	,,	1008.2	1005.5	..	25.7	25.0	24.6	31.1	94	..	3.7	..	3.8	0	0	16	0	3	5	3	2	1	1	1	14	0
	0830	,,	1010.7	1007.9	+1.0	29.1	26.4	25.3	32.2	80	+8	4.5	+0.6	11.2	0	4	26	1	1	2	5	14	6	1	0	0	0
	1130	,,	1009.7	1007.0	..	33.9	27.4	24.6	31.1	59	..	2.5	..	14.9	0	8	22	1	0	1	4	18	5	0	1	0	0
	1730	,,	1005.7	1003.1	..	34.0	26.8	23.6	29.3	56	..	3.7	..	16.7	0	11	19	1	0	0	7	16	3	1	2	0	0
	2330	,,	1009.0	1006.3	..	27.4	25.9	25.2	32.2	88	..	2.4	..	6.7	0	0	23	0	1	1	10	9	2	0	0	7	0
Nagarjunakonda	0830	..	..	..	..	31.2	23.7	19.6	23.2	52	..	2.9	..	11.1	0	3	24	2	1	2	6	3	2	3	8	3	0
	1730	..	..	..	..	36.1	23.8	16.7	19.5	34	..	3.9	..	17.9	0	11	19	3	1	3	16	3	0	1	3	0	0
Masulipatam	0830	3	1010.7	1010.3	+0.4	29.8	26.0	24.4	30.5	73	−3	5.4	+2.0	4.5	0	0	29	1	0	0	2	23	3	0	0	1	0
	1730	,,	1006.5	1006.2	..	30.2	26.1	24.3	30.4	71	..	3.2	..	5.1	0	0	30	0	0	0	8	22	0	0	0	0	0
Ongole	0830	12	1010.0	1008.7	..	30.2	26.6	25.1	31.9	74	..	3.3	..	5.1	0	0	30	1	1	1	21	4	1	0	1	0	0
	1730	,,	1005.8	1004.5	..	31.5	28.1	26.7	35.2	76	..	4.1	..	7.2	0	0	30	1	1	7	20	1	0	0	0	0	0

(c) Mean of 28 days

4—612 D. D. G. Obs. Poona/65

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean temperature in °C. Dry bulb	Mean temperature in °C. Wet bulb	Mean temperature in °C. Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km p.h.) 62 or more	Wind speed (km p.h.) 20 to 61	Wind speed (km p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh —*Contd.*																											
Nellore	0530	20	1007·6	1005·4	..	26·1	24·6	23·9	29·7	88	..	2·9	..	0·1	0	0	2	0	0	1	1	0	0	0	0	28	0
	0830	,,	1010·0	1007·8	+0·6	30·3	25·7	23·6	29·3	68	—3	3·3	+0·3	4·3	0	0	24	0	0	1	18	2	2	1	0	6	0
	1130	,,	1009·3	1007·1	..	35·3	25·7	21·1	25·0	44	..	2·9	..	4·5	0	0	29	0	0	4	23	0	1	1	0	1	0
	1730	,,	1006·1	1003·9	..	31·5	26·1	23·8	29·3	64	..	3·5	..	4·9	0	0	29	0	0	11	15	0	0	0	0	1	0
	2330	,,	1008·7	1006·5	..	28·0	25·6	24·5	30·9	82	..	1·4	..	0·7	0	0	7	0	0	1	6	0	0	0	0	23	0
Telangana Ramgundam	0830	156	1009·4	991·9	+0·2	28·7	23·0	19·9	23·5	61	+11	4·3	+1·6	8·3	0	1	27	3	1	2	10	9	1	0	2	2	0
	1730	,,	1003·8	986·7	..	37·2	23·3	15·0	17·1	63	..	3·1	..	4·9	0	0	22	4	1	1	3	8	2	3	0	8	0
Nizamabad	0830	381	1009·2	967·1	+0·4	29·0	21·3	16·5	19·0	50	+8	2·5	+0·6	0·7	0	0	10	0	0	1	2	2	2	0	3	20	0
	1730	,,	1003·1	962·2	..	36·6	22·7	13.8	16·3	27	..	3·0	..	0·9	0	0	10	2	2	2	1	1	0	0	2	20	0
Hanamkonda	0830	269	1009·9	979·0	—0·4	27·4	23·4	21·4	25·5	71	+13	3·0	+0·4	2·6	0	0	29	0	2	0	3	21	0	3	0	1	0
	1730	,,	1005·2	976·1	..	35·3	23·3	16·1	18·8	35	..	2·1	..	2·3	0	0	30	2	0	0	6	16	0	4	2	0	0
Hakimpet Aerodrome	0530	613	1008·0	940·4	..	23·7	19·7	17·4	20·0	69	..	4·0	..	9·6	0	5	19	0	2	3	7	2	5	4	1	6	0
	0830	,,	1009·5	942·3	..	26·6	20·4	16·9	19·4	57	..	4·2	..	10·6	0	2	28	1	3	1	5	4	10	2	4	0	0
	1130	,,	1007·9	941·9	..	31·7	21·3	14·9	17·6	39	..	3·2	..	14·0	0	6	24	1	1	3	3	4	11	4	3	0	0
	1730	,,	1004·2	938·8	..	32·9	20·7	13·1	15·4	32	..	4·2	..	11·6	0	3	26	5	2	3	8	6	1	1	3	1	0
Bhadrachallam	0830	111	1010·4	998·0	+0·2	28·3	24·2	22·3	26·9	71	+3	6·1	+2·5	6·2	0	0	30	6	2	3	8	1	3	2	5	0	0
	1730	,,	1004·6	992·4	..	36·0	23·9	17·1	19·7	34	..	3·2	..	3·9	0	0	30	0	4	0	11	0	3	1	11	0	0
Hyderabad (Begampet)	0230	545	1007·2	947·1	..	25·0	20·4	17·9	20·6	67	..	3·4	..	6·7	0	2	18	1	1	3	7	3	2	0	3	10	0
	0530	,,	1008·0	947·7	..	23·5	19·8	17.6	20·4	71	..	4·0	..	6·0	0	2	19	2	1	5	4	2	0	4	5	9	0
	0830	,,	1009.7	950·0	+1·2	27·0	20·7	17·2	19·7	57	+2	3·8	+1·7	8·6	0	0	26	3	2	3	4	4	7	2	1	4	0
	1130	,,	1008.1	949·5	..	32·3	21·2	14·7	17·0	37	..	3·2	..	13·2	0	4	24	1	1	2	2	5	7	8	2	2	0
	1730	,,	1003·8	945·5	..	33·3	20·9	13·3	15·7	33	..	4·1	..	12·0	1	2	23	2	4	1	9	5	1	0	4	4	0
	2330	,,	1007·9	948·2	..	27·1	20·6	17·0	19·5	56	..	2·8	..	6.9	0	0	21	0	1	0	11	6	0	2	1	9	0
Khammam	0830	112	1010·3	997·7	..	27·7	25·4	24·9	30·5	82	..	4·0	..	7·2	0	0	29	2	0	10	4	12	0	1	0	1	0
	1730	,,	1004·9	993·3	..	35·3	25·7	21 0	25·2	46	..	4·0	..	5·5	0	1	23	2	0	5	3	3	0	5	1	6	0
Mahbubnagar	0830	505	1009·3	953·9	..	28·3	21·3	17·2	20·2	53	..	3·8	..	9·1	0	1	28	0	2	5	1	3	9	3	6	1	0
	1730	,,	1003·5	949·5	..	34 9	21·4	13·3	15·6	29	..	3·8	..	5·1	0	0	28	1	2	7	6	4	3	1	4	2	0
Rayalaseema Kurnool	0830	281	1010·2	978·9	+1·3	29·0	23·2	20·1	23·7	60	+9	2·4	+0·5	3·5	0	0	28	2	0	4	2	7	5	8	0	2	0
	1730	,,	1003·9	973·6	..	36·4	24·0	16·8	19·6	35	..	3·0	..	3·1	0	0	28	3	2	8	12	1	0	1	1	2	0
Anantapur	0530	350	1007·6	968·6	..	25·7	20 2	16 4	19·2	59	..	3·0	..	4·9	0	2	15	0	0	0	3	1	6	4	1	15	0
	0830	,,	1009·6	970·9	+0 8	28·5	21·7	17·5	20·2	53	0	2·6	+0·3	8·5	0	0	27	3	1	0	2	3	4	10	3	3	1
	1130	,,	1008·5	970·4	..	33·5	22 2	15·2	17·6	35	..	2·9	..	7·3	0	0	26	4	1	5	3	1	4	3	5	4	0
	1730	,,	1003·2	965·6	..	36·3	21·3	10 2	13·0	23	..	4·3	..	11·3	0	5	23	1	6	8	6	1	1	3	2	2	0
	2330	,,	1008·0	969·4	..	29·4	21·0	15·3	18·1	46	.	3·6	..	11·5	0	6	18	1	1	10	6	3	1	2	0	6	0
Cuddapah	0830	130	1010·2	995·6	+0.9	30·9	24·0	20·5	24·1	55	0	1·6	—0.6	1·1	0	0	7	0	0	6	0	0	0	1	0	23	0
	1730	,,	1004·4	990.3	..	36·8	25·1	19·1	22·2	38	..	3·0	..	5·2	0	0	22	0	5	14	2	0	0	0	1	8	0
Arogyavaram	0830	701	1010·1	933·7	..	25·5	21·0	18·6	21·6	66	..	3·3	..	4·8	0	0	27	4	2	0	3	12	2	3	1	3	0
	1730	,,	1004·3	929·7	..	31·6	20·7	14·0	16·4	37	..	5·2	..	7·7	0	0	30	4	2	13	5	5	0	1	0	0	0
Madras State Madras	0830	6	1010·6	1009·9	..	30·0	25·7	23·9	29.7	71	..	4·0	..	7·7	0	0	29	0	0	0	0	6	20	2	1	1	0
Madras (Minambakkam)	0230	16	1008·1	1006·4	..	27·2	25·7	25·1	31·9	88	..	1.6	..	4·7	0	1	16	0	0	0	4	9	3	1	0	13	0
	0530	,,	1008·6	1006·9	..	26·5	25·3	24·7	31·3	90	..	2·5	..	3·8	0	0	18	0	0	0	0	10	5	3	0	12	0
	0830	,,	1010·7	1009.0	+0·9	30·0	26·0	24·3	30·4	72	+1	3·4	0	10·4	0	0	30	0	0	0	1	15	9	5	0	0	0
	1130	,,	1010·0	1008·3	..	33·6	26·6	23·7	29·1	57	..	3·7	..	13·1	0	3	27	0	0	1	12	9	4	2	2	0	0
	1730	,,	1006 6	1004·9	..	31·4	26·9	25·1	31·9	70	..	2·8	..	14·8	0	4	25	0	0	5	19	5	0	0	0	1	0
	2330	,,	1009 6	1007·9	..	28·2	26·1	25·3	32·2	85	..	2·0	..	10·2	0	2	25	0	0	0	14	12	1	0	0	3	0
Vellore	0530	214	1008 7	984·5	..	25·0	23·3	22·4	27·3	86	..	3·3	..	1·0	0	0	8	0	0	0	1	7	0	0	0	22	0
	0830	,,	1010·3	986·4	+0·7	28·4	24·4	22·6	27·3	71	+1	3·2	+1·0	1·2	0	0	13	0	0	0	0	9	1	3	0	17	0
	1130	,,	1009·4	985·8	..	33·2	25·5	21·8	26·3	52	..	3·2	..	4.9	0	0	28	0	1	6	2	12	2	4	1	2	0
	1730	,,	1005·4	982·0	..	33·9	24·6	19·9	23·2	45	..	3·8	..	11·0	0	1	29	0	3	8	8	6	3	1	0	0	0
	2330	,,	1009·5	985·6	..	27·8	24·5	23·0	27·9	75	..	2·5	..	5·3	0	0	22	0	0	1	13	7	1	0	0	8	0
Tambaram (Aerodrome)	0830	29	1010·5	1007·2	..	30·2	27·1	25·9	33·4	78	..	3·7	..	13·3	0	2	28	0	0	1	3	8	14	3	1	0	0
	1730	,,	1006 5	1003·3	..	31·8	27·3	25·3	32·6	70	..	3·0	..	19.8	0	16	14	0	0	0	15	15	0	0	0	0	0
Tiruppattur	0830	390	1010 3	967·1	..	26·9	23·5	21·8	26·1	74	..	4·0	..	3·1	0	0	26	11	6	5	0	1	0	2	1	4	0
	1730	,,	1005·0	962·6	..	31·8	24·9	21·4	25·6	58	..	5·4	..	11·7	0	2	28	10	5	11	0	3	0	1	0	0	0
Cuddalore	0530	12	1008·1	1006·8	..	26·3	24·8	24·2	30·0	88	..	4·6	..	3·1	0	0	14	0	0	0	4	6	1	0	3	16	0
	0830	,,	1010·4	1009·1	+0.3	29·7	25·8	24·1	30·0	71	—4	5·0	+1·6	7·4	0	0	27	0	3	1	8	6	9	0	0	3	0
	1130	,,	1009·9	1008·6	..	32·8	26·3	23·5	28·9	59	..	4·3	..	14·7	0	9	21	0	1	0	22	5	2	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.* Cuddalore—(*contd.*)	1730	12	1006·5	1005·2	..	30·2	26·3	24·6	31·1	72	..	4·4	..	15·0	0	7	23	0	0	3	26	1	0	0	0	0	0
	2330	,,	1009·3	1008·0	..	28·4	25·8	24·7	31·1	81	..	3·8	..	7·4	0	0	26	0	0	0	20	5	1	0	0	4	0
Kallakkurichchi	0830	127	1010·2	996·0	..	29·0	26·0	24·7	31.1	78	..	3.0	..	5·1	0	0	23	3	0	0	8	12	0	0	0	7	0
	1730	,,	1005·0	991·1	..	34·3	26·6	23.8	28.6	57	..	4·4	..	10.3	0	1	25	0	3	11	9	2	1	0	9	4	0
Salem	0530	278	1008·7	977·5	..	25·4	22·8	21·6	25·6	79	..	5·2	..	2·0	0	0	12	0	5	6	1	0	0	0	0	18	0
	0830	,,	1010.4	979·4	+0·5	28·3	23·6	21·3	25·3	66	—5	4·0	+1·3	2·6	0	0	16	0	2	8	2	1	1	2	0	14	0
	1130	,,	1009·1	978·6	..	33·0	23·8	18·8	22·0	44	..	4·7	..	4·7	0	0	25	0	0	9	3	4	7	2	0	5	0
	1730	,,	1004 7	974·5	..	33·3	22·9	16·7	19·4	40	..	5·6	..	7·3	0	1	26	0	5	18	2	1	0	1	0	3	0
	2330	,,	1009·2	978·3	..	28·2	23·4	21·0	24·9	66	..	4·2	..	7·5	0	2	21	0	4	14	2	2	0	0	1	7	0
Coimbatore (Pilamedu)	0530	399	1008·8	964·2	..	23·4	21·9	21·2	25·0	87	..	3·3	..	5·7	0	1	20	1	5	2	1	4	5	2	0	9	1
	0830	,,	1010 5	966·3	..	27·0	23·2	21·2	25·3	71	..	3·2	..	7.5	0	1	23	3	8	2	0	3	5	2	1	6	0
	1130	,,	1009·3	965·8	..	31·4	23·5	19·2	22·5	49	..	3·6	..	10·1	0	2	27	0	9	9	2	3	5	0	1	1	0
	1730	,,	1005·2	961·8	..	31·6	22·7	17·4	20·2	46	..	4·9	..	14·7	0	7	21	1	0	7	0	4	11	4	1	2	0
	2330	,,	1009·7	965·2	..	25·4	22·9	21·7	25·9	80	..	3·6	..	12·1	0	5	23	0	0	0	0	8	18	0	2	2	0
Coimbatore	0830	409	1010·7	965·4	+0·9	26.9	22·9	20·8	24 6	69	—8	3·4	+0·3	16·4	0	10	20	2	3	4	4	9	7	0	1	0	0
	1730	,,	1005·1	960.8	..	31·9	23·1	18·1	21.0	45	..	5·6	..	18·9	0	14	16	1	2	3	4	9	8	1	2	0	0
Nagapattinam	0830	9	1010·9	1009.8	+0·8	30.2	26·1	24.4	30·4	71	—2	4·5	+0·7	10·9	0	5	24	0	1	6	10	2	8	2	0	1	0
	1730	,,	1006·8	1005.7	..	30.7	26.6	24.8	31·5	71	..	4·0	..	21·1	0	20	10	0	0	9	18	2	1	0	0	0	0
Tiruchirappalli	0230	88	1008·3	998.4	..	26.9	24.6	23·5	28·9	82	..	2·7	..	7·3	0	0	27	4	1	5	1	9	3	3	1	3	0
	0530	,,	1008.8	998.8	..	26·1	24.3	23·4	28·9	85	..	3·7	..	5·9	0	0	21	4	1	3	2	6	1	2	2	9	0
	0830	,,	1010·9	1001.0	+0·6	29.3	25.2	23·4	28·6	71	—2	3.3	+0·3	8·2	0	0	26	0	6	2	0	6	8	4	0	4	0
	1130	,,	1010.0	1000.3	..	33.2	25.6	22·1	26·6	52	..	3·4	..	10·4	0	1	28	1	2	5	4	5	7	3	2	1	0
	1730	,,	1005·7	996·0	..	33·8	24.9	20·5	24·1	48	..	4·5	..	14.5	0	5	25	0	2	8	13	6	0	0	1	0	0
	2330	,,	1009·8	999·9	..	28.2	24·9	23·4	28·8	75	..	3·7	..	13·3	0	4	25	0	1	7	6	11	0	2	2	1	0
Vedaranniyam	0830	4	1010·7	1010·2	..	31·0	26.7	25·0	31·5	71	..	4·6	..	9·0	0	0	30	0	3	3	11	4	9	0	0	0	0
	1730	,,	1006·8	1006·3	..	31·2	27·0	25·4	32·2	72	..	3·3	..	8·0	0	0	30	0	0	6	15	5	4	0	0	0	0
Atirampattinam	0830	6	1010·5	1009·8	..	29·8	26·0	24·4	30.5	73	..	4·8	..	10·7	0	3	27	1	4	1	2	5	12	0	5	0	0
	1730	,,	1006·6	1005·9	..	31·1	26·2	24·1	30·0	67	..	4.2	..	20·9	0	20	9	0	0	2	10	15	2	0	0	1	0
Madurai	0830	133	1010.5	995.6	+0·5	29·1	25·7	24·2	30·2	75	+7	5·8	+1·7	3·3	0	0	25	1	13	2	5	0	3	0	1	5	0
	1730	,,	1005·5	990·9	..	34·0	26·8	23·6	29·3	56	..	4·8	..	5·9	0	0	27	0	2	4	13	6	1	0	1	3	0
Madurai Aerodrome	0530	131	1008·6	993·8	..	25·6	24·0	23·3	28·6	88	..	3·8	..	5·0	0	0	22	1	5	7	5	2	1	0	1	8	0
	0830	,,	1010·7	995·9	..	28·6	25·0	23·4	28·8	74	..	4·8	..	9·0	0	0	29	5	12	4	2	5	1	0	0	1	0
	1130	,,	1009·9	995·4	..	32·1	25·1	21·7	26·1	55	..	5·6	..	9·3	0	1	29	1	6	5	4	5	2	2	2	0	3
	1730	,,	1005·6	991·1	..	33·5	24·8	20 3	24·1	48	..	5·8	..	15.7	0	11	19	0	1	10	8	8	1	1	0	0	1
Tondi	0830	5	1010·7	1010·1	..	30·0	26·3	24·6	31·1	73	..	6·1	..	9.0	0	1	25	1	2	4	10	3	6	0	0	4	0
	1730	,,	1006·9	1006·3	..	30·7	26·6	24·9	31·5	72	..	5·2	..	24·0	0	22	8	0	1	7	15	6	0	1	0	0	0
Pamban	0830	11	1010·7	1009·4	+0·9	29·4	26·4	25·1	31·9	78	+2	3·9	+1·1	7·0	0	0	20	0	3	0	9	1	7	0	0	10	0
	1730	,,	1007·0	1005·7	..	30·1	26·9	25·6	32.8	77	..	2·7	..	8·6	0	1	24	0	1	4	5	8	6	1	0	5	0
Tuticorin	0830	4	1010·9	1010·5	+0·6	29·3	25·7	24·1	30.0	74	0	4·1	+0.7	7·9	0	2	28	1	8	0	3	0	9	6	3	0	0
	1730	,,	1006·9	1006.5	..	30.5	26·4	24·6	31.1	71	..	5.1	..	22·1	0	21	9	0	0	5	10	13	2	0	0	0	0
Palayankottai	0830	51	1010·8	1005·1	+0·8	28·8	25.0	23·2	28·6	72	—3	4·8	+1·0	1·7	0	0	13	6	0	2	0	2	0	3	0	17	0
	1730	,,	1006.5	1000.9	..	31·6	25.3	22.4	26.9	59	..	5.5	..	8·9	0	3	20	0	0	6	9	8	0	0	0	7	0
Kanniyakumari	0830	37	1010·4	1006·3	..	28.7	25·2	23·5	29.3	74	..	4.4	..	11·0	0	5	25	3	7	2	0	1	4	5	8	0	0
	1730	,,	1007·3	1003·2	..	29·6	25·9	24·3	30·4	73	..	4.5	..	14·0	0	8	22	0	2	2	4	2	15	4	1	0	0
Coastal Mysore																											
Karwar	0830	4	1010·2	1009·7	0	27·9	25·0	23·5	29·3	77	+1	3·0	—0·3	5·3	0	0	24	0	12	7	0	0	1	0	4	6	0
	1730	,,	1007·1	1006·6	..	30·3	26·3	24·5	30.9	71	..	3·9	..	24·6	0	24	6	0	0	0	0	0	0	0	28	0	2
Honavar	0830	26	1010·8	1007·9	—0·3	27·3	24·2	22·7	27·6	77	+1	5·6	+1·4	3·8	0	0	26	1	2	22	0	0	0	1	0	4	0
	1730	,,	1007·3	1004·3	..	30·7	25·7	23·5	28·9	65	..	4·1	..	10.3	0	1	29	0	0	0	0	0	4	21	5	0	0
Mangalore (Bajpe)	0230	102	1008.6	997·1	..	26·2	24·1	23·2	28·3	84	..	3·0	..	4·0	0	0	20	0	4	15	0	0	0	0	1	10	0
	0530	,,	1008.7	997·2	..	25·2	23·7	23.0	27·9	88	..	3·0	..	6·2	0	0	28	0	9	17	1	1	0	0	0	2	0
	0830	,,	1010.6	999·2	..	28·5	24·8	23·1	28·3	73	..	3.6	..	6·7	0	0	30	5	3	19	1	0	0	0	2	0	0
	1130	,,	1010·0	998·7	..	32·5	25·7	22·5	27·4	56	..	3.6	..	10·6	0	0	30	0	0	1	1	1	4	15	8	0	0
	1730	,,	1006·9	995·6	..	30·5	25·4	23·1	28·3	65	..	4.1	..	17·3	0	6	24	0	0	0	0	1	20	9	0	0	0
	2330	,,	1010.1	998·7	..	27·0	24·5	23·3	28·6	80	..	3·3	..	3·8	0	0	18	3	1	3	0	0	1	1	9	12	0
Mangalore	0830	22	1010.6	1008·1	+0·2	29·6	25·2	23·2	28·4	69	—2	3·3	—0·2	3·1	0	0	30	5	11	10	1	0	2	0	1	0	0
	1730	,,	1007·0	1004·6	..	31·0	26·3	24.3	30·4	68	..	4·8	..	7·3	0	0	30	1	0	0	0	1	3	14	11	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Interior Mysore (North)																										
Bidar	0830	664	1009.6	937·1	..	26·6	(1) 20·9	(1) 18·1	20·5	(1) 64	+19	3·2	+1.4	13·2	0	6	24	6	3	1	2	4	10	4	0	0
	1730	,,	1003·0	932.7	..	33·6	(1) 22·0	(1) 16.0	17·9	(1) 37	..	2·6	..	9·4	..	2	25	1	6	2	5	3	5	2	3	3
Gulbarga	0830	458	1009·6	959·3	+1·1	28·9	20·1	14·8	17·1	44	−1	2·9	+1.5	6·7	0	0	29	3	0	0	8	3	4	3	8	1
	1730	,,	1002·8	953·9	..	36·1	21·1	11·7	14·0	24	..	5·1	..	9·8	0	0	27	4	1	1	7	8	3	3	0	3
Raichur	0830	594	1009·7	944·5	+0.5	26·3	21·3	18·6	21·4	65	+14	3·5	+1.9	4·2	0	0	26	2	3	0	1	1	8	8	3	4
	1730	,,	1002·7	939.7	..	35·0	22·6	15·6	18.3	34	..	5·8	..	3·3	0	0	21	5	2	5	1	2	4	2	0	9
Raichur	0830	400	1009·6	965·5	+0.8	28·3	22·5	19·0	22·5	59	+8	4·3	+2·6	4·9	0	0	29	1	2	0	9	0	7	2	8	1
	1730	,,	1003·4	960·7	..	36·2	23·5	15·8	18·5	32	..	4·8	..	4·5	0	0	29	1	11	1	10	0	2	1	3	1
Belgaum	0830	753	1010·7	928·4	+0.8	24·4	20·1	17·7	20·4	68	+1	1.4	−0·4	5·4	0	0	28	5	0	4	1	0	1	16	1	2
	1730	,,	1004·5	924.1	..	29·9	22.3	18·4	21.3	54	..	4·1	..	8·0	0	0	30	0	0	0	0	0	1	17	6	0
Belgaum (Sumra)	0530	747	1009·4	926·8	..	21·0	18·8	17.5	20·1	81	..	3 8	..	4·6	0	0	17	1	1	3	0	1	3	5	2	13
	0830	,,	1010·3	928·6	..	24·2	19·9	17·4	20·0	67	..	2·4	..	7·7	0	2	29	1	1	0	1	0	3	13	3	3
	1130	,,	1008·2	928·3	..	31·0	20·0	12·9	15·4	35	..	2·1	..	9·3	0	1	29	1	6	2	1	2	6	6	2	0
	1730	,,	1004·4	924·7	..	30·7	21·5	16·3	18·8	45	..	4·5	..	20·2	0	19	10	2	0	0	1	1	4	17	4	1
Gadag	0530	650	1009·0	937·2	..	22·8	20·8	19·7	23·1	83	..	3·4	..	6·6	0	0	22	1	0	0	0	0	14	5	2	8
	0830	,,	1010·2	938·9	+0.3	25·5	21·3	19·1	22·2	68	−2	2·2	+0.4	7·4	0	1	26	0	1	1	0	1	14	3	2	3
	1130	,,	1008·2	939·7	..	22·1	22·2	16·7	19·5	41	..	2·1	..	7·1	0	1	28	1	1	2	2	0	7	9	4	1
	1730	,,	1003·5	934·4	..	33·4	21·7	15·1	17·4	36	..	5·5	..	6 2	0	1	28	2	3	5	2	2	7	6	2	1
	2330	,,	1009·1	937·9	..	25·5	21·2	19·0	22·1	69	..	3.8	..	10·2	0	0	30	0	0	2	0	7	7	14	9	0
Interior Mysore (South)																										
Bellary	0830	449	1009·6	960·1	+0.7	28·0	23·6	21·4	25·5	67	+17	1·5	−0 6	4·5	0	0	17	0	2	0	2	0	6	0	7	15
	1730	,,	1003·3	955·3	..	35·4	26·9	22·9	28·4	49	..	5·3	..	8·1	0	0	27	0	3	0	9	0	4	0	11	3
Chitradurga	0830	733	1009·9	929·9	+0·4	25·1	20·5	17·9	20·8	66	+4	2·8	+0.4	5·3	0	0	24	0	0	0	1	1	8	13	1	6
	1730	,,	1003·3	925·6	..	32·6	20·8	13·3	15·9	35	..	5 4	..	4·1	0	0	24	0	7	7	2	1	3	4	0	6
Shimoga	0830	571	1010·2	947·2	+0·2	25·1	22.0	20·6	24.1	77	−2	7·8	+4·7	3·7	0	0	25	1	1	2	6	4	5	4	2	5
	1730	,,	1003·6	942·4	..	31.8	22·7	17·9	20.9	48	..	7.8	..	8·3	0	0	28	2	2	4	4	3	9	3	1	2
Agumbe	0830	..	..	..	..	23·9	21·9	20·9	24·6	84	..	3·9	..	3·7	0	0	20	0	3	8	0	0	2	2	0	10
Balehonnur	0830	..	..	..	..	21.0	20·0	19.2	22.4	90	+4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1516·7	906·4	..	23.3	20·3	18.6	21.6	78	+7	3.5	+0·8	2·1	0	0	22	7	1	0	2	0	6	5	2	7
	1730	,,	1492·6	902·9	..	28·1	20·5	16·0	18·5	52	..	6·4	..	4·0	0	0	29	0	0	1	9	0	6	11	2	1
Bangalore	0230	921	1493·5	908·3	..	21·8	19·1	17·6	20·1	78	..	3·3	..	5·5	0	0	24	0	1	2	9	3	3	5	1	6
	0830	,,	1519·0	910·3	+0.3	23·8	20·3	18·5	21·3	73	+4	3·8	+1.2	5·8	0	0	21	0	0	2	2	1	7	7	2	9
	1130	,,	1526·1	910·3	..	28·8	21·0	16.6	19·1	49	..	4·3	..	7·5	0	0	27	1	0	2	8	2	5	6	3	3
	1730	,,	1493·1	906·9	..	29·1	20·2	14·7	17·1	44	..	5.6	..	9·3	0	2	25	1	1	10	9	1	3	1	1	3
Bangalore Aerodrome	0530	897	1492·7	911·9	..	21·1	19·6	18·7	21·8	87	..	2.8	..	4·1	0	0	13	0	0	2	3	2	5	5	1	12
	0830	,,	1518·2	913·1	..	24·1	21·1	19·5	22·8	76	..	3.7	..	7·1	0	0	26	0	0	1	2	4	7	9	4	4
	1130	,,	1526·7	912·8	..	29·3	21·9	18·0	20·8	53	..	4.0	..	8·8	0	1	25	0	0	3	4	8	3	7	1	4
	1730	,,	1493·9	909·3	..	29·8	21·4	16·5	19·4	49	..	5·5	..	11·1	0	2	24	0	0	15	7	1	0	2	1	4
	2330	,,	1511·1	912·4	..	23·5	20·2	18·3	21·3	74	..	4·1	..	9·1	0	0	28	2	1	5	7	8	3	1	1	2
Mysore	0830	767	1010·8	926·8	+0.3	23·1	20.2	18·7	21·6	77	+5	4·3	+0.9	5·3	0	0	30	0	2	3	2	2	4	11	6	0
	1730	,,	1004·7	922·8	..	30·2	20·4	14·4	16·8	40	..	5.4	..	7·3	0	1	28	0	0	7	3	1	5	12	1	1
Kerala																										
Calicut	0530	5	1008·9	1008·3	..	26·0	24·3	23·6	28·9	86	..	2·6	..	6.8	0	2	21	1	10	12	0	0	0	0	0	7
	0830	..	1010·7	1010·1	+0.4	29·2	25·3	23·5	28·9	72	−5	2·8	−1·1	6·1	0	0	28	3	5	15	0	0	0	1	4	2
	1130	,,	1010·8	1010·2	..	31·9	26·4	24·1	30·0	63	.	2·8	..	14·8	0	6	24	2	0	0	0	1	6	15	6	0
	1730	,,	1007·4	1006·8	..	31.2	26·8	25·0	31·7	69	..	4·0	..	17.7	0	9	21	0	0	0	0	0	2	7	21	0
	2330	,,	1010·5	1009·6	..	28·0	25.2	23·9	29·7	78	..	4·1	..	14·9	0	9	18	0	5	5	0	0	0	7	10	3
Pachal	0830	7	1010·6	999.6	..	28·5	24·8	23·1	28·3	73	..	3·7	..	7·1	0	3	24	0	0	12	0	0	1	13	1	3
	1730	..	1005·8	995·0	..	32·9	24·9	20·7	24·9	51	..	5·0	..	12·7	0	0	30	0	0	5	0	0	0	22	3	0
Fort Cochin	0830	3	1010·7	1010·4	+0.3	28.7	25.6	24.3	30.4	77	+2	5·7	+1·9	2·0	0	0	13	3	6	4	0	0	0	0	0	17
	1730	,,	1007·0	1006·7	..	29.7	26·1	24.5	30·9	74	..	6·0	..	5·9	0	0	25	1	0	0	0	0	2	12	10	5
Cochin (Naval Air Station)	0230	3	1009·2	1008·9	..	26.3	24·5	23·7	29·3	86	..	4·6	..	2·6	0	0	13	2	1	7	2	0	0	0	1	17
	0530	..	1009·1	1008·8	..	25·7	24·3	23·7	29·3	88	..	4·1	..	1·5	0	0	11	1	1	7	1	0	0	0	1	19
	0830	,,	1010·7	1010·4	..	29·0	25.4	23.8	29.3	73	..	4·3	..	5·4	0	0	24	5	9	7	2	0	0	0	1	6
	1130	,,	1010·7	1010·4	..	31·7	26.9	23.6	29.3	63	..	4·6	..	11·9	0	0	29	1	0	2	0	1	4	10	11	1
	1730	,,	1007·7	1007·4	..	30.3	25.9	23.9	29.7	69	..	5·5	..	15·2	0	5	24	0	0	1	2	2	7	14	3	1
	2330	,,	1010·6	1010·3	..	26.9	24.6	23.5	29.1	82	..	5·9	..	4·2	0	0	22	1	2	12	2	1	0	0	4	8
Alleppey	0830	4	1010·6	1010·2	+0.3	29.5	26.6	25.4	32.4	77	−1	4·3	−1.1	3·8	0	0	26	0	4	11	9	0	0	1	1	4
	1730	,,	1007·1	1006·7	..	31.2	27.4	25·8	33·4	73	..	4·8	..	20·8	0	19	11	0	0	0	1	0	0	8	21	0

(1) Mean of 23 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of near-est standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala - *Contd.*																											
Panalur	0830	34	1010·2	1006·4	..	25·8	24·3	23·6	29·3	88	..	5·2	..	0·2		0	2	0	0	1	0	1	0	0	0	28	0
	1730	,,	1006·7	1002·9	..	30·3	25·5	23·2	28·8	68	..	6·9	..	4·1	0	0	29	1	0	5	6	7	5	3	2	1	0
Trivandrum	0230	64	1008·5	1001·2	..	25·6	24·4	23·9	29·7	90	..	3·4	..	4·0	0	0	23	6	7	2	0	0	1	3	4	7	0
	0530	,,	1008·7	1001·4	..	25·0	24·6	23·5	28·9	91	..	3·1	..	5·1	0	0	22	4	9	2	1	2	1	0	3	8	0
	0830	,,	1010·7	1003·5	+0·6	27·2	25·0	24·0	29·8	83	+4	3·6	−0·3	4·3	0	0	25	12	8	1	1	0	0	0	3	5	0
	1130	,,	1010·3	1003·1	..	30·9	25·6	23·2	28·4	64	..	5·1	..	7·6	0	0	29	1	0	1	7	1	5	5	9	1	0
	1730	,,	1007·4	1000·2	..	29·4	25·6	23·9	29·7	72	..	6·0	..	8·7	0	1	29	0	0	2	1	5	8	6	8	0	0
	2330	,,	1010·4	1003·1	..	26·5	24·7	24·0	29·7	86	..	4·2	..	4·7	0	0	19	2	4	0	1	1	0	4	7	11	0
Trivandrum Aerodrome	0830	8	1010·6	1009·7	..	28·5	25·3	23·9	29·7	76	..	4·4	..	4·9	0	0	27	10	9	3	1	0	0	0	4	3	0
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie*	0830	1959	1129·4	798·1	−1·5	9·3	8·9	7·7	10·8	82	+33	2·2	+0·7	2·1	0	0	30	0	3	0	25	0	0	0	0	0	2
	1730	,,	1419·2	797·9	..	14·3	9·9	5·7	9·4	60	..	4·0	..	2·3	0	0	30	0	1	0	24	0	0	0	0	0	5
Dharamsala	0830	1211	1560·5	885·4	+2·7	21·2	13·5	6·9	9·9	40	+1	4·1	+1·6	1·6	0	0	21	5	15	1	0	0	0	0	0	9	0
	1730	,,	1559·0	884·3	..	25·2	15·4	7·6	10·4	33	..	5·2	-	2·1	0	0	29	0	1	0	0	1	27	0	0	1	0
Simla	0830	2202	1482·3	781·8	+0·5	16·2	9·0	1·4	6·9	38	+5	2·6	−0·1	2·0	0	0	30	3	6	0	11	3	5	0	2	0	0
	1730	,,	1479·8	781·3	..	17·0	10·2	3·7	8·1	43	..	4·0	-	2·0	0	0	30	0	2	1	7	1	8	0	11	0	0
Lokpal	0830	..	..	..	..	6·1	−7·9	−12·1	2·2	61	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830									Closed during Winter Months.																	
Joshimath	0830	..	..	..	..	15·0	9·3	3·5	8·2	49	..	2·9	..	11·3	0	3	27	1	8	11	4	1	0	0	0	0	5
	1730	..	..	..	..	17·9	10·9	4·6	8·7	43	..	6·7	..	8·3	0	3	25	0	3	3	1	2	3	0	0	2	16
Mussoorie	0830	2042	1481·1	796·3	−0·9	16·1	10·4	5·2	8·8	50	+6	2·5	+0·2	4·8	0	0	29	7	3	0	4	8	3	0	4	1	0
	1730	,,	1462·1	795·0	..	18·3	11·6	6·8	9·7	48	..	4·2	..	6·3	0	1	28	6	3	0	3	9	5	0	3	1	0
Mukteswar (Kumaun)	0830	2311	3144·1	773·3	+0·6	14·5	9·1	3·8	8·1	50	+13	1·9	−0·3	6·1	0	0	28	0	4	4	0	1	3	9	7	2	0
	1730	,,	3132·3	771·7	..	16·6	11·0	6·0	9·8	51	..	3·6	..	16·9	0	11	18	0	1	1	0	1	5	12	9	1	0
Nainital	0830	1953	1484·8	805·1	+0·2	17·5	12·2	7·5	10·6	56	+20	1·9	0	4·7	0	0	15	3	2	5	4	0	0	0	1	15	0
	1730	,,	1462·7	803·2	..	18·1	12·5	8·1	10·9	55	..	2·6	..	5·5	0	0	28	9	1	4	2	1	2	6	3	2	0
Kalimpong	0830	1209	1489·0	878·1	−0·6	21·6	19·8	18·9	21·8	84	+19	2·1	−0·4	3·0	0	0	30	1	1	0	1	0	0	0	27	0	0
	1730	,,	1476·4	876·8	..	21·7	19·8	18·8	21·7	83	..	2·1	..	3·0	0	0	30	0	0	0	29	0	0	0	1	0	0
Darjeeling	0830	2128	1463·0	786·8	−1·5	15·1	11·2	7·8	10·6	65	0	4·0	+0·1	0·7	0	0	8	3	1	0	0	0	3	0	1	22	0
	1730	,,	1433·0	784·0	..	15·1	11·3	8·3	10·9	66	..	5·6	..	3·5	0	1	17	0	0	0	0	0	12	4	0	12	2
Kohima	0830	1406	1539·4	863·3	..	19·8	15·4	12·3	14·3	63	..	3·2	..	5·8	0	0	30	2	1	2	1	0	0	4	13	0	7
	1730	,,	1499·3	859·0	..	21·5	16·9	14·0	16·0	65	..	4·7	..	16·1	0	6	24	1	0	1	0	0	3	1	16	0	8
Shillong	0830	1500	1499·2	850·0	+0·5	20·8	17·2	15·0	17·0	70	+16	3·9	+0·7	2·8	0	0	18	0	0	1	0	1	11	5	0	12	0
	1730	,,	1479·5	848·2	..	20·0	17·7	16·3	18·5	80	..	5·8	..	1·4	0	0	9	0	0	0	0	1	7	1	0	21	0
Cherrapunji	0830	1313	1501·0	868·9	+0·2	16·5	14·2	12·5	14·5	77	+3	4·5	−0·3	2·5	0	0	28	0	0	10	0	0	18	0	0	2	0
	1730	,,	1501·0	869·1	..	16·4	14·1	12·4	14·4	76	..	4·8	..	2·2	0	0	28	0	0	0	0	0	27	0	0	2	1
Abu	0830	1195	1506·3	881·3	+0·2	22·8	15·7	9·3	12·7	45	+17	0·3	−0·9	1·0	0	0	11	0	0	0	0	0	6	4	1	19	0
	1730	,,	1493·2	879·2	..	28·2	16·3	5·8	9·6	25	..	0·6	..	2·1	0	0	19	2	0	0	0	0	6	7	3	11	1
Aijal	0830	..	..	..	..	22·8	18·7	16·2	18·5	68	..	2·8	..	2·7	0	0	30	1	1	8	3	6	3	6	2	0	0
	1730	..	..	..	..	23·7	19·6	17·1	19·7	70	..	4·6	..	2·5	0	0	30	1	1	5	1	1	5	15	1	0	0
Pachmarhi	0830	1075	1520·4	894·4	+0·6	25·7	16·4	9·1	11·9	37	+8	1·7	−0·1	3·0	0	0	23	1	3	0	2	4	1	5	7	7	0
	1730	,,	1491·4	890·9	..	31·7	17·9	7·3	10·4	23	..	3·1	..	3·8	0	0	27	0	1	0	0	0	3	5	18	3	0
Mahabaleshwar	0830	1382	1516·1	863·4	−0·3	22·4	14·8	8·4	11·3	43	+7	0·9	−0·8	9·7	0	0	30	2	21	1	2	0	2	1	1	0	0
	1730	,,	1502·9	862·0	..	25·9	19·4	15·4	17·8	54	..	1·3	..	9·8	0	0	30	1	0	0	2	0	4	1	22	0	0

*Data given as addenda in December 1962 issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill stations excluding Kashmir—*contd.*																											
Mercara	0830	1153	1515·2	886·6	+0·6	21·3	18·7	17·0	19·6	78	+1	1·9	−1·8	6·7	0	0	30	1	14	15	0	0	0	0	0	0	0
	1730	,,	1493·0	884·0	..	24·5	20·1	17·7	20·2	69	..	5·3	..	8·2	0	0	30	0	6	7	0	0	0	11	5	0	1
Ottacamund	0830	2249	1511·3	780·6	+0·4	15·7	12·1	9·4	11·9	67	+10	2·2	−0·8	3·5	0	0	18	1	12	4	1	0	0	0	0	12	0
	1730	,,	1488·1	778·7	..	17·2	13·8	11·5	13·6	70	..	5·5	..	2·8	0	0	19	0	1	16	1	1	0	0	0	11	0
Coonoor (R)	0830																										
Kodaikanal	0830	2343	3167·5	772·5	+0·8	15·3	11·5	8·1	11·1	66	+8	4·0	+1·4	9·8	0	2	26	4	8	7	7	1	0	0	1	2	0
	1130	,,	3179·3	772·8	..	17·9	13·5	10·2	12·5	63	..	5·2	..	10·9	0	2	28	2	10	9	7	1	0	0	1	0	0
	1730	,,	3148·7	770·7	..	15·4	13·3	11·8	13·7	80	..	6·0	..	5·5	0	0	26	4	7	3	10	1	0	0	1	4	0
Nepal																											
Kathmandu	0830	1324	1493·7	867·2	..	17·3	13·9	11·3	13·4	69	..	3·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	,,	1489·6	866·4	..	24·9	15·9	8·7	11·5	39	..	3·9	..	0·3	0	0	2	0	1	0	0	0	1	0	0	28	0
	1730	,,	1464·9	864·1	..	21·8	15·4	10·3	12·9	51	..	4·5	..	0·2	0	0	1	0	0	0	0	0	0	0	1	29	0
Sikkim																											
Lachen	0830	..	..	..	..	11·4	7·8	4·7	8·6	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Thalya	0830	..	..	..	..	29·9	19·8	11·9	15·3	37	..	2·4	..	12·0	0	4	25	2	1	7	3	2	0	12	2	1	0
	1730	..	..	..	..	32·0	19·5	8·6	12·5	29	..	2·9	..	12·6	0	5	25	3	2	6	3	0	0	12	4	0	0
Hazaribagh	0830	615	1007·1	940·2	..	28·1	18·8	12·0	14·9	41	..	1·8	..	7·6	0	0	29	1	0	1	2	4	7	7	7	1	0
	1730	,,	1003·1	936·8	..	30·1	18·6	10·2	13·0	32	..	2·9	..	7·3	0	0	29	4	3	4	1	2	3	5	7	1	0
Kenar	0830	..	..	..	..	..	..	..	..	..	..	2·7	..	11·9	0	4	25	0	0	4	6	0	0	16	3	1	0
	1730	..	..	..	..	..	..	..	..	..	..	4·0	..	10·0	0	3	27	0	1	7	1	0	2	14	5	0	0
Bokaro	0830	242	1008·3	981·4	..	28·8	19·7	12·8	15·2	41	..	0·2	..	5·9	0	0	27	0	0	3	8	1	9	2	4	3	0
	1730	,,	1003·9	977·5	..	32·5	20·3	10·4	13·9	31	..	3·2	..	6·0	0	1	27	2	1	3	5	0	4	3	10	2	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	1·8	..	9·0	0	0	30	0	2	10	3	0	4	9	2	0	0
	1730	..	..	..	..	..	..	..	..	..	..	3·2	..	12·1	0	1	29	0	1	3	5	3	4	13	1	0	0
Konar	0830	..	..	..	..	28·6	20·4	14·9	17·4	44	..	1·7	..	2·7	0	0	21	5	3	1	1	0	3	5	3	9	0
	1730	..	..	..	..	30·9	21·5	14·6	17·9	37	..	4·0	..	3·0	0	0	27	2	3	7	0	2	8	1	4	3	0
Panchet Hills	0830	..	..	..	..	30·4	21·4	15·7	18·1	44	..	3·7	..	8·3	0	1	29	0	3	0	10	0	10	1	6	0	0
	1730	..	..	..	..	32·3	21·4	14·4	16·7	35	..	5·7	..	8·0	0	2	24	0	3	0	9	1	6	0	7	4	0
Durgapur	0830	..	..	..	..	29·3	22·7	18·6	21·9	58	..	2·9	..	7·4	0	0	30	4	6	3	2	4	2	4	5	9	0
	1730	..	..	..	..	33·1	22·9	16·8	19·4	41	..	3·2	..	8·8	0	2	28	2	1	3	3	5	5	3	8	0	0
Mahanadi Catchment																											
Chitabahar	0830	..	..	..	..	28·6	19·5	13·3	15·3	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	152	1008·7	991·0	..	30·1	22·1	17·4	20·0	47	..	1·6	..	3·2	0	0	28	0	0	2	6	9	3	4	3	2	1
	1130	,,	1007·2	990·0	..	34·5	22·9	16·2	18·4	34	..	1·6	..	3·5	0	0	30	1	1	0	1	2	6	8	10	1	0
	1730	,,	1003·2	985·9	..	35·4	22·6	14·9	16·9	29	..	2·9	..	2·3	0	0	16	0	2	1	0	0	2	2	6	14	3
Bhankund	0830	..	..	..	..	27·8	21·9	18·6	21·4	57	..	3·5	..	2·6	0	0	17	2	3	0	4	0	4	0	4	13	0
	1730	..	..	..	..	31·8	22·1	16·4	18·6	39	..	5·4	..	7·7	0	0	24	2	3	0	10	2	2	0	5	6	0
Sonpur	0830	..	..	..	..	34·4	24·0	18·5	21·3	39	..	..	..	6·7	0	0	30	3	3	3	4	3	7	5	2	0	0
Khiriawan	0830	..	..	..	..	29·9	21·5	17·2	19·6	48	..	1·1	..	8·5	0	1	29	2	0	1	8	0	6	11	2	0	0
	1730	..	..	..	..	32·1	21·9	15·4	17·5	42	..	1·5	..	8·8	0	3	26	1	5	2	6	1	4	6	4	1	0
Narbada Catchment																											
Bagra Tawa	0830	..	..	..	..	29·5	17·8	7·8	10·6	28	..	1·1	..	6·3	0	0	28	0	5	0	1	0	18	3	1	2	0
	1730	..	..	..	..	37·9	19·7	4·5	8·4	15	..	2·0	..	6·5	0	0	27	0	4	0	0	0	9	6	7	3	1
Pathra	0830	..	..	..	..	30·1	20·6	13·2	15·2	38	..	..	..	6·3	0	2	24	1	4	1	0	1	9	7	3	4	0
	1730	..	..	..	..	37·8	23·2	13·4	15·4	26	..	..	..	6·2	0	1	23	4	3	1	0	0	3	10	3	6	0
Thiki	0830	..	..	..	..	30·9	..	..	..	..	..	0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	26·7	19·6	14·5	17·0	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	37·0	22·6	13·4	15·7	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Gandak Catchment																											
Jomosom	0830	..	..	..	..	12·9	8·7	5·3	8·9	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·8	8·9	6·6	9·7	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	22·0	16·2	13·0	15·0	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·5	17·5	13·3	15·3	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	15·7	11·2 (c)	7·6 (c)	9·3 ( )	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·9	13·3	8·7	11·2	(c) 50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	22·4	16·7	12·6	1 ·9	57	..	3·0	..	2·1	0	0	13	1	0	0	5	2	1	0	4	17	0
	1130*	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·7	17·2	10·9	13·4	43	..	4·3	..	5 5	0	0	25	1	1	5	12	1	2	0	2	5	1
Gorkha†	0830																										
	1730																										
Nuwakot	0830	..	..	..	..	22·6	16·6	12·5	14·5	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·5	16·6	10·2	12·4	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh	0830	..	..	..	..	18·6	13·4	9·2	11·6	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·7	14·6	8·0	10·7	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dandeldhura	0830	..	..	..	..	16·4	11·5	7·6	10·4	56	..	3·2	..	..	..	..	..	1	2	12	3	2	0	0	5	5	0
	1730	..	..	..	..	18·2	12·2	7·5	10·4	50	..	4·0	..	..	..	..	..	2	0	5	1	2	10	0	7	1	2
Sallayana	0830	..	..	..	..	20·3	14·0	8·9	11·4	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·5	14·4	8·7	11·2	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	30·0	20·1	13·5	15·5	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30·3	20·4	13·9	15·9	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu‡																											
Kosi Catchment																											
Chautara	0830	..	.	..	..	18·3	13·3	9·7	12·0	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·3	14·0	7·9	10·7	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	15·5	12·5	10·9	13 0	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·5	13·8	12·5	14·5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Walungchung Gola	0830	..	..	..	..	9·7	5·9	2·2	7·2	59	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	7·3	5·5	3·8	8·0	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	19·2	14·0	9·9	12·2	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·2	14·0	9·0	11·5	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	19·3	13·9	10·1	12·3	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·7	13·7	9·4	11·8	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	18·3	13·0	8·8	11·5	57	..	4·2	..	..	..	..	..	1	1	0	0	1	0	0	0	27	0
	1130	..	..	..	..	20·6	13·8	8·4	11 4	49	..	4·6	..	..	..	..	..	0	0	0	0	1	14	6	3	6	0
	1730	..	..	..	..	18·2	12·8	8·2	11·3	57	..	(b) 5·5	..	..	..	..	..	1	0	3	1	10	8	2	0	5	0
Ckhaldunga	0830	..	..	..	..	18·3	(b) 12·7	(b) 8·6	(b) 11·2	(b) 54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	20·3	12·8	6·9	9·9	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	18·4	12·6	8·2	10·9	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	21·3	15·9	12·1	14·1	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·4	17·2	13·8	15·8	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	20·6	16·2	13·2	15·2	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·7	16·0	11·0	13·1	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1008·9	992·4	..	26·9	18·9	12·8	15·4	43	..	3·7	..	4·8	0	0	30	0	2	5	1	3	13	1	5	0	0
	1130	„	1007·5	991·3	..	31·1	21·0	14·1	16·6	38	..	4·2	..	7·4	0	0	30	0	1	1	0	1	21	4	2	0	0
	1730	„	1003·5	987·4	..	31·9	20·5	11·6	14·9	35	..	4·0	..	4·7	0	0	30	0	2	0	5	2	17	1	3	0	0
Tista Catchment																											
Gangtok	0830	1812	1494.0	819·2	..	16·3	12·8	10·1	12·5	69	..	3·3	..	2·1	0	0	19	4	10	1	0	1	2	1	0	11	0
	1130	„	1484·0	818·7	..	20·4	15·1	11·6	13·7	59	..	4·3	..	5·5	0	0	30	0	0	0	0	8	17	4	1	0	0
Gezing	1730	„	1464·3	816·5	..	17·3	13·8	11·4	13·7	71	..	6·4	..	5·3	0	1	27	1	6	2	6	8	3	1	1	2	0
	0830	..	..	..	..	18·7	14·6	11·9	13·9	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·5	15·0	12·1	14·1	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not available. †Data not reliable. (b) = Mean of 29 days. ‡Data included under Nepal.

(c) = Mean of 26 days.

MONTHLY MEANS OF UPPER WINDS

April 1962 (*Chaitra* 11–*Vaisakh* 10, 1884 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n = represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8	Bahraich	27°34′	81°36′	134	1st October, 1961	0530		1730	
9	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11	Begumpet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1130	1730	
13	Bhopal/Bairagarh	23°17′	77°21′	522	26th February, 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1130	1730	2330
15	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16	Bikaner	28°00′	73°18′	229	18th October, 1945	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530		1730	
21	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
22	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
23	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
26	Gondipur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27	Gorakhpur	26°45′	83°22′	83	5th January, 1943.	0530		1730	
28	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31	Jagdalpur	19°05′	82°02′	562	25th March, 1948.	0530		1730	2330
32	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
34	Jharsuguda	21°55′	84°05	240	1st May, 1944	0530		1730	2330
35	Jodhpur	26°18′	73°01′	229	15th October, 1934.	0530*	1130	1730*	2330
36	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1130	1730	
46	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1130	1730	2330
47	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
48	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
49	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
50	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
51	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
52	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
53	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

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

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Table IV— Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	AGARTALA																AHMADABAD							
Time in I. S. T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·9	1.3	142	30	2·9	1·9	199	30	3·5	2·6	180	30	3·5	2·5	162	28	2·1	1·9	308	30	3·1	1·3	295
0·15 a.g.	27	5·7	4·3	176	29	4·3	3·1	198	29	6·0	4·1	182	29	6·7	5·0	173	28	8·8	7·5	315	30	3·5	1·8	285
0·3 a.m.s.l.	27	6·3	4 9	198	29	4·3	3·3	190	29	6·2	4·3	186	29	7·2	5·7	188	28	8·7	7·5	315	30	3.5	1.9	285
0·5 ,,	27	6·1	5·0	210	29	5·6	4·1	193	29	6 7	5 1	202	28	7·5	6 3	204	28	8·1	7·1	313	30	4·0	2·7	295
0·9 ,,	26	6·1	4·7	227	29	5·2	4·1	201	29	6·9	5·5	215	27	7·0	5·7	217	28	7·2	6·3	303	30	4·8	3.4	296
1·5 ,,	24	6·1	4·7	255	26	6·6	4·6	223	29	6·5	5·2	251	25	6·7	5·3	252	28	5·9	4·3	285	30	5·9	4·1	285
2·1 ,,	24	6·4	5.1	255	20	7·5	5·9	232	27	7·8	6·5	269	22	6·7	5·1	269	28	5·9	4·0	272	30	6.1	4·4	260
2·7 ,,	23	8.5	6 9	263	15	8·4	6·6	242	25	10·0	8·0	277	17	8·0	5·9	275	28	7·4	5·5	246	30	7·5	6·1	250
3.6 ,,	17	8·9	7·5	266	2	11·3	10·9	240	21	10·9	7.9	279	7	7·9	3·6	250	25	8·5	6 3	244	29	8.8	6·9	250
4.5 ,,	11	6·9	5·5	260	1	14·5	14·5	270	16	11·9	8·0	264	6	8·5	2·7	245	25	9·1	6·9	263	29	8·5	5.8	260
5·4 ,,	10	9·9	5·6	247	1	14·5	14·5	270	13	11.6	7.2	253	1	6·0	6.0	350	25	10·4	8·7	277	28	9·4	6·6	280
6·0 ,,	7	8.6	2·3	295	1	12·0	12·0	270	12	13·8	10·7	259	1	5·5	5·5	330	25	11·6	9·5	282	27	10·1	7·8	275
7·2 ,,	4	6·5	4·8	235					6	10.9	8.8	275	1	7·5	7·5	320	25	15·1	13·5	280	25	13·4	11·6	280
9·0 ,,	2	9·7	9·7	281					4	12·7	9·1	270					23	23·5	20·7	276	12	20·8	18·7	274

Station	AHMEADABAD								ALLAHABAD/BAMHRAULI															
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·0	2·9	260	30	2·3	1·5	229	30	0·8	0·2	197	30	2·3	0·8	313	30	2·0	1·5	345	30	1·4	0·4	017
0.15 a.g.	30	6·1	4·1	270	30	7·3	4·8	263	30	5·3	2·2	194	29	4·0	1·3	305	30	4·9	3·0	322	29	8·7	3 3	025
0.3 a.m.s.l.	30	6·1	4·2	271	30	7·7	5·4	267	30	5·3	2·2	194	29	4·1	1·3	305	30	4.9	3.0	322	29	8·9	3·5	030
0·5 ,,	30	5·7	4·3	275	30	8·2	6·5	276	30	5·1	1·5	217	29	4·6	1·7	295	30	5 6	4·2	310	29	8·5	3·0	030
0·9 ,,	30	4·7	3·9	283	30	7·3	6·3	281	30	5·3	2·0	258	29	4·7	2·5	285	30	5·0	3·7	320	28	6·2	2.5	340
1·5 ,,	30	5 2	4 4	283	30	5·1	4·4	285	30	5·7	4·9	291	28	5·2	4·1	290	29	5·3	4·4	300	28	6 4	4 8	305
2·1 ,,	30	5 9	5·2	275	30	5·2	4·2	282	30	7·5	6·2	294	29	6 4	5·0	289	30	5·7	5·1	285	28	8·8	7.7	288
2·0 ,,	30	6·9	6·1	267	27	5·9	4·3	267	30	11·1	9·1	290	28	9·9	8·4	286	30	8·6	7·6	278	23	10·0	8·5	280
3.6 ,,	29	7·6	6·0	265	12	4·6	1.8	284	30	12·1	10·1	292	28	11·8	9·5	284	29	11·7	9·5	275	6	11·7	11·1	285
4·5 ,,	29	9.0	6·7	275					29	13·3	11·4	290	23	12·8	11·3	283	29	12·8	11·5	275				
5·4 ,,	28	9.4	7·4	281					29	12·9	10·8	284	17	14·1	12 6	271	29	14·2	12·6	281				
6·0 ,,	28	10.2	8.2	279					29	13·5	11·3	280	14	14·9	13·4	273	29	15·9	13·5	285				
7·2 ,,	27	13·7	12·3	272					29	16·1	13·4	272	7	16·6	15·8	286	27	17.6	14.4	282				
9·0 ,,	21	21·6	19·2	279					23	20·2	16·7	261	1	35·0	35·0	255	20	22.2	18.8	277				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	AMBALA																ANANTAPUR							
Time in I.S.T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.4	0·7	112	30	2.3	1.1	123	30	2.4	1.1	318	30	1.7	1.0	352	30	1.9	1.0	236	30	3.6	2.6	085
0.15 a.g.	30	7.3	3.5	086	30	5.0	2.6	106	29	5.4	2.7	321	30	8.1	5.9	358	30	4.4	2.9	236	30	4.4	3.3	080
0.3 a.m.s.l.	30	3.4	1.4	080	30	3.3	1.7	119	29	3.6	1.7	320	30	3.9	2.8	356								
0.6 ,,	30	8.1	2.3	087	30	5.1	2.5	102	29	6.2	3.3	322	30	8.3	5.5	355	30	4.8	3.5	242	30	3.9	2.7	089
0.9 ,,	30	7.3	1.3	063	30	5.5	2.1	112	29	6.6	4.0	317	30	7.7	4.7	348	30	5.0	2.9	243	30	3.6	2.5	088
1.5 ,,	30	6.6	2.6	318	28	5.5	2.3	322	29	6.8	4.4	309	30	6.6	4.1	314	30	5.1	1.6	207	30	3.7	2.4	080
2.1 ,,	29	6.9	5.1	306	28	6.6	3.5	322	28	6.2	4.7	293	28	8.1	5.4	297	30	4.3	1.6	097	30	4.3	2.3	085
3.0 ,,	29	8.7	6.5	303	24	7.1	5.1	302	27	8.5	6.0	293	21	7.9	6.3	269	29	5.7	3.7	055	29	4.6	2.3	072
3.6 ,,	26	8.8	6.7	299	23	8.6	6.7	298	25	9.3	6.2	286	9	10·4	8.8	263	28	6.6	5.1	050	29	4.6	2.1	064
4.5 ,,	16	7.7	6.7	303	15	11.0	8.2	301	18	8·7	6·9	295	3	6.8	6.1	262	25	6·0	4·0	055	27	4.8	1.1	049
5.4 ,,	7	9.2	6.8	299	12	9.2	6·7	287	11	11.9	8.7	283	1	7.5	7.5	265	21	6.2	3·1	019	21	4·9	2·3	343
6.0 ,,	4	9.4	8.2	260	10	9.0	6.9	276	10	13.9	11.6	298					21	6·1	2·4	349	21	5.1	2.4	317
7.2 ,,	2	10.7	10.1	268	4	16.0	14.7	285	6	18.4	16.0	286					18	7.1	3.4	270	13	5.8	4.2	312
9.0 ,,					1	28.5	28.5	255									11	10.9	8.1	270	12	8.3	6.0	275

Station	ANANTAPUR				ASANSOL																AURANGABAD/ CHIKALTHAN			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4.3	2.3	110	[illegible]	0.9	0.1	243	30	2.1	0.3	349	30	2.6	0.3	142	30	1.8	1.0	177	30	2.2	1.8	284
0.15 a.g.	24	6.7	3.9	115	30	5.5	1.7	264	30	4.5	0.7	293	28	5.5	1.0	280	30	7.1	3.1	155	30	6.0	3.9	315
0.3 a.m.s.l.					30	5·8	2.2	263	30	4.5	0.8	286	28	5.7	1.1	274	30	7.5	3.4	204				
0.6 ,,	24	6.5	3.5	115	30	7.7	4.1	278	30	4.7	1.0	282	28	6.2	1.8	272	30	8.9	4.1	222				
0.9 ,,	24	7.0	4.0	128	29	7.3	4.1	281	30	4.9	1.6	297	28	5.9	2.1	274	30	6.9	3.3	233	30	7.5	5.5	328
1.5 ,,	24	5 0	3.1	128	29	5.7	3.5	257	29	6.1	3.7	277	27	5.8	3.7	279	30	5.7	2.1	259	30	8.1	5.7	350
2.1 ,,	24	3·7	1·8	105	27	6.0	4.2	281	27	7.2	5.4	272	26	7.7	6.0	290	30	5.7	3.7	291	29	6.1	4.2	004
3.0 ,,	24	4.3	2.6	052	26	9.5	8.3	278	19	7.8	6.3	282	23	9.7	8.5	282	26	9.6	7.4	282	26	5.7	0.6	299
3.6 ,,	23	4.8	2.9	047	20	11.1	9.6	280	2	9.5	9.1	262	18	11.8	10.7	279	20	11.0	8.7	274	9	5.2	3.4	230
4.5 ,,	15	4.8	2.7	008	15	12.8	10.8	283	1	9.5	9.5	240	17	15.0	13.2	276	13	10·8	8.9	279				
5.4 ,,	7	4.7	4.1	348	4	11.5	10·0	297					5	12.2	11.6	279	3	9.0	8.2	291				
6.0 ,,	3	5.8	2.5	315	3	12·7	9·9	291					3	8.7	8.6	274	3	11·8	10.0	283				
7.2 ,,					1	2·5	2·5	210					2	10.7	10.3	277								
9.0 ,,					1	4.0	4.0	240					2	21.0	19.3	282								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	AURANGABAD/CHIKALTHAN								BAHRAICH								BANGALORE							
Time in I. S. T.	1730				2330				0530				1730				0530@				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·3	1·7	332	30	3·5	2·4	315	30	1·6	0·5	036	30	2·1	0·7	297	30	1·2	0·7	233	30	1·6	0·6	143
0·15 a.g.	29	4·4	2·6	335	30	8·1	5·1	330	30	7·9	1·2	030	30	5·2	1·6	285	30	4·7	2·0	23	27	2·6	0·9	16
0·3 a.m.s.l.									30	8·4	0·8	018	30	5·4	1·8	284								
0·6 ,,									30	9·5	1.3	308	30	6.4	2·8	286								
0·9 ,,	29	4·6	2·5	322	30	8·9	6.5	335	30	8.3	2.1	289	30	6.0	3·2	287								
1·5 ,,	29	4·2	3·0	332	30	7·3	4·7	336	30	6·9	4·8	290	30	5·7	4·3	281	30	4·3	1·4	150	28	3·2	1·4	11
2·1 ,,	29	4·6	2·9	345	30	5·7	3·2	337	30	7·2	6·7	300	30	7·0	6·4	289	30	4·9	3·3	175	26	5·4	4·2	09
3·0 ,,	23	5·2	3·0	313	26	5·7	0·7	328	30	10·5	9 8	305	30	9·5	9·2	299	28	6·7	5·9	070	22	7·7	7·1	07
3·6 ,,	18	4·8	1·9	312	16	5·5	1·8	297	27	10·5	9·7	304	30	10·6	10·2	300	28	7·9	5·8	060	21	8·5	6·9	06
4·5 ,,	10	6·0	4·4	260	5	8·3	7·4	238	23	11·6	9·7	300	30	11·6	10·7	295	28	7·3	4·3	077	18	7·0	6·0	07
5·4 ,,	7	8·6	7·9	272					14	9·6	7·5	297	29	13·4	12·3	294	29	6·5	2·0	105	18	5 5	2·3	09
6·0 ,,	7	9·5	8·7	263					11	9·5	7·3	288	27	14·8	13·2	292	26	6·4	0·7	096	16	5·7	1·5	95
7·2 ,,	1	14·0	14·0	250					6	12·7	10·3	287	23	15 5	13·1	291	25	6·0	2·5	251	14	5·1	2·3	29
9·0 ,,									3	15·5	14·8	308	17	18·6	14·0	286	24	8·2	5·1	260	13	8·8	6·8	29

Station	BANGALORE								BAREILLY								BEGAMPET							
Time in I. S. T.	1730@				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·3	1·5	108	30	2·2	1·1	131	30	1·6	0·5	073	30	1·8	1 5	287	30	1·5	0·2	285	30	2·3	0·7	110
0·15 a.g.	29	4·7	3·5	102	24	7·3	6·0	143	30	7·4	2·3	094	30	4·5	3·2	283	30	5·2	2·3	212	30	4·3	1·5	122
0·3 a.m.s.l.									30	6·9	2·4	088	30	4 4	3·2	280								
0·6 ,,									30	8 2	0·9	210	30	5·3	3·9	287	30	3·7	1·0	208	30	4·2	1·4	115
0·9 ,,									30	7.3	1.6	253	29	5·4	4·1	289	30	6·4	3·6	216	30	4·2	1·8	124
1·5 ,,	29	4·3	3·4	102	24	7·1	5·5	143	30	5 5	3·5	282	29	5·5	4·6	285	30	6·0	3 3	210	30	3·5	1·1	155
2·1 ,,	29	5·1	3·8	094	24	5·1	3·1	098	29	7.2	6·2	297	29	6·5	6·0	282	29	5·0	0·2	234	29	3·1	0·9	219
3·0 ,,	29	5·7	4·3	069	22	5·9	4·1	042	25	9·1	8·0	301	29	8·9	8·2	292	28	5·4	2·8	010	26	3·7	1·6	311
3·6 ,,	27	5·7	4·2	060	18	6·9	5·3	058	22	10·5	9·0	303	29	10·6	9·8	293	27	6·1	3·1	007	26	5·1	2·2	312
4·5 ,,	24	5·0	2·6	087	11	6·7	4·5	052	13	10·1	8 3	297	25	12·5	11·8	296	22	6·6	2·9	008	22	5·4	3·4	320
5·4 ,,	23	5·1	4·7	013	5	4·4	3·4	051	9	11·3	8·7	307	20	13·5	12·5	300	14	7·4	4·7	192	19	6·8	4·7	309
6·0 ,,	23	5·8	0·9	340	4	4·0	3·4	104	8	10·1	8·6	291	17	12·3	11·2	303	12	9·0	6·3	323	17	9·1	6·0	306
7·2 ,,	20	6·6	2·7	301	2	7·5	7·3	110	4	17·1	15·1	296	12	12·5	10·0	304	9	11·7	8·2	285	6	8·5	8·2	278
9·0 ,,	12	10·5	7·8	279									4	18·7	12·8	272	6	14·2	12·1	294	3	12·0	11·4	274

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	BEGAMPET				BHAGALPUR												BHOPAL/BAIRAGARH							
Time in I.S.T.	2330				0530				1130				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.7	1.2	145	30	2.9	0.7	100	30	3.8	1.2	292	30	3.1	1.7	299	30	2.1	1.1	286	30	3.7	2.9	312
0.15 a.g.	29	5.5	4.4	143	29	6.5	1.2	336	30	5.7	1.3	329	30	6.5	3.7	297	30	8.1	3.0	306	30	5.1	4.3	308
0.3 a.m.s.l.					29	7.0	1.6	246	30	5.5	1.4	330	30	7.1	3.8	293								
0.6 ,,	29	3.5	2.7	140	29	7.4	2.8	285	30	7.1	1.8	308	30	7.5	3.6	286	30	7.0	2.8	295	30	4.6	3.6	308
0.9 ,,	29	6.0	4.9	153	29	7.2	3.3	288	29	8.3	2.6	279	30	7.9	4.2	271	30	8.8	4.6	325	30	5.3	4.5	306
1.5 ,,	28	4.9	3.3	177	29	8.0	4.6	288	26	8.1	1.5	250	30	8.2	4.8	260	30	7.1	5.7	320	30	5.2	4.5	297
2.1 ,,	29	4.7	1.6	195	29	8.9	5.7	286	24	8.9	4.7	268	29	8.7	6.3	262	29	7.1	4.9	300	30	6.0	5.1	289
2.8 ,,	27	5.0	2.7	323	27	10.2	8.1	283	13	7.6	4.6	268	25	9.5	7.6	274	24	8.0	4.7	268	25	6.9	5.3	272
3.0 ,,	19	6.9	4.5	331	19	9.1	7.6	282					20	10.5	8.4	274	22	9.6	6.9	268	21	7.7	6.2	277
4.5 ,,	5	6.6	6.3	306	13	8.6	6.5	278					13	11.1	8.2	289	18	9.6	7.9	277	17	9.0	7.5	281
5.4 ,,					10	8.6	4.7	292					12	12.2	8.6	295	12	10.5	8.9	288	12	11.2	9.3	292
6.0 ,,					10	9.8	5.9	277					11	12.0	10.5	291	10	12.6	11.0	293	12	12.5	10.5	294
7.2 ,,					7	9.3	5.6	289					7	13.1	11.0	300	5	9.7	8.9	315	8	12.9	11.5	295
9.0 ,,					6	7.7	6.7	288					5	12.8	11.4	301	4	7.4	6.8	319	4	11.3	11.1	316

Station	BHOPAL/BAIRAGARH				BHUBANESHWAR																BHUJ/RUDRAMATA			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2.6	1.3	332	30	3.6	3.2	213	30	5.0	3.9	212	30	7.0	6.0	185	30	5.0	3.1	213	30	2.5	1.9	250
0.15 a.g.	30	7.9	4.8	324	22	6.1	5.1	216	30	5.9	4.6	215	29	8.1	7.6	190	28	8.7	5.2	204	30	7.4	6.3	269
0.3 a.m.s.l.					22	7.0	5.8	233	30	5.9	4.6	212	29	9.5	8.2	196	28	9.5	6.1	212	30	9.2	7.8	276
0.6 ,,	30	7.3	4.7	323	22	7.5	6.0	239	30	6.0	5.0	221	29	8.0	6.5	203	28	9.8	7.7	220	30	10.0	9.0	285
0.9 ,,	30	7.7	5.4	318	21	7.0	5.8	248	28	6.5	5.1	241	29	6.8	4.6	217	25	8.6	6.7	225	30	8.8	7.8	283
1.5 ,,	30	7.0	5.8	310	20	4.9	4.0	274	20	6.1	4.3	279	26	5.4	4.1	271	24	6.6	4.8	216	29	7.9	6.3	271
2.1 ,,	30	5.7	4.7	290	15	5.0	3.1	272	13	5.3	3.5	268	23	5.6	5.0	294	16	5.3	3.7	278	22	7.7	4.1	265
3.0 ,,	27	7.1	5.1	280	12	7.9	6.1	269	7	5.4	4.1	298	15	7.6	7.0	305	10	6.9	4.1	278	17	6.1	1.8	261
3.6 ,,	5	6.5	5.3	283	7	7.7	5.5	296	1	1.5	1.5	330	12	8.0	7.1	298	1	8.5	8.5	235	1	11.5	11.5	140
4.5 ,,	2	7.5	7.1	290	6	8.3	5.9	270					9	7.6	6.5	286	1	10.0	10.0	240				
5.4 ,,					2	7.7	6.1	307					5	12.7	11.2	263								
6.0 ,,					1	12.0	12.0	215					5	14.2	11.8	267								
7.2 ,,					1	16.5	16.5	220					2	14.5	12.7	250								
9.0 ,,													1	27.5	27.5	270								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	BHUJ/RUDRAMATA								BIKANER												BOMBAY/SANTA CRUZ			
Time in I. S. T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	5·3	4·6	276	30	4·0	3.6	257	30	0·5	0·4	225	30	0·8	0·7	255	30	0·6	0·2	279	30	0·8	0·2	035
0·15 a. g. .	30	6·7	5 6	265	30	7·8	7·2	257	30	8·2	2·9	240	30	4·5	4·0	266	30	7·8	2·6	284	30	3·5	1·5	330
0·3 a.m.s.l. .	30	6·9	5·9	264	30	8·3	7·6	262	30	6·5	2·7	240	30	4·4	4·0	265	30	6·4	1·4	287	30	3·7	2·2	333
0·6 ,, .	30	7·1	6·2	267	30	9·8	9·1	268	30	7·3	1·7	245	30	5·2	4·3	265	30	7·6	2·3	284	30	4·7	3·2	340
0·9 ,, .	30	7·3	6·5	269	30	8·2	7·4	269	30	5·6	3·1	260	30	5·4	4·3	264	30	6·7	2·9	279	30	5·8	4·2	350
1·5 ,, .	30	7·5	6·6	270	29	7·0	5·3	272	30	4·4	4·0	265	30	5·7	4·8	260	30	5·3	3·5	250	30	5·8	4·2	350
2·1 ,, .	29	8·5	6·5	266	27	7·1	4·4	261	29	6·7	4·6	280	29	5·3	4·6	262	29	5·6	3·9	253	30	5·9	2·5	334
3·0 ,, .	27	7·6	6·1	262	22	7·4	3·5	246	26	7·0	5·1	290	29	5·8	4·8	265	26	5·1	4·4	259	30	6·2	2.1	180
3·6 ,, .	24	7·5	6·5	253	2	6·5	2·5	157	25	7·6	5·9	291	28	6·6	5·4	272	7	5·5	4·7	249	30	7·0	4·6	173
4·5 ,, .	23	7·9	5·4	263	1	4·0	4·0	150	15	8·3	5·2	330	24	7·2	6·2	268	3	6·8	5·5	260	30	6·5	3·3	222
5·4 ,, .	21	9·5	7·7	271					9	8·3	5·8	297	22	9·7	8·2	276					30	8·3	4·7	273
6·0 ,, .	19	10·3	9·0	283					6	9·1	8·9	248	21	11·1	9·4	276					30	9·5	5·9	286
7·2 ,, .	1	4·5	4·5	320					4	11·6	11·3	245	13	12·5	11·5	276					30	12·1	9·7	285
9·0 ,, .									2	11·5	11·5	235	4	16·9	16·7	268					29	15·5	13·5	284

Station	BOMBAY/SANTA CRUZ												CALCUTTA/DUM DUM											
Time in I. S. T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·9	2·6	266	30	5·6	4·5	295	30	9·1	0·7	289	30	1·5	1·1	203	30	1·9	1·2	191	30	2·7	2·1	189
0·15 a.g. .	30	3·1	2·6	270	30	7·5	6·9	309	30	4·0	2 9	309	30	5·7	4·4	217	30	3·8	2·3	213	30	7·8	6·1	188
0·3 a.m.s.l. .	30	2·9	1·6	304	30	6·9	6·2	309	30	4·7	3·6	313	30	6 1	4·8	223	30	4·0	2·4	217	30	7·3	5 2	188
0·6 ,, .	29	3·8	2·7	009	30	5·9	5·5	222	30	5·9	4·6	317	30	7·0	4.8	233	30	4·2	2·7	233	30	6·4	4·2	196
0·9 ,, .	29	5·3	4·2	011	30	5·1	4·1	328	30	6·5	4·8	328	30	7·0	4·9	250	30	4·6	3·0	241	30	5·3	2·1	215
1·5 ,, .	28	6·3	3·5	004	30	5·3	2·1	323	28	5·7	3·1	328	30	6·0	4·6	250	29	5·5	3·9	251	30	4·7	2·4	265
2·1 ,, .	28	5·4	0·4	352	30	5·5	0·6	296	28	5·9	1·6	288	30	6·3	5.2	263	26	7·3	5 8	259	30	6·4	5·3	293
3·0 ,, .	27	6·4	3·5	180	30	5·7	2·9	181	25	6 3	2·9	179	30	9·3	7·6	281	21	9·0	7·3	265	30	9·1	7·8	287
3·6 ,, .	24	6·6	3·4	191	30	5·5	2·9	188	20	6·6	4·2	173	30	9·7	8·2	284	18	10·3	8·8	262	30	10·1	9·0	290
4·5 ,, .	23	6·7	1·5	237	30	6·3	1·9	232	14	8·0	5·5	199	30	11·1	8·7	285	14	10·4	9·2	276	30	11·7	10.7	280
5·4 ,, .	23	7·5	3·2	284	30	6·9	2·9	270	4	6·1	2·7	270	30	11·6	9.6	277	12	12 8	9 7	266	30	13·8	12·9	277
6·0 ,, .	23	7·8	3·7	278	30	8·2	4·9	281	3	9·7	7·6	264	30	12·6	11.1	273	11	13·1	12·2	266	30	14·9	12·5	274
7·2 ,, .	18	8·9	6·1	297	29	10·8	7·9	270					30	14·9	13.0	264	5	14·4	14·4	242	29	16·2	13·6	270
9·0 ,, .	10	10·9	8·8	291	28	15·5	12.6	276					25	21·6	20.1	257	1	17·0	17·0	265	26	25·1	22·9	265

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	CALCUTTA/ DUMDUM				COCHIN/WILLINGDON†												DARJEELING							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2.3	1.9	175	30	0·7	0·6	069	30	3·6	2·8	267	30	1·5	0·6	075	30	0·1	0.1	342	30	1·2	1·0	224
0·15 a.g.	30	7.6	6.1	204	30	3·3	2.1	046	29	5·0	4·2	271	28	3·2	0·8	077	14	2.2	0·9	214	21	4 4	4·0	227
0·3 a.m.s.l.	30	8.3	7.0	214	30	3.5	2.1	017	29	5.8	4.8	271	28	3.0	0.7	330								
0.6 ,,	30	7.8	6.7	221	30	4·0	2.6	337	29	4.9	3.7	265	28	4.0	1.7	299								
0·9 ,,	30	7.3	5.9	230	30	3.3	1.6	334	29	3.4	1.8	275	28	3·9	1.7	307								
1·5 ,,	29	6.1	4.4	255	30	3.3	1.5	091	26	4.4	2.9	074	28	3·2	5 5	076								
2·1 ,,	24	7.0	4.3	276	30	4.7	3.3	084	25	6·6	5·9	070	22	4·8	3·5	082								
3.0 ,,	17	10·2	7·6	301	27	7.7	6.2	079	24	8.2	7·5	071	13	9.1	8.5	074	14	5·7	5·0	270	20	6·3	4.6	270
3·6 ,,	4	12.9	12 2	299	19	6·8	5.1	073	13	9·3	8·4	067	10	10.0	9·4	073	11	9·9	8·6	274	18	7·1	5·0	284
4·5 ,,	1	1.0	1 0	240	10	3·7	1.4	064	4	4.0	1.3	037	1	9·0	9·0	070	6	9.8	9·0	283	13	9·8	5.1	285
5.4 ,,					2	4 3	3.1	259	1	4.5	4.5	340					2	9.7	8.3	010	10	13·7	8.3	268
6·0 ,,					1	9·5	9.5	210	1	7.0	7.0	320					1	16·5	16·5	010	10	17·5	11.9	268
7·2 ,,					1	8.5	8.5	215	1	7.5	7.5	325					1	8.5	8.5	005	7	15.2	10·1	256
9·0 ,,																					3	12·8	10·4	237

Station	DEHRADUN								DIBRUGARH/MOHANBARI															
Time in I. S. T.	0530				1730				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·0	0 8	036	30	1·5	0.9	255	30	7·8	6·0	040	30	0 6	0·5	044	30	1·5	0.9	031	30	1.0	0·9	041
0·15 a.g.	30	2·7	1 8	064	30	3·8	2·0	253	29	5·8	5·2	039	30	2 8	2·2	070	29	4·9	3·0	050	28	5·0	3·8	052
0·3 a.m.s.l.									29	6.9	5.5	050	30	3.0	2.3	069	29	5.0	3.2	053	28	4.7	3.8	054
0·6 ,,									29	5.9	5.5	063	30	3.2	2.3	070	29	5.2	3.3	068	28	4.8	3.7	059
0·9 ,,	30	2·8	1·6	074	30	4.1	2·2	254	29	5.0	3.3	082	29	3·3	1·7	084	29	4·6	2.1	077	27	3.5	2·7	082
1·5 ,,	30	2·7	1·1	147	30	4.4	3.0	265	28	4.9	2.0	187	28	3·6	1·9	223	29	4 2	2·7	237	25	3.4	2.0	210
2·1 ,,	30	3.3	1·5	285	30	4.5	3.1	275	25	6.4	4.4	230	22	5 0	3·7	230	28	7.1	6.2	236	22	4.8	3.8	232
3·0 ,,	30	6 5	5·2	297	29	6·3	4·7	299	20	7·7	5.6	249	19	6·1	4 7	232	22	10·0	8·8	241	13	8.3	7·2	249
3·6 ,,	26	7·6	5.4	303	28	7·2	4·8	300	14	7·4	5·5	249	17	6 7	5·3	232	15	10 5	9·1	231	9	7.1	6.0	260
4.5 ,,	11	8·2	5·9	307	20	8.0	6.3	297	6	8·8	6·0	278	11	6·8	5·5	234	8	6.7	3·5	261	1	4·0	4.0	265
5·4 ,,	4	5·7	5·1	292	17	8.6	7.2	289	4	6.9	5.8	237	9	6·4	3·5	243	5	6 0	1·8	239				
6·0 ,,	3	5·3	3·8	271	16	9.8	8·4	287					8	8·8	4·3	255	3	6·8	4·5	336				
7·2 ,,					6	13.1	11.9	281					6	11·5	5.1	233	2	7·7	4·6	339				
9·0 ,,													2	8.3	4.7	317	1	16.0	16.0	355				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	GADAG												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3.1	2.6	235	30	2.7	0.8	118	30	3.9	3.0	240	30	0.4	0.2	060	30	2.1	0.8	342	27	1.9	0.9	220
0·15 a. g. .	30	5.8	4.9	245	30	4.5	1.1	117	29	8.8	6.1	244	30	2.7	0.6	088	30	3.5	1.3	334	27	5.4	2·6	220
0·3 a.m.s.l. .													30	2.8	0.6	070	30	3.7	0.9	325	27	5.7	2.8	226
0·6 ,, .													30	4.2	1.0	260	30	4.2	0.9	283	27	6·3	3.5	245
0·9 ,, .	30	5.5	3.6	265	30	4.7	0.9	095	29	9.2	5.8	253	30	5.7	2.8	260	30	4.9	2.5	257	27	6·7	4.0	250
1·5 ,, .	29	5.0	1.3	236	30	4.2	0.8	079	29	6.5	1.5	227	30	7.3	5.3	258	27	7.4	5.5	241	27	8.3	6.3	256
2·1 ,, .	29	4.2	1.7	113	29	4.3	0.4	037	28	5.1	2.9	115	30	9.2	7.8	268	26	10.1	8.6	246	27	9.8	7.9	269
3·0 ,, .	29	4.5	1.8	078	27	4.8	0.7	027	27	5.9	4.2	099	30	11.8	10.4	269	21	15.0	13.3	259	25	10·5	9.6	271
3·6 ,, .	21	6.4	3.6	063	25	5.4	0.8	010	23	6.3	4.1	080	30	14.1	12.6	271	15	13.1	11.8	265	24	10.8	9.5	275
4·5 ,, .	25	7.8	2.6	058	24	5.7	1.4	311	21	6.9	4.1	044	29	14.8	14.1	272	8	12.2	9.9	268	24	11.9	10.2	272
5·4 ,, .	24	6.4	0.7	350	19	6.5	1.5	307	17	7.6	4.0	018	28	14·9	13.1	272	6	10.3	8.0	270	22	10.8	8.8	721
6·0 ,, .	24	6.9	2.2	317	18	7·9	3.1	297	14	7.1	3.7	334	27	15.3	13.1	266	5	12·5	8.0	274	21	11.8	8.6	270
7·2 ,, .	22	7.8	4.1	277	15	9·1	4.5	284	5	9.2	7.8	348	26	17.2	15.0	271	3	11.8	6.6	293	20	12.9	10.5	275
9·0 ,, .	16	9.9	8.0	275	13	11·1	8·5	286	1	7.0	7.0	190	15	24.3	20.0	267	2	8.3	8.1	336	15	18.8	16.0	270

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.0	0·7	198	30	1.5	1.0	176	30	4.0	0.9	299	30	3.6	1.9	328	30	2.1	0.9	130	30	4·3	3.7	222
0·15 a.g.	30	5.1	2.6	198	30	6.2	3.1	243	30	5.4	1.5	321	29	5.6	2.9	325	30	6.9	1.1	089	29	7.8	7.0	216
0·3 a.m.s.l. .	30	5.7	2.9	215	30	6.4	3.0	214	30	5·4	1.9	304	29	5.6	2.9	325	30	7.3	1.1	079	29	6.7	5.8	227
0·6 ,, .	30	6.9	3.8	230	30	6.6	2.3	265	30	5.4	2.4	295	29	6.5	3.5	323	30	7.7	0.5	012	29	5.6	4.5	234
0·9 ,,	30	7.5	5.2	245	30	6.2	2.6	283	30	5.5	3.2	283	29	6.6	3.7	318	30	7.1	0.7	310	29	5.5	4.5	241
1·5 ,,	30	8.7	7.1	257	30	6.0	4.2	290	28	5.7	4.0	280	29	6.0	4.6	292	30	6.1	2.6	291	27	4.4	2.7	244
2·1 ,, .	25	9.3	7·7	266	30	7.3	5.8	283	26	6.3	4.6	286	28	7.5	6.4	284	25	7.1	5.0	295	27	3.9	2.3	282
3·0 ,, .	18	8.4	6.4	267	29	10.1	8.9	284	18	10.1	8·0	290	27	10.2	9.0	286	24	10.5	9.2	293	25	6.5	4.1	312
3·6 ,,	9	8.4	7·4	264	21	10.1	8.5	288					26	12.2	10.9	284	5	10.3	9.6	298	21	8.3	5.5	317
4·5 ,,	6	8.6	5.9	261	14	11.6	9.2	330					18	14.4	12.9	293	1	12.0	12.0	345	15	8.5	5.7	283
5·4 ,, .	4	5.5	2·5	261	7	10.4	7.1	300					14	14.3	13.5	293					12	7.8	5.2	265
6·0 ,, .	2	5·7	5.7	218	6	12.3	7.6	283					11	13.7	13.1	296					8	8·5	4·6	262
7·2 ,, .	1	7.0	7.0	225	2	12.0	11.5	327					3	17.0	16.7	298					3	14.0	10·7	293
9.0 ,, .													3	19.5	19.3	302								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	8.5	7.8	211	30	6.5	5.7	210	30	1.4	0.1	017	30	2.0	1·1	275	30	1.1	0.4	241	30	1.7	1.2	295
0·15 a.g. .	28	12.7	12.2	201	29	11.0	10.0	216	30	7·2	1.4	343	30	5.4	2.3	275	30	6.5	1.9	247	30	4.3	3.1	295
0.3 a.m.s.l. .	28	12.1	11.5	203	29	9.2	8.5	219	30	7.9	1.1	339	30	5.8	3.2	273	30	5.2	2.2	225	30	3.9	2.8	296
0.6 ,, .	28	7.7	6.7	204	28	6.8	6.0	217	30	8.5	1.9	302	30	7.0	3.9	278	30	7.7	2.7	279	30	4.0	3.0	289
0.9 ,, .	28	4.7	3.3	217	28	5.3	4.4	218	30	8.1	2.6	300	30	7.1	4.0	276	30	6.4	3.1	296	30	4.3	3.4	284
1.5 ,, .	27	4.2	2.4	277	27	3.9	2.2	232	30	7.9	4.3	293	30	6.8	5.1	276	30	5.9	4.1	310	29	4.9	3.9	287
2.1 ,, .	26	5.1	3.3	304	25	4.3	1.8	291	30	8.5	6.4	251	30	8.2	7.2	283	30	6.4	5.2	291	28	5.8	4.8	284
3.0 ,, .	21	6.3	5.1	310	25	5.9	4.4	304	28	10.0	8.4	294	30	11.2	10.1	292	29	8.4	6.5	288	28	8.2	6.5	281
3.6 ,, .	17	7.2	4.9	300	10	8.9	6.4	297	22	10.4	8.7	303	30	12.6	11.3	293	27	9.0	7.0	288	28	9.0	6.8	281
4.5 ,, .	15	8.1	5.0	284	2	10.3	6.5	279	13	11.5	8.4	306	30	13.3	12.1	287	22	10.8	9.6	294	27	10.2	8.2	277
5.4 ,, .	9	11.5	6.4	273					9	9.8	7.2	320	24	13.3	11.5	289	19	12.0	10.5	298	25	12.5	9.9	279
6.0 ,, .	9	12.1	7.9	275					7	7.4	6.1	306	22	12.9	11.2	294	19	13.9	12.3	298	23	14.1	12.5	287
7.2 ,, .	6	16.9	11.7	289					6	6.9	3.7	301	14	12.5	10.2	296	15	16.1	14.6	290	20	15.9	13.8	287
9.0 ,, .	3	23.0	17.9	282					2	11.7	11.3	317	8	16.3	10.4	285	9	16.4	12.9	287	13	18.9	14.5	290

Station	GWALIOR								IMPHAL/TULIHAL															
Time in I.S.T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.6	1.1	277	30	0.7	0.5	195	30	0·7	0.1	034	30	2.3	0.8	264	30	3.4	2.3	271	30	1.8	0.5	277
0.15 a.g. .	30	5.2	3.1	290	30	5.7	0.4	152	28	2.4	0.6	232	29	2.8	1.5	243	30	5.6	4.3	277	28	3.4	1.6	272
0.3 a. m.s.l. .	30	4.7	2.9	292	30	4.7	0.4	170																
0·6 ,, .	30	5.9	3.6	286	30	6.0	1.0	312																
0·9 ,, .	30	5.9	3.7	282	30	5.2	2.1	296	28	2.3	0.3	220	29	2.9	1.7	242	30	5.2	3.9	279	28	3.3	1.2	259
1·5 ,, .	30	5.5	4.3	287	30	5.4	4.6	287	27	5.0	3.7	276	28	4.2	3.3	250	30	5.7	4.6	269	28	5.8	4.7	264
2·1 ,, .	29	5.7	4.6	285	30	6.5	5.7	281	27	9.0	7.8	278	26	6.9	5.8	266	28	7.0	5.9	257	26	9.4	8.7	265
3·0 ,, .	29	7.9	6.5	282	27	8.3	6.9	286	20	9.9	8.6	279	16	9.6	8.4	265	18	11.4	9.8	267	16	8.8	7.6	266
3·6 ,, .	28	9.0	7.9	279	16	8.6	7.9	277	6	11.5	9.9	270	9	10.4	8.9	267	11	9.3	7.0	267	8	12.8	12.2	264
4·5 ,, .	27	10.3	9.0	281					2	5.7	3.6	220	3	10.8	10.0	223	7	9.5	7.7	268	1	7.0	7.0	260
5·4 ,, .	22	13.9	12.0	287					1	12.5	12.5	260	1	8.0	8.0	265	5	10.5	7.5	271				
6·0 ,, .	21	16.2	14.1	292									1	8.5	8.5	270	4	10.5	8.4	277				
7·2 ,, .	17	18.4	15.8	291													1	18.0	18.0	250				
9·0 ,, .	11	18.6	15.2	302													1	23.0	23.0	240				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	JABALPUR												JAGDALPUR											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.9	0.4	168	30	1.9	0.9	311	30	0.9	0.4	140	30	0.6	0.3	190	30	1.1	0.4	251	30	1.3	0.7	181
0.15 a.g.	30	5.4	2.3	193	30	4.4	2.3	303	29	7.6	2.0	047	29	5.3	4.0	212	30	4.3	1.5	272	30	7.0	3.9	200
0.3 a.m.s.l.																								
0.6 ,,	30	5.9	1.8	205	30	4.5	2.3	301	29	7.7	1·9	030	29	2.4	1.8	214	30	2.9	0.9	257	30	4·6	2·7	197
0.9 ,,	30	7.1	2.1	303	30	5.4	3.4	299	29	7.2	3.4	005	29	6.8	5.8	231	30	4.3	1.8	271	30	7.2	4.1	214
1.5 ,,	30	6.8	4·0	316	30	5.5	4.1	300	29	5.7	4.6	343	29	4.6	3.7	264	30	4.5	2.7	274	30	5.1	3.3	259
2.1 ,,	30	6.3	4.9	308	30	6.0	4.8	291	29	5.4	4.4	313	29	4.3	2·8	299	28	5.1	3.5	288	27	4.4	3.2	299
3.0 ,,	30	8.5	6.6	293	28	7.0	6.1	288	29	7.7	6.5	283	27	5.6	4.0	337	25	5.9	3.7	308	25	5.4	3.7	310
3.6 ,,	29	8.5	6.2	287	26	8.6	7.6	275	22	9.1	8.1	271	27	7.2	4.8	327	20	6.0	4.3	317	7	7.6	7.0	340
4.5 ,,	8	8·2	7·2	326	20	11.6	10.6	278	3	8.8	8.4	299	21	7·1	4.3	315	14	7.3	6.2	313				
5.4 ,,	5	8·3	6·8	321	19	14.3	12.7	286					18	6.9	5.1	290	9	8·8	7.1	310				
6.0 ,,	4	7·4	7·0	328	18	15.8	13.5	289					17	7.9	6.1	291	8	8.2	7.0	295				
7.2 ,,	4	8·5	8·3	319	11	18.2	14.2	287					3	10.3	9.3	266	3	14.8	14.8	275				
9.0 ,,	1	10·5	10·5	310	4	10.1	8.5	309									1	10.5	10.5	255				

Station	JAIPUR/SANGANER												JAMSHEDPUR											
Time in I.S.T.	0530				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.4	0.9	334	30	3.4	3.4	257	30	1.7	1.2	323	30	1.4	0.5	320	30	2.2	0.8	233	30	3.1	0·4	02
0.15 a.g.	30	6.6	3.5	299	30	5.5	4.1	269	30	7.2	4.3	287	30	3.8	2.0	274	30	3.4	2.0	236	27	4.0	0.5	24
0.3 a.m.s.l.													30	3.9	2·2	262	30	3.4	1.9	239	27	4.0	0.8	24
0.6 ,,	30	6.7	3.5	300	30	5.6	4·2	273	30	7.5	4.7	285	30	6.3	4.4	258	30	3.7	1.6	261	27	4.4	1.7	26
0.9 ,,	30	7.7	5.3	294	30	6.0	4.3	272	30	7.5	5 2	286	30	7.2	5.3	261	30	4.2	2.2	273	27	4.8	2.5	27
1.5 ,,	30	7.0	5.4	286	29	6.5	4.9	266	29	6.9	5.7	284	30	5.9	4.8	281	29	5.9	3.8	272	27	5.7	4 2	27
2.1 ,,	29	6.3	5.2	291	28	7.0	5.5	266	26	6.4	5.3	289	29	6.3	5.0	287	24	6.5	4.3	277	23	6.7	5.7	27
3.0 ,,	23	6.9	5.8	290	24	7.0	6.1	280	22	6.0	4.6	285	23	8.6	7.2	286	9	7.0	4.7	297	19	8.9	7.9	28
3.6 ,,	12	6.4	4.7	301	23	7·5	6.2	285	18	6.8	5·0	276	17	9.4	8.3	273	1	6.0	6.0	285	15	9.5	8.6	29
4.5 ,,	2	7.0	6.8	303	22	8.6	7.3	289	3	3.2	2.3	307	9	11.1	9.7	283					8	11.9	11.1	29
5.4 ,,					18	10.4	8.9	288	1	4.0	4.0	265	5	10.1	8.4	262					7	16·3	14.5	28
6.0 ,,					16	12·0	9·9	295					2	7.3	5.9	277					5	14.8	10·8	28
7.2 ,,					11	13·5	11.4	291					1	10.5	10.5	350								
9.0 ,,					6	19.3	17.1	272																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

April, 1962 (Chitra 11—Vaisakh 10, 1884 Saka)

Station	JHARSUGUDA												JODHPUR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.1	0.5	113	30	1.7	0.7	241	30	2.2	0.9	120	30	2.1	1.3	257	30	2.3	1.9	232	29	3.7	2.5	253
0.15 a.g. . .	30	4.0	1.7	141	29	4.1	1.8	239	29	6.6	2.7	154	30	7.8	4.8	290	30	4.9	3.3	232	29	5.7	4.2	280
0.3 a.m.s.l. .	30	3.4	1.5	137	29	4.2	1.8	239	29	5.7	2.1	150	30	5.7	2.0	285	30	3·7	3.1	236	29	4.7	3.4	271
0.6 ,, .	30	5.3	2.6	243	29	4.5	2.7	254	29	6.5	2.5	176	30	6.9	4.5	276	30	4.1	3.4	231	29	5.3	4.2	265
0.9 ,, .	30	6.3	3.9	249	29	4.7	3.6	263	29	5.5	2.1	225	30	6.4	4.5	265	30	5.0	4.1	247	29	5.1	4.4	250
1.5 ,, .	30	5.7	4.4	268	29	5.4	5.0	277	28	5.0	3.7	274	30	5.9	4.4	264	30	6.2	4.8	256	29	5.3	4.4	242
2.1 ,, .	29	6.5	3.5	286	27	6.9	6.2	278	27	6.0	5.0	279	30	5.6	4.8	254	30	8.8	4.4	261	29	5·2	4.4	248
3.0 ,, .	25	8.9	7.4	294	19	8.0	6.8	285	22	7.3	6.1	291	30	7.1	4.7	259	30	7.5	5.1	253	29	5.3	4.5	261
3.6 ,, .	11	9.2	8.0	298	13	9.9	8.9	305	7	9.9	8.9	295	30	7.8	5.2	260	27	7.6	5.6	260	29	5.9	5.0	267
4.5 ,, .					6	12.1	10.6	286					30	8.9	6.7	268	26	9.1	7.5	268	28	6.9	5.6	269
5.4 ,, .					2	13.7	13.4	289					28	11.4	9.6	269	25	11.1	9.5	271	28	10.8	10.1	274
6.0 ,, .													28	12.3	9.8	269	23	12.7	11.4	270	28	12.9	12.0	276
7.2 ,, .													27	15.1	13.4	269	22	15.9	14.6	277	27	13.7	12.2	276
9·0 ,, .													25	18.1	16.2	274	11	16.0	15.6	268	23	17.2	15.8	275

Station	JODHPUR				LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.1	1.4	240	30	1.7	0.4	264	30	3.0	1.6	295	30	2.2	0.5	118	30	0.8	0.7	177	30	4.0	2.8	146
0.15 a.g. . .	30	8.2	5.7	244	30	7.8	0.8	174	30	4.8	2.4	303	30	8.6	1.1	108	30	4.5	4.1	189	30	4.7	3.5	204
0.3 a.m.s.l. .	30	7.0	4.5	245	30	8.3	1.2	175	30	5.0	2.6	305	30	8.8	1.8	117	30	5.3	5.0	190	30	4.6	3.6	172
0.6 ,, .	30	7.7	5.8	248	30	8.2	1.8	220	30	5.9	3.3	297	30	8.9	1.7	120	30	6.3	6.0	188	30	4.5	3.6	189
0.9 ,, .	30	7.4	6.1	247	30	6.7	2.7	275	30	5.8	3.8	298	30	6.5	1.9	270	30	5.8	5.2	183	30	4.3	3.3	194
1.5 ,, .	30	6.4	5.6	257	30	6.5	5.8	299	30	5.5	4.6	288	30	6.4	4.2	289	30	4.4	2.5	129	27	4.2	1.9	132
2.1 ,, .	29	6.2	4.8	260	29	8.0	6.9	300	30	7.0	6.5	288	29	8.2	7.1	293	30	4.9	3.7	068	25	5.7	4.6	075
3.0 ,, .	22	5.4	3.6	285	25	10.5	8.7	302	29	9.7	9.1	286	22	10.4	9.8	291	29	6.4	5.1	063	22	7.1	5.8	063
3.6 ,, .	14	4.7	2.3	311	20	12.2	10.2	308	27	11.1	10.2	295	12	12.2	11.1	290	29	5.3	3.5	061	18	7.5	5.7	067
4.5 ,, .	5	7·1	3.3	312	11	11.8	8.7	310	25	14.3	13.1	292	3	8.5	7.5	297	28	4.9	2.6	059	17	5.8	3.9	078
5.4 ,, .	2	6.0	5.4	306	4	10.0	7.3	284	22	14.8	13.3	297	1	4.0	4.0	320	29	5.6	1.1	107	15	6·2	2.4	114
6.0 ,, .	2	6.7	6.7	300					19	15.3	11.7	295					29	5.3	0.6	216	14	6.1	1.2	102
7.2 ,, .	1	7.5	7.5	280					17	17.6	15.1	288					29	6.9	2.7	240	10	6.0	2.2	290
9·0 ,, .									2	24.3	16.7	320					24	8.5	6.6	243	9	10.6	8.2	253

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5.0	4.5	131	30	3.7	3.2	154	30	1.3	1.1	076	30	4.3	3.8	290	30	1.3	0.6	236	30	1.4	0.8	34
0.15 a.g.	29	7.1	6.7	127	30	7.0	6.7	162	30	3.5	1.1	023	30	6.3	5.9	281	30	3.5	3.0	312	30	4.1	2.3	34
0.3 a.m.s.l.	29	6.6	6.2	134	30	7.0	6.7	163	30	3.4	1.9	003	30	6.4	6.1	283	30	3.6	3.2	312	30	3.9	2.4	34
0.6 ,,	29	5.6	4.6	152	30	6.6	6.1	169	30	3.3	1.4	330	30	5.4	4.6	283	30	4.1	3.5	311	30	3.4	2.0	35
0.9 ,,	29	3.7	2.4	155	30	4.6	3.8	169	30	3.3	1.2	319	30	3.6	2.5	286	29	3.1	2.3	312	30	3.0	1.3	05
1.5 ,,	29	3.7	1.7	102	30	3.8	1.8	127	29	3.3	0.2	011	28	2.6	1.0	048	27	3.5	1.2	263	29	4.3	3.5	09
2.1 ,,	29	4.9	4.2	068	30	4.2	2.6	086	29	5.0	3.1	102	27	4.3	3.1	083	24	3.7	1.8	120	29	6.3	5.7	09
3.0 ,,	29	5.6	3.9	042	29	5.2	3.9	062	29	7.1	5.4	076	24	6.7	5.4	086	20	7.6	6.2	083	27	6.1	4.9	09
3.6 ,,	28	5.6	3.6	050	26	5.3	3.3	065	29	7.8	5.9	068	23	6·8	4.2	093	18	6.7	5.3	079	24	6.1	4.5	08
4.5 ,,	28	4.8	1.8	058	21	5.2	2.3	053	26	7.5	2.0	066	19	5.3	1.3	136	12	6.0	2.1	059	21	5.6	3.3	09
5.4	29	5.0	0.1	024	9	4.1	0.9	281	24	6.4	1.3	115	18	6.5	0.8	318	2	3.0	2.7	159	18	6.0	3.1	07
6.0	29	6.0	1.2	243	5	3.7	2.3	229	22	6.4	1.0	090	18	7.0	1.6	338	1	3.0	3.0	175	12	6.9	2.4	14
7.2 ,,	27	6.6	4.1	255	3	3.3	2.7	254	16	7.0	2.5	291	15	8·3	5.2	293					5	3.1	1.0	29
9.0 ,,	25	10.1	7.6	247					12	6.5	6.1	263	12	10.1	7.8	272					3	7.8	2.2	10

Station	MINICOY								NAGPUR/SONEGAON															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.6	0.9	335	30	1.5	0.9	340	30	0.9	0.3	308	30	2.0	1.0	254	30	2.1	0.7	271	30	1.6	0.4	182
.15 a.g.	28	4.5	2.9	332	27	3.8	2.5	348	30	5.5	2.0	230	30	3.1	1.3	259	30	3.8	1.4	285	28	6.0	2.5	171
0.3 a.m.s.l.	28	4.2	2·5	329	27	3·8	2.4	250																
0.6 ,,	28	4.3	2.4	335	27	3.6	1.8	001	30	6.1	2.2	239	30	3.2	0.8	252	30	3.5	1.3	280	28	6.5	1.9	179
0.9 ,,	28	3.7	1.3	342	27	3.5	1.5	050	30	6.5	2.5	264	30	3.0	0.7	260	30	2.9	1.1	279	28	6.2	1.1	212
1.5 ,,	28	3.7	1 3	080	26	4.6	3.6	089	30	5.4	2.2	280	30	3.9	2.1	301	30	3.4	1.9	279	28	4.8	2.3	307
2.1 ,,	24	4.2	3.3	081	26	6.8	6.0	084	30	5.7	2.6	302	29	4.4	2.1	293	30	4.0	2.2	295	28	4.7	3.7	306
3.0 ,,	19	6.4	5.4	081	21	6.8	6.1	082	30	5·8	3.8	302	29	6.5	3.4	281	30	5.3	4.2	287	27	5.3	3.9	292
3.6 ,,	15	6.7	4.6	084	8	4.7	3.8	082	30	6.8	5.2	290	29	7.0	4.7	280	30	6.4	5.1	286	17	6.3	4.8	292
4.5 ,,	12	5.4	3.0	070	1	1.0	1.0	280	30	7.8	6.3	286	28	8.6	6.1	285	30	8.7	7.0	286	7	8.1	5.4	294
5.4 ,,	9	5.7	2.0	087					30	10.9	7.6	286	28	10.9	8.1	290	30	10.7	8.3	281	1	11.5	11.5	005
6.0 ,,	8	5.8	2.9	109					30	11.9	8.6	283	28	11.3	9.0	286	30	11.7	8.4	283	1	11.5	11.5	005
7.2 ,,	1	6.0	6.0	240					29	13.7	11.3	274	27	15.0	12.3	275	30	13.3	10.4	272				
9.0 ,,	1	1.0	1.0	345					29	18.9	16.2	269	9	20.2	10.9	273	30	19.1	15.8	268				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	NEW DELHI/SAFDARJUNG																POONA							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·9	0·6	311	30	2·9	1·5	314	30	2·1	1·1	315	30	1·5	0·3	335	30	0·3	0·3	225	30	1·7	1·4	282
0·15 a. g. .	30	7·9	1·7	290	30	4·3	1·0	320	30	6·4	3·5	312	30	6·8	2·1	008	30	3·4	2·8	273	30	5·7	4·8	285
0·3 a.m.s.l. .	30	2·5	0·1	221	30	4·3	1·9	341	30	3·0	1·8	309	30	5·8	1·9	015								
0·6 ,, .	30	8·0	2·4	294	30	3·9	1·3	298	30	7·7	5·1	317	30	6·9	2·5	345	30	2·2	2·0	237	30	3·8	3·2	285
0·9 ,, .	30	8·0	3·6	306	30	4·2	2·1	290	30	7·5	4·9	313	30	6·3	2·8	316	30	4·7	3·7	308	30	6·3	4·9	291
1·5 ,, .	29	7·3	4·0	303	30	6·0	3·9	294	30	6·9	4·5	304	29	6·9	4·6	299	30	5·9	3·9	260	30	5·8	4.3	298
2·1 ,, .	29	6·9	5·2	290	30	7·3	5·0	291	30	6·0	4·3	298	28	7·5	5·5	282	30	5·2	1·4	020	30	4·6	1·9	309
3·0 ,, .	29	8·1	6·1	289	30	8·2	6·2	287	30	7·5	5·9	280	27	10·3	8·0	287	30	5·1	2·3	150	25	4·4	0·9	091
3·6 ,, .	29	9·0	7·3	287	30	9·3	7·3	287	30	9·1	7·1	279	7	6·9	5·8	283	25	5·4	3·4	182	25	5·2	2·0	124
4·5 ,, .	28	9·9	7·7	288	30	10·2	8·0	285	29	11·4	9·7	287	1	6·0	6·0	235	10	5·1	0·9	357	24	6·0	0·9	267
5·4 ,, .	28	11·3	9·1	286	27	11·7	8·3	287	29	11·8	9·9	285					4	9·6	7·2	357	18	6·3	3·3	262
6·0 ,, .	29	11·4	9·2	286	26	13·2	11·3	283	29	12·4	10·5	282					3	10·0	9·3	338	17	8·8	6·5	277
7·2 ,, .	29	13·9	11·7	280	10	16·7	13·2	291	29	16·1	14·3	280					1	7·0	7·0	270	16	11·0	9·6	264
9·0 ,, .	29	18·3	16·3	276	3	15·5	13·7	265	29	19·3	17·6	280					1	11·0	11·0	270	8	16·8	15·3	282

Station	POONA				PORTBLAIR																RAIPUR			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·9	0·7	256	30	0·2	0·1	003	30	2·4	2·1	071	30	0·5	0·1	036	30	0·8	0·3	315	30	1·5	6·7	250
0·15 a. g. .	30	4·7	4·4	277	30	2·7	1·5	353	30	3·5	2·9	067	30	2·5	0·7	106	30	2·7	1·0	003	28	5·9	3·5	250
0·3 a.m.s.l. .					30	2·7	1·4	352	30	3·2	2·5	065	30	2·4	0·6	103	30	2·7	1·0	032				
0·6 ,, .	30	2·8	2·4	258	30	2·7	0·4	010	30	2·3	1·1	017	30	2·6	0·4	346	30	2·4	1·4	067	28	6·7	3·9	263
0·9 ,, .	30	6·1	5·7	294	30	2·9	0·7	123	28	2·4	0·6	293	30	2·3	0·7	339	26	2·1	0·8	095	28	7·0	3·7	277
1·5 ,, .	30	7·3	5·4	314	30	2·8	1·5	122	20	2·2	0·2	086	30	2·9	1·1	040	24	2.4	1·0	120	27	6·4	4·8	295
2·1 ,, .	30	5·6	1·2	344	29	3·6	2·8	116	18	3·2	2·0	098	30	3·3	1·8	095	24	2·4	1·2	095	26	6·9	5·2	300
3·0 ,, .	30	5.6	3·1	116	29	3·9	3·3	108	12	4·2	3·5	092	30	3·7	1·9	103	18	3·3	1·8	076	21	8·4	6·3	307
3.6 ,, .	25	6·6	3·9	131	30	4·2	3·1	102	10	3·5	1·5	087	30	4·9	1·6	098	11	2·8	1·6	092	13	8·4	5·9	297
4·5 ,, .	9	6·0	1·6	226	30	4·7	1·5	098	9	5·0	2·5	100	29	5·1	0·9	044	7	3·9	2·6	073	7	9·7	8·3	326
5·4 ,, .	6	5·9	5·1	311	28	5·3	0·2	207	8	5·2	2·2	038	29	5·1	0·8	034					2	6·7	2·1	267
6·0 ,, .	4	8·7	7·6	297	28	5·7	0·0	014	7	5·1	2·8	065	28	5·4	0·5	186					1	7·0	7·0	260
7·2 ,, .	2	11·0	10·5	271	28	5·7	2·0	232	3	4·2	1·1	170	29	5·8	1·4	207								
9·0 ,, .					22	6·3	2·5	223					25	6·5	3·7	212								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	RAIPUR								RAXAUL												SILIGURI/ BAGHDOGRA			
Time in I.S.T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·8	0·8	244	30	2·3	1·0	151	30	1·2	0·7	064	30	2·2	0·4	158	30	1·4	0·6	277	30	1·9	1·4	059
0.15 a.g. .	30	4·2	2·4	262	29	7·0	4·1	237	28	6·7	1·1	068	29	5·7	0·9	188	30	5·9	3·5	273	29	6·0	5·5	069
0.3 a.m.s.l. .									28	7·1	1·0	067	29	5·8	1·1	178	30	6·1	3·8	273	29	6·2	5·3	073
0.6 ,, .	30	4·3	2·7	262	29	7·1	4·3	246	28	8·1	0·8	230	29	5·2	1·0	153	30	6·4	4·1	269	29	6·8	6·3	079
0.9 ,, .	30	5·0	3·5	271	29	6·6	4·2	255	28	8·2	2·2	266	28	5·9	1·1	174	30	6·3	4·0	270	29	6·1	5·1	081
1.5 ,, .	30	5·3	3·9	268	29	5·0	3·8	285	28	8·7	4·7	271	24	8·1	4·8	273	30	7·0	5·2	271	27	4·7	1 4	084
2.1 ,, .	29	5·9	4·9	274	29	5·6	3·6	293	26	9·2	7·3	281	16	8·1	5·6	269	28	7·7	6·2	272	22	6 0	2·3	267
3·0 ,, .	26	7·2	5·5	282	22	6·8	3·6	297	19	8·5	5·9	278	4	3·0	0·9	233	18	8·0	4·9	280	17	8·7	6·3	280
3.6 ,, .	24	7·8	6·4	288	6	7·2	6·1	304	13	8·8	4·2	277					18	8·9	5·7	282	13	9·6	8·3	277
4.5 ,, .	17	8·7	7·4	299					9	7·3	2·9	280					10	7·3	5·4	279	8	11 6	10·4	272
5.4 ,, .	11	12·5	10·9	293					6	9·3	3·4	294					7	7·7	6·3	288	4	11·4	10·0	264
6.0 ,, .	10	13·9	12·1	298					5	9·8	3·8	335					5	6·8	4·8	295	2	8·0	7·3	250
7.2 ,, .	5	15·9	13·7	305					3	7·4	6·3	348					1	7·0	7·0	350				
9.0 ,, .																								

Station	SILIGURI/BAGHDOGRA												TIRUCHIRAPPALLI											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·8	2.2	103	30	2.5	0.3	249	30	2.0	1.3	033	30	1.7	0.7	181	30	3.3	2.7	125	30	3.7	2.4	151
0.15 a.g. .	29	3·6	2.9	102	30	5.3	0.7	247	30	4.6	2.2	045	30	4.1	1.9	180	30	4.9	4.0	126	30	6.8	5.3	163
0.3 a.m.s.l. .	29	3·6	3.1	100	30	5.3	0.8	245	30	4.7	1.9	049	30	4.3	2.4	187	30	4·8	4·1	124	30	7.3	5.7	164
0.6 ,, .	29	4·1	3.2	101	30	5.7	2.1	254	30	4.9	0.5	018	30	4·7	3·1	193	30	4.4	3.8	127	30	7.6	6.2	163
0.9 ,, .	29	4.4	3.4	099	30	6.2	3.7	249	30	5.2	1.5	251	30	4.7	2.9	191	30	4.1	3.4	124	30	5.7	4.5	159
1.5 ,, .	25	5.6	1.1	217	29	7.2	5.9	254	28	5.7	3.4	266	30	3.9	1.8	131	30	3.6	2.6	114	29	3.5	1.5	122
2.1 ,, .	20	7.8	5.5	275	25	7.8	6.3	255	22	7.0	4.4	270	30	5.4	3.8	072	30	4.3	3.3	085	28	4.0	3.1	077
3.0 ,, .	10	8.9	7.9	270	17	6.8	4.2	268	15	7·2	4.6	259	30	7.5	6.2	068	29	6.6	5.7	061	27	6.1	5.2	071
3.6 ,, .					13	7.3	4.4	275	3	8.7	6.2	246	29	6.5	4.9	067	29	6.2	4.9	065	23	6.2	4.8	072
4.5 ,, .					8	7.6	3.2	283	1	7.0	7.0	145	29	5.5	2.9	070	28	5·4	2·9	075	18	4.9	2.3	079
5.4 ,, .					3	5·7	3·8	114	1	6.0	6.0	115	23	6·2	2·5	092	23	6·1	2·3	125	12	4.5	1.9	097
6.0 ,, .					1	4·5	4·5	245	1	7.0	7.0	120	20	5·9	0.9	147	19	5·4	1·9	133	8	2.9	0.6	092
7.2 ,, .					1	6·5	6·5	290					15	6.6	2.0	259	16	5·7	1·6	257	2	3.3	1.7	204
9·0 ,, .													7	9.0	7.4	282	11	9·7	6·0	260				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	TRIVANDRUM																UDAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·4	1·1	019	30	1·7	0·8	289	30	2·8	1·9	258	30	1·4	0·6	354	30	0·3	0·3	256	30	1·6	1·3	238
0·15 a. g.	30	4·1	3·4	354	30	2·8	1·0	281	30	4·4	3·6	255	29	3·2	1·3	305	30	3·5	2·4	290	30	4·8	3·1	250
0·3 a.m.s.l.	30	4·1	3·5	350	30	3·3	1·1	293	30	4·9	3·6	253	29	2·6	1·6	298								
0·6 ,,	30	3·7	2·6	325	30	2·9	0·8	319	30	4·3	2·3	242	29	4·2	2·0	291								
0·9 ,,	30	4·0	1·8	330	29	3·0	1·0	359	30	3·3	1·0	270	27	3·5	0·7	292	30	5·0	3·7	290	30	5·3	3·9	251
1·5 ,,	30	3·8	1·5	079	18	3·9	2·9	075	30	4·1	3·1	060	26	4·6	2·7	070	30	6.7	4·8	280	30	5·2	4·3	251
2·1 ,,	30	5·8	4·2	083	14	5·9	5·3	081	30	6·1	5·2	062	22	7·0	6·2	073	30	6·1	3·5	265	30	5·6	5·0	253
3·0 ,,	30	7·3	5·4	083	7	6·5	5·5	070	30	6·1	4·8	078	21	7·2	6·0	102	27	6·4	3·6	250	28	6·8	6·0	262
3.6 ,,	30	6·3	4·2	087	7	5·9	5·4	081	30	4·8	3·2	083	18	5·9	4·6	089	27	8·6	5·5	260	27	7·8	6·7	262
4.5 ,,	30	5·6	3·5	098	6	5·1	4·6	102	30	5·1	2·7	079	13	4·3	1·5	130	21	7·9	6·3	287	25	9·6	7·6	268
5·4 ,,	30	6·4	3·2	126	5	3·3	3·0	111	30	5·6	2·4	100	8	3·9	1·2	137	18	8·7	7·0	292	22	10·7	8·9	280
6·0 ,,	29	5·7	1·9	144	5	5·2	3·4	088	30	6·2	2·6	111	3	4·0	1·9	223	16	8.0	6·1	295	20	12·3	10·5	276
7·2 ,,	28	6·1	1·4	145	5	5·7	4·4	076	30	6·5	1·3	150	1	6·0	6·0	235	3	5·0	5·0	270	18	15·2	12·5	278
9·0 ,,	26	7·1	1·3	225	2	9·5	7·7	296	28	8·7	2·3	254									5	14·5	12·0	274

Station	UDAIPUR				VENGURLA												VERAVAL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·5	0·4	246	30	0·5	0·4	025	30	3·5	3·0	281	30	0·5	0·2	295	30	3·8	3·2	325	30	6·3	5·8	268
0·15 a. g.	30	4·7	3·4	270	30	3·8	2·1	011	30	5·0	4·7	286	30	3·8	3·1	325	30	8·1	7·2	318	30	8·5	7·9	275
0·3 a.m.s.l.					30	4·2	2·3	343	30	5·1	4·7	292	30	4·7	3·8	326	30	8·7	8·0	313	30	8·7	8·1	278
0·6 ,,					30	4·3	2·4	320	30	4·5	3·8	296	30	5·0	3·6	326	30	12·3	8·1	313	30	7·7	6·7	287
0·9 ,,	30	5.6	4·2	277	30	4·7	3·1	316	30	3·8	2·1	307	30	5·4	3·0	317	30	8·6	7·5	314	30	6 7	5·3	295
1·5 ,,	30	6·1	5·0	273	25	6·3	4·8	333	30	4·2	1·3	334	26	5·7	3·0	315	30	6·8	5·3	303	30	6·0	3·8	317
2·1 ,,	30	6·4	5·1	263	22	5·2	1·5	358	30	4·3	0·8	084	25	3·9	0·1	293	30	6·7	3·7	294	30	5·8	3·0	323
3·0 ,,	23	6·0	4·0	260	19	5·3	3·1	137	30	5·8	2·4	113	25	5·9	4·0	111	29	8·3	4·0	271	30	5·3	2·6	273
3·6 ,,	15	5·8	3·7	268	1	1·0	1·0	095	29	6·7	3·1	116	15	6·6	4·5	100	12	7·9	4·3	231	30	6·3	3·7	255
4·5 ,,	2	11·3	10.5	279					29	6·8	1·7	133					6	7·2	3·5	265	30	7·5	5 2	259
5·4 ,,									27	6·9	0·9	343					1	7·0	7·0	280	30	8·8	5·9	273
6·0 ,,									24	6·8	2·4	273					1	9·5	9·5	305	30	9·3	6·9	274
7·2 ,,									15	9·3	4·7	282					1	7·0	7·0	280	27	10·4	8·9	281
9·0 ,,																					26	16·4	14·3	277

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

April, 1862 (Chaitra 11—Vaisakh 10, 1884 Saka)

Station	VERAVAL				VIJAYWADA/GANNAVARAM												VISHAKHAPATNAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·7	3·1	288	30	1·3	0·5	118	30	3·9	3·2	175	30	2·3	1·8	148	30	2·6	2·5	274	30	5·0	4·4	217
0·15 a. g.	30	8·0	7·2	291	30	5·2	3·7	185	30	5·0	4·1	175	30	6·3	5·3	166	30	6·0	5·8	280	30	5·5	5·0	222
0·3 a. m. s. l.	30	9·2	8·3	296	30	7·3	5·8	199	30	5·0	4·5	175	30	7·4	6·5	174	30	6·9	6·7	263	30	5·3	4·8	230
0·6 ,,	30	9·2	8·5	297	30	7·7	6·1	199	30	4·5	4·0	179	30	6·7	5·8	181	30	7·7	7·3	244	30	5·3	4·8	252
0·9 ,,	30	8·2	7·4	296	30	6·5	5·0	198	30	3·4	2·6	193	30	4·5	3·3	191	30	6·6	6·2	245	30	5·7	4·9	255
1·5 ,,	30	6·5	4·2	290	29	4·3	1·9	191	30	3·1	0·6	288	30	3·5	0·6	225	30	4·4	3·6	256	30	4·9	3·2	277
2·1 ,,	29	5·8	1·9	290	29	4·4	1·0	059	30	4·4	2·1	019	30	3·7	0·8	036	30	4·1	1·8	277	30	4·4	2·1	304
3·0 ,,	29	6·1	2·7	253	26	5·0	2·7	010	25	5·6	3·2	030	29	4·7	1·8	018	30	4·7	2·8	355	28	4·8	2·6	350
3·6 ,,	25	7·4	1·8	278	23	5·7	2·5	346	24	6·2	2·4	025	28	4·4	1·5	338	30	5·7	3·7	350	26	5·9	3·7	356
4·5 ,,	11	6·3	4·3	270	22	5·5	1·9	314	23	5·5	1·7	284	25	5·8	3·1	291	30	6·2	3·3	3.5	23	6·5	2·8	330
5·4 ,,	4	8·9	8·8	270	17	7·2	4·5	293	23	6·7	4·6	277	17	7·8	4·7	280	30	7·7	4·5	295	21	7·2	4·3	289
6·0 ,,	2	8·0	7·7	280	15	7·6	6·2	279	23	7·7	5·7	280	10	8·5	5·4	271	30	8·5	5·7	279	19	7·8	5·1	277
7·2 ,,					13	10·0	9·5	250	21	10·6	8·7	265	2	6·5	6·5	303	30	11·4	9·0	267	17	12·3	10·4	267
9·0 ,,					8	12·7	12·3	262	17	12·7	11·1	268					29	15·4	13·6	262	11	17·4	15·1	254

Station	VISHAKHAPATNAM							
Time in I.S.T.	1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface.	30	3·8	3·7	244	30	2·8	1·9	213
0·15 a. g.	30	5·1	4·8	240	30	4·8	4·0	220
0.3 a. m. s. l.	30	5·9	5·7	237	30	6·0	5·3	225
0·6 ,,	30	7·1	6·9	233	30	6·7	6·0	236
0·9 ,,	30	6·1	5·6	245	30	5·8	5·0	248
1·5 ,,	30	4·1	2·8	289	29	3·7	2·6	260
2·1 ,,	30	3·9	2·6	325	26	3·3	1·2	352
3·0 ,,	30	4·9	3.2	346	26	4·7	2·7	355
3·6 ,,	30	5·7	3·1	350	20	6·2	4·0	337
4·5 ,,	30	6·1	2·9	309	12	5·9	3·7	298
5·4 ,,	30	7·7	5·9	276	7	7·1	3.2	294
6·0 ,,	30	9·3	7·4	271	1	10·5	10·5	220
7·2 ,,	30	13·0	10·7	267				
9·0 ,,	29	15·8	13·7	263				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	0530 hr.			
10·5	1	14·0	14·0	255
	1730 hr.			
10·5	2	21·3	16·9	242
	AHMADABAD			
	0530 hr.*			
10·5	22	31·2	27·5	274
12·0	16	29·9	27·0	273
14·1	8	28·8	25·1	270
16·2	3	11·8	11·5	246
18·0	3	8·3	2·9	032
	1130 hr.			
10·5	4	29·9	29·3	253
	1730 hr.*			
10·5	17	30·2	25·2	277
12·0	13	31·0	27·2	287
14·1	8	28·6	26·7	278
16·2	2	13·5	12·1	257
18·0	1	14·0	14·0	195
	ALLAHABAD/ BAMHRAUL			
	0530 hr.*			
10·5	15	30·5	28·0	257
12·0	9	31·4	29·3	249
14·1	4	20·4	18·9	260
16·2	2	7·3	6·5	230
	1730 hr.*			
10·5	15	30·6	27·3	268
12·0	8	38·9	37·7	271
	ANANTAPUR			
	0530 hr.			
10·5	7	10·7	9·8	261
12·0	2	15·0	14·0	305
	1730 hr.			
10·5	8	9·8	8·4	268
12·0	5	9·1	8·2	265
14·1	4	6·5	6·3	250
16·2	2	9·7	9·7	282
18·0	1	15·5	15·5	290
21·0	1	28·0	28·0	280
24·0	1	40·0	40·0	270

Ht. in Km.	n	V	v	D
	ASANSOL			
	0530 hr.			
10·5	1	24·0	24·0	225
12·0	1	23·0	23·0	230
	1730 hr.			
10·5	1	20·0	20·0	290
	BAHRAICH			
	0530 hr.			
10·5	1	14·0	14·0	285
	1730 hr.			
10·5	11	26·7	19·1	265
12·0	9	27·5	22·0	250
14·1	5	21·5	20·1	282
16·2	3	15·3	15·3	287
	BANGALORE			
	0530 hr.@			
10·5	23	10·9	8·4	268
12·0	20	12·1	9·4	261
14·1	18	10·5	6·8	250
16·2	13	7·3	2·4	244
18·0	11	7·0	2·5	186
21·0	6	5·6	2·3	142
	1130 hr.			
10·5	13	10·7	8·4	268
12·0	11	11·8	9·8	268
14·1	7	4·9	2·6	263
16·2	4	6·3	5·1	101
18·0	2	10·3	4·8	090
	1730 hr.@			
10·5	11	14·2	12·0	272
12·0	11	13·6	11·7	255
14·1	8	9·9	7·9	276
16·2	7	3·6	2·2	129
18·0	5	5·4	2·0	085
	BAREILLY			
	1730 hr.			
10·5	1	28·5	28·5	250

Ht. in Km.	n	V	v	D
	BEGAMPET			
	0530 hr.			
10.5	4	20·0	19·9	311
12·0	3	25·3	25·0	289
14.1	2	13·3	13·2	274
16.2	1	7·0	7·0	335
	1730 hr.			
10·5	2	15·5	15·5	278
	BHAGALPUR			
	0530 hr.			
10·5	6	15·5	13·6	270
12·0	5	12·2	10·8	268
14·1	3	9·8	7·4	268
16·2	1	18·0	18·0	255
	1730 hr.			
10·5	4	12·3	10·3	302
12·0	4	17·4	15·7	2.5
14·1	1	24·0	24·0	235
	BHUBANESHWAR			
	1730 hr.			
10·5	1	33·0	33·0	255
	BIKANER			
	0530 hr.*			
10·5	1	7·0	7·0	245
	1730 hr.			
10·5	2	15·5	14·9	235
12·0	1	33·5	33·5	235
14·1	1	39·0	39·0	250
16·2	1	27·0	27·0	245
	BOMBAY/ SANTA CRUZ AERODROME			
	0530 hr.*			
10·5	29	17·8	15·5	277
12·0	29	21·5	19·6	271
14·1	20	19·9	17·2	287
16·2	10	15·6	13·7	265
18·0	2	17·5	15·9	299

Ht. in Km.	n	V	v	D
	1130 hr.			
10·5	6	14·9	14·1	292
12·0	5	20·5	18·8	273
14·1	2	18·7	16·3	257
16·2	1	10·0	10·0	210
	1730 hr.*			
10·5	28	19·6	16·1	277
12·0	28	22·7	20·0	277
14·1	22	21·6	20·0	279
16·2	12	12·8	12·0	275
18·0	9	7·5	3·5	295
21·0	4	7·5	5·5	104
24·0	1	9·0	9·0	060
	CALCUTTA/ DUM DUM			
	0530 hr.*			
10·5	22	27·9	26·0	255
12·0	18	29·1	27·4	260
14·1	9	22·5	21·3	255
16·2	2	7·0	6·5	254
18·0	2	4·5	3·3	267
	1130 hr.			
10·5	1	25·0	25·0	250
12·0	1	18·0	18·0	240
	1730 hr.*			
10·5	22	28·5	26·8	265
12·0	17	31·3	29·1	260
14·1	8	24·7	21·5	267
16·2	5	19·0	18·3	253
18·0	1	4·5	4·5	300
	DARJEELING			
	1730 hr.			
10·5	2	26·0	22·7	223
	DIBRUGARH/ MOHANBARI			
	1730 hr.			
10·5	1	13·0	13·0	356
	GADAG			
	0530 hr.			
10·5	13	15·9	12·5	262
12·0	7	17·3	14·6	267

Ht. in Km.	n	V	v	D
	0530 hr.			
14·1	3	8·3	7·4	31
16·2	2	5·3	1·1	00
18·0	2	4·3	4·0	09
21·0	1	17·5	17·5	08
	1730 hr.			
10·5	11	14·3	10·8	28
12·0	9	12·2	10·4	26
14·1	7	7·2	5·0	26
16·2	2	5·0	1·9	16
	GAUHATI			
	0530 hr.			
10·5	7	30·3	26·1	26
12·0	3	34·3	32·0	26
14·1	1	42·5	42·5	26
	1130 hr.*			
10·5	2	17·0	16·1	29
12·0	2	25·7	25·7	28
14·1	2	35·3	35·2	28
	1730 hr.*			
10·5	10	26·3	22·3	27
12·0	7	30·3	29·1	274
14·1	1	30·5	30·5	255
16·2	1	29·5	29·5	275
	GAYA			
	1730hr.			
10·5	1	11·5	11·5	340
	GOPALPUR			
	1730 hr.			
10·5	1	17·0	17·0	345
12·0	1	21·5	21·5	270
	RAKHPUR			
	0530 hr.			
10·5	1	12·5	12·5	285
12·0	1	14·5	14·5	285
	1730 hr.			
10·5	3	25·5	20·5	275
12·0	2	17·5	17·2	302
14·1	1	23·5	23·5	270
16·2	1	11·0	11·0	290
18·0	1	22·0	22·0	225

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Ht. in Km.	n	V	v	D
		GWALIOR		
		0530 hr.		
10.5	5	21·3	17·0	261
		1130 hr.		
10.5	2	31·5	20·8	267
		1730 hr.		
10.5	3	20·2	14·8	303
12.0	2	32·5	22·5	273
		JAIPUR/SANGANER		
		1730 hr.		
10.5	3	22·3	18·0	257
12.0	1	46·5	46·5	220
14·1	1	75·0	75·0	225
		JODHPUR		
		0530 hr.*		
10.5	20	22·9	20·2	268
12.0	16	25·2	22·0	266
14.1	8	27·3	26·0	257
16.2	1	34·0	34·0	295
		1130 hr.		
10.5	7	19·3	17·7	264
12·0	3	26·5	24·9	262
14.1	3	32·2	30·0	273
16.2	2	28·0	26·9	273
18.0	2	27·7	27·7	268
21.0	2	22·5	16 7	301
24.0	1	5·0	5·0	204
		1730 hr.*		
10.5	19	22·9	20·4	271
12.0	19	32·9	30·4	271
14·1	5	37·2	32·7	260
		LUCKNOW/AMAUSI		
		1730 hr.		
10.5	1	35·5	35·5	245
		MADRAS/ MINAMBAKKAM		
		0530 hr.*		
10·5	21	8.9	7.5	254
12·0	19	8·9	5·6	262
14·1	11	8·5	2·3	258
16·2	5	4·7	2·3	017
18·0	1	7·0	7·0	310
		1130 hr.		
10·5	7	12·6	11·6	249
12·0	5	13·0	12·4	249
14·1	4	9·9	7·2	223
16·2	4	5·1	2·3	066
18 0	3	4·8	3·5	283
21·0	3	5·2	2·2	267
		1730 hr.*		
10·5	21	13·0	10·4	246
12·0	19	13·4	11·1	256
14·1	10	7·3	5·1	243
16·2	7	8·0	2·8	216
18·0	3	5·7	3·1	237
21·0	1	8·5	8·5	355
		MANGALORE/ BAJPE		
		0530 hr.		
10·5	6	10·8	8·4	252
12·0	2	7·3	7·1	294
14·1	1	5·0	5·0	285
		1730 hr.		
10·5	8	12·9	11·9	264
12·0	4	11·1	9·0	269
14·1	1	19·0	19·0	320
16·2	1	12·0	12·0	330
		MINICOY		
		0530 hr.		
10·5	3	8·2	1·1	040
12·0	1	12·0	12·0	270
		1730 hr.		
10·5	1	2·5	2·5	050
12·0	1	7·0	7·0	060
14·1	1	4·5	4·5	095
		NAGPUR/SONEGAON		
		0530 hr.*		
10·5	29	22·7	19·8	26
12·0	29	28·9	23·4	261
14·1	28	19·9	18·7	266
16·2	25	14·1	12·7	267
18·0	20	7·7	2·9	271
21·0	5	6·5	5·6	063
		1130 hr		
10·5	2	20·0	19·4	262
12·0	1	39·0	39·0	265
		1730 hr.*		
10·5	29	24·1	21·0	266
12·0	29	25·6	23·3	268
14·1	27	22·1	20·4	266
16·2	22	12·5	11·4	262
18·0	15	9·7	5·3	256
21·0	6	8·3	1·3	131
		NEW DELHI/ SAFDARJUNG		
		0530 hr*		
10·5	28	25·9	22·5	274
12·0	26	30·0	29·7	271
14·1	26	30·4	28·6	268
16·2	24	22·5	22·1	263
18·0	22	9·1	8·1	274
21·0	12	5·7	2·8	028
24·0	4	6·1	4·9	060
		1130 hr		
10·5	2	33.0	32.5	264
		1730 hr.*		
10·5	29	24·2	21·9	277
12·0	26	31·5	27·7	275
14·1	24	31·9	30·4	268
16·2	21	21·3	20·5	264
18·0	22	10·0	8·0	260
21·0	11	7·3	3·2	068
24·0	3	4·7	1·3	140
27·0	1	8·0	8·0	330
		POONA		
		0530 hr.		
10·5	1	9·0	9·0	275
		1730 hr.*		
10·5	7	19·9	17·3	285
12·0	4	17·1	15·9	263
		PORT BLAIR		
		0530 hr.*		
10·5	19	7·4	4·5	200
12·0	16	8·7	5·7	187
14·1	11	8·0	5·6	182
16·2	6	7·4	6·0	082
18·0	1	7·5	7·5	045
		1730 hr.*		
10·5	19	8·1	5·1	199
12·0	13	9 0	7·5	195
14·1	8	7·5	5·6	175
16·2	3	9·3	3·2	118
		TIRUCHCHIRAP-PALLI		
		0530 hr.		
10·5	4	7·1	7·0	261
12·0	3	7·7	7·3	309
14·1	2	2·5	1·7	280
16·2	1	4·5	4·5	180
		1730 hr.		
10·5	8	11·3	9·2	266
12·0	8	11·1	8·5	278
14·1	3	7·2	6·5	330
16·2	3	6·5	2·4	085
18.0	2	5·0	4·9	066
21·0	1	14·5	14·5	270
		TRIVANDRUM		
		0530 hr.*		
10·5	24	8·4	2·4	217
12·0	21	8·8	3·0	200
14·1	17	9·7	2·5	184
16·2	12	8·9	5·3	084
18·0	6	10·5	5·3	241
		1130 hr.		
10·5	2	9·3	5·1	296
12·0	1	11·5	11·5	320
14·1	1	5·0	5·0	320
		1730 hr.*		
10·5	26	8·2	2·7	244
12·0	23	7·7	0·6	260
14·1	22	7·6	2·2	099
16·2	13	9·8	4·5	124
18·0	7	9·8	6·4	095
21·0	3	11·3	10·8	284
		VERAVAL		
		0530 hr.		
10·5	21	21·5	18·7	278
12·0	13	24·2	21·7	289
14·1	8	18·8	17·6	280
16·2	2	25·0	22·5	270
18·0	2	15·3	13·9	261
21·0	2	7·0	4·4	175
24·0	2	6·7	6·7	115
		VISHAKHAPATNAM		
		0530 hr.*		
10·5	27	18·2	16·7	261
12·0	27	20·5	19·2	261
14·1	22	15·8	14·3	257
16·2	18	11·8	9·7	260
18·0	10	7·1	3·3	262
21·0	3	5·3	1·3	250
		1130 hr.		
10·5	6	22·3	19·7	259
12·0	4	22·3	20·5	272
14·1	1	20·0	20·0	280
		1730 hr.*		
10·5	28	18·2	16·9	263
12·0	27	19·0	17·4	267
14·1	25	14·9	13·4	260
16·2	21	9·5	7·3	261
18·0	10	7·3	4·7	195
21·0	2	4·7	3·7	347

RADIOSONDE DATA

April 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

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

LIST OF RADIOSONDE STATIONS IN INDIA

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

RADIOSONDE DATA

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

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

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1001 mb.)						ALLAHABAD/BAMHRAULI (944 mb.)						BANGALORE (909 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	27	055	298.3	304	291	288.5	30	098	297.3	304	293	287·5	30	921	294.5	297	292	291.
1000	27	065	..	..	..	..	30	051	..	..	..	..	30	094	..	..	..	..
900	26	992	297.7	302	293	277.4	30	983	299.5	303	295	278.5	30	1011	294.5	297	292	290.
850	26	1489	293.8	299	289	274.4	30	1483	295.6	300	291	275.9	30	1506	293.2	296	288	284.
800	26	2008	290.1	296	285	272.0	30	2007	291.4	297	286	274.5	30	2027	291.0	294	287	279.
700	26	3129	281.0	287	277	268.1	30	3132	282.1	286	275	269.3	30	3155	284.0	287	279	270.
600	26	4379	271.8	278	265	259.4	30	4388	272.6	275	268	260.5	30	4451	274.6	279	271	260.
500	26	5808	262.3	267	254	..	30	5821	263.8	268	258	..	29	5867	265.0	270	263	..
400	26	7485	249.7	259	240	..	30	7511	252.3	256	248	..	28	7591	255.7	259	252	..
300	24	9529	234.8	245	224	..	30	9579	238.4	243	233	..	27	9665	240.3	247	237	..
250	23	10755	227.1	238	221	..	26	10828	231.6	238	227	..	25	10921	230.1	237	224	..
200	21	12213	218.8	227	211	..	24	12315	224.3	229	217	..	22	12394	219.3	228	213	..
175	17	13066	214.1	221	207	..	19	13183	220.0	227	214	..	22	13238	213.1	222	206	..
150	14	14034	206.9	214	203	..	17	14171	216.4	223	210	..	22	14185	206.6	218	198	..
125	10	15091	201.1	211	196	..	13	15289	208.8	212	202	..	20	15262	200.0	216	191	..
100	8	16370	199.1	207	192	..	10	16663	203.5	208	199	..	16	16547	195.3	205	190	..
80	5	17731	202.8	208	197	..	8	17986	203.3	208	196	..	15	17843	195.1	202	192	..
70	5	18535	208.0	218	191	..	8	18768	205.6	218	197	..	14	18612	196.1	207	189	..
60							7	19740	210.7	216	201	..	11	19485	198.0	204	193	..
50							5	20898	215.0	219	205	..	10	20534	202.7	207	198	..
40																		

	BOMBAY/SANTA CRUZ (1007 mb.)						CALCUTTA/DUM DUM (1006 mb.)						GAUHATI (1002 mb.)					
Surface	30	013	296.9	300	294	294.7	30	006	298.0	303	293	295.8	30	049	295.8	301	293	292.3
1000	30	073	..	.	..	..	30	057	..	..	..	..	30	067	..	..	..	..
900	30	994	296.5	302	291	279.8	30	981	294.8	300	290	286.1	30	984	294.1	298	290	286.3
850	30	1491	294.1	300	288	276.3	30	1476	292.2	298	287	281.9	30	1477	291.1	295	287	283.1
800	30	2013	291.0	297	285	274.8	30	1995	288.4	294	283	279.1	30	1993	287.8	291	284	280·1
700	30	3140	282.9	287	278	273.2	30	3113	280.0	285	276	273.0	30	3109	280.3	286	278	274.1
600	30	4400	273.9	279	271	261.7	30	4363	271.2	276	265	266.9	29	4358	275.0	277	269	265.7
500	30	5841	265.3	270	261	..	30	5793	262.8	266	257	..	29	5793	264.0	270	260	..
400	30	7541	254.4	258	251	..	30	7479	252.7	259	246	..	28	7489	256.9	258	249	..
300	29	9632	240.0	246	236	..	25	9560	238.7	244	233	..	18	9580	245.6	247	235	..
250	29	10891	231.6	238	227	..	25	10816	231.1	235	224	..	16	10832	232.2	238	226	..
200	29	12377	222.1	228	218	.	24	12303	223.5	229	219	..	12	12316	225.3	228	220	..
175	26	13238	216.8	221	211	..	20	13140	218·4	227	209	..	7	13195	218.7	221	216	..
150	24	14204	210.8	216	204	..	14	14150	213·0	221	208	..	7	14170	215.0	220	211	..
125	17	15322	203.5	208	196	..	10	15306	204.8	211	199	..						
100	11	16650	197.2	202	193	..	9	16558	196.2	204	188	..						
80	6	17955	196.3	201	191	..	7	17873	197.2	217	189	..						
70							7	18596	195·8	203	189	..						
60							5	19500	198.4	205	191	..						

RADIOSONDE DATA

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

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

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR. Surf. Pr. (978 mb.)						MADRAS/MINAMBAKKAM (1007 mb.)						NAGPUR/SONEGAON (972 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	297·0	302	291	281.2	30	015	300.1	302	297	297.2	30	311	297.2	301	292	285.7
1000	30	048	..	..	..	..	30	073	..	..	..	..	30	059	..	..	..	..
900	30	975	299.1	306	293	278.6	30	996	295.4	299	291	286.0	30	987	300.0	305	292	279.3
850	30	480	295.8	300	290	274.4	30	1492	293.3	296	289	279.8	30	1490	296.0	301	288	276.4
800	30	2004	291.9	299	286	274.5	30	2012	290.3	295	286	274.9	30	2014	291.7	297	284	274.6
700	30	3131	282.5	288	276	268.5	30	3137	282.9	287	278	266.9	30	3140	282.3	287	278	270.4
600	30	4376	273.5	279	269	259·3	30	4400	275.2	280	271	255.8	30	4396	272.0	276	268	262·2
500	29	5825	263.8	269	255	..	29	5847	266.7	271	263	..	30	5830	262.6	268	261	..
400	29	7531	252.0	257	247	..	29	7555	255.8	262	251	..	30	7514	251.9	257	248	..
300	26	9590	237.8	242	232	..	23	9632	239.3	243	234	..	30	9585	236.5	245	231	..
250	24	10845	229.8	235	225	..	20	10880	228.6	233	223	..	30	10817	227.5	235	221	..
200	21	12325	223·3	230	217	..	20	12338	218.0	228	208	..	30	12280	218.5	224	213	..
175	15	13205	220.0	226	215	..	20	13173	211.3	217	199	..	30	13116	212·5	219	208	..
150	10	14158	215.5	222	212	..	18	14132	205.2	211	197	..	30	14073	206.5	214	202	..
125	6	15349	212.5	219	204	..	12	15276	201.2	206	196	..	30	15145	206.0	208	196	..
100							8	16587	194.9	199	191	..	29	16468	196.2	203	190	..
80													26	17771	197·2	207	190	..
70													21	18545	198·1	209	192	..
60													17	19435	200·5	214	195	..
50													15	20517	206·4	223	197	..
40													7	21847	213·4	219	208	..

	NEW DELHI/SAFDARJUNG (982 mb.)						PORT BLAIR (1001 mb.)						TRIVANDRUM (1001 mb.)					
Surface	30	209	295.9	301	289	286.5	30	079	297.8	299	297	296.7	30	064	298·9	300	298	296.2
1000	30	047	..	..	..	..	30	090	..	..	..	..	30	074	..	..	..	..
900	30	975	299.4	304	292	277.7	30	1007	294.4	297	291	290.7	30	999	294.1	296	292	288.3
850	30	1475	295.6	302	288	275.0	30	1500	292.1	295	289	285.4	30	1493	290.9	293	287	285.2
800	30	1998	291.0	298	284	273.6	30	2018	288.9	293	285	282.4	30	2010	288.1	291	285	280.1
700	30	3121	281.7	289	276	267.2	30	3140	282.6	287	277	276.2	30	3131	282.5	286	280	269.9
600	30	4374	271.6	277	267	260·6	30	4404	276.3	281	271	267.3	30	4394	275.2	280	271	264.1
500	30	5803	262.0	268	257	..	30	5860	268.0	275	261	..	30	5846	266.2	273	261	..
400	30	7481	250.8	258	245	..	29	7576	257.0	266	252	..	28	7552	255.8	263	248	..
300	30	9533	235.5	242	230	..	27	9677	241.6	250	233	..	26	9657	241.4	248	234	..
250	29	10761	227.3	233	222	..	27	10942	231.9	239	225	..	26	10914	231.4	237	222	..
200	28	12262	220.9	226	214	..	27	12421	220.0	227	213	..	24	12386	219·3	225	209	..
175	27	13088	218.7	226	210	..	27	13268	213.8	221	205	..	23	13232	213·5	218	207	..
150	26	14066	215.2	220	206	..	26	14217	206.7	215	197	..	22	14202	206·8	213	199	..
125	20	15198	210.4	215	202	..	22	15295	200.0	209	191	..	21	15487	200.4	209	193	..
100	17	16555	206.6	213	200	..	19	16524	195.7	203	191	..	20	16488	193·6	205	185	..
80	15	17903	205·1	213	200	..	10	17903	198.2	211	191	..	15	17887	193·5	203	185	..
70	12	18750	208.5	215	202	..	9	18662	200.6	216	191	..	13	18655	194.9	204	185	..
60	8	19678	211.4	221	199	..	8	19597	201.2	217	191	..	10	19555	197·7	208	187	..
50	7	20827	216.6	224	213	..	8	20652	201.1	220	193	..	9	20590	200.6	212	191	..
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RADIOSONDE DATA

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

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

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	041	300.0	302	298	296.5
1000	30	071	..	..	..	..
900	30	999	297.4	301	292	282.8
850	30	1498	295.1	298	290	279.9
800	30	2021	291.5	296	288	277.6
700	30	3149	283.0	287	278	271.0
600	30	4408	273.6	279	269	262.4
500	30	5849	265.1	269	261	..
400	30	7550	254.5	261	249	..
300	30	9642	240.5	246	233	..
250	29	10905	231.8	241	223	..
200	27	12381	220.1	228	211	..
175	27	13220	214.8	220	206	..
150	26	14182	208.3	215	199	..
125	23	15270	202.2	208	194	..
100	21	16616	195.5	204	187	..
80	15	17908	195·1	207	188	..
70	12	18656	196.1	205	185	..
60	9	19632	200.5	208	189	..
50	8	20665	204·0	217	189	..
40						

RADIOSONDE DATA

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

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

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (999 mb.)						ALLAHABAD/BAMHRAULI (993 mb.)						BANGALORE (907 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	25	055	310.4	315	307	287.8	30	098	309.5	312	303	285.7	30	921	302.9	306	295	289.0
1000	25	047	..	..	..	..	30	030	..	..	..	..	30	042	..	..	..	..
900	25	995	302.0	309	296	279.0	30	979	302.4	305	299	279.3	30	987	302.4	305	295	287.6
850	25	1498	296.9	304	291	276.0	30	1483	297.8	301	294	275.7	30	1491	297.7	301	294	284.4
800	25	2023	291.8	299	286	275.4	30	2010	293.0	296	290	272.8	30	2017	293.0	297	288	282.2
700	25	3148	281.5	289	274	271.3	30	3141	283.8	287	282	268.8	30	3146	283.5	287	277	276.3
600	25	4403	273.8	281	270	261.6	30	4403	274.4	278	271	259.1	30	4411	275.3	281	271	265.0
500	24	5842	263.8	270	256	..	30	5843	265.2	269	262	..	30	5861	266 8	272	261	..
400	24	7529	251.9	257	246	..	29	7541	253.7	258	251	..	29	7568	256.3	259	251	..
300	20	9596	237.0	243	230	..	27	9621	239.8	251	235	..	24	9672	242.0	246	236	..
250	19	10842	227.4	235	222	..	26	10883	232.1	243	227	..	23	10934	231.4	237	224	..
200	18	12299	218.3	226	213	..	23	12377	225.1	235	218	..	23	12411	220.2	229	210	..
175	16	13166	213.7	220	208	..	20	13238	221.1	235	215	..	21	13257	214.9	224	204	..
150	16	14115	208.6	216	198	..	18	14231	216.5	231	213	..	21	14216	208.9	220	200	..
125	15	15190	202.5	211	193	..	14	15376	211.7	225	207	..	19	15304	201.9	212	192	..
100	10	16538	197.9	206	194	..	12	16717	203.7	207	199	..	17	16625	195.9	204	184	..
80	8	17845	198.1	208	190	..	8	18017	202.3	209	199	..	13	17947	199.0	203	194	..
70	5	18568	196.6	202	195	..	8	18811	205.3	211	201	..	12	18745	198.7	206	189	..
60	..	..	..	..	..	..	5	19834	212.4	217	205	..	9	19594	201.7	209	193	..
50	..	..	..	..	..	..	5	20967	217.0	222	210	..	8	20618	207.3	215	195	..

	BOMBAY/SANTA CRUZ (1006 mb.)						CALCUTTA/DUM DUM (1004 mb.)						GAUHATI (999 mb.)					
Surface	30	013	303.1	307	301	295.3	30	006	303.9	312	293	295.5	27	049	302.9	309	296	293.7
1000	30	063	..	..	..	..	30	043	..	..	..	..	27	037	..	..	..	..
900	30	996	299.8	304	294	280.5	30	979	298.0	306	289	287.9	27	971	297.9	303	293	286.6
850	30	1498	296.2	301	291	276.8	30	1478	294.6	301	285	284.9	27	1468	293.8	298	290	284.1
800	30	2023	292.8	298	288	274.3	30	2001	290.8	296	282	281.2	27	1989	289.9	294	285	281.6
700	30	3156	284.7	288	281	270.8	30	3129	282.6	288	273	273.1	27	3111	281.5	286	278	274.5
600	30	4423	275.7	279	270	262.1	30	4389	273.8	277	266	263.4	27	4366	273.4	277	269	265.2
500	30	5874	267.1	270	263	..	30	5831	265.0	269	256	..	27	5806	264.9	268	261	..
400	29	7589	256.0	259	251	..	30	7528	254.0	260	245	..	26	7506	253.5	257	249	..
300	28	9687	241.4	245	238	..	27	9623	240.9	247	232	..	14	9589	240.5	247	236	..
250	28	10955	232.6	238	228	..	23	10898	232.6	237	228	..	11	10846	231.2	235	226	..
200	28	12448	223.8	227	219	..	17	12394	223.8	230	220	..	10	12429	222.0	226	219	..
175	24	13315	218.7	223	215	..	14	13262	218.5	225	214	..	..	..	..	..	..	..
150	24	14292	212.4	217	205	..	11	14252	213.5	220	207	..	..	..	..	..	..	..
125	21	15410	205.5	212	200	..	8	15380	207.7	215	199	..	..	..	..	..	..	..
100	18	16735	199.6	206	194	..	8	16719	201.1	211	191	..	..	..	..	..	..	..
80	15	18050	198.8	201	193	..	..	..	..	..	..	..	..	..	..	..	..	..
70	13	18849	200.9	204	198	..	..	..	..	..	..	..	..	..	..	..	..	..
60	10	19733	205.5	214	201	..	..	..	..	..	..	..	..	..	..	..	..	..
50	9	20862	209.9	218	202	..	..	..	..	..	..	..	..	..	..	..	..	..
40	6	22231	213.8	219	201	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (980 mb.)						MADRAS/MINAMBAKKAM (1005 mb.)						NAGPUR/SONEGAON (969 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	310.5	316	304	283.9	29	015	304.2	307	301	298.4	30	311	310.0	314	305	283.5
1000	30	037	..	..	..	..	29	059	..	..	..	..	30	023	..	..	..	..
900	30	988	303.6	307	299	280.5	29	991	297.9	301	293	286.1	30	980	304.1	308	299	279.6
850	30	1494	299.2	305	293	277.6	29	1490	295.6	300	290	280·8	30	1487	299.4	304	293	277.1
800	30	2023	294.4	300	287	275.4	29	2014	291.9	295	287	276.1	30	2016	294.0	300	287	276.4
700	30	3156	284.6	292	278	269.0	29	3145	284.2	289	281	270.2	30	3150	283.6	287	279	271.7
600	29	4419	274.6	280	270	265.3	29	4413	276.0	280	271	260.7	30	4410	272.8	277	270	264.9
500	29	5862	265.1	272	261	..	29	5867	267.4	274	263	..	30	5843	263.4	268	260	..
400	29	7562	254.1	260	248	..	28	7577	256.0	263	249	..	30	7532	252.2	257	248	..
300	27	9648	239.9	246	234	..	23	9671	241.0	249	233	..	29	9600	237.4	243	232	..
250	23	10909	232.5	238	227	..	22	10932	231.8	242	225	..	29	10846	228.4	235	222	..
200	22	12412	224.8	230	218	..	20	12414	221.0	228	211	..	29	12309	219.1	224	213	..
175	15	13271	219.5	224	213	..	17	13265	214.5	220	204	..	29	13151	214.1	221	208	..
150	7	14255	217.7	224	213	..	14	14255	208.6	217	203	..	28	14114	208.4	217	201	..
125	..	..	..	..	..	..	11	15331	203.0	210	199	..	27	15191	201.7	212	192	..
100	..	..	..	..	..	..	9	16705	196.6	203	193	..	24	16510	195.7	204	190	..
80	..	..	..	..	..	..	6	18009	194·0	195	193	..	20	17824	194.9	203	190	..
70	..	..	..	..	..	..	5	18749	193.0	197	190	..	18	18609	197.5	213	191	..
60	..	..	..	..	..	..	..	..	..	..	..	..	15	19501	201.2	211	191	..
50	..	..	..	..	..	..	..	..	..	..	..	..	12	20535	202.8	209	192	..

	NEW DELHI/SAFDARJUNG (980 mb.)						PORT BLAIR (999 mb.)						TRIVANDRUM (1000 mb.)					
Surface	30	209	307.9	312	303	286.7	30	079	301.9	303	298	296.9	30	064	302.7	305	298	296.9
1000	30	029	..	..	..	..	30	073	..	..	..	..	30	063	..	..	..	..
900	30	977	302.6	308	297	279.1	30	998	295.0	297	294	293.1	30	996	295.5	299	293	290.4
850	30	1483	297.9	303	292	276.1	30	1492	292.2	296	289	288.6	30	1492	292.4	297	290	287.8
800	30	2010	293.0	298	287	274.6	30	2010	289.5	293	287	284.8	30	2012	289.4	293	287	283.6
700	30	3139	283.0	288	278	269.4	30	3134	283.1	287	279	276.4	30	3138	283.6	287	281	273.4
600	30	4398	273.3	279	269	261·8	30	4401	276.5	281	273	269.6	30	4405	276.2	281	273	256.1
500	30	5832	263.2	270	258	..	30	5857	268.2	274	264	..	30	5861	267.8	274	262	..
400	30	7516	252.1	262	245	..	29	7576	256.4	263	253	..	30	7580	257.2	263	251	..
300	28	9575	236.3	245	231	..	27	9692	243.6	252	237	..	27	9638	242.9	251	237	..
250	27	10817	228.4	236	221	..	26	10965	233.5	241	222	..	26	10963	233.0	240	227	..
200	19	12286	221.1	227	209	..	24	12459	221.6	230	207	..	24	12452	221.1	230	213	..
175	18	13152	218.7	224	212	..	19	13324	215.2	222	207	..	23	13487	214.0	224	205	..
150	18	14133	215.8	223	210	..	19	14274	208.9	215	198	..	23	14249	206.5	217	197	..
125	17	15272	211.5	220	206	..	15	15348	201.5	208	193	..	21	15327	200.3	207	191	..
100	15	16644	206.7	213	202	..	12	16648	195.9	201	192	..	19	16643	194.5	207	188	..
80	12	18043	205·8	212	200	..	10	17907	196.2	203	189	..	11	17911	193.1	199	189	..
70	7	18826	207·5	214	201	..	10	18683	197.7	211	188	..	9	18705	195.2	205	187	..
60	6	19747	209·5	215	204	..	5	19588	202·4	213	195	..	8	19611	198.6	207	187	..
50	6	20851	216·8	220	214	..	..	..	..	..	..	..	5	20671	200.4	211	189	..

RADIOSONDE DATA

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

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

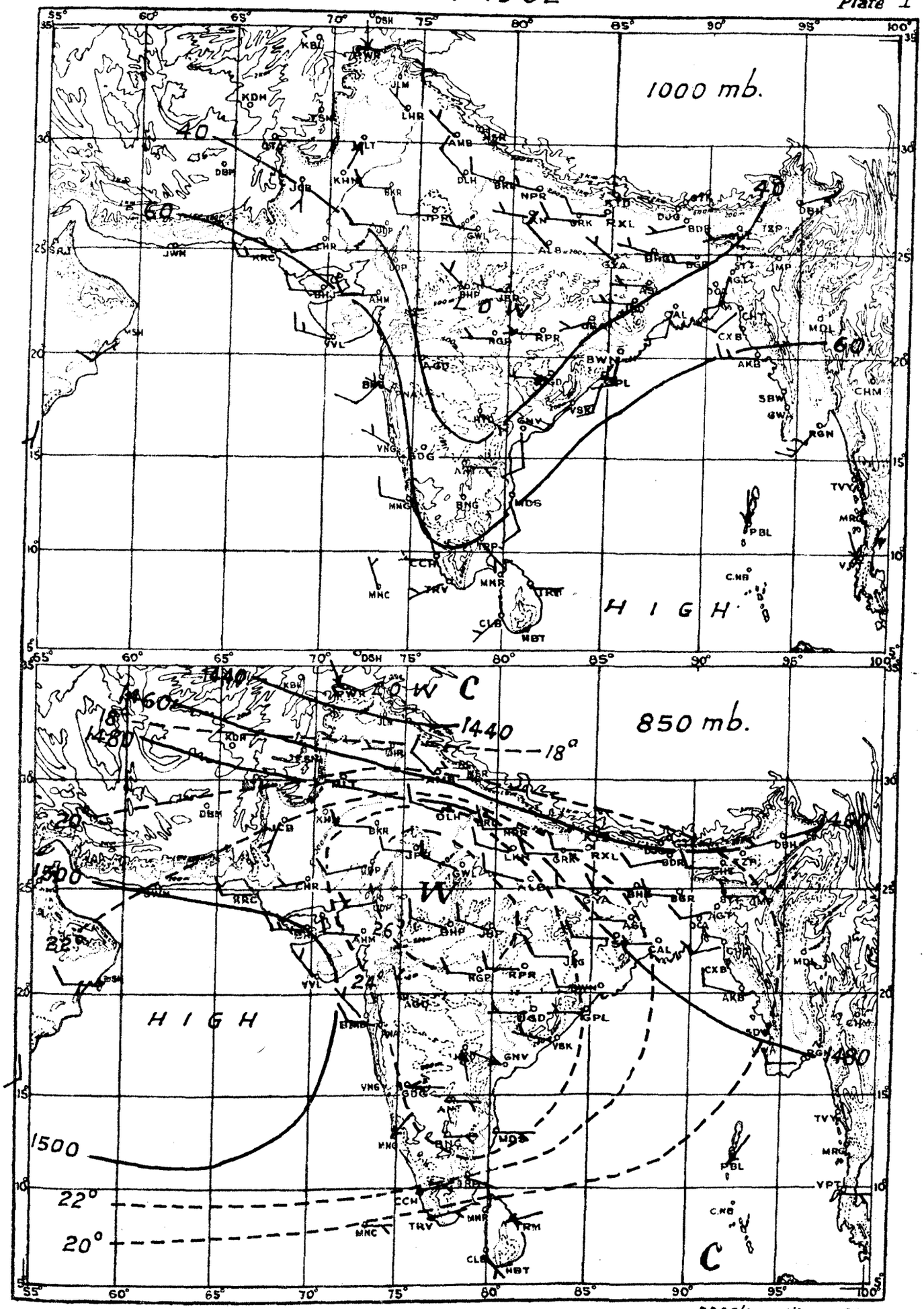
April, 1962 (Chaitra 11—Vaisakh 10, 1884 Saka)

Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (1002 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	041	302.8	305	302	298.3
1000	30	058	..	..	..	..
900	30	989	297.2	301	295	287.7
850	30	1487	295.0	299	290	282.8
800	30	2010	291.4	297	285	279.9
700	30	3138	282.5	289	275	272.8
600	30	4396	273.1	278	269	264.6
500	30	5835	264.5	271	260	..
400	30	7542	253.8	261	247	..
300	29	9610	239.0	248	233	..
250	28	10867	230.4	237	224	..
200	27	12349	220.5	228	214	..
175	25	13196	214.5	223	208	..
150	25	14160	208.2	218	200	..
125	25	15242	201.7	207	193	..
100	25	16568	195.8	203	187	..
80	18	17870	195.9	208	188	..
70	11	18636	194.9	202	184	..
60	7	19514	198.7	204	193	..

GIPN—S2— 612 D. G. Obs. P/65—7-9-66—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. APRIL 1962 Plate I



DDGC/2418(i) : 2 : 66

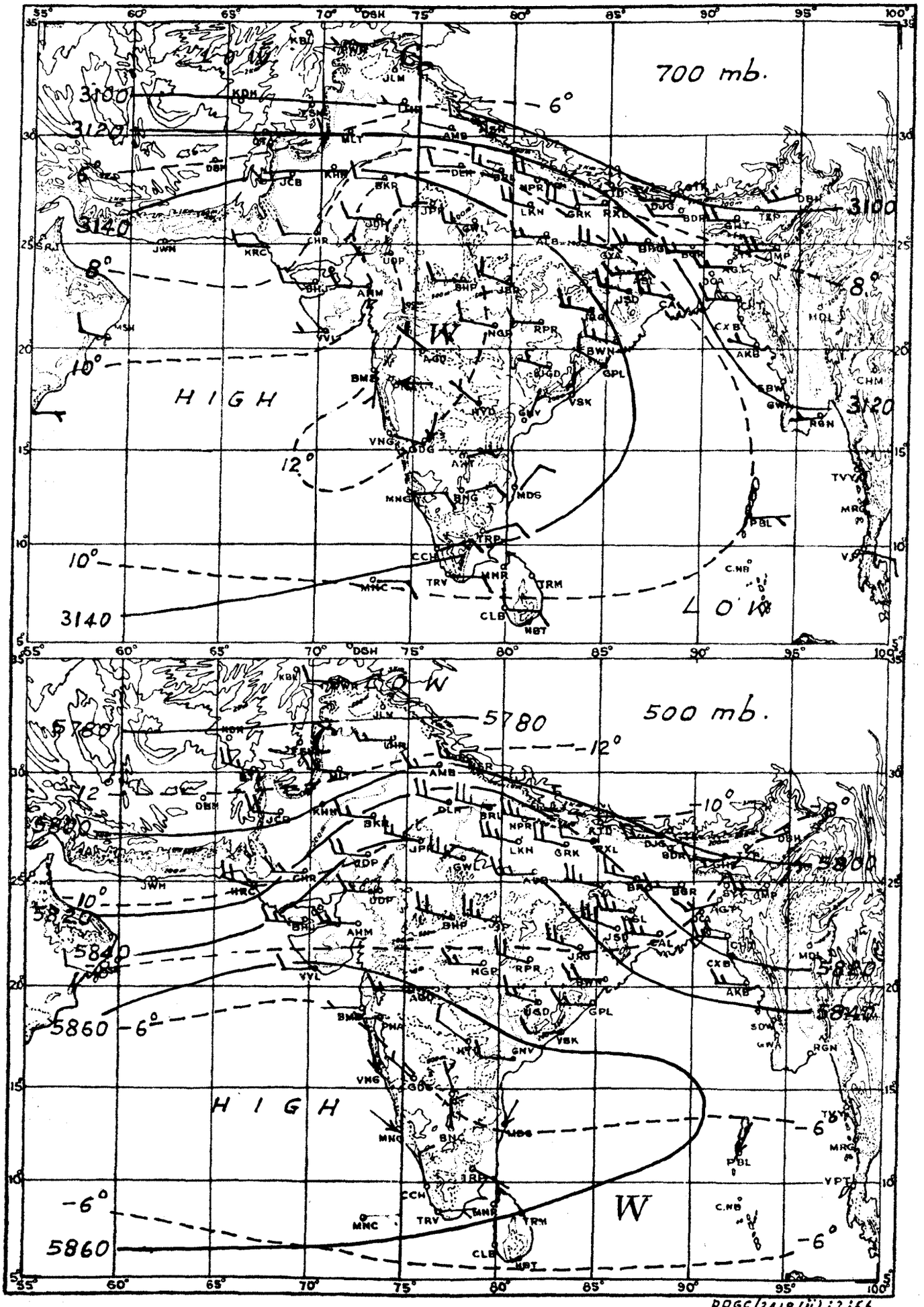
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

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

G.P.Z. P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. APRIL 1962 *Plate II*



DDGC/2418(ii):2:66

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

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

Registered No. MH-75

INDIA WEATHER REVIEW, 1962

Monthly Weather Repart

MAY

Published by authority of the Government of India

Chief features—

(i) Early onset of the monsoon in the Peninsula in association with a Bay cyclonic storm;

(ii) Advance of the monsoon into Assam towards the end of the month in the wake of a Bay depression; and

(iii) Arabian Sea depression of 28th to 31st.

Under the influence of a well marked upper air cyclonic circulation which persisted from 5th to 12th, there were spells of thunderstorm activity over the Peninsula during the first half of the month. Some of the important amounts of rainfall were : Alleppey 7 cm, Bangalore 6 cm and Minicoy 6 cm on 10th, Kallakurichi and Minicoy 6 cm each on 11th and Hassan 9 cm on 12th.

A low pressure area formed in the southwest Bay of Bengal on the 13th and intensified into a deep depression on the 15th morning with its centre about 200 kms east of Cuddalore. Moving in a northwesterly direction, it further intensified into a cyclonic storm by the same evening with its centre about 100 kms northeast of Cuddalore. Later it moved westsouthwest-wards and crossed the Coromandal coast near Cuddalore in the early hours of 16th. It weakened into a deep depression and emerged into the Arabian Sea near Mangalore on the 18th. Thereafter, it moved in a northwesterly direction and weakened into a low pressure area over west central Arabian Sea by 23rd. Under its influence, the southwest monsoon advanced into south Kerala on 17th and extended steadily northwards along the west coast. By 20th, it had advanced into the south Konkan as a feeble current. Some of the noteworthy amounts of rainfall during this period were : Alleppey 10 cm on 14th, Ootacamund 14 cm on 17th, Honavar 13 cm, Mangalore 10 cm and Cochin 9 cm on 18th and Calicut 11 cm and Mangalore 9 cm on 19th.

The seasonal thunderstorm activity was moderate in Assam throughout the month and in the other parts of northeast India on some days. The rainfall, however, increased in the last week of the month when the monsoon extended into Assam.

The monsoon advanced into the south Bay of Bengal by 19th and into the central Bay by 22nd. Kondul recorded 8 cm of rain on 19th, Mayabandar 8 cm on 22nd and Car Nicobar 8 cm on 23rd and 7 cm on 24th. The further advance of the monsoon northward took place under the influence of a depression.

A low pressure area from the east moved into the north Andaman Sea on 22nd. It gradually intensified into a depression with centre about 300 kms southwest of Sandoway on the morning of 24th. Moving northnortheastwards, it crossed the Burma coast near Akyab by mid-day on 25th. Thereafter, it weakened rapidly. In its wake, the monsoon advanced into the north Bay by 25th and into Assam by 27th. A few of the noteworthy amounts of rainfall were: Kondul 9 cm, Car Nicobar 9 cm and Nan Cowrie 7 cm on 25th, Dibrugarh 16 cm on 27th and Cherrapunji 12 cm and Amini Devi 10 cm on 28th.

A depression formed in the central Arabian Sea with centre near Lat. 17°N and Long. 64°E on 28th. It moved westnorth westwards and crossed into Arabia on 31st. Associated with this depression a trough extended southeastwards upto the Laccadives and under its influence the monsoon extended further northwards along the west coast upto Surat and caused heavy to very heavy rain along the west coast during the last week of the month. Some of the very heavy amounts of rainfall were : Mangalore 15 cm and Calicut 11 cm on 25th, Karwar 18 cm, Honavar 13 cm, Goa 10 cm and Mangalore 9 cm on 26th and Devgad 16 cm, Vengurla 11 cm and Karwar 9 cm on 28th.

Northwest India also experienced spells of thundershowers during the first three weeks of the month, when six western disturbances moved across the country. The western disturbance which was lying over the Punjab(I) on 30th April moved eastwards on 2nd May across Western Himalayas, where it caused a marked spell of thundershowers. Another spell of thundershowers was caused by a fresh western disturbance which followed immediately. The next four disturbances

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1—13 DDG. Obs. (P)/66

moved across north India causing scattered thundershowers in parts of northwest India till 20th. The details regarding movement and activity of the various western disturbances are given in the accompanying table.

Statement showing the movement and activity of western disturbances during May 1962

S. No.	Period	Course	Area affected	Nature of precipitation	Period	Remarks
1.	30th April 2nd May	Western Himalayas	Punjab(I) Himachal Pradesh West Uttar Pradesh	Scattered showers Fairly widespread showers scattered showers	1st and 2nd 1st 1st	
2.	2nd–5th	Sind-Rajasthan-Punjab(I)	Rajasthan Jammu and Kashmir West Uttar Pradesh	Scattered dust/thunder-storm Local showers Scattered dust/thunder-storm	3rd 4th 4th	
3.	6th–9th	West Pakistan-North Rajasthan–Punjabs–Nepal Himalayas	Northwest India and Uttar Pradesh	Scattered showers	7th–9th	Disturbance as upper air trough.
4.	9th–12th	West Pakistan–Rajasthan-west Uttar Pradesh-Nepal Himalayas	Northwest India West Uttar Pradesh	Scattered showers Scattered showers	10th 12th–14th	Do.
5.	12th–14th	North Baluchistan Sind-Western Himalayas	Western Himalayas	Scattered showers	13th–15th	Do.
6.	18th–20th	Punjabs-western Himalays-Nepal Himalayas.	Jammu and Kashmir.	Local/scattered showers	18th, 19th	As a feeble upper air trough.

Day temperatures were generally below normal in the central parts of the country and in the Peninsula throughout the month, being appreciably to markedly so on many days particularly in Andhra Pradesh and the Madras State, where they were as much as 10–13°C below normal during the middle of the month. They were also below normal in northwest India during the first half of the month, being appreciably to markedly so on a few days. The day temperatures were generally above normal over north India during the latter half of the month with spells of appreciably to markedly above normal temperatures in south Rajasthan and Gujarat State during the third week and in Bihar and Uttar Pradesh during the last week.

The total rainfall for the month was in large excess in Maharashtra State, Rayalaseema, the Madras State, coastal and north Interior Mysore, Kerala and the Arabian Sea Islands, in moderate excess in coastal Andhra Pradesh, Telangana and south Interior Mysore and in slight excess in east Madhya Pradesh. It was normal in Assam and Sub-Himalayan West Bengal, in slight defect in the Bay Islands and West Madhya Pradesh, in moderate defect in Gangetic West Bengal, Bihar Plateau and West Rajasthan and in large defect over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was below normal in Sub-Himalayan West Bengal, Jammu and Kashmir, Vidarbha, Andhra Pradesh, the Madras State and the Interior Mysore State and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was below normal in east Rajasthan and Kerala and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in east Madhya Pradesh, Saurashtra and Kutch, Vidarbha, Telangana, Rayalaseema and south Interior Mysore and below normal in east Rajasthan and Gujarat Region. It was normal over the rest of the country outsides Himachal Pradesh.

The cloud amount in the morning was normal in Assam, Gangetic West Bengal, Orissa, Bihar Plains, Uttar Pradesh, the Punjab(I), Jammu and Kashmir, Gujarat Region, the Konkan, coastal Andhra Pradesh, coastal Mysore and Kerala. It was in excess over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,
The 16th February 1963.

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

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—MAY, 1962 (VAISAKHA 11—JYAISTHA 10, 1884 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	292·5	94	29·8	21.6	80	72	5·3	4·4
	−18·1		−0·7	−0·5	+1		+0·4	
2. West Bengal	139·2	91	34·9	25·0	73	63	3·6	3·6
	−13·7		−0·7	−0·3	+1		−0·3	
3. Orissa	34·3	48	36·5	26·6	66	60	3·5	4·4
	−37·5		−0·6	+0·2	0		+0·1	
4. Bihar	29·7	58	38·3	25·1	56	39	2·7	3·0
	−21.7		+0·3	0	+1		+0·3	
5. Uttar Pradesh	4·2	24	41·0	25.0	41	22	1·2	1·5
	−13.0		+0·7	−0·5	+1		−0·1	
6. Punjab (India) (Including Himachal Pradesh & Delhi).*	1·9	14	39·6	23·5	35	22	1·4	2·2
	−11·3		−0·2	−0·5	+2		+0·1	
7. Jammu and Kashmir	11·1	29	25·7	13·3	47	44	3·3	5·7
	−26·7		−1·1	+0·3	−3		+0·1	
Sub-division								
1. Bay Islands.	305·5	79	30·9	24·8	81	87	7·3	7·5
	−78·8		+0·5	+0·9	+3		+1·7	
2. Assam (Including Manipur, Tripura).	292·5	94	29·8	21·6	80	72	5·3	4·4
	−18·1		−0·7	−0·5	+1		+0·4	
3. Sub-Himalayan West Bengal.	301·3	110	31·4	22·6	79	69	5.4	3·8
	+27·2		−1·6	−0·6	+4		+1·2	
4. Gangetic, West Bengal.	80·3	74	35·9	25·7	71	61	3·2	3·6
	−28·6		−0·4	−0·2	0		−0·7	
5. Orissa	34·3	48	36·5	26·6	66	60	3·5	4·4
	−37·5		−0·6	+0·2	0		+0·1	
6. Bihar Plateau	42.9	72	38·8	25·5	50	33	3·0	4·3
	−16·9		+0·1	+0·2	−2		+0·7	
7. Bihar Plains	21·7	47	37·8	24·8	62	45	2·5	1·7
	−24·5		+0·5	−0·2	+3		−0·1	
8. Uttar Pradesh (East).	5·1	29	41·2	25·4	44	23	1·2	1·2
	−12·7		+0·6	−0·5	+1		−0·1	
9. Uttar Pradesh (West).	2·9	18	40·8	24·5	38	20	1·3	2·0
	−13·4		+0·8	−0·4	+1		0	
10. Punjab (India) (Including Delhi)	1·9	14	39·6	23·5	35	22	1·4	2·2
	−11·3		−0·2	−0·5	+2		+0·1	
11. Himachal Pradesh	16·1		35·3	17·5	48	24	1·8	3·0
	..		..	..	..		..	
12. Jammu and Kashmir	11·1	29	25·7	13·3	47	44	3·3	5·7
	−26·7		−1·1	+0·3	−3		+0·1	
13. Rajasthan (West)	6·5	52	42·0	25·8	34	13	1·1	1·7
	−6·0		+0·7	−0·3	−1		+0·4	
14. Rajasthan (East)	2·4	17	41·1	25·7	31	17	1·2	2·6
	−11·5		+0·5	−1·1	−7		+0·4	

	Rainfall (millimetre)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cl
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.ST.
1	2	3	4	5	6	7	8
Division—*contd.*							
8. Rajasthan	4·3	32	41·4	25·7	32	16	1.2
	−9·1		+0·6	−0·8	−5		+0·4
9. Madhya Pradesh	16·2	102	40·6	25·7	41	25	2·3
	+0·3		−0·1	−0·3	+5		+0·6
10. Gujarat State	1·3	21	38·4	26·5	70	47	2·5
	−4·9		+0·7	+0·6	+2		+0·5
11. Maharashtra State	60.9	225	37.8	25.5	58	39	3.7
	+33.8		−0.4	−0·4	+3		+0.8
12. Andhra Pradesh	51.9	136	37·9	26·9	65	47	4·1
	+13·7		−1·5	−0·7	+6		+0·5
13. Madras State	88·3	159	35·0	25·7	71	63	5·2
	+32·8		−1.5	−0·6	+4		+1·8
14. Mysore	181·6	211	33·7	23·2	75	54	4·9
	+95·5		−1·1	0	+4		+1·4
15. Kerala	533·3	189	31·1	24·3	85	79	6·0
	+250·9		−0·6	−1·3	+4		+0·6
Sub-division—*contd.*							
15. Madhya Pradesh (West).	10·8	89	40·8	25·7	39	21	2·0
	−1·3		+0·1	−0·3	+3		+0·6
16. Madhya Pradesh (East).	23·0	111	40·3	25·8	44	29	2·7
	+2·3		−0·4	−0·4	+8		+0·5
17. Gujarat Region	2·4	26	40·4	26·9	60	29	2·3
	−7·0		+0·9	+0·6	−6		+0·3
18. Saurashtra and Kutch.	0·7	16	37·2	26·3	76	57	2·6
	−3·7		+0·6	+0·5	+7		+0·6
19. Konkan	103·1	301	32·5	26·3	77	73	4·7
	+68·9		+0·3	−0·1	+2		+0·7
20. Madhya Maharashtra	61·0	183	38·8	23·8	58	34	3·2
	+27·7		−0·2	0	+1		+0·6
21. Marathwada	46·0	234	39.9	24·5	45	25	3·9
	+26.3		−0.9	−0.9	+1		+1.7
22. Vidarbha	22·4	160	40·7	27·0	46	24	3·3
	+8·4		−1·1	−0·9	+7		+0·9
23. Coastal Andhra Pradesh.	56·7	126	37·0	27·3	69	60	4·3
	+11·7		−1·2	−0·4	+2		+0·2
24. Telangana	36·4	134	39·0	26·7	58	33	3·9
	+9·3		−1.8	−1·0	+9		+0·8
25. Rayalaseema	66·8	163	38·0	26·5	66	42	4·1
	+25·7		−1·8	−0·7	+9		+0·8
26. Madras State	88·3	159	35·0	25·7	71	63	5·2
	+32·8		−1·5	−0·6	+4		+1·8
27. Coastal Mysore	492·0	384	31·9	26·0	80	75	5·7
	+364·0		−0·4	−0·2	+3		+0·6
28. Interior Mysore (North).	65·7	168	36·8	23·6	66	41	4·8
	+26·5		−1·3	−0·1	+3		+2·2
29. Interior Mysore (South).	131·4	129	32·3	21·7	79	54	4·7
	+29·8		−1·2	+0·1	+6		+1·1
30. Kerala	533·3	189	31·1	24·3	85	79	6·0
	+250·9		−0·6	−1·3	+4		+0·6
31. Arabian Sea Islands.	331·2	228	31·4	26·0	78	76	6·9
	+185·8		−0·7	−0·7	+3		+2·5

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

* Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	31·9	..	33·9	1	24·5	..	22·8	23	214.7	302·2	..	81·0	22	15	..	11·5	7·3	..	0	18	0	0	9	0	0	0	0	0	0
Long Island	31·6	..	33·6	1	24·7	..	21·6	2	92·2	259·4	..	61·7	22	11	..	5·0	2·4	..	1	14	0	0	15	0	0	0	0	0	0
Port Blair	30·9	+0·5	32·9	9	24.8	+0·9	22·8	5	125·1	305·5	—78·8	63·0	24	15	—1·3	12·4	9·3	—4·5	1	21	0	0	16	0	0	0	0	1	0
Car Nicobar	30·8	..	32·9	5	24·1	..	21·6	29	90·9	434.3	..	86·2	25	19	..	5.5	3·5	..	0	25	0	0	9	0	0	0	0	0	0
Nancowry	30.8	..	34·4	8	25.5	..	22·8	25	160·9	291·9	..	70·8	25	15	..	4·9	4·2	..	0	20	0	0	8	0	0	0	0	0	0
Kondul	29·6	..	31·3	6,9	24·9	..	22·6	28	197·8	389·3	..	90·2	25	15	..	..	..	..	1	23	0	0	19	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	26·6	..	35·0	25	20·4	..	18·0	9	154.1	601·9	..	98·8	22	23	..	6·6	8·8	..	0	26	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari)	27·5	—1·7	34·3	25	20·6	—0·9	18·4	7	36·7	456·9	+149·8	50·8	9	22	+6·4	8·6	6·0	+1·0	0	25	0	0	12	0	0	0	0	0	0
Dibrugarh (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..											
Digboi (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..											
North Lakhimpur	27·3	—1.3	34·0	26	21·0	—0.7	19·2	2	98·0	547·9	+16.6	57·8	6	22	+2·6	8·2	5·6	..	0	26	0	0	4	0	0	0	0	0	0
Sibsagar	28·7	—0.9	34·3	25	21·5	—0·6	19.5	7	49·0	288·3	—18·0	52·3	30	21	+5·4	8·9	5·2	+1·3	0	23	0	0	6	0	0	0	0	0	0
Gohpur	29·6	..	34·9	26	18·5	..	16·1	15,17, 19	46·6	399·6	..	43·0	18	22	..	9·9	3·0	..	0	22	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	22·1	412·2	..	54·4	30	20	..	5·1	2·4	..	0	20	0	0	2	0	0	0	0	0	0
Jorhat (Aerodrome)	28·8	..	34·1	25	22·1	..	19·9	8	55.7	270.2	..	36·6	30	20	..	..	..	..	0	22	0	0	15	0	0	0	0	0	0
Tangla	30·0	..	36·7	26	20·7	..	15·7	1	15·5	227·4	..	30·5	29	19	..	0·6	0·2	..	0	19	0	0	0	0	0	0	0	0	0
Tezpur	30·0	—0·4	35·0	25	20·0	—2·4	17·8	8	60·4	300·4	+29·9	52·0	2	18	+2·7	5·3	4·8	+0·3	0	23	0	0	6	0	0	0	0	0	0
Golaghat	29·8	..	34·4	25	21.7	..	20·0	5,8,9	(n) 5·0	(d) 171·4	..	..	..	12	..	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Rangia	30·5	..	37·2	27	20·3	..	17·4	3	76·5	325·9	..	69·0	29	16	..	..	3·7	..	0	16	0	0	0	0	0	0	0	0	0
Chaparmukh	33·0	..	37·2	8,9	22·1	..	19·9	2,15,16	39·5	355·5	..	45·1	2	12	..	7·5	4·2	..	0	12	0	0	0	0	0	0	0	0	0
Goalpara	29·9	..	34·8	26	21·0	..	18·8	1	153·6	439·8	..	59·2	31	21	..	5·0	4·4	..	0	23	0	0	0	0	0	0	0	0	0
Gauhati	30·3	—0·6	36·1	26	22·4	0	20·3	3	74·2	199·5	—36·5	24·4	16	18	+4.5	0	0	—3·1	0	24	0	0	4	0	0	0	0	0	0
Gauhati (Bhorjor)	29·9	—1·0	35·0	26	21·7	—0·7	19·0	8	106·4	239·9	+3·9	39·0	16	19	+5·5	7·7	6·0	..	0	25	0	0	18	0	0	0	0	2	0
Dhubri (Rupsi)	30·1	..	34·4	26	21·7	..	18·7	3	55·9	482·3	..	85·0	1	16	..	7·2	6·0	..	0	20	0	0	20	0	0	0	0	0	0
Dhubri	29·5	—0·4	34·2	26	22·4	—0·4	19·3	3	79·2	426·9	+25·8	77·2	1	18	+2·5	7·4	7·7	—1·5	0	20	0	0	15	0	0	0	0	0	0
Lumding	33·0	+0·9	37·1	9	24·5	+2·6	21·8	6	96·0	106·8	—57·5	23·0	19	9	—1·7	6·1	4·0	..	0	12	0	0	1	0	0	0	0	0	0
Tura	29·7	..	33·9	25	18·8	..	13·8	2	80·5	571·2	..	77·4	16	19	..	8·2	1·5	..	0	21	0	0	0	0	0	0	0	0	0
Haflong	27·5	..	30·3	26	19·3	..	16·6	2	53·5	180·0	—129·9	46·5	28	13	—0·9	..	..	..	0	17	0	0	4	1	0	0	0	0	0
Silchar (Kumbhirgram)	31·1	..	35·9	25	21·7	..	18·5	3	83·9	338·1	..	35·6	28	16	..	6·1	6.4	..	2	18	0	0	13	0	0	0	0	1	0
Silchar	30·1	—1·4	34·1	25	22·4	—0·2	19·3	3	103·2	327·0	—90·1	76·2	26	15	—1·4	3·1	1·9	—1·3	0	16	0	0	15	0	0	0	0	0	0
Imphal (Tulihal)	29·1	+0·2	34·1	24	18·5	—0·6	15.0	3	34·0	81·3	—149·4	12·7	25	10	—3·3	8·5	5·2	—2·7	1	15	0	0	10	0	0	0	0	2	0
Kailashahar	32·8	..	35·8	22	22·3	..	18·9	3	153·6	239·8	..	57·0	31	11	..	4·5	2·8	..	0	12	0	0	16	1	0	0	0	3	0
Agartala	32·6	—0·7	35·8	25	22·9	—1·5	18·4	2	109·6	354·5	+37·9	111·2	31	13	+1·9	7·8	9·2	—3·6	0	14	0	0	14	1	0	0	0	7	0
Sub-Himalayan West Bengal																													
Baghdogra	30·1	—1·9	33·8	25,26	21·6	—1·3	18·8	29	43·0	377·4	+124·0	149·8	15	13	+1·9	17·1	14.1	+4·4	0	17	0	0	13	0	0	[illegible]	[illegible]	[illegible]	0
Jalpaiguri	28·7	—3·2	33·2	26	22·0	—0·6	19·1	12	44·6	320·8	+20·6	55.8	15	15	+1·9	13·8	9·8	+5·8	0	19	0	0	16	0	0	0	0	0	0
Cooch Behar	29·9	..	34·5	26	21·7	..	18·9	12	30·7	428·3	+2·3	96·1	31	16	+0·5	9·0	7·1	..	0	21	0	0	26	0	0	0	0	2	0
Balurghat	34·2	..	38·6	22	22·3	..	18·1	3	27·2	141·6	..	49·6	28	6	..	11·4	8·5	..	0	7	0	0	3	0	0	0	0	0	0
Malda	35·5	+0·3	40·0	27	24·3	+0·2	20·0	3	37·0	78·6	—38·2	36·4	31	7	+1·4	10·6	9·3	+0·3	1	9	0	0	14	0	0	0	0	2	0
Gangetic West Bengal																													
Berhampore	37·2	+1·0	42·3	28	23·3	—1·5	18·7	3	78·9	119·0	—16·4	68·1	12	5	—2·3	8·6	6·8	+0·7	0	5	0	0	2	0	0	0	0	0	0
Suri	37.6	..	42·5	23	24·9	..	19·9	12	..	100·4	..	49·2	12	6	..	..	10·7	..	0	10	0	1	7	0	0	0	0	0	0
Asansol	38·3	—0·7	43·7	23	25·7	0	20·7	12	49·9	90·4	+16·0	34·1	12	5	+0·6	10·2	8·5	—0·7	1	7	0	0	11	0	0	0	0	4	0
Shanti Niketan	37·4	..	41·3	23	24·6	..	19·5	5	86·9	184·7	..	91·9	12	7	..	10·2	10·8	..	1	9	0	0	16	0	0	0	0	0	0
Krishnanagar	36·4	+0.5	39·4	24,25,26	24·5	—0·3	18·3	14	45·0	149·4	—21·0	39·0	12	7	—0·9	13.3	10·0	+1·0	0	7	0	0	5	0	0	0	0	0	0
Purulia	39·1	—1·2	44·3	28	26·4	—0·6	21·0	12	35·4	52·8	+12·5	25·2	21	3	—0·5	9·0	7·0	+0·2	0	4	0	0	5	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	(f) 80·8	..	..	..	..	..	..	..	..	1	6	0	0	6	0	0	0	0	0	0
Burdwan	37·5	+0·8	40·1	8	25·5	+0·2	21·1	3	2·6	9·6	—141·8	90·0	27	4	—3·2	(a) 16·4	(a) 13·0	+7·9	0	6	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	35·4	..	38·6	26	25.4	..	16·6	3	0	85·8	..	40·1	3	4	..	..	..	..	0	4	0	0	10	0	0	0	0	4	0
Calcutta (Dum Dum)	34·8	—1·0	38·4	26	25·7	—0·6	17·9	3	0·2	74·7	42·6	45.2	3	5	—0·9	16·1	12·6	—3·9	3	5	0	0	8	0	0	0	0	3	0
Calcutta	34·9	—0·4	39·6	26	25·3	+1·0	19·8	3	0	85·4	—54·1	57·2	3	4	—2.9	14·5	11·5	+3·5	0	5	0	0	10	0	0	0	0	8	0
Midnapore	3 ·5	—0·2	41·7	27,29	25·7	—0·2	21·1	12	18·6	83·7	—36·7	38·0	12	6	—0·9	(c) 11·5	(d) 11.3	+4·4	2	7	0	0	5	0	0	0	0	0	0

(R) Register not received.
(n) Total for 17 days
(a) Mean of 30 days.
(c) Mean of 29 days
(d) Total or Mean of 27 days.
(b) Total for 25 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a)	20(b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*contd.*)																													
Contai	32·3	−1·1	34·4	29	26·5	−0·5	20·9	3	3·0	90·4	−45·1	42·0	3	5	+0·2	23·9	19·5	0	0	7	0	0	0	0	1	0	0	0	0
Sagar Island	31·3	−1·5	33·3	28	27·1	+0·1	19·6	3	4·5	127·8	+13·0	56·0	3	5	−0·5	31·8	32·0	+10·3	0	7	0	0	4	0	0	0	0	2	0
Sandheads	31·6	..	33·1	14	27·8	..	21·6	3	4·0	45·7	−4·3	28·0	3	3	−0·2	..	..	..	0	4	0	0	2	0	0	0	0	0	0
Orissa																													
Baripada	38·0	..	42·6	27	26·1	..	21·6	5	5·8	34·8	..	16·2	22	5	..	5·6	4.9	..	0	7	0	0	12	0	0	0	0	0	0
Jharsuguda	40·8	−1.2	46·2	28	27·4	−0.3	21·1	12	0	24·4	+0·8	6·2	4	5	+3·3	10·0	8·4	−0·4	0	8	0	0	13	0	0	0	0	2	0
Keonjhargarh	37·0	..	42·7	28	24·0	..	17·1	1	45.3	70·0	..	18·7	1	5	..	10.2	7·6	..	0	9	0	0	5	0	0	0	0	0	0
Balasore	35·3	−0·9	42·3	29	26·1	+0·1	21·2	1	11·8	76·8	−40·8	51·6	1	4	−1·9	17·5	14·2	+5.0	1	7	0	0	11	0	0	0	0	0	0
Sambalpur	41·3	−0·1	46·1	28	27·8	+0.5	22·3	12	1·8	4·9	−22.5	3·1	4	1	−1.3	7·5	6·8	+1·5	0	2	0	0	1	0	0	0	0	0	0
Angul	39·6	−0·1	45·9	28	27·0	+0.9	22·2	1	45·8	46·8	−12·9	37·6	6	2	−2·7	10·0	9·0	0	0	4	0	0	3	0	0	0	0	0	0
Cuttack	39·5	+0.9	44·5	27	27·2	+0.6	21·6	1	15·0	15·0	−75.7	15·0	23	1	−4·2	11·2	9·5	+3·4	0	1	0	0	1	0	0	0	0	0	0
Chandbali	36·7	+0.4	42·8	27	26·2	0	21·7	1	6·9	33·3	−108·4	11·2	28	4	−1·4	20·5	16·3	0	0	6	0	0	0	0	0	0	0	0	0
Bolangir	41·3	..	44·9	25	29·2	..	24·4	4	2·8	2·9	..	2·8	17	1	..	10·5	11·2	..	1	1	0	0	2	0	0	0	0	0	0
Phulbani	37·9	..	42·8	28	24·2	..	18·9	7	1·2	23·4	..	8·6	18	3	..	6·0	4·8	..	0	6	0	0	3	0	0	0	0	0	0
Titlagarh	41·7	..	44·5	25,27,28	27·4	..	22·9	29	16·7	28·1	..	16·7	18	3	..	3·2	4·5	..	0	3	0	0	0	0	0	0	0	0	0
Bhubaneswar	37·7	−0·3	43·9	27	27·3	+0·2	21·8	1	2·9	2·9	−57·9	2·5	11	1	−1·4	23·4	19·5	−8.1	0	2	0	0	6	0	0	0	0	0	0
Puri	31·8	−0.2	33·8	27	28·0	+0.7	22·7	1	1·0	7·9	−64.7	2·6	6	2	−1·2	25·9	24.0	+2·6	0	4	0	0	2	0	0	0	0	0	0
Gopalpur	32·6	+0·2	34·8	26	26.9	+0·2	21·1	6	41·1	58·1	+4·0	40·0	6	3	−0·1	33·0	20·2	+0·4	1	4	0	0	11	0	0	0	0	0	1
Koraput	29·3	−4·8	33·3	30	21·9	−0·7	70·2	4,7	14·2	72·3	+2·2	37·4	4	4	−1.5	..	..	..	0	5	0	0	3	0	0	0	0	0	0
Bihar Plateau																													
Dumka	37·7	+0·5	43·3	22	25·4	+0·2	21·3	3	67·7	80·0	−11·7	49·0	15	6	+0·9	12·2	8·2	+3·4	0	8	0	1	9	0	3	0	0	0	0
Daltonganj	39·9	−1·3	46·1	28,29	25·5	−0·4	21·8	20	0	1·4	−13.1	1·4	2	0	−1·3	9·0	5·5	−1·6	0	1	0	0	0	0	0	0	0	0	0
Hazaribagh	37·9	+0·5	42·0	29	24·3	+0·1	19·0	12	34·4	37·2	−12·6	31·4	12	1	−2·4	11.4	9·4	−2·0	0	4	0	0	9	0	0	0	0	1	0
Dhanbad	39·1	..	44·7	29	25.4	..	19.5	12	0	29·2	..	29·2	12	1	..	10.2	8.0	..	0	1	0	0	1	0	0	0	0	0	0
Ranchi	37·1	+0·1	42·3	30	24·3	+0·2	18·7	12	20·8	51·8	−2·1	25·5	1	3	−1·1	9·2	7·5	−0·4	0	3	0	0	5	0	0	0	0	0	0
Ranchi Aerodrome	37·0	..	43·1	30	23·9	..	18·9	12	..	37·5	..	11·4	1	5	..	..	10·9	..	0	7	0	0	9	0	0	0	0	0	0
Jamshedpur	40·7	+1.3	46·1	30	26·9	+0·7	22·2	12	13.2	35·4	−44·1	17·4	12	4	−1.1	9·8 (d)	8·6 (e)	+1·8	0	7	0	0	7	0	3	0	0	1	0
Jamshedpur (P.B.O.)	39·8	..	45·0	28,29	26·6	..	21·9	12	9.6	21·9	..	9·0	6	3	..	10·0	8·9	..	0	7	0	1	12	0	1	0	0	1	0
Chaibasa	39·7	−0·3	45·2	30	26·4	+0·2	21·1	5	6·6	51·8	−17·8	13·6	5	5	−0·2	7·3 (f)	5·6 (h)	+1·4	0	7	0	0	2	0	0	0	0	0	0
Bihar Plains																													
Motihari	34·2	−2·0	39·7	22,27	23·0	−0·7	16·6	3	0	9·7	−57·4	8·5	31	1	−2·8	8·5	6·1	−1·3	0	2	0	0	0	0	0	0	0	0	0
Forbesganj	33.2	..	37·3	9	22·8	..	19·9	15	39·4	192·4	..	41·0	29	11	..	12·5	10·5	..	0	12	0	0	14	0	0	0	0	0	0
Darbhanga	35·9	+0·2	41·9	19	23.5	−0·7	18·9	3	0	47·0	−16·7	22·0	2	4	+0.5	11.9	12.1	+5.0	0	4	0	0	2	0	1	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	34·9	−15·4	23·1	2	2	−1·1	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Chapra	39·5	..	43·5	23	25·5	..	21·0	3	0	3·6	−29·4	3·6	12	1	−0·8	11.0	8·3	..	0	1	0	0	0	0	0	0	0	0	0
Purnea	34.6	−0·3	40·0	23	23·3	−0.3	16·1	2	43·6	73·8	−32.4	32·6	2	5	−0·5	9·7	8·1	+2·6	0	6	0	0	5	0	0	0	0	0	0
Patna	39·6	+1·7	43·3	27,29	26·0	+0·4	21·4	3	1·0	2·0	−33·6	2·0	12	0	−2·3	7·5	7·7	−0·5	0	1	0	0	2	0	3	0	0	0	0
Patna Aerodrome	39·4	..	43·7	23	25·7	..	21·2	3	0·3	0·8	..	0·4	12, 20	0	..	10·2	9·1	..	0	2	0	0	2	0	2	0	0	1	0
Arrah	..	..	..	..	..	..	..	..	..	21·4	−9.8	21·4	20	1	−0.8	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Bhagalpur	37·7	−0·6	42·3	22	24·8	−1·0	19.8	3	0	22·6	−25·5	16·8	12	2	−0·9	10·9	10·1	0	0	3	0	0	7	0	3	0	0	0	0
Sabaur	37·6	+0.8	41.7	22	24·9	+0·6	20·0	3	0	10·4	−44·2	5·0	12	2	−1·6	11·2	10.2	−0.9	0	3	0	0	9	0	0	0	0	2	0
Jamui	40·2	..	44·3	27	26·6	..	22·0	3	5·5	7·0	..	5·5	11	1	..	8·7	4·4	..	0	2	0	0	1	0	0	0	0	0	0
Dehri	41·8	..	46·1	28	26·7	..	23·7	12	0	0	−16·0	0	..	0	−1·2	9·7	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	41·6	+1·3	46·5	28	26·3	−0·3	23·2	9	0	1·1	−22·5	1·1	5	0	−1·7	13·1	10.9	+1·2	0	1	0	0	7	0	0	0	0	3	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich	40·7	+1.6	44·0	27,29	25·7	+0·6	21·7	5	0	5·2	−25·5	3·0	8	1	−1·1	10·5	8·8	+3·2	0	2	0	0	0	0	0	0	0	0	0
Nautanwa	39·7	..	46·7	19	..	..	..	..	0	10·2	..	7·8	25	1	..	12·4	8·7	..	0	2	0	0	0	0	0	0	0	0	0
Hardoi	41·0	−0.1	44·5	29	24·7	−0.6	20·5	11	7·2	9·0	+0·2	7·2	20	2	+1.4	10·4	7·0	−0·8	0	2	0	0	2	0	1	0	0	0	0
Gonda	40·7	+1·4	44·5	27	25·9	+0·5	22·2	5	0	0·2	−26·0	0·2	7	0	−1·9	8·6	7·7	−0·5	1	0	0	0	1	0	0	0	0	0	0
Lucknow	40·2	−0.6	44.2	29	24·9	−0.8	22·6	1	0	13·0	−6.6	13·0	20	1	−0·3	4.8	3·5	−0·5	0	1	0	0	5	2	3	0	0	0	0
Lucknow (Amausi)	41·0	+0.5	45·0	27,29	23·7	−1.1	20·6	9	7·8	7·8	−11.8	6·8	20	1	−0.3	12·7	9·8	..	0	2	0	0	4	4	0	0	0	7	0
Faizabad	39·3	..	43·2	27	25·2	..	21·8	17	0	0·8	..	0·8	7	0	..	6·0	4·0	..	0	1	0	0	4	0	1	0	0	0	0
Gorakhpur	40·6	+2·2	49·4	15	24·6	−0·3	21·7	2,12	0	0	−35·1	0	..	0	−2·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kanpur	41·7	+0·5	45·9	29	25·9	−1·0	22·5	8	0	0	−8·1	0	..	0	−1·0	17·0	10·8	−1·9	0	0	0	0	1	0	6	0	0	0	0
Kanpur (Aerodrome)	42.0	..	46·6	29	26·3	..	22·8	8	0	0	..	0	..	0	..	..	15·7	..	0	0	0	0	4	0	6	0	0	0	0
Sultanpur	41·8	..	45·6	28,29	26·1	..	23·3	18	0	0	..	0	..	0	..	6·7	5·5	..	0	0	0	0	5	0	2	0	0	0	0
Azamgarh	41·1	..	45·4	27	23·5	..	20·3	17	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	42·2	+0·4	46·0	27	25·4	−1.5	21·1	22	0	0·6	−3·0	0·6	20	0	−0·6	10·1	6·5	+0·1	0	1	0	0	3	0	0	0	0	0	0
Ballia	41·1	..	45·0	30	24·8	..	22.0	13	0	0·6	..	0·6	12	0	..	2·8	2·6	..	0	1	0	0	0	0	0	0	0	0	0

(d) Mean of 27 days. (R) Register not received (e) Mean of 26 days.
(f) Mean of 25 days. (h) Mean of 23 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0.3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—*contd.*																												
Banda	43·4	..	47·2	28	26·9	..	22·4	12	7.4	7·5	..	7·4	21	1	..	6·4	3·7	..	1	1	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli).	42·2	+0·5	46·5	29	26.7	+0·1	23·8	6	0	3·6	+2·4	2·0	6	0	−1·2	8·8	5·4	−2·2	0	2	0	0	2	0	2	0	0	2
Varanasi(Babatpur)	41·5	−0·1	45·6	29	25·7	−1·4	22·6	18	0	0·2	−8·0	0·2	19	0	−0·4	16·0	11·3	−1·4	1	0	0	0	5	0	1	0	0	0
Varanasi	40·9	+0·1	44·8	29	25·9	−0·3	22·9	18	0	16·8	−3·3	9·8	7	2	+0·9	8·2	5.9	−0·4	0	3	0	1	0	0	0	0	0	0
Uttar Pradesh (West)																												
Mukhim . (R)																												
Tehri . (R)																												
Dehra Dun	36·1	+0·5	41·3	29	20·1	−1·1	14·9	4	0	9·1	−27·7	4·5	8	2	−1·0	6·2	5·0	+1·3	0	3	0	1	4	0	1	0	0	0
Mansiari. (R)																												
Roorkee	39·8	+0·8	44·6	31	22·7	−0·6	19·1	5	4·6	5·6	−13·7	4.6	8	1	−0·7	9·9	6 6	+1·5	0	2	0	0	3	0	0	0	0	0
Najibabad	39·6	..	43·9	29,31	22.2	..	18.2	5	0	2.8	..	2.8	31	1	..	6·2	4·1	..	0	1	0	0	5	0	0	0	0	0
Meerut	40·6	+1·1	45·6	28,31	23·1	−1·1	19.9	14,16, 19	..	0	−15·2	0	..	0	−1·5	..	6·0	..	0	0	0	0	0	0	0	0	0	0
Bareilly	40·9	+1·4	44·8	29	25 0	−0·1	20·6	8	0·3	0·3	−16·5	0·2	8	0	−1·5	10·5	7·5	+2·8	2	0	0	0	2	0	2	0	0	0
Aligarh	41·5	+0·8	45·6	29	25·0	−1·3	20·4	8	0	2·0	−8·4	2·0	31	0	−1·2	18·5	15.4	+7·0	0	1	0	0	2	0	0	0	0	0
Mainpuri	42·3	+0·4	46·7	29	26·0	+0.3	21.1	8	6·6	6.6	−6·3	4·2	28	1	−0.2	2·1	1·3	−3·0	0	2	0	0	0	0	5	0	0	0
Agra	41·8	+0·6	46·5	29	26·0	+0·3	21·9	12	0	0	−9·7	0	..	0	−1·1	8·5	5·6	−1·6	0	0	0	0	0	0	6	0	0	0
Agra Aerodrome	42·4	..	46·8	29	24·9	..	20·0	3	0·8	0·8	..	0.8	25	0	..	..	17·5	..	0	1	0	0	7	0	8	0	0	0
Orai . (R)																												
Jhansi	43·3	+0·8	47·0	29	28·5	+0·4	24·0	8	0	0	−9·4	0	..	0	−1·0	5·3	3·9	−3·0	0	0	0	0	1	0	0	0	0	0
Punjab (India) (Including Delhi)																												
Pathankot	38·7	−0·3	44·9	30	21·9	−1.3	17·4	5	7·5	2.3	−14.8	0·9	13	0	−1·4	12·0	11·4	−0.4	0	4	0	0	7	0	4	0	0	0
Amritsar (Rajasansi)	38·5	−0·9	44·4	30	20·5	−1·3	17·1	2	7·6	4·5	−5·0	4.5	10	1	−0·2	11·8	10·2	−1·3	0	1	0	0	4	2	8	0	0	8
Adampur Aerodrome	38·2	..	44·8	29	19·6	..	16·1	5	2·8	4·6	..	4·1	8	1	..	..	18·6	..	0	2	0	0	6	0	5	0	1	0
Ludhiana	41·0	+0·9	46·7	28	22·6	−1·7	17·9	5	0	0	−13·5	0	..	0	−1·5	9·3	5·2	+1·7	0	0	0	0	4	0	2	0	0	0
Ferozepur	39.0	..	45·1	27	21·3	..	17·8	8	0	6·2	..	6·2	10	1	..	6·1	3·8	..	0	1	0	0	2	0	3	0	0	0
Halwara (Aerodrome)	39·7	..	45·0	28	21·6	..	16·9	5	0	0	..	0	..	0	..	.	18·2	..	0	0	0	0	3	0	4	0	0	0
Chandigarh	39·1	+0·8	44·6	30	25.2	+1.6	16.9	11	2.2	2.2	−10.9	2.2	7	0	−1·4	(a) 7·6	(b) 6·8	..	0	1	0	0	0	0	2	0	0	0
Ambala	39·9	0	45·1	28	24·7	+0·4	20·0	4	2·4	2·4	−16·1	2·4	4	0	−1·5	6·2	4·8	−1·2	0	1	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	39·6	..	45·2	28	22·9	..	17·9	4	0	1.6	..	1.6	11	0	..	..	..	..	0	1	0	0	4	0	2	0	0	0
Patiala	39·9	..	45·1	27,28, 29	23·6	..	19·8	8	2·4	2·4	−3.9	2·4	4	0	−0·8	12·9	9·8	..	0	1	0	0	3	0	2	0	0	0
Bhatinda	40·4	..	46·1	28	23·1	..	18·1	11	0	1·0	..	1·0	13	0	..	6·6	4·1	..	0	1	0	0	0	0	3	0	0	0
Karnal	39.4	..	46.0	29	22·1	..	17·0	5	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Hissar	40.3	−0·4	45.1	29	23.6	−0.8	17.5	11	0	0·5	−13.2	0·4	14	0	−1.4	10·0	9·8	+1.8	1	1	0	0	5	0	4	0	0	0
New Delhi (Safdarjung)	39·9	−1.3	44·5	29	26·0	−0.7	20·8	11	0	0·5	−12.7	0.5	7	0	−1·6	19·8	14·0	+0·3	0	1	0	0	5	0	3	0	0	7
Palam (Aerodrome)	40·8	..	46·2	28	24·5	..	19·5	11	0	0	..	0	..	0	..	..	..	..	0	0	0	0	7	3	5	0	0	0
Himachal Pradesh																												
Mandi	35·3	+0·5	41·4	30	17·5	+0·2	13.8	4	0·3	16·1	−29·6	9.2	9	2	−1·7	3·4	3·3	−0·5	0	4	0	0	2	0	1	0	0	0
Bilaspur	37·2	..	43·9	31	17·6	..	13·8	4	3·0	6·8	..	3·8	1	2	..	..	..	..	0	2	0	0	6	0	1	0	0	0
Jammu and Kashmir																												
Misgar . (R)																												
Gilgit . (R)																												
Skardu . (R)																												
Dras	..	..	..	..	..	..	..	..	..	1·8	−59·7	1·0	31	0	−5·4	..	..	..	2	2	..	..	..	..	..	..	..	..
Sonamarg																												
Leh	15·3	−2·3	18·5	24	3·1	+0.3	0·3	11	0·9	4.4	−1·2	2·7	10	1	+0·3	9·5	8·9	+4·4	0	5	4	1	1	0	0	0	0	1
Srinagar	23·1	−1.9	31·1	29	10·5	0	7·9	7	15·5	33.4	−27·1	13.0	10	5	−0·4	6.6	5·5	−1.0	0	10	0	0	4	0	0	0	0	0
Srinagar (Aerodrome)	(I) 21.0	..	..	..	10.4	..	7·4	20	14.5	29.3	..	9·4	10	4	..	..	(I) 11·4	..	0	8	0	0	7	0	1	0	0	4
Gulmarg	Closed During Winter Months																											
Bonihal	25·1	..	31.3	29	11·5	..	8·5	4	13·2	29·5	..	7·9	10	4	..	..	..	..	0	11	0	0	17	0	0	0	0	0
Jammu	38·7	+1·0	44·8	27,28	26·2	+0·5	19·1	4	4·7	4.7	−18·9	4·7	31	1	−1·2	..	7·3	..	0	1	0	1	1	0	2	0	0	0
Jammu(Aerodrome)	38·2	..	44·4	30	23.3	..	16·7	4	10.7	10.7	..	94	31	1	..	..	..	..	0	2	0	0	6	0	2	0	0	0
Rajasthan (West)																												
Ganganagar	41·3	+0.3	46·6	28,29	24·0	−0.4	20·8	8	0·2	0.2	−15.6	0·2	10	0	−1·7	8·3	5·2	−0.5	1	0	0	0	6	0	2	0	0	0
Anupgargh (R)																												
Mahajan	42·6	..	47·8	29	..	..	..	..	0	0	..	0	..	0	..	9·0	6.1	..	0	0	0	0	0	0	4	0	0	0
Churu	41·4	..	46·6	29	25·1	..	19·9	8	7·8	14.9	..	4.8	3	3	..	16·8	12·1	..	0	5	0	0	6	0	2	0	0	0
Bikaner	42·2	+0·1	47·0	29	25·8	−1·8	21·2	3	0·8	13·4	−1·6	10·6	3	1	−0·3	10·6	8·4	−1·7	0	3	0	0	8	0	0	0	0	0

(a) Mean of 30 days. *Data not available. (R) Register not received. (b) Mean of 29 days. (I) Mean of 18 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (West)—contd.																													
Nagaur	40·3	..	44·7	29	26·7	..	20·9	8	1·6	1·6	..	1·0	10	0	..	16·4	13·2	..	1	2	0	0	4	0	4	0	0	0	0
Phalodi	42·6	..	46·1	23	27·0	..	20·6	7	1·0	11·8	+2·9	8·0	5	2	+1·2	21·1	17.5	..	0	2	0	0	0	0	1	0	0	0	0
Jaisalmer	42·2	..	47.6	22	26·3	..	22·2	7	0	0·2	..	0·2	3	0	..	17·4	15·2	..	1	0	0	0	0	0	0	0	0	0	0
Jodhpur	42·6	+1·8	46·6	22	27·6	−1·3	23·4	5	0	0·8	9·6	0·8	9	0	−1·1	15·7	13·1	−4·1	0	1	0	0	3	1	2	0	0	0	0
Barmer (R)																													
Munabao	(c) 43.5	..	..	..	(j) 24·1	..	..	..	0	0	..	0	..	0	..	(k) 18.7	(c) 15.0	..	0	0	0	0	0	5	0	0	0	0	0
Rajasthan (East)																													
Pilani	40.9	..	46·1	29	46·6	..	19.0	11	4·6	5·8	..	2·7	10	1	..	19·8	14·6	..	0	4	0	0	0	0	0	0	0	0	0
Sikar	39.7	..	43·7	29	23·7	..	17·2	11	2·0	2·0	..	2·0	10	0	..	18·7	10·3	..	0	1	0	0	0	0	0	0	0	0	0
Alwar	40·7	..	45·6	29	26·3	..	20·0	8	3·2	41·1	..	23·1	3	2	..	6·3	5·1	..	0	4	0	1	6	0	2	0	0	0	0
Jaipur (Sanganer)	40·7	0	44.7	29	25·2	+0.3	19·6	6,8	7·7	8·0	−6·3	5·0	15	1	−0·6	..	..	..	1	4	0	0	6	0	8	0	0	3	0
Dholpur	42·5	..	46·8	29	24·1	..	19·8	8	0	2·2	..	1·1	6,8	0	..	10·6	7·5	..	0	2	0	0	5	0	2	0	0	0	0
Ajmer	40·5	+1·1	43·9	21,22	26·2	−0.6	19·4	11	2·0	2·0	−14·3	1·2	10	0	−1·5	16·5	13.4	+2·9	0	2	0	0	3	0	0	0	0	0	0
Tonk	42·2	..	45·3	23	26·0	..	19·2	8	11.4	14·9	..	7·8	8	3	..	14·6	10·4	..	0	3	0	0	0	0	0	0	0	0	0
Bhilwara	40·7	..	43·3	24	26·0	..	20·2	11	0	1·2	..	1·2	11	0	..	7·9	5·7	..	0	1	0	0	0	1	2	0	0	0	0
Kota (Aerodrome)	42·8	..	45·6	29	28·7	..	23·1	8	0	0	..	0	..	0	..	17·3	13·5	..	0	0	0	0	3	0	1	0	0	0	0
Kota	42·7	+0·7	45·9	4 days	25.2	−4·0	21·0	6	1·6	1·6	−10·3	1·6	8	0	−1·0	11·6	7·9	+1·3	0	1	0	0	2	0	1	0	0	0	0
Erinpura (Jawai Dam)	40·9	..	45·0	21	26.9	..	23·0	5	0	0	..	0	..	0	..	10.0	7·8	..	0	0	0	0	0	0	0	0	0	0	0
Chambal Rawat Bhata (Dam)	41·8	..	44.5	29	27·6	..	23·3	8	0	0	..	0	..	0	..	14·4	9·8	..	0	0	0	0	1	0	1	0	0	0	0
Udaipur	39·2	0	42·2	28	24·6	−1·4	19·4	11	0	0	−18·3	0	..	0	−1·5	6·6	4·5	..	0	0	0	0	2	0	0	0	0	0	0
Jhalawar	42·2	+0·5	45·1	19	27.2	+0.3	22·6	5	0·4	0·4	−8·5	0·4	10	0	−0·9	10·5	9·3	+0·9	0	1	0	0	3	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	42·3	−0·8	46·5	28,29	26·7	−1·9	21·6	6	0	0·9	−6·0	0·7	6	0	−0·9	11·7	7·8	..	1	1	0	0	8	0	0	0	0	1	0
Sheopur	42·4	0	45·9	29	26·1	−0·7	19·6	8	1·8	1·8	−8·2	1·8	8	0	−0·6	13·2	9·5	0	0	1	0	0	1	0	2	0	0	0	0
Shivpuri	40·7	..	44·2	29	24·7	..	19·0	8	0	0	..	0	..	0	..	14·2	8·7	..	0	0	0	1	0	0	2	0	0	0	0
Nowgong	42·4	+0·5	46·1	28,29	24·6	−1·7	19·4	12	8·4	8·4	−1·0	6·4	21	1	0	9·4	6·0	+1·5	0	2	0	0	5	0	0	0	0	0	0
Guna	41·8	+0·5	44·9	29	25·4	+0·1	20·3	12	1·2	1·2	−12·5	1·2	6	0	−1·2	16·7	11·7	..	0	1	0	0	3	0	0	0	0	0	0
Nimach	40·4	+0·7	43·0	19	25·9	+0·7	20·1	11	2.2	2·2	−12·8	2·2	11	0	−1·2	15·8	12·9	−0·5	0	1	0	0	2	0	0	0	0	0	0
Rajgarh	42·7	..	45·0	23	27·1	..	20·6	7	0	0	..	0	..	0	..	14·3	12·5	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	40·5	+0·1	43·5	28	25·9	−0·1	21·3	12	0	3·0	−7·7	3·0	20	1	−0·1	12·2	9·8	..	0	1	0	1	8	0	0	0	0	0	0
Ratlam	40·2	+0·6	43·5	21	25·0	−0·9	20·4	11	13·0	15.6	+5·0	15·6	11	1	+0·1	14·3	10·8	−0·3	0	1	0	0	1	0	0	0	0	0	0
Bhopal (Bairagarh)	40·7	+0·3	42·9	27	24·8	−1·3	20·6	8	2·5	14·1	−0·4	7·4	19	2	+0·8	17·0	13·7	0	0	4	0	0	7	0	0	0	0	3	0
Ujjain	40·3	..	43·2	19	25·0	..	20·0	12	..	0	..	0	..	0	..	..	13·6	..	0	0	0	0	0	0	0	0	0	0	0
Narsinghpur	42·4	..	45·0	4 days	..	..	..	..	0	13·1	..	6·6	30	3	..	9·0	5.7	..	0	3	0	0	0	0	0	0	0	0	0
Hoshangabad	41·7	+0·1	44·3	28	27·2	0	23·2	13	4·2	12·0	−0·5	7·0	30	2	+0·8	9·5	6·8	+1.7	0	3	0	0	4	0	0	0	0	0	0
Indore	40·1	0	42·4	19,20	25·1	+0.9	19·6	11	0	0	−12·9	0	..	0	−1·3	20.1	19·3	..	0	0	0	0	3	0	0	0	0	1	0
Raipur (Jhabua)	40·1	..	43·6	17	25·1	..	21·6	11	0	0	..	0	..	0	..	15·4	13·2	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	38·9	−0·4	42·1	28	25·1	−0·4	21·0	11	39·1	43·3	+28·1	33·3	11	2	+0·8	8·4	4·8	−2·9	0	7	0	0	5	0	0	0	0	0	0
Seoni	39·7	−0·1	43·4	28	25·1	+0·5	20·7	1	12·0	43·4	+24·1	26·4	19	2	+0·3	10·4	7·3	+1·2	0	4	0	0	9	0	0	0	0	0	0
Betul	39.0	−0·1	41·5	16	24·4	−0·3	20·5	12	3·2	5·3	−5·0	3·2	21	1	0	10·4	6·8	−0·3	0	4	0	0	7	0	1	0	0	0	0
Khandwa	41·7	+0.1	44·6	19	27·9	+0·6	22·3	13	0	0	−7·9	0	..	0	−0·7	15·2	12·7	−0·2	0	0	0	0	1	0	2	0	0	0	0
Madhya Pradesh (East)																													
Satna	42·5	+1·5	46·6	28	26·6	0	22.3	12	0	5·0	−6·9	4·0	3	1	−0·3	11.0	7·7	+0·5	0	2	0	0	3	0	0	0	0	0	0
Sidhi	42·3	..	45·9	28	26·3	..	22·0	1	0	0	..	0	..	0	..	12·1	7·4	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	41·3	+0·5	44·7	28	26·0	+0·1	21·5	12	0	1.1	−9·8	1·1	21	0	−0·7	10·5	7·0	+1·4	0	1	0	0	4	0	3	0	0	0	0
Jabalpur	41·3	+0·5	44·6	27	26·0	+0·8	21·8	12	8·0	9.3	+4·6	4·6	21	2	+0·6	10·6	6·8	+2·0	0	5	0	0	5	0	0	0	0	0	0
Ambikapur	39·3	−0·3	43·0	28,30	24·6	−0·2	21·1	7	7·8	7·8	−7·0	7.8	5	1	−0·5	12.6	10·1	+0·4	0	1	0	0	6	0	1	0	0	0	0
Pendra	38·4	+0·5	42·4	28	25·3	+0·1	21·4	13	28·6	30·9	+9·6	20·6	16	3	+0·9	13.5	10.1	..	0	8	0	0	14	0	0	0	0	0	0
Mandla	40·4	−0·9	44.6	28	22·6	−1·7	17·6	13	1·6	3·2	−4·5	1·6	16,29	0	−0·9	8.7	4·9	0	0	2	0	0	8	0	0	0	0	0	0
Champa	41·8	−1·1	46.5	28	27·4	−1·3	24·2	12	1·2	12·4	+0·2	7·0	19	2	+0·7	9·9	8·1	+0·5	0	3	0	0	7	0	0	0	0	0	0
Raigarh	41·9	−0·9	46·5	27,28	27·1	−1·8	21.5	8	0	8·4	−5.3	7·0	8	1	−0·7	6.6	5·1	−1·2	0	2	0	0	1	0	0	0	0	0	0
Raipur	40·8	−1.0	44·3	27,28	27·4	−0·4	22·4	6	21·6	56·5	+33·9	22·4	20	6	+3·9	12·5	11.4	0	2	7	0	0	11	0	1	0	0	0	0
Kanker	38·5	−1·7	41.0	27	26·8	+0·5	18.6	6	26·4	76·2	+38·3	41·4	6		+0·3	11.4	10·1	+2·9	0	4	0	0	4	0	0	0	0	0	0
Jagdalpur	37·0	−1·3	41·0	27	24·0	−0·2	17·5	6	16·1	42.6	−17·3	9·3	1	6	+1·2	8·3	5·8	..	0	10	0	1	20	0	0	0	0	4	1
Gujarat Region																													
Deesa	41·8	..	45·6	21	26·8	..	32.2	5	0	0	..	0	..	0	..	12·6	10·2	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	41·8	..	45·2	22	25·2	..	20·6	4	0	0	..	0	..	0	..	11·8	9·8	..	0	0	0	0	0	0	2	0	0	0	0
Idar	41·2	..	44·9	21	26.0	..	22·5	11	·2	3·2	..	3·2	10	1	..	11.9	9·5	..	0	1	0	0	1	0	0	0	0	0	0

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Ahmedabad	42·5	+0·9	46·4	21	27·0	+1·1	23·8	7	0	0	—9·9	0	..	0	—0·7	10·5	8·9	—0·6	0	0	0	0	0	0	1	0	0	0	0
Dohad	40·2	+0·7	43·8	17	25·9	—0·2	21·5	11	0	0	—10·1	0	..	0	—0·4	22·1	23·1	+3·0	0	0	0	0	2	0	0	0	0	0	0
Baroda Aerodrome	41·2	..	45·2	17	26·9	..	21·8	7	0	0	..	0	..	0	..	11.6	11·5	..	0	0	0	0	0	0	1	0	0	0	0
Baroda	41·8	+1·1	45·8	17	27·3	+1·2	23·3	7	0	0	—4·1	0	..	0	—0·1	7·7	5·8	—2·6	0	0	0	0	0	0	0	0	0	0	0
Broach	40·2	+0·5	46·8	14	26·9	0	23·8	6,7	0	0	—17·0	0	..	0	—0·5	14·3	11·8	+0·5	0	0	0	0	0	0	0	0	0	0	0
Surat	37·4	+1·1	44·2	14	27·2	+1·1	23·8	7	0	12·1	—6·0	9·4	31	1	+0·7	12·2	12·0	+1.4	0	3	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch—																													
Bhutakia Bhimasar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..
Naliya	35·5	..	44·0	22	24·9	..	21.0	5	0	0	..	0	..	0	..	18·9	12·4	..	0	0	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	41·1	+2·4	45·5	22	25·4	+0·3	21·3	5	0	1·4	—5·2	1·4	11	0	—0·3	17.4	15·8	—3·4	0	1	0	0	2	0	0	0	0	0	0
Kandla	40·9	..	43·9	14	25·0	..	20·7	8	0	0	..	0	..	0	..	..	24·1	..	0	0	0	0	2	0	0	0	0	0	0
New Kandla	36·4	..	40·7	22	26·3	..	23·0	5	0	0	..	0	..	0	..	25·6	23·5	..	0	0	0	0	1	0	0	0	0	0	0
Mandvi	32·3	—0·4	35·9	15	26·1	—0·1	23·0	9,10	0	0	0	0	..	0	0	31.9	27·7	—2·4	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	42·2	+0·4	45·2	21	26·9	+0·8	23·5	5	0	2·4	—2·7	2·4	30	0	—0·4	16·4	17·5	—0·8	0	1	0	0	1	0	3	0	0	0	0
Jamnagar (Aerodrome)	36·7	+0·6	40·6	22	25·8	+1·0	22·1	11	0	0	—7·6	0	..	0	—0·3	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Dwarka	31·7	+0·6	33·0	27	26·7	—0·3	24·8	9	0	0	—0·5	0	..	0	—0·1	17·7	17·1	—1.2	0	0	0	0	0	0	0	0	0	0	0
Rajkot	40·7	+0·1	42·5	1	25·2	+0·4	21·7	5	0	1·8	—0·7	1·8	29	0	—0·3	25·0	24·7	—1·5	0	1	0	0	2	0	0	0	0	0	0
Bhawnagar Aerodrome.	40.6	+1·2	44·4	16	27.6	+2·0	22·4	6	0	0·7	—9·7	0·7	26	0	—0·7	25·1	23·7	+4·0	0	1	0	0	2	0	0	0	0	1	0
Porbander Aerodrome	33·6	..	38·9	15	26·0	..	23·3	5,7,11	0	0	..	0	..	0	..	23·2	17·0	..	0	0	0	0	0	0	0	0	0	0	0
Porbander	32·2	—0·1	35·2	13	26·5	0	24·4	9	0	0	—0.1	0	..	0	0	16·5	14·6	—1·9	0	0	0	0	0	0	0	0	0	0	0
Keshod	37·8	..	43·0	14,15	25·4	..	22·0	8	0	0·2	..	0·2	29	0	..	26·1	21·8	..	0	1	0	0	2	0	0	0	0	0	0
Mahuva†	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Veraval	32·0	..	36·9	13	25·5	..	22·5	8	0	0	—7·1	0	..	0	—0·3	21·6	18·7	..	0	0	0	0	1	2	0	0	0	0	0
Konkan																													
Dahanu	33·2	+0·2	34·9	16,22	26·8	0	24·2	7	0	3·1	—2·7	2·3	25	0	—0·5	21·4	16·2	—0·5	0	2	0	0	3	0	0	0	0	0	0
Bombay (Santa Cruz)	33·4	+1·0	35·2	8	25·6	+0·5	22·9	20	2·6	32·7	+17·3	16·7	20	4	+2·5	18·8	12·6	..	2	5	0	0	6	0	0	0	0	1	0
Bombay	33·8	+1·0	34·8	27	26·9	+0.5	25·3	20	0·7	26·6	+10·1	14·8	29	2	+1·2	10·7	8·0	—2·8	0	8	0	0	7	0	0	0	0	1	0
Alibag	32·0	+0·4	33 7	27	26·2	0	24·3	11	..	37·3	+10·9	12·2	24	5	+4·2	..	15·6	+2·2	0	9	0	0	3	0	0	0	0	0	0
Harnai	30.5	—0·2	31·6	25	26·6	—0·3	20·9	20	25·2	121·2	+77·2	38·2	21	6	+3·3	20·0	18·0	+2·0	0	8	0	0	4	0	0	0	0	0	0
Ratnagiri	32·5	..	34·9	8	..	..	..	..	2·3	103·4	+75·5	29·7	28	4	+2·6	16.8	11·5	..	1	4	0	0	8	0	0	0	0	0	0
Devgarh	32.2	—0·5	34·4	14	26·5	—0·7	23·5	29	36·2	245·8	+192·7	163·4	28	7	+3·9	22·6	18·4	+0·9	0	8	0	0	6	0	0	0	0	0	0
Vengurla	32·5	—0·1	35·6	8	25·3	—0·7	21·9	17	28·5	254·9	+169·8	106·5	28	10	+5·7	14.9	9·8	..	0	14	0	0	11	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	41·3	..	14·6	17	27·2	..	..	..	0	0·6	..	0·4	28	0	..	13·1	12·6	..	1	1	0	0	0	0	0	0	0	0	0
Jalgaon	43·0	+0·4	46·3	17	26·8	—0·5	19 9	13	0	8·3	—2·3	8·3	28	1	+0·1	19·6	18·6	—3·0	0	1	0	0	7	0	0	0	0	0	0
Malegaon	40·8	+0·2	44·8	17	24·6	+0·7	21.2	8,11	48·5	57·4	+38·9	20·0	27	4	+2·8	13·1	11·5	—2·5	0	6	0	1	3	0	1	0	0	0	0
Deolali (Aerodrome)	38·1	..	41·7	17	23·1	..	19·2	11	5·8	86·3	..	54·3	25	5	..	14·5	12·4	..	0	6	0	0	10	0	0	0	0	0	0
Ahmednagar	38·8	0	42·7	17	22·7	+0·4	20·2	2,23	13·4	62·2	+39·1	22·2	23	6	+4.4	10·9	8·4	—4·2	0	6	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	20·0	—0·1	8·6	20	4	+2·7	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	37·2	..	41·1	15	22·4	..	20·0	1	26·7	60·2	..	15·5	20	7	..	..	..	..	0	8	0	0	13	0	0	0	0	0	0
Poona	37·9	+0·8	42·0	15	23·0	+0·6	20·2	4	54·0	86·5	+ 9·6	60·5	23	5	+3·3	6·6	4·8	—9·8	0	7	0	0	11	0	0	0	0	5	0
Jeur	38·9	—0·8	42·2	15,16	23.8	—0·4	21·8	20	34·4	52·3	+8·4	20·5	20	5	+2·2	12·5	11·8	—2·6	0	5	0	0	4	0	1	0	0	0	0
Baramati	38·5	—0·2	42·1	17	23·4	—0·3	20·1	2	0	71·7	+30·2	23·0	26	5	+2·4	12·6	12·1	—2·3	1	5	0	0	7	0	1	0	0	1	0
Sholapur	38·4	—2·0	41·6	24	24·5	—0·5	21·7	24	0·6	70·0	+47·4	35·2	24	5	+3·1	11·9	11·1	—2·1	0	7	0	0	5	0	0	0	0	0	0
Miraj	36·6	—0·7	40·4	5	22·7	+0·2	20·9	2	19·6	97·2	+49.2	31·6	23	7	+4·1	..	..	..	0	9	0	0	17	0	1	0	0	0	0
Kolhapur	36 3	+0·7	40·9	6	22·3	0	19·8	7	10·6	84·5	+6·3	44·1	24	4	—0·5	14·5	13·4	—3·5	0	8	0	0	11	0	0	0	0	0	0
Marathwada																													
Aurangabad	39·2	+0·5	42·4	17	24·3	0	21·3	23	4·4	31·6	+13·3	18·4	21	3	+1·7	12·7	12·6	—3·3	1	4	0	0	6	0	0	0	0	0	0
Aurangabad (Chikalthan)	38·9	..	42·1	17	22·5	..	17·3	8	0·2	28·9	..	18·0	23	2	..	15·5	13·8	..	1	5	0	0	7	0	0	0	0	0	0
Parbhani	40·5	—1·3	43·3	16	24·8	—1·9	20·8	11	7·6	60·4	+39·3	32·6	24	7	+5·4	12·4	10·8	—1·8	0	9	0	0	8	0	1	0	0	0	0
Nander	40·4	..	42·2	2,3,28	..	..	..	..	0·4	7 3	..	6·5	11	1	..	9·0	8·6	..	0	2	0	0	0	0	0	0	0	0	0
Bir	39·3	..	43·4	15	24·2	..	20·5	3	3·2	118·6	..	38·4	21	4	..	10·3	8·0	..	0	7	0	0	13	0	0	0	0	0	0
Vadarbha																													
Gondia	41·0	—1·1	45.0	28	27·9	—0·9	23·4	11	0	23·9	+17·8	23·6	19	1	+0·3	7·1	5·2	—0·6	0	2	0	0	7	0	0	0	0	0	0
Nagpur (Sonegaon)	41·3	—2·0	44·4	28	26·6	—2·1	21.1	21	5·2	58·5	+39·2	42·3	21	5	+3·0	14·5	12·1	..	0	6	0	0	8	0	0	0	0	12	0
Amravati	41·5	—0·5	44·4	16	26·6	—0·5	23·0	11	15·5	24·5	+11·3	15·5	11	2	+0·7	16·9	13·8	+4·5	0	2	0	0	10	0	0	0	0	0	0
Akola.	41·7	—0·6	45·4	28	27·2	—0·2	23·3	13	0	28·4	+18·0	12·6	25	3	+2·0	11·6	10·2	—1·5	0	4	0	0	0	0	0	0	0	0	0
Brahmapuri	41·0	..	44·9	28	22·1	..	13·4	11	12·4	25·0	..	13·4	8	2	..	10·8	8·9	..	0	3	0	0	4	0	5	0	0	0	0
Buldana	38·6	+0·3	42·2	17,18	24·9	—1·3	21·6	11	11·0	12·6	—5·5	8·2	19	2	+0·3	12·9	11·3	—3·6	0	3	0	0	0	0	0	0	0	0	0
Yeotmal	40·5	—1·4	43·0	2	26·7	—1·6	22·3	8	0·5	13·3	+0·5	11·6	19	1	0	16·6	16·1	+0·4	0	3	0	0	9	0	0	0	0	0	0

Data not reliable.

Division and	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lines squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Vidarbh—(contd.)																													
Chanda	41·0	−2·0	43.8	26	27·8	0	22·3	11	0	12·4	−3·1	7·2	6	2	+0·6	10·9	8·1	+1·7	0	3	0	0	8	0	1	0	0	0	0
Pusad	41·7	..	43·8	15,21	26·6	..	22·1	8	0	15·8	..	6·4	29	3	..	12·1	10·1	..	0	4	0	0	0	0	0	0	0	0	0
Sironcha	40·2	−1·9	43·8	27	28·5	−0·8	22·8	6	3·0	5·4	−11·1	3·0	31	1	−0·3	9·0	7·4	+0.3	0	2	0	0	3	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	34·4	−0·2	36·6	27	26·7	−0·4	21·6	1	0	15·6	−49·4	10·4	1	2	−1·2	17·2	13·7	−0·3	0	3	0	0	1	0	0	0	0	0	0
Visakhapatnam	36·5	+0·1	41·4	29	27·7	+0·4	20·8	3	0·6	31·7	−19·1	17·5	3	3	+0·3	20·7	12·1	−1·7	0	4	0	0	7	0	0	0	0	1	0
Kakinada	37·3	0	44·4	26	27·8	+0·2	24·1	3	11·3	13·3	−25·8	8·7	23	2	−0·5	16.3	11·9	+2·7	0	3	0	0	0	0	0	0	0	0	0
Nidadavole	37·9	..	43·9	26	27·[illegible]	..	22·4	3	18·8	33.8	..	20·0	13	3	..	10·7	8·5	..	0	5	0	0	10	0	0	0	0	0	0
Rentachintala	40·0	−1·6	43·8	3	28·0	−1·0	24·6	23	0	29·4	−34·6	28·0	23	1	−1·8	10·8	9·5	−3·2	0	2	0	0	2	0	0	0	0	0	0
Gannavaram	38·2	−1·5	42·6	26	2[illegible]·9	−0·8	23·3	23	64·8	131·6	+96·9	46·8	11	6	+2·9	19·3	14·4	−1·1	0	8	0	0	7	0	0	0	0	0	0
Nagarjunakonda	40·3	..	43·7	3	28·7	..	25·9	18	0	24·0	..	24·0	23	1	..	18·0	17·1	..	0	1	0	0	6	0	0	0	0	0	0
Masulipatam	36·1	−1·4	43·1	26	27·1	−0·5	23·6	13	1·8	16·0	−17·5	8·0	30	2	0	6·9	5·2	−5·4	0	5	0	0	6	0	0	0	0	0	0
Ongole	36·9	..	42·6	30	26·1	..	24·9	4	10·4	28·5	..	9·6	29	4	..	13·7	10·6	..	1	5	0	0	5	0	0	0	0	0	0
Nellore	36·5	−3·6	41·1	2	27·1	−0·6	23.5	31	38·3	159·0	+131·3	58·4	16	6	+4·6	9·8	7·3	−1·7	0	7	0	0	1	0	0	0	0	0	0
Telangana																													
Ramagundam	40·3	−2·4	44·0	27	28·6	−0·9	21·7	9	0	16·0	−18·1	12·6	9	2	−0·2	10·7	10·1	+1·5	0	2	0	0	3	0	2	0	0	0	0
Nizamabad	38·5	−2·9	40·9	3,23	25·7	−1·7	21·0	8	0	76·6	+59·3	31·0	23	4	+2·6	9·7	8·0	+1·1	0	4	0	0	9	0	0	0	0	0	0
Hanamkonda	39·8	−0·5	43·6	27	26·6	−1·0	23·5	12	4·8	5·8	−25·2	2·6	11	1	−1·0	12.9	11·9	+1·8	0	3	0	0	2	0	0	0	0	0	0
Hakimpet (Aerodrome)	36·3	..	40·4	22	24·4	..	19·3	10	1·5	14·7	..	9·4	10	2	..	..	..	..	0	3	0	0	10	0	0	0	0	0	0
Bhadrachallam	39·0	−1·8	44·0	26	27·5	−0·5	22·8	9	24.0	73·2	+47·8	46·2	9	3	+0·7	9·1	8·0	−2·1	0	3	0	0	4	0	0	0	0	0	0
Hyderabad (Begampet)	37·2	−1·3	39·9	3,26	25·0	−1·0	20·4	10	3·8	10·2	−17·5	5·0	10	2	−0·3	15·3	14·0	+2·6	1	4	0	0	6	0	0	0	0	1	0
Khammam	39·0	..	43·9	26	27·6	..	23·8	9	4·0	10·0	..	6·0	14	1	..	9·0	6·9	..	0	3	0	0	3	0	0	0	0	0	0
Mahbubnagar	37·3	..	42·5	3	24.9	..	19·9	6	7·0	83·9	..	62.3	6	4	..	11·5	9·8	..	0	5	0	0	3	0	1	0	0	0	0
Rayalaseema																													
Kurnool	37·8	−2·5	41·7	3	25·8	−1·4	22·4	23	1·0	99·1	+71·7	68·8	23	3	+0·5	13·3	10·7	−0·2	0	4	0	0	5	0	0	0	0	0	0
Nandyal																													
Anantapur	37·8	−0·5	41·3	4	26·1	+0·2	23·5	11,21	58·9	63·4	+6·0	50·4	30	3	−0·9	13·3	13.5	−0·4	0	5	0	0	6	0	0	0	0	1	0
Cuddapah	38·5	−2·4	42·8	3	27·5	−0·9	22·9	16	11·0	37·8	−0·5	12·6	16	4	+1·4	10·8	8·5	−1·3	0	5	0	0	0	0	0	0	0	0	0
Arogyavaram	33·2	..	37·2	4	22·8	..	20·0	16	34·0	77·6	..	21·0	16	5	..	10·7	9·2	..	0	9	0	0	6	0	0	0	0	0	0
Madras State																													
Madras	35·0	..	39·8	27	27·0	..	23·5	31	..	112·2	..	54·8	16	6	..	..	9·6	..	0	8	0	0	2	0	0	0	0	0	0
Madras (Minambakkam)	35.7	−2·8	39·8	27	26·9	−0·7	23·6	16	41·8	121·1	+94·9	69·0	16	6	+5·1	16·6	12·5	−1·7	0	7	0	0	4	0	0	0	0	2	0
Vellore	36·3	−2·5	40·6	1	25·4	−0·7	22·0	17	83·3	151·9	+93·7	40·6	22	8	+4·2	9·4	8·5	+2·4	0	9	0	0	8	0	0	0	0	0	0
Tambaram (Aerodrome)	36·5	..	40·5	3	..	..	..	..	72·9	168·4	..	67·3	16	8	..	..	..	..	0	9	0	0	4	0	0	0	0	0	0
Tiruppattur	35·0	..	38·8	1	23·2	..	21·4	16	10.0	158·0	..	53·4	19	8	..	(a) 7·2	(a) 5·4	..	0	8	0	0	4	0	0	0	0	0	0
Cuddalore	34·8	−1·8	40·3	25	26·3	−0·6	23·4	16	7·8	32·0	+6·6	19·4	16	3	+1·7	12·3	10·[illegible]	+1·7	0	5	0	0	2	0	0	0	0	0	0
Kallakkurichchi	35·8	..	39·0	27	25·2	..	22·2	11	62·4	193·9	+113·1	61.5	11	10	+5·7	6·9	6·3	..	0	11	0	0	12	0	0	0	0	0	0
Salem	35·3	−0·1	39·3	4	24·9	−0·1	22·0	16	50·6	143·6	+26·8	62·0	17	8	+0·9	9·0	7·9	[illegible]	0	11	0	0	10	0	1	0	0	0	0
Coimbatore (Pilamedu)	32·7	..	36·7	4	22·3	..	16·1	4	64·6	130·9	..	31·8	4	6	..	(n) 11·3	(m) 13·2	..	1	10	0	1	12	2	0	0	2	2	0
Coimbatore	32·9	−1·8	37·2	4	21·6	−1·5	16·7	4	31·2	105·1	+42·4	43·6	4	5	+0·5	11.8	9·9	+3·8	0	8	0	0	12	0	3	0	0	0	0
Nagapattinam	34·5	−1·8	39·6	28	26·9	−0·2	22·7	16	0·2	27·8	−12·1	15·2	16	3	+1·2	15·1	11·4	+1·1	1	4	0	0	2	0	0	0	0	0	0
Tiruchchirapalli	36·2	−1·9	39·3	1	26·0	−0·2	21·5	13	5·2	71·2	−12·9	38·0	13	3	−1·1	16·5	14·9	−0·5	0	5	0	0	8	0	0	0	0	0	0
Vedaranniyam	35·1	..	39·5	29	26·6	..	22·8	16	6·6	32·9	..	16·0	11	4	..	8·5	7·1	..	0	7	0	0	2	0	0	0	0	0	0
Atirampattinam	34·9	..	40·0	29	26·5	..	23·5	16	0	31·2	..	20·8	13	2	..	15·9	12·6	..	0	6	0	0	18	0	0	0	1	0	0
Madurai	36·8	−0·3	40·1	29	26·1	+0.5	22·9	14	31·2	48·0	−21·6	13·8	4,11	4	−0·7	7·6	5·8	−1·1	0	7	0	0	4	0	1	0	0	0	0
Madurai Aerodrome	36·4	..	39·2	29	25·7	..	22·8	13	34·6	46·0	..	15·8	14	4	..	13·1	11·0	..	0	5	0	0	14	0	1	0	0	0	0
Tondi	33.4	..	37·5	24	26·4	..	22·7	11	0	70·0	..	48·0	11	2	..	1[illegible]·1	14·4	..	0	3	0	0	10	0	0	0	0	0	0
Pamban	33·1	−0·1	35·4	28	26·7	−0·6	23·1	16	18·7	107·1	+82·5	32·5	8	6	+4·3	12·2	12.1	−4·2	1	6	0	0	2	0	0	0	0	0	0
Tuticorin	33·7	−0·6	36·9	28	26·2	−0·7	21·6	16	0	18·4	−18·8	18·4	16	1	−2·2	19·6	15·2	+1·3	0	1	0	0	0	0	0	0	0	0	0
Palayamkottai	35·6	−0·9	39·4	31	25·3	−1·7	21·4	16	21·4	39·6	−0·6	13·4	7	5	+2·5	11·7	8·8	−1·1	0	9	0	0	3	0	0	0	0	0	0
Kanyakumari	31·3	..	33·5	4 days	25·4	..	23·1	18	11·2	121·0	..	53·0	18	5	..	19·1	18·0	..	0	7	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31·7	+0·2	34·1	8	26·9	+0·6	21·3	26	92·9	484·2	+388·0	181·2	26	10	+6·1	17·1	12·4	..	0	11	0	0	0	0	0	0	0	0	0
Honavar	32·0	−0·5	34·7	8	25·0	−1·1	22·4	12	112·0	461·3	+330·5	126·0	18	12	+6·4	12·6	10·3	+4·5	3	14	0	0	14	0	0	0	0	0	0
Mangalore (Bajpe)	32·0	..	35·0	12	24·5	..	22·2	21	73·9	473·9	..	136·0	25	13	..	12·9	9·9	..	0	14	0	0	11	0	0	0	0	0	0
Mangalore	31·9	−0·8	34·4	8	26·0	0	23·9	27	126·0	530·5	+373·5	151·4	25	12	+5·3	12·7	10·8	+1·9	0	15	0	0	6	0	0	0	0	0	0
Interior Mysore																													
(North) Bidar(R)																													
Gulbarga	38·6	−1·9	41·8	3,4,6	24·5	−1·4	21·6	6	19·0	65·0	+36·5	21·0	23	5	+2·6	15·0	13·7	+0·2	1	6	0	0	7	0	0	0	0	0	0
Bijapur	37·8	−0·9	41·6	5	24·2	+0·6	21·6	7	0	79·6	+51·1	27·0	22	5	+2·8	4·3	4·0	−6·8	2	6	0	0	2	0	0	0	0	0	0
Raichur	38·1	−1·7	41·6	3	25·6	−0·6	21.9	12	0	21·3	−5·9	15·4	23	2	−0·3	12·7	13·6	+0·4	0	4	0	0	0	0	0	0	0	0	0
Belgaum	33·8	−0·8	38·2	9	21·4	+1·2	19·6	10	23·2	89·8	+31·4	17·6	20	7	+2·7	9·1	8·2	−2·0	0	11	0	0	3	0	0	0	0	0	0

(R) Register not received. (n) Mean of 17 days. (m) Mean of 18 days (a) Mean of 30 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a	20(b	21	22	23	24	25	26	27	28	29
Interior Mysore (north)—(Contd.)																													
Belgaum (Samra)(R)																													
Gadag	35·7	−1.1	40.1	5	22.4	−0·2	20·1	24	35.6	72.6	+19.5	29.2	24	7	+2.9	11.8	11.3	−2.4	2	9	0	1	7	0	0	0	0	1	0
Interior Mysore (South)																													
Bellary	37.0	−1·9	41.0	3	24.9	−0·5	20·8	23	19·0	109.0	+61.0	42.4	12	4	+0·7	9·2	9·3	−0·4	0	6	0	0	5	0	0	0	0	0	0
Chitradurga	33·5	−1·6	37·2	5	22.7	−0.5	21·1	12	5.0	71.6	−3.1	18·0	12	6	+1·6	9·3	9·3	−0.5	0	9	0	0	9	0	0	0	0	0	0
Shimoga	33·0	−0·5	38·6	5	22·5	0	20·8	7	32.6	128.4	+10.8	60·2	18	6	−0·6	7·8	5·8	−0·5	0	10	0	0	2	0	0	0	0	0	0
Agumbe	28.5	..	32·6	12	..	..	..	..	..	407.6	..	100·0	19	14	..	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Balehonnur	29·2	0	33·3	6	19·6	+0·1	15·8	30	..	133·0	+27·6	75·0	18	8	+2.0	..	..	..	0	13	0	0	0	0	0	0	0	0	0
Hassan	30·4	−1.5	35·5	5	20·2	+0.4	19·5	22,26, 30	13·4	193.4	+75.9	93·0	12	6	−1.2	9·8	9·0	+0.5	0	9	0	0	7	0	0	0	0	0	0
Bangalore	31.6	−1.3	34.9	4	21·1	+0·6	18·8	11	3·6	120.7	+15.0	63·6	10	8	+1·4	11.8	9·9	+1·0	0	10	0	0	9	0	0	0	0	1	0
Bangalore Aerodrome.	31.4	..	35·6	6	20.6	..	17·3	9	8.9	188·3	..	64·6	9	10	..	..	..	..	0	12	0	0	9	0	0	0	1	2	0
Mysore	31.4	−1.9	36.3	5	21.0	−0.1	18.8	27	33.2	163.4	+21.4	53.0	12	6	−1.9	10.9	9·0	−0.8	0	7	0	0	2	0	0	0	0	0	0
Kerala																													
Calicut	31.2	−1·1	34·1	2	24.7	−1.0	21.7	14	204.9	594.2	+358.5	112.4	9	16	+7.3	14.0	12·6	+1.3	0	21	0	0	10	0	0	0	0	0	0
Palghat	31·6	..	36.8	12	24.0	..	22.2	2	105.3	184.5	..	36.0	19	12	..	12·7	10.3	..	0	17	0	0	9	0	0	0	0	0	0
Fort Cochin	30·7	−0·1	32.8	12	24.4	−1·3	21.8	2	108.0	545.8	+249.1	90.9	18	15	+2.7	8·4	6·1	−2.4	0	24	0	0	11	0	0	0	0	0	0
Cochin (Naval Air-Station).	31.5	..	33.7	8	24·5	..	22.5	2	172.3	607.9	..	114·2	18	19	..	11·8	13.8	..	0	24	0	0	14	0	0	0	0	7	0
Alleppy	31.4	−0.5	33·8	2	24·0	−1·7	22·1	17	115.5	685.5	+311·5	105·0	17	22	+8 3	15·5	12 2	−0 7	0	24	0	0	14	0	0	0	0	2	0
Punalur	32·1	..	35.1	4,5	23.5	..	21.7	16	126.4	303.4	..	68.0	14	17	..	5.9	3 5	..	0	17	0	0	0	0	0	0	0	0	0
Trivandrum	31·2	−0·7	34.1	4	24.1	−1.2	21·6	16	45.0	307.7	+84·7	65·6	18	13	+2.9	12.4	9·4	+1·2	2	19	0	0	14	0	0	0	0	0	0
Trivandrum (Aerodrome).	31·3	..	33.5	1,4	24.0	..	21·6	16	..	330·1	..	82.6	18	14	..	..	6·9	..	0	17	0	0	7	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	26·5	+0·6	32.0	28	17·0	+1.3	11·5	4	15.0	137·0	+90.3	50·0	31	5	+1.2	10.6	7.9	+1.1	0	6	0	2	0	11	0	0	0	0	0
Dharmsala	31·0	+0·2	36.7	30	20·7	−0.6	15·6	5	9.4	21.2	−33.4	8·2	31	3	−0.9	8.9	6·2	−0.2	0	4	0	0	7	0	0	0	0	0	0
Simla	22·7	−0·2	27·9	29	15·0	+0.7	8·4	10	28 2	37.1	−27.2	16·1	10	3	−2.2	4·5	2·5	−0.2	1	5	2	0	3	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	2·1	−47.2	2.1	9	0	−3.4	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Lokpal	3·9	..	7·8	30	−3·4	..	−5.4	1	..	45.4	..	15.0	9	3	..	..	..	..	1	9	9	7	2	29	0	0	0	0	0
Badrinath (R)																													
Joshimath	25·7	..	30·6	29	14·0	..	9·3	9	6·1	19.0	..	9.7	9	2	..	7·8	6·8	..	0	6	0	0	7	0	0	0	0	0	0
Mussooree	25·2	+0·5	28.7	30	16·0	+1.2	9·6	8,9	0	9·8	−32·6	7·2	1	1	−3.3	14.5	11·5	+1·8	1	2	0	0	7	0	0	0	0	0	0
Mukteswar (Kumauan)	24·1	+1.3	28·3	29	13·3	+0.1	7·3	8	33.0	57.4	−1.0	19·2	8	6	+0.9	19·5	16.8	+5·5	0	7	0	2	8	0	0	0	0	0	0
Nainital	23·5	−0·5	27·6	28,29	14·2	−1.2	10·0	12	24.5	45 0	−30.5	14·0	12	5	+1·5	6·7	5·7	−2·3	0	7	0	0	0	0	0	0	0	0	0
Kalimpong	24·9	+1·2	29·7	18,21	18·2	+1.1	15·6	6 days	66.0	86·3	−73.0	66·0	24	2	−9.8	4·6	3·6	−7.3	0	2	0	0	0	0	0	0	0	0	0
Darjeeling	17·6	−0·2	20·6	21,27	12.2	−0.1	9.3	13	40.7	145·0	−99.6	33·6	31	13	−1.4	4·8	3·8	+1·2	0	22	0	0	3	15	0	0	0	0	0
Kohima	24·3	..	26·7	23	16.8	..	13.8	2	37.7	76.9	..	9.0	9	14	..	..	3·1	..	0	15	0	0	0	0	0	0	0	0	0
Shillong	24·0	+0·7	26·7	23	15.4	+0·3	11·7	3,13	104.6	188.3	−98·5	39.8	2	16	−1.3	13.3	10·7	+4·7	0	16	0	0	0	0	0	0	0	0	0
Cherrapunji	25.7	+3·4	30·2	26	17.4	+1.3	13·7	5	225.0	738.0	−543·2	124.0	28	25	+3·0	11·6	10·9	+2·0	0	28	0	0	2	3	0	0	0	0	0
Abu	33·4	+2.3	38·7	21	21.8	+0.1	18.4	31	0	0	−23·6	0	..	0	−1·3	12·0	7·8	−3·9	0	0	0	0	0	0	0	0	0	0	0
Aijal	27·2	..	30·0	20	18.1	..	13.9	3	42·5	134·3	..	30·4	2	9	..	11·1	12·4	..	0	12	0	0	0	4	0	0	0	0	0
Pachmarhi	35·4	0	38.3	16	22.3	−1.6	16.4	12	18.6	47.6	+31·9	27·2	30	2	+0·4	8·5	7·0	−1·5	0	3	0	0	5	0	0	0	0	0	0
Mahabaleshwar	29·1	+0·3	33·4	9	18.2	0	15.6	18	25.8	51·4	+10·8	17.4	20	6	+3·6	12·9	12·5	−1.2	1	10	0	0	9	13	0	0	0	0	0
Mercara	25·8	−0.9	30·0	5	18.1	0	16.0	10,11	113.8	253.0	+120.7	53·0	20	14	+5.5	11.2	10.2	+4.1	0	15	0	0	5	0	0	0	0	0	0
Ootacamund (R)																													
Coonoor (R)																													
Kodaikanal	19·9	−0·3	22·0	25	12.1	−0.5	9.8	2	81·4	158·9	−2·9	37·2	17	13	+2·4	12.5	13.2	+1.8	0	17	0	0	15	4	0	0	0	0	0
Nepal																													
Katmandu	28·2	..	31·7	23	14.9	.	11.6	5	17.6	95·0	..	14·3	1	10	..	2·5	1·5	..	0	16	0	0	12	0	0	0	0	0	0
Sikkim																													
Lachen	14·9	..	17·5	15	7.1	..	3.3	13	..	120.1	..	24·4	9	14	..	..	..	..	2	26	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories—Damodar Catchment																													
Tilaiya	39·1	..	43·8	28	26.0	..	21.3	12	6.5	10·7	..	6.1	12	2	..	13·5	9·0	..	0	4	0	0	0	0	0	0	0	0	0
Hazaribagh	37.7	..	42.0	29	24.3	..	18.9	12	21·6	25·4	..	19.6	12	1	..	12·8	8·0	..	0	4	0	0	7	1	0	0	0	0	0

*Data given as addenda in December 1962 issue.

(R) Register not received

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed km. per. hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Dat	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Galt	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories— *(Contd.)*																													
Damodor Catchment—*contd.*																													
Konar	..	..	..	..	..	..	..	..	12.5	21·4	..	8·6	8	3	..	..	..	..	3	6	0	0	2	0	0	0	0	0	0
Bokaro	39·7	..	45.1	28	24·5	..	20.0	13	..	22·8	..	7·1	12	3	..	..	7·4	..	3	6	0	0	5	0	0	0	1	0	0
Maithon	38.3	..	42.7	22	25.6	..	21·1	11	28.2	70.5	..	31.6	12	4	..	..	..	..	1	8	0	0	8	0	0	0	0	4	0
Ramgarh	40.7	..	45.3	29	26.0	..	21·1	12,13	17.7	28.4	..	15.2	12	3	..	5.0	3.0	..	0	7	0	0	2	0	0		0	0	0
Panchet Hills	38.5	..	43.6	23	26.3	..	21.2	12	34.1	97.9	..	63.2	12	3	..	9.0	8.2	..	0	6	0	0	8	0	0	0	0	0	0
Durgapur	39.4	..	42.2	29	24.5	..	19.4	12	20.5	80.5	..	46.0	12	4	..	18·4	14.5	..	0	4	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	39.7	..	45.2	30	24.0	..	19.9	8	..	39.1	..	8.6	12	6	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Hiralud	40.9	..	45.5	28	28.7	..	23.3	12	4.8	2.3	..	2.0	12	0	..	8.0	6.3	..	0	2	0	0	7	0	0	0	0	0	0
Bhimkund	37.5	..	43.8	28	24.3	..	18.9	1	0.5	25.5	..	15.0	1	3	..	4.0	3.5	..	0	6	0	1	12	0	0	0	0	0	0
Sonepur	40·6	..	45.3	28	28.4	..	21.9	7	..	0.7	..	0.5	1	0	..	..	7.5	..	1	1	..	..	..	..	..	..	..	..	..
Khijrawan	38·9	..	41.6	28	25.8	..	20·2	7	36.6	51.6	..	21.0	6	5	..	12.7	8·8	..	0	5	0	0	0	0	0	0	0	0	0
Narbada Catchment																													
Bagra Tawa	42·3	..	44·7	28	27·8	..	23·2	13	0	4.5	..	3.8	28	1	..	9·1	6·3	..	0	2	0	0	0	0	0	0	0	0	0
Punasa	42·7	..	46·1	19	..	..	..	..	1.5	1.5	..	1.5	25	0	..	10·0	7·6	..	0	1	0	0	0	0	0	0	0	0	0
Thikri	42·7	.	45·9	17	28·1	..	23·6	9,11	..	2.4	..	.4	4	0	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Dharoi	43.5	..	46·8	24	24·3	..	20·2	11	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	21·8	..	24·8	28,29	6.6	..	2.8	9	0.8	1.3		0.8	7	0	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	53·8	124·0	..	37·2	24	10	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Timure	25·1	..	28·3	24	14·1	..	10·6	13	10·3	33 6	..	14·0	5	5	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Pokhara	28·7	..	31·0	24	17·6	..	14·7	5	198.0	328.5	..	38.9	27	21	..	4·9	4.1	..	2	26	0	0	27	0	0	0	0	0	0
Gorkha *																													
Nuwakot	30·8	..	33·4	23,24	18·4	..	15·5	1	41.2	135.8	..	57.6	1	6	..	..	..	..	2	14	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	28.6	..	32.6	29	17.2	..	12.5	1	3.0	47.1	..	16.0	25	6	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Ghaghar Catchment																													
Dadeldhura	26·5	..	31·0	28	15.0	..	10·4	9	4.8	10·2	..	2·8	9	1	..	..	..	..	1	6	0	1	13	0	4	0	0	0	0
Sallayana	(b) 29·4	..	33·3	30	(b) 19·7	..	12·0	13	(b) 6.0	(b) 21.0	..	9.0	25	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Butwal	36·4	..	39.4	27	(d) 25·7	..	20·9	12	24.0	43.4	..	24.0	15	3	..	..	..	..	0	3	..	..	..	..		..	..	..	..
Bagmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	27·1	..	31·2	23	15·3	..	11·9	12	12.7	73.2	..	23.6	29	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	88·8	308·4	..	41·0	24	20	..	..	..	..	2	27	..	..	..	..	..	..	..	..	..
Walungchung Gola	13·1	..	16·0	24	4·6	..	1.4	9	43·4	96·2	..	12·4	12	12	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..
Taplethok	25·2	..	28·6	23	15·0	..	11·2	6	63.6	167·0	..	33·0	24	15	..	..	..	..	1	26	..	..	..	..	..	..	..	..	..
Bhojpur	23·2	..	26·8	23	15·4	..	12·9	12	38.0	168.2	..	45.0	15	12	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Taplejung	22·5	..	25·2	23	13 7	..	10·7	13	101.5	260.4	..	41·6	23	21	..	..	..	..	2	25	0	0	13	3	0	0	0	0	0
Okhaldunga	(b) 21·9	..	24·7	29	(b) 14·5	..	11·2	13	23.3	54·3	..	18·0	13	7	..	..	..	..	0	10	..	..	..	.	..	..	..	..	..
Chainpur	27·1	..	30·2	23	17·3	..	14.2	29	29.2	125·0	..	23·6	30	11	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Angbung	(a) 27·5	..	30·5	21	17·1	..	14·7	11	128·4	317·4	..	64.7	29	17	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Barahkshetra	32·4	..	34·4	10,11, 27	22·3	..	18·9	3	24·2	110.7	..	30·0	15	11	..	12.7	7·8	..	1	14	0	0	23	0	0	0	0	1	0
Tista Catchment																													
Gangtok	21·1	..	25·1	23	13·4	..	10.1	13	143·6	609.1	..	30·0	31	25	..	7·0	6.2	..	1	28	0	3	15	14	0	0	0	1	0
Gezing	23·4	..	26·6	10	14·7	..	11.6	13	37·7	207.3	..	32·8	23	19	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..

(b) Mean or Total for 29 days. (a) Mean of 30 days. †Data included under "Nepal". Data not available (d) Mean of 27 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	(Cloud amount Oktas): Mean amount	(Cloud amount Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1008·0	1004.8	..	29·6	27·1	26·0	33·6	81	..	5·1	..	4·1	0	0	21	0	2	4	2	0	12	0	1	10	0
	1730	,,	1005·4	1002·3	..	28·2	26·5	25·9	33·4	87	..	5·6	..	5·1	0	0	22	0	0	2	4	0	13	3	0	9	0
Long Island	0830	25	1007·9	1005·0	..	29·2	26·6	25·5	32·6	81	..	6·2	..	3·4	0	0	19	0	1	0	1	2	13	1	1	12	0
	1730	,,	1006·7	1002·9	..	28·1	26·0	25·1	31·9	83	..	6 7	..	2·3	0	0	12	1	0	0	0	0	9	1	1	19	0
Port Blair	0530	79	1006·9	997·9	..	25·2	24·7	24·4	30·5	95	..	7·3	..	5·5	0	2	17	0	0	1	1	3	7	6	1	12	0
	0830	,,	1008·3	999·5	−0·3	28·7	26·2	25·1	31·9	81	+3	7·3	+1.7	7·9	0	1	26	0	2	3	4	6	7	5	0	4	0
	1130	,,	1007·2	998·4	..	29·2	26·3	25·0	31·7	79	..	7·1	..	11·7	0	4	26	0	1	5	5	5	8	5	1	1	0
	1730	,,	1005·7	996·9	..	27·3	25·6	24·9	31·5	87	..	7·5	..	6·5	0	2	21	0	1	2	0	6	7	7	0	8	0
	2330	,,	1007·3	998·3	..	25·8	25·0	24.6	30·9	93	..	5·4	..	5·2	0	1	20	0	0	2	0	5	10	4	0	10	0
Car Nicobar	0830	10	1008·6	1007·5	..	28·8	26·1	24·9	31·9	81	..	7·2	..	4·5	0	0	26	0	2	1	5	2	12	4	0	5	0
	1730	,,	1006·2	1005·0	..	27·6	25·5	24·5	30·7	84	..	7·1	..	2·8	0	0	15	0	0	0	1	0	10	2	2	16	0
Nancowry	0830	26	1009·1	1006·2	..	28·2	25·8	24.8	31·3	81	..	6·1	..	3·4	0	0	15	0	0	0	0	0	13	2	0	16	0
	1730	,,	1006·6	1003·6	..	27·6	25·3	24·3	30 4	82	..	5·8	..	2·8	0	0	13	0	0	0	0	0	11	2	0	18	0
Kondul	0830	8	..	..	..	27·9	25·7	24·8	31·3	83	..	6·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	27·1	25·3	24 5	30·7	86	..	6·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1008·0	990·2	..	22·8	21·0	19·9	23·2	81	..	6.7	..	6·7	0	2	23	1	1	0	0	1	1	0	21	6	0
	1730	,,	1004·3	986·6	..	24·4	22·3	21·3	25·3	84	..	6·6	..	6·1	0	4	12	1	0	0	0	1	0	0	13	15	1
Dibrugarh (Mohanbari)	0230	111	1005·6	992·2	..	21·3	20·6	20·3	23·8	94	..	6·6	..	2·4	0	0	13	1	8	2	1	0	0	1	0	18	0
	0530	,,	1006·4	993·6	..	21·3	20·7	20·4	24·0	94	..	6·9	..	2·7	0	0	16	0	11	3	0	0	0	1	1	15	0
	0830	,,	1007·7	995·1	−0·2	23·9	21·9	20·7	24 4	84	+1	6·9	+1·4	4·2	0	0	23	1	20	1	0	0	1	0	0	8	0
	1130	,,	1006·9	994·3	..	25·6	22·5	20·9	24·7	75	..	6.8	..	6·3	0	0	30	4	22	1	0	0	3	0	0	1	0
	1730	,,	1004·3	991·7	..	24.9	22·4	21·1	25·0	80	..	6·1	..	6.5	0	0	28	3	17	3	0	1	1	2	1	3	0
	2330	,,	1005·8	993·1	..	22·1	21·3	20·9	24·7	92	..	6·8	..	2 7	0	0	18	1	11	1	0	1	1	2	1	13	0
Dibrugar (R)	0830	106	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Digboi (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakh'mpur	0830	102	1007·8	996·2	+1·2	23·9	22·0	21·1	25·0	85	0	6·5	−0·3	4·3	0	0	29	8	14	3	2	0	1	0	1	2	0
	1130	,,	1007·1	995·5	..	25·4	22·5	21·0	24·9	79	..	6·8	..	5·1	0	0	28	2	16	3	3	1	2	1	0	3	0
	1730	,,	1004·0	992·5	..	24·8	22·7	21·7	25·9	84	..	6·2	..	4·2	0	0	27	4	15	2	3	1	0	0	2	4	0
Sibsagar	0830	97	1008·2	996·9	+0·3	24·8	22·7	21·6	25·8	83	−1	6·7	+0·4	2·0	0	0	21	4	16	1	0	0	0	0	0	10	0
	1730	,,	1004·6	994.0	..	26·2	23·5	22·1	26·6	79	..	5·6	..	2·3	0	0	21	5	15	1	0	0	0	0	0	10	0
Gohpur	0830	..	..	..	..	24·4	22·5	21.7	25·9	84	..	2·8	..	3·0	0	0	31	0	19	3	5	0	3	0	1	0	0
	1730	..	..	..	..	26·0	23·5	22·1	26·6	78	..	2·2	..	3·0	0	0	31	0	13	6	6	1	5	0	0	0	0
Majbat	0830	77	..	..	..	..	..	..	..	..	..	6·1	..	2·5	0	0	19	0	5	9	3	0	1	0	0	12	1
	1730	,,	..	..	..	..	..	..	..	..	..	2·4	..	1·2	0	0	10	1	5	2	1	0	0	1	0	21	0
Jorhat (Aerodrome)	0530	90	1005.3	995·0	..	21·8	21·3	21·0	24·9	95	..	6·6	..	4·3	0	0	18	2	16	0	0	0	0	0	0	13	0
	0830	,,	1007·3	997·4	..	23·9	23·5	21·6	25·8	83	..	6·4	..	7·6	0	1	27	2	22	3	0	0	0	1	0	3	0
	1130	,,	1006·0	995·8	..	26·4	23·7	22·4	27·1	77	..	6·7	..	10·8	0	1	29	4	22	1	0	0	2	0	1	1	0
	1730	,,	1002·6	992·7	..	25·9	23·2	21·3	25·3	78	..	5·8	..	11·8	0	4	26	3	22	0	0	1	2	1	1	1	0
	2330	,,	1004·6	994·5	..	22·9	22·3	21·8	26·1	94	..	5·4	..	5·5	0	1	21	4	16	0	0	1	0	1	0	9	0
Tangla	0830	78	1006·3	997·8	..	24·8	22·6	21·9	26·3	82	..	5·1	..	0·5	0	0	4	0	2	2	0	0	0	0	0	27	0
	1730	,,	1002·3	993·6	..	27·5	23·7	23·2	28·4	77	..	4·3	..	0·9	0	0	1	0	0	1	0	0	0	0	0	30	0
Tezpur	0830	79	1008·0	999·0	0	24·5	22·3	21·1	25·0	82	+1	6·2	+1·0	5·8	0	0	19	0	9	7	3	0	0	0	0	12	0
	1730	,,	1003·3	994·4	..	26·9	23·3	21·4	25·5	72	..	5·0	..	5·1	0	0	18	0	9	4	2	0	0	1	0	13	
Golaghat	0830	..	..	..	..	25·2	22·6	21 3	25·3	79	..	7·1	..	(e) 0·1	0	0	1	0	0	0	1	0	0	0	0	25	0
	1730	..	..	..	..	25·0	23·3	21·5	25·6	72	..	4·3	..	(l) 0	0	0	0	0	0	0	0	0	0	0	0	19	0
Rangia	0830	..	..	1001·1	..	25·4	23·0	21·8	26·1	80	..	4.8	..	2·9	0	0	25	1	2	20	2	0	0	0	0	6	0
	1730	..	..	996·8	..	28·0	24·1	22·3	26·9	71	..	(j) 2·9	..	(j) 2·3	0	0	14	0	1	9	0	0	2	2	0	7	0
Chaparmukh	0830	66	1007·7	1000·2	..	25·6	22·9	21·5	25·6	80	..	5·1	..	3·2	0	0	31	11	1	11	1	3	0	4	0	0	0
	1730	,,	1003·7	996·3	..	28·0	24·1	22·3	26·9	72	.	3·9	..	3·4	0	0	31	15	0	9	0	2	0	5	0	0	0
Goalpara	0830	38	1007·9	1003·5	..	23·7	22·2	21·5	25.6	89	..	6·4	..	4·5	0	0	30	1	18	0	8	0	0	1	2	1	0
	1730	,,	1004·0	999·6	..	28·7	24·7	23·0	28·1	71	..	4·9	..	4·2	0	0	31	0	16	0	3	1	1	3	7	0	0
Gauhati	0830	55	1006·8	1000·5	−0·2	25·5	23·1	22·0	26·4	81	+2	5·3	+0·3	0·8	0	0	8	0	6	2	0	0	0	0	0	23	0
	1730	,,	1003·1	996·8	..	28·5	24·1	22·2	26.7	69	..	3·0	..	0·4	0	0	4	0	2	2	0	0	0	0	0	27	0
Gauhati (Bhorjor)	0230	54	1004·2	998·0	..	22·9	21·8	21·3	25·3	90	..	5·9	..	4·7	0	0	18	5	8	3	0	1	1	0	0	13	0
	0530	,,	1005·4	999·2	..	22·6	21·7	21·3	25·3	92	..	6.5	..	4·5	0	0	16	5	7	1	0	0	1	0	2	15	0

(R) Register not received. (e) Mean of 26 days. (l) Mean of 19 days. (j) Mean of 21 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Gauhati (Bhorjor)—*contd.*	0830	,,	1006·7	1000·5	−0·3	25·6	23·3	22·1	26·1	81	+6	6·0	+1·0	6·2	0	0	25	6	10	7	0	0	1	0	1	6	0
	1130	,,	1005·9	999.7	..	27·2	23·8	22·2	26·7	74	..	5·7	..	7·8	0	0	28	16	6	1	1	1	0	0	3	3	0
	1730	,,	1002·4	996·2	..	28·0	24·0	22·1	26·1	71	..	4·5	..	6·0	0	0	26	5	9	3	0	0	1	2	5	5	1
	2330	,,	1004·6	998·5	..	23·7	22·7	21·2	25·2	88	..	5·2	..	5·5	0	0	20	4	7	4	1	1	2	1	0	11	0
Dhubri (Rupsi)	0530	36	1004·3	1000·2	..	22·6	21·7	21·1	25·0	91	..	6·0	..	5·5	0	0	27	6	11	7	1	0	0	0	2	4	0
	0830	,,	1005 7	1001·6	..	25·2	23·1	22·1	26·6	83	..	6·3	..	8·1	0	1	29	0	6	13	9	1	1	0	0	1	0
	1130	,,	1004·7	1000·7	..	27·7	24·1	22.6	27·4	75	..	5·3	..	8·8	0	0	31	0	4	8	8	7	2	2	0	0	0
	1730	,,	1001·1	997·1	..	28·5	24·6	22·9	27·9	72	..	4·3	..	5·3	0	0	22	1	4	3	4	0	4	4	2	9	0
Dhubri	0830	35	1007·4	1003·3	+0.5	24·6	23·0	22·2	26·7	87	+5	5·4	+0·4	6·7	0	1	29	3	20	4	3	0	0	0	0	1	0
	1730	,,	1002·4	998·5	..	27·7	24·5	23·0	28·1	75	..	4·5	..	2·5	0	0	20	0	8	6	1	3	1	1	0	11	0
Lumding	0830	149	1007·0	990·3	..	26.5	23·1	21·4	25·5	74	—4	5·0	..	1·3	0	0	8	1	1	1	3	0	1	0	1	23	0
	1730	,,	1002·8	986·3	..	29·3	23·7	20·9	24·7	62	..	3·8	..	2·1	0	0	13	0	1	3	2	0	4	2	1	18	0
Tura	0830	370	1006·7	965·6	..	25·5	23·7	22·1	26·6	80	..	6.0	..	5·6	0	0	28	2	4	4	10	7	0	1	0	3	0
	1730	,,	1003·4	961·6	..	28·2	26·1	25·2	32·1	84	..	6·1	..	3·7	0	0	24	0	0	2	9	6	3	2	2	7	0
Haflong	0830	682	1006·8	931.7	..	22·6	19·8	17·9	20·5	77	..	4·5	..	14·5	0	6	25	1	1	0	1	2	26	0	0	0	0
	1730	,,	1003·4	928·2	..	24·9	20·9	18·8	21·7	69	..	3·3	..	9·8	0	1	30	0	0	0	0	2	29	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1005·1	994·3	..	22·5	21·3	20·7	24·4	89	..	4·7	..	5·2	0	0	25	0	5	18	0	0	0	1	1	6	0
	0830	,,	1006·4	995·4	..	25·7	22·8	21·3	25·3	77	..	5·0	..	4·7	0	0	27	0	3	19	3	1	1	0	0	4	0
	1130	,,	1005·1	994·3	..	28 1	23·5	21·2	25·2	67	..	4·7	..	4·8	0	0	28	1	3	7	5	5	2	4	1	3	0
	1730	,,	1001 8	991.0	..	28·5	24·1	22·0	26·4	69	..	3·4	..	2·0	0	0	15	0	0	7	2	0	0	5	1	16	0
Silchar	0830	29	1007·6	1004 3	0	26·3	23·6	22·0	26·7	79	−1	4·9	—0·1	1·8	0	0	19	2	6	3	4	2	1	1	0	12	0
	1730	,,	1003·3	1000 0	..	29·2	24·8	22·9	27·9	69	..	3·0	..	1·4	0	0	14	3	5	1	1	0	1	1	2	17	0
Imphal (Tulihal)	0530	781	1007·5	921·0	..	19·2	18·4	17·8	20 4	92	..	5.9	..	0·6	0	0	5	0	0	0	0	0	0	4	1	26	0
	0830	,,	1007·6	922·3	+0·2	23·5	20·0	18·0	20·6	72	−2	5·5	—0·1	2·4	0	0	18	0	1	0	7	2	4	3	1	13	0
	1130	,,	1005·8	921·2	..	26·8	20·5	17·9	20·5	58	..	5·8	..	7·0	0	2	20	1	0	0	2	3	6	5	5	9	0
	1730	,,	1001·9	918·3	..	25.7	20·6	17·8	20·4	62	..	5·0	..	6·5	0	1	24	0	1	0	0	2	1	12	9	6	0
	2330	,,	1006·7	920·9	..	21·1	19·5	18·6	21·4	84	..	5·3	..	3·0	0	1	9	1	0	0	1	1	2	4	1	21	0
Kailashahar	0530	29	1006·5	1003·2	..	23·5	22·7	22·3	26·9	93	..	2·1	..	2·0	0	0	17	2	2	2	1	6	1	3	0	14	0
	0830	,,	1007·7	1004·4	..	27·3	23·8	22·2	26·7	74	..	5·2	..	6·1	0	0	28	3	5	4	3	9	3	1	0	3	0
	1130	,,	1006·6	1003·4	..	30·1	24·9	22·6	27·4	65	..	5·5	..	5·7	0	0	29	1	3	4	2	13	2	2	2	2	0
	1730	,,	1003·3	1000·1	..	29·5	25·0	22·9	27·9	69	..	4·7	..	3·9	0	1	21	4	3	2	0	4	1	6	2	9	0
Agartala	0230	16	1003·9	1002·1	..	24·3	23·4	22·9	27·9	92	..	4·0	..	6·8	0	2	18	0	2	2	6	7	0	1	2	11	0
	0530	,,	1004·8	1003·0	..	24·1	23·3	22·7	27·6	92	..	5·8	..	9·1	0	4	19	3	3	1	8	8	0	0	0	8	0
	0830	,,	1006·0	1004·2	+0·9	28·1	24·8	23·3	28·6	77	0	5·5	—0·1	12·1	0	6	20	1	1	2	6	12	3	0	1	5	0
	1130	,,	1005·1	1003.5	..	30·6	25·6	23·4	28·8	66	..	6·2	..	14·8	0	8	22	2	2	3	2	16	3	1	1	1	0
	1730	,,	1002·0	1000.2	..	29·7	25·5	23·6	29·1	71	..	5·1	..	12·5	0	7	20	3	1	1	3	12	4	3	0	4	0
	2330	,,	1003·8	1001·9	..	25·2	23·7	22·9	27·9	88	..	4·5	..	7·1	0	2	20	1	0	3	7	10	1	0	0	9	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1003·2	988·3	..	24·0	22·5	21·7	25·9	88	..	5·4	..	9·5	0	1	30	4	15	8	1	1	1	1	0	0	0
	0530	,,	1004·4	989·5	..	22·8	22·0	21·6	25·8	93	..	5·8	..	7·7	0	0	27	3	7	12	2	1	1	1	0	4	0
	0830	,,	1005·9	991·1	+0·8	25·7	23·1	21·9	26·3	80	+6	6·1	+0·9	15·7	0	10	20	0	6	18	4	0	0	0	1	1	1
	1130	,,	1004·7	990·1	..	28·2	24·8	23·2	28·4	75	..	5·5	..	15·2	0	8	23	0	2	16	11	1	1	0	0	0	0
	1730	,,	1001·2	986·6	..	28·5	25·1	23·6	29·1	75	..	4·8	..	9·7	0	1	28	1	6	13	8	0	1	0	0	2	0
	2330	,,	1003·8	989·0	..	25·2	23·3	22·3	26·9	85	..	4·7	..	11·1	0	2	29	3	15	9	3	1	0	0	0	0	0
Jalpaiguri	0830	83	1006·1	996.7	−0·4	24·4	22·6	21·7	25·9	86	+7	5·4	+1·6	10·2	0	2	28	4	10	13	0	0	1	0	2	1	0
	1730	,,	1001·3	992·0	..	28·5	24·7	23·0	28·1	73	..	3·2	..	9·9	0	2	29	1	10	11	9	0	0	0	0	0	0
Cooch-Behar	0830	43	1006·2	1001·4	..	25·0	22·9	21·8	26·1	83	..	6·3	..	17·0	1	3	27	4	8	17	1	0	0	1	0	0	0
	1130	,,	1005·1	1000·3	..	27·7	24·1	22·4	27·1	73	..	5·5	..	13·3	0	4	26	0	2	21	5	1	0	0	0	1	1
	1730	,,	1001·8	997.0	..	28·2	24·9	23·4	28·8	76	..	4·5	..	8·4	0	1	22	1	5	12	2	3	0	0	0	8	0
Balurghat	0830	..	..	..	..	27·3	24·0	22·5	27·2	77	..	3·8	..	4.7	0	0	31	1	3	5	13	5	2	1	1	0	0
	1730	..	..	..	...	30·9	25·2	22·6	27.4	63	..	3·7	..	4·0	0	0	26	1	3	6	7	6	2	1	0	5	0
Malda	0830	31	1004·7	1001·2	−0·5	29·0	24·8	22·9	27·9	71	0	4·6	+1·2	8·1	0	0	31	1	6	9	7	5	1	1	1	0	0
	1730	,,	1000·3	996·8	..	31·2	24·7	21·7	25·9	58	..	3·4	..	8·7	0	0	31	0	4	13	5	6	2	0	1	0	0
Gangetic West Bengal																											
Berhampore	0830	19	1004·3	1002.4	−0·7	29·6	25·6	24·1	30·0	73	0	3·1	—1·3	8·3	0	0	31	0	0	6	3	18	4	0	0	0	0
	1730	,,	999·9	997·9	..	32·0	25·2	22·0	26·4	57	..	3·6	..	6·9	0	0	26	0	0	7	4	13	1	0	1	5	0
Suri	0830	77	..	..	..	29·9	25·2	23·1	28·3	68	..	4·3	..	9·6	0	0	31	0	0	1	9	15	3	1	2	0	0
Asansol	0230	126	1001·9	987·8	..	27·0	24·0	22·6	27·4	78	..	2·3	..	8·5	0	1	26	0	1	4	10	7	5	0	0	4	0
	0530	,,	1002.6	988·5	...	26.6	23·8	22·6	27·4	81	..	3·5	..	6·7	0	0	23	0	0	1	10	8	2	2	0	8	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(*Contd.*)																											
Asansol—*contd.*	0830	126	1003·7	989·7	—0·3	31·0	25·6	23·2	28·4	64	+1	2·2	—0·9	8·5	0	0	28	0	0	5	11	5	3	4	0	3	0
	1130	,,	1002·7	989·0	..	35·9	26·0	21·3	25·3	45	..	2·2	..	8·1	0	0	28	0	1	2	7	7	6	4	1	3	0
	1730	,,	999·1	985·4	..	34·5	25·3	20·9	24·7	47	..	3·3	..	9·9	0	3	24	1	3	9	7	6	0	1	0	4	0
	2330	,,	1002·4	988·4	..	28·4	24·6	22·8	27·7	73	..	2·2	..	10·9	0	1	28	0	0	2	14	10	3	0	0	2	0
Santi Niketan	0830	59	1004·5	997·9	..	30·2	25·3	23·1	32·2	67	..	2·6	..	10·9	0	1	26	0	0	0	1	19	4	2	1	4	0
	1130	,,	1003·7	997·3	..	34·3	25·8	21·9	26·3	50	..	2·5	..	7·5	0	0	27	0	1	1	3	12	8	0	2	4	0
	1730	,,	999·9	993·4	..	32·9	24·9	21·1	25·0	52	..	4·0	..	9·2	0	1	23	0	2	2	4	10	5	0	1	7	0
Krishnanagar	0830	15	1006·1	1004.4	+1·1	29·9	26·6	25·6	32·2	77	+2	1·5	—2·5	2·7	0	0	22	0	0	0	4	18	0	0	0	9	0
	1730	,,	1000·9	999·2	..	33·2	26·6	23·8	29·5	60	..	2·4	..	4 2	0	0	28	0	0	0	1	26	0	0	1	3	0
Purulia	0830	255	1003·5	975·9	+0·2	31·4	24·4	21·0	24·9	55	+3	3·9	+1·4	2·8	0	0	23	0	0	0	11	2	9	0	1	8	0
	1730	,,	998·9	971·7	..	35.6	24·5	19·0	22.0	40	..	5·9	..	5·2	0	0	29	0	2	0	15	0	7	0	4	2	1
Burdwan	0830	32	1003·6	1000·2	—0·9	30·6	26·1	24·4	30·5	70	—4	1·9	—2·3	4·5	0	0	23	0	1	1	1	11	8	1	0	8	0
	1730	,,	1000·2	996·6	..	31·5	25·3	22.1	26·6	57	..	2·3	..	14·8	0	10	16	0	2	1	3	16	4	0	0	5	0
Barrackpore (Aerodrome)	0530	7	1003·7	1002·9	..	26·5	25·2	24.7	31·1	89	..	4·3	..	6·8	0	0	21	0	1	2	1	15	1	1	0	10	0
	0830	,,	1004·9	1004·2	+1·2	30·1	26·3	24·7	31·1	73	0	4·0	+0.1	13·6	0	3	26	0	0	2	3	20	3	1	0	2	0
	1130	,,	1004·1	1003·4	..	33·6	26·9	24·0	29·8	58	..	3·5	..	14·5	0	0	30	1	1	0	4	20	4	0	0	1	0
	1730	,,	1001·0	1000·3	..	32·3	26·3	23·7	29·3	61	..	4·2	..	13·4	0	5	23	0	1	0	5	20	1	1	0	3	0
	2330	,,	1003·8	1003·0	..	27·8	25·5	24·4	30·5	82	..	3·2	..	11 3	0	0	28	0	0	3	4	20	1	0	0	3	0
Calcutta (Dum Dum)	0230	6	1002·6	1001·9	..	26·7	25·4	24·8	31·3	89	..	3·8	..	9·1	0	3	25	2	0	0	6	16	4	0	0	3	0
	0530	,,	1003·4	1002·7	..	26·4	25·4	25·0	31·7	91	..	4·8	..	6·1	0	0	25	0	0	1	5	16	3	0	0	6	0
	0830	,,	1004·7	1004·0	+0·2	30·2	26·7	25·3	32·2	75	+1	4·3	—0·1	10·8	0	1	30	0	1	0	3	18	9	0	0	0	0
	1130	,,	1004·0	1003·3	..	32·8	27.3	25·1	31·9	63	..	3·7	..	12·8	0	2	29	0	0	1	6	19	4	1	0	0	0
	1730	,,	1001·2	1000·5	..	31·7	26·6	24·4	30·5	66	..	4·2	..	14·6	0	6	25	0	1	0	3	22	5	0	0	0	0
	2330	,,	1003·4	1002·7	..	27·2	25·6	24·9	31·5	87	..	3·8	..	10·9	0	3	26	0	1	0	6	20	2	0	0	2	0
alcutta	0830	6	1004·5	1003·8	—0·5	30·5	26·4	24·6	30·9	71	—3	4·5	+0·3	12·4	0	3	27	0	0	1	2	14	13	0	0	1	0
	1130	,,	1003·8	1003·1	..	33·6	27·1	24·3	30·4	59	..	4·2	..	11·2	0	4	27	0	0	2	3	15	11	0	0	0	0
	1730	,,	1001·0	1000·3	..	32·2	26·5	24·1	30·0	63	..	4·0	..	15·5	0	11	20	0	0	1	5	20	5	0	0	0	0
Midnapore	0830	45	1004·1	999·1	—0·5	30·5	25·7	23·7	29·3	67	—2	1·7	—1·2	6·8	0	0	29	0	0	0	0	20	8	0	0	2	1
	1730	,,	1000·6	995·5	..	32·7	25·9	23·0	28·1	57	..	3·3	..	10·7	0	3	28	0	1	0	1	23	5	1	0	0	0
Contai	0830	11	1004·6	1003·4	+0·6	30·2	26·9	25·7	33·0	76	—1	2·5	—1·6	8·7	0	0	30	0	0	0	6	9	14	1	0	1	0
	1730	,,	1001·3	1000·1	..	29·8	27·0	25·9	33.4	80	..	2·0	..	10·8	0	2	29	0	0	0	8	17	6	0	0	0	0
Sagor Island	0830	3	1004·6	1004·3	—0·4	29·7	27·4	26·5	34·6	83	+8	5·1	+0·1	29·8	0	23	8	0	2	1	0	12	15	1	0	0	0
	1730	,,	1001·4	1001·1	..	30·0	27·5	26·5	34·6	82	..	4·2	..	33·9	0	28	3	0	0	1	6	18	6	0	0	0	0
Sandheads	0530	10	1003·0	1001·9	..	28·7	26·7	25·9	33·4	85	..	6·2	..	19·1	0	11	19	0	2	0	2	6	19	1	0	1	0
	0830	,,	1005·0	1003·9	—0·3	29·4	27·4	26·0	33·6	83	+4	4·4	+0·6	17·6	0	7	23	1	1	0	2	8	16	2	0	1	0
	1130	,,	1004 6	1003·5	..	30·0	27·3	26·2	34·0	80	..	4·1	..	19·0	0	0	31	0	1	1	2	11	15	1	0	0	0
	1730	,,	1001·4	1000·3	..	30·0	27·3	26·2	34·0	80	..	4·2	..	20·3	0	14	16	0	0	0	1	16	13	0	0	1	0
	2330	,,	1003·6	1002·5	..	29·0	27·1	26·3	34·2	85	..	2·5	..	22·2	0	17	13	0	1	0	0	15	13	1	0	1	0
Orissa																											
Baripada	0830	54	1004·8	999·0	..	30·3	26·0	24·1	30·0	69	..	1·7	..	3.2	0	0	26	0	0	1	3	8	10	3	1	5	0
	1730	,,	1001·2	995·2	..	32·7	26·8	24·3	30·4	62	..	3·4	..	8.0	0	1	29	0	1	1	12	11	3	1	0	1	1
Jharsuguda	0230	230	1001·7	976·3	..	28·9	22·8	19·6	22·8	58	..	4·0	..	6·1	0	1	17	1	1	1	9	3	1	2	0	13	0
	0530	,,	1002·7	977·2	..	27·6	22·5	19·8	23.1	63	..	5·0	..	3·3	0	0	16	0	2	1	7	5	0	1	0	15	0
	0830	,,	1004·1	978·9	+0·7	31·9	23·5	19·3	22·4	48	+2	4·2	+1·7	7·3	0	1	26	2	1	0	6	5	10	2	1	4	0
	1130	,,	1002·8	978·0	..	36·8	23.8	16·6	18·9	31	..	3·6	..	10·3	0	4	26	2	0	0	3	2	9	11	3	1	0
	1730	,,	998·3	973·7	..	38·6	23·2	13·9	15·9	29	..	5·1	..	8·4	0	0	29	0	1	1	3	10	5	7	2	2	0
	2330	,,	1002·2	976·9	..	30·8	22.9	18·8	21·6	50	..	4·2	..	9·5	0	3	20	1	2	2	9	3	6	0	0	8	0
Keonjhargarh	0830	463	1004·5	951·3	..	29·9	22·6	19·1	22·1	53	..	2·3	..	4·5	0	1	25	1	5	2	4	0	3	7	4	5	0
	1730	,,	1000·3	947·8	..	33·2	22·3	17·2	19·6	41	..	3·7	..	3·8	0	0	30	0	1	3	5	7	6	5	3	1	0
Balasore	0830	20	1004·4	1002·1	—0·3	29·9	26·6	25·2	32·1	76	+6	4·4	+0·9	18·3	0	15	15	0	1	0	1	14	13	1	0	1	0
	1730	,,	1000·9	998·6	..	30·6	26·9	25·3	32·2	74	..	4·6	..	18·4	0	14	17	0	0	0	8	21	2	0	0	0	0
Sambalpur	0830	148	1004·4	988·1	+0·2	34·7	24·1	18·5	21·3	39	—9	2·5	+0·1	4·7	0	0	27	1	1	0	1	9	11	3	1	4	0
	1730	,,	999·3	983·3	..	37·6	23·7	15·8	17·9	29	..	3·5	..	3·7	0	0	24	1	0	1	4	7	6	3	2	7	0
Angul	0830	139	1004·9	989·6	+0·6	31.4	28·0	26·7	35·0	78	+12	3·4	—0·1	3·2	0	0	23	1	3	5	8	2	2	2	0	8	0
	1730	,,	1000·1	985·1	..	36·8	32·8	31·8	47·0	76	..	4·5	.	7·5	0	1	28	0	0	5	9	2	9	3	1	2	0
Cuttack	0830	27	1005·0	1002·0	—0·2	31·5	27·0	25·1	31·9	69	—1	3·5	—0·4	4·1	0	0	15	0	1	0	0	0	13	1	0	16	0
	1730	,,	1001·4	998·4	..	34·6	27·0	23·8	29·5	54	..	4·4	..	8·5	0	0	25	0	1	0	0	9	15	0	0	6	0

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Chandbali	0830	6	1005·2	1004·5	+0·6	30·7	26·7	25·0	31·7	71	−2	4·0	−0·7	7·5	0	0	29	0	0	2	4	5	18	0	0	2	0
	1730	,,	1002·3	1001·6	..	30·9	26·6	24·7	31·1	73	..	3·8	..	13·6	0	3	27	0	0	2	23	1	4	0	0	1	0
Bolangir	0830	190	1004·4	984·1	..	31·9	25·3	22·4	27·1	57	..	3·8	..	3·8	0	0	31	1	1	1	6	10	8	2	2	0	0
	1730	,,	1001·0	980·6	..	37·5	25·3	19·3	22·4	35	..	5·1	..	3·8	0	0	31	5	4	0	3	6	3	5	5	0	0
Phulbani	0830	464	1002·0	951·7	..	31·0	25·4	22·9	27·9	64	..	2·2	..	0·3	0	0	2	0	0	0	1	0	0	1	0	29	0
	1730	,,	998·0	948·6	..	34·1	26·4	23·0	28·1	55	..	3·1	..	1·8	0	0	10	0	0	0	6	1	2	1	0	21	0
Titlagarh	0830	211	1006·0	982·8	..	32·3	27·8	26·0	33·6	70	..	..	..	3·0	0	0	31	0	9	0	7	2	10	2	1	0	0
	1730	,,	..	..	..	35·9	29·9	27·8	37·4	64	..	..	..	3·0	0	0	31	0	17	0	5	1	6	2	0	0	0
Bhubaneswar	0230	46	1003·1	997·9	..	28·1	26·1	25·3	32·2	84	..	2·5	..	16·9	0	10	18	1	0	0	0	10	17	0	0	3	0
	0530	,,	1003·7	998·5	..	27·6	25·9	25·1	31·9	86	..	4·0	..	14·6	0	7	22	0	1	0	1	8	15	4	0	2	0
	0830	,,	1005·2	1000·0	+1·0	31·4	26·5	24·5	34·6	66	−2	3·3	−1·0	15·9	0	7	24	0	1	1	1	11	15	2	0	0	0
	1130	,,	1004·2	999·1	..	35·5	26·7	22·8	27·7	48	..	3·0	..	17·4	0	13	16	0	0	1	1	10	14	3	0	2	0
	1730	,,	1001·6	996·4	..	32·6	26·3	23·5	28·9	60	..	4·5	..	24·2	0	20	11	1	0	1	2	17	10	0	0	0	0
	2330	,,	1003·9	998·7	..	29·0	26·3	25·1	31·9	80	..	3·1	..	19·4	0	12	18	0	0	0	0	17	13	0	0	1	0
Puri	0830	6	1005·6	1004·9	+0·5	29·9	27·6	26·7	35·0	83	+2	4·0	+0·2	18·1	0	9	22	0	0	1	0	9	21	0	0	0	0
	1730	,,	1002·4	1001·7	..	29·7	27·8	27·1	35·9	85	..	4·5	..	21·6	0	18	13	0	0	0	1	17	13	0	0	0	0
Gopalpur	0530	17	1004·0	1002·1	..	27·3	26·0	25·5	32·6	90	..	5·1	..	9·6	0	7	16	0	0	1	0	6	14	2	0	8	0
	0830	,,	1005·5	1003·6	+0·5	29·9	27·1	26·0	33·6	80	+1	3·8	+1·4	12·1	0	5	23	1	0	0	2	14	10	1	0	3	0
	1130	,,	1005·0	1003·1	..	31·6	27·9	26·5	34·6	74	..	3·5	..	19·9	0	12	19	0	0	1	3	18	9	0	0	0	0
	1730	,,	1002·5	1000·6	..	29·4	26·8	25·7	33·0	81	..	4·9	..	20·5	0	15	15	1	1	0	2	13	13	0	0	1	0
	2330	,,	1004·6	1002·4	..	28·3	26·4	25·6	32·8	85	..	3·8	..	17·4	0	10	19	0	0	0	0	11	15	1	2	2	0
Koraput	0830	913	1491·9	907·6	+0·3	27·9	21·0	17·4	19·9	54	−9	2·3	−0·7	5·4	0	1	30	0	2	0	2	6	16	0	5	0	0
	1730	,,	1463·7	904·6	..	28·9	20·6	16·1	18·3	46	..	4·3	..	5·3	0	1	30	0	3	0	4	6	7	5	6	0	0
Bihar Plateau																											
Dumka	0830	149	1003·3	986·9	−1·0	30·6	25·8	23·7	29·3	67	+5	2·0	−0·7	4·4	0	0	18	0	2	3	7	2	3	1	0	13	0
	1730	,,	999·6	983·3	..	33·5	25·0	20·9	24·7	49	..	2·8	..	5·8	0	0	17	1	1	2	9	2	2	0	0	14	0
Daltonganj	0830	221	1002·3	978·2	−0·9	33·7	21·9	14·9	16·9	33	−7	2·9	+1·5	0·9	0	0	5	0	0	0	0	0	2	2	1	26	0
	1730	,,	996·8	973·2	..	38·8	21·6	9·4	11·8	18	..	4·2	..	2·1	0	0	19	2	2	0	2	1	2	2	8	12	0
Hazaribagh	0830	611	1002·4	936·9	0	31·2	21·1	15·5	17·6	40	−5	4·3	+1·9	10·8	0	1	28	0	0	0	0	3	15	10	1	2	0
	1730	,,	997·9	933·4	..	35·0	20·3	11·0	13·1	26	..	3·8	..	12·1	0	2	25	4	2	1	1	1	2	2	14	4	0
Dhanbad	0830	257	1003·2	974·9	..	30·7	24·2	21·1	25·1	57	..	2·6	..	5·5	0	0	31	0	0	4	2	9	7	8	1	0	0
	1730	,,	998·9	971·1	..	35·5	24·0	17·9	20·5	37	..	3·9	..	9·3	0	4	20	1	0	1	3	6	2	3	0	7	8
Ranchi	0830	655	1002·9	932·5	−0·2	29·8	22·2	18·4	21·1	52	+5	2·1	−0·1	3·6	0	0	27	1	0	1	5	11	8	1	0	4	0
	1730	,,	1000·7	931·0	..	32·5	21·7	16·1	18·3	39	..	4·2	..	2·9	0	0	26	0	1	0	6	2	8	2	7	5	0
Ranchi Aerodrome	0530	652	1002·8	931·6	..	24·5	19·7	17·1	19·5	64	..	3·6	..	5·9	0	0	28	0	0	0	0	3	22	3	0	3	0
	0830	,,	1002·8	932·8	..	29·7	21·1	16·7	19·0	46	..	3·1	..	10·5	0	0	30	0	0	1	0	2	22	5	0	1	0
	1130	,,	1001·3	932·3	..	34·0	21·5	14·5	16·5	31	..	3·0	..	10·9	0	1	30	1	0	0	0	3	20	5	2	0	0
	*1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jamshedpur	0830	129	1003·9	989·6	+0·3	31·1	24·5	21·3	25·3	56	−2	2·8	0	7·7	0	0	28	0	1	1	1	0	8	15	2	3	0
	1730	,,	998·6	984·7	..	37·1	23·9	16·5	18·8	32	..	5·0	..	8·1	0	1	26	0	1	6	8	2	5	2	3	4	0
Jamshedpur (P.B.O.)	0530	142	1002·7	986·8	..	27·3	22·6	21·8	26·1	73	..	4·6	..	2·5	0	0	13	0	1	5	2	1	2	2	0	18	0
	0830	,,	1003·8	988·1	..	31·3	24·5	21·2	25·2	56	..	2·7	..	5·6	0	0	25	0	1	2	0	11	10	1	0	6	0
	1130	,,	1002·4	987·0	..	36·4	24·9	19·1	22·1	37	..	3·6	..	8·0	0	0	30	0	1	0	0	11	11	6	1	1	0
	1730	,,	998·6	983·3	..	37·0	24·2	17·3	19·7	33	..	5·3	..	7·8	0	0	28	0	5	4	7	5	2	1	4	3	0
	2330	,,	1002·5	986·8	..	29·5	24·2	21·7	25·9	63	..	3·2	..	8·6	0	2	23	0	5	13	1	2	0	2	2	6	0
Chaibasa	0830	226	1003·4	978·5	−0·4	31·4	23·8	19·9	23·2	51	−8	3·8	+1·3	5·9	0	0	30	0	0	0	4	0	24	0	2	1	0
	1730	,,	998·5	974·2	..	36·5	23·9	16·9	19·3	33	..	5·6	..	5·2	0	0	26	0	4	0	9	0	12	0	1	5	0
Bihar Plains—																											
Motihari	0830	66	1003·5	996·1	−0·7	29·6	25·1	23·1	28·3	68	+5	(d) 3·5	+1·9	(d) 6·7	0	0	23	0	1	16	4	1	1	0	0	4	0
	1730	,,	1000·2	992·8	..	32·8	26·5	23·7	29·3	60	..	(c) 3·5	..	(c) 4·6	0	0	23	3	5	8	5	0	1	0	1	5	0
Forbesganj	0830	61	1004·8	997·9	..	27·1	23·4	21·5	25·6	73	..	4·4	..	9·1	0	0	31	1	2	24	4	0	0	0	0	0	0
	1730	,,	1000·3	993·6	..	30·8	25·3	22·7	27·9	63	..	2·2	..	5·0	0	0	30	0	4	22	1	0	3	0	0	1	0
Darbhanga	0830	49	1004·1	998·7	−0·4	30·8	24·8	22·0	26·4	60	−4	1·1	−1·3	5·0	0	0	30	2	7	17	4	0	0	0	0	1	0
	1730	,,	999·8	994·2	..	32·9	26·0	23·0	28·1	57	..	0·6	..	3·6	0	0	27	4	17	4	0	0	0	1	1	4	0
Chapra	0830	..	..	..	..	30·9	24·4	21·3	25·3	59	..	1·1	..	6·5	0	0	29	0	13	10	5	0	0	1	0	2	0
	1730	..	..	..	..	37·9	23·7	15·6	17·7	27	..	0·7	..	3·2	0	0	25	1	6	4	2	0	1	4	7	6	0
Purnea	0830	38	1004·8	1000·6	−0·5	27·9	23·9	22·0	26·4	71	−1	3·8	+0·4	7·6	0	0	30	1	4	24	1	0	0	0	0	1	0
	1730	,,	1000·4	996·2	..	31·3	25·6	23·0	28·1	62	..	1·9	..	5·9	0	0	27	1	10	16	0	0	0	0	0	4	0
Patna	0830	53	1003·2	997·3	−0·8	29·6	23·8	20·9	24·7	60	+2	1·9	+0·1	9·0	0	1	29	0	16	8	5	0	0	0	1	1	0
	1730	,,	998·5	992·8	..	37·8	24·0	16·3	18·5	29	..	1·1	..	5·5	0	0	24	2	9	2	1	0	0	6	4	7	0

*Data not available.

(d) Mean of 27 days.

(c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains-(*Contd.*)																											
Patna Aerodrome .	0530	60	1001·3	994·5	..	26·1	23·1	21·6	25·8	77	..	1·9	..	10·8	0	3	23	1	2	20	3	0	0	0	0	5	0
	0830	,,	1002·9	996·2	..	30·4	24·1	21·0	24·9	58	..	1·5	..	15·1	0	6	24	0	4	19	5	1	1	0	0	1	0
	1130	,,	1002.1	995·5	..	35·6	24·6	19·0	22·0	39	..	1·2	..	14·0	0	5	26	1	6	13	2	3	1	2	3	0	0
	1730	,,	997·9	991·4	..	38·1	23·4	14·7	16·7	27	..	0·8	..	10·4	0	0	30	2	4	7	1	0	0	1	15	1	0
	2330	52	1001·5	995.7	..	29.0	24·4	22·2	26·7	69	..	0·6	..	9·0	0	0	26	0	0	21	3	0	0	2	0	5	0
Bhagalpur . .	0530	49	1002·8	997·2	..	25·7	22·9	21·5	25·6	78	..	3·0	..	9·6	0	2	25	0	1	15	10	0	0	1	0	4	0
	0830	,,	1004·4	998·9	+0·5	29·6	24·4	21·9	26·3	64	+4	3·1	+0·4	10·8	0	5	24	1	1	21	5	1	0	0	0	2	0
	1130	,,	1003·4	998·0	..	34·2	25·3	21·1	25·0	48	..	2·9	..	10·8	0	4	25	1	6	17	3	0	0	2	0	2	0
	1730	,,	999·5	994·1	..	34·9	25·2	20·4	24·0	44	..	2·6	..	10·1	0	3	23	4	10	10	0	1	0	0	1	5	0
	2330	,,	1002·5	997·0	..	28·3	23·8	21·5	25·6	68	..	1·6	..	11·5	0	3	26	0	2	13	13	1	0	0	0	2	0
Sabaur . .	0830	37	1003·9	999·7	−0·3	29·3	25·3	23·5	28·9	71	−7	2·9	−0·9	10·3	0	2	29	3	4	19	3	0	2	0	0	0	0
	1730	,,	999·0	994·9	..	34·9	26·4	22·7	27·6	51	..	2.0	..	6·9	0	0	29	10	2	15	0	1	0	0	1	2	0
Jamui . .	0830	82	1000·4	991·2	..	33·0	26·0	22·9	27·9	58	..	0·8	..	4·7	0	0	27	2	0	17	6	0	0	0	2	4	0
	1730	,,	994·1	985·0	..	37·7	25·8	20·1	23·5	38	..	0 8	..	4·7	0	0	29	3	0	7	4	0	1	2	12	2	0
Dehri . . .	0830	107	1002·4	990·6	..	33·9	23·7	18·3	21.0	41	..	1·6	..	3·3	0	0	31	0	4	2	8	4	9	1	3	0	0
	1730	,,	997.9	986.4	..	39·0	28·9	24·9	31·5	47	..	1·6	..	3·9	0	0	31	5	3	1	1	1	2	4	14	0	0
Gaya . . .	0230	116	1000·7	987·8	..	28·3	22·7	19·7	22·9	60	..	1·0	..	5·9	0	0	25	0	4	9	7	2	2	1	0	6	0
	0530	,,	1001·3	988.6	..	26·8	21·9	19·2	22·2	64	..	1·7	..	4·5	0	0	24	0	3	4	6	7	3	0	1	7	0
	0830	,,	1002·8	990·0	−0·3	33·6	24·8	20·5	24·1	48	+12	2·1	+0·5	7·8	0	1	26	0	1	7	2	4	8	3	2	4	0
	1130	,,	1001·9	989·2	..	39·0	25·5	18·7	21·6	32	..	1·8	..	11·3	0	4	26	3	0	5	3	1	1	10	7	1	0
	1730	,,	998·1	985·6	..	39·7	25·0	17·2	19·6	29	..	2·1	..	13·7	0	7	24	12	3	2	1	1	2	0	10	0	0
	2330	,,	1001·2	998·0	..	30·8	23·0	18·8	21·7	50	..	1·1	..	7·1	0	2	22	0	3	12	4	2	1	2	0	7	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich .	0830	124	1002·8	989·0	−0·6	30·4	22·1	17·1	19·9	46	−5	1·0	−0·2	15·3	0	3	24	0	0	19	6	0	1	1	0	4	0
	1730	,,	998·4	984·8	..	38·3	22·4	11·4	14·1	22	..	1·1	..	6·2	0	0	30	1	0	1	2	0	0	22	4	1	0
Nautanwa . .	0830	99	1003·0	992·1	..	28·0	23·0	20·2	24·0	65	..	0·3	..	5·4	0	0	27	1	6	12	6	0	0	0	2	4	0
	1730	,,	999·8	989·0	..	36·2	26·1	20·6	25·5	43	..	0	..	3·4	0	0	27	1	3	6	3	2	3	1	8	4	0
Hardoi . . .	0830	142	1002·4	986·6	+0·4	30·9	22·1	16·8	19·3	44	+1	0·7	−0·4	5·2	0	0	27	1	0	11	4	4	1	3	3	4	0
	1730	,,	998 0	982·8	..	39·1	24·0	14·8	17·4	25	..	1·0	..	6·1	0	0	28	5	0	1	1	0	1	10	10	3	0
Gonda . .	0830	110	1002·9	990·7	..	31·5	24·3	20 5	24·4	50	+3	0·5	−1·0	5·4	0	0	26	1	1	22	1	0	0	0	1	5	0
	1730	,,	997·8	986·1	..	39·0	23·9	14·8	17·3	25	..	0·7	..	2.5	0	0	17	4	1	1	0	0	0	2	9	14	0
Lucknow .	0830	111	1001·9	989·6	−1·3	29·9	22·3	17·8	20·6	51	+8	1·1	−1·0	2.5	0	0	25	0	9	4	4	1	2	3	2	6	0
	1730	..	998·0	986·1	..	38·6	24·2	16·1	18.4	27	..	0·9	.	3·5	0	0	27	0	4	0	0	0	6	6	8	4	3
Lucknow (Amausi)	0230	128	999·9	985·6	..	27·5	19·5	13·9	16·1	44	..	1·2	..	7·0	0	2	19	2	4	3	1	1	3	1	6	10	0
	0530	,,	1000·8	986·4	..	25·3	19·2	14·9	17·2	54	..	(a) 2·2	.	6·5	0	1	21	1	8	4	2	2	4	0	1	9	0
	0830	,,	1002·4	988·2	−0·9	31·5	21·7	15·4	17·9	40	+4	1·4	+0·2	15·2	0	7	23	2	3	10	5	3	1	2	4	1	0
	1130	,,	1001·9	988·1	..	37·6	22·8	13·2	15·7	25	..	0·9	..	14·2	0	6	24	2	2	6	6	0	3	4	7	1	0
	1730	,,	997·7	984·0	..	38·9	22·5	11·4	13·8	21	..	1·3	..	5·6	1	7	20	5	1	1	0	0	2	6	13	3	0
	2330	,,	1000 3	986·1	..	29·4	20·3	14·3	16·4	41	..	1·3	..	5·7	0	2	16	5	0	3	0	1	4	2	3	13	0
Faizabad . .	0830	102	1002·7	991·4	..	30·4	23·2	19·1	22·5	52	..	1·2	..	7·2	0	0	30	1	3	3	19	1	0	2	1	1	0
	1730	,,	997·8	986·8	..	37.4	24·1	16·4	19·1	30	..	1·2	..	3·9	0	0	26	2	0	0	1	0	2	8	13	5	0
Gorakhpur	0830	77	1002·3	993·9	−1·5	31·1	24.2	21·7	24·4	55	−3	1·1	−0·3	..	0	0	29	0	5	12	3	1	0	0	0	2	8
	1730	,,	997.6	989·0	..	38·7	23·9	15·2	17·1	28	..	0·7	..	..	0	0	24	0	3	1	0	0	1	2	1	7	16
Gorakhpur P.B.O.	0230	78	1000 8	992·0	..	28·1	21·6	18·4	21·3	57	..	0·5	..	7·4	0	1	27	0	15	8	5	0	0	0	0	3	0
	0530	,,	1001·8	993·0	..	26·6	21·3	18·9	21·8	64	..	0·9	..	6·5	0	1	27	1	15	8	2	0	0	0	2	3	0
	1130	,,	1002 6	994·0	..	35·1	24·1	19·4	22·5	41	..	1·1	..	7·6	0	2	29	0	4	6	11	6	4	0	0	0	0
	2330	,,	1001·0	992·3	..	29·8	22·4	19·0	21·8	53	..	0·7	..	8·1	0	2	27	2	14	7	3	1	0	0	2	2	0
Kanpur .	0830	126	1002·9	989·0	−0·1	31·2	21.7	15·7	18·1	40	+3	1·2	+0·5	6·1	0	0	31	1	4	6	4	1	3	11	1	0	0
	1730	,,	998·7	985·2	..	40·6	23·7	13·4	15·5	21	..	1·6	..	10·6	0	3	28	8	3	1	1	0	1	9	8	0	0
Kanpur (Aerodrome)	0530	126	1001·1	986·7	..	27·1	18·8	12·6	15·0	42	..	2·1	..	6·8	0	3	17	4	1	2	1	0	3	6	3	11	0
	0830	,,	1002·5	988·4	..	33·3	21·0	12·4	14·9	30	..	1·2	..	7·0	0	4	27	1	3	5	4	2	5	7	4	0	0
	1130	,,	1002·0	988·3	..	38·9	22·5	11·1	13·8	21	..	0·7	..	14·4	0	6	25	4	2	1	3	1	4	7	9	0	0
	1730	,,	998·2	984·4	..	40·2	22·1	8·7	11·7	16	..	1·7	..	13·0	0	6	25	2	2	2	0	0	1	9	15	0	0
	2330	,,	1000·8	986·5	..	31·1	20·2	12·4	14·8	33	..	1·4	..	5·3	0	1	14	1	2	1	2	2	0	3	4	16	0
Sultanpur . .	0830	97	1003·3	992·5	..	31·0	22·9	17·9	21·3	47	..	1·1	..	2·8	0	0	26	0	1	16	1	1	1	4	2	5	0
	1730	,,	998·2	987·8	..	39·5	24·2	14·8	17·6	24	..	0·8	..	2·8	0	0	23	0	2	1	0	0	2	7	11	8	0

(R) Register not received.

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in k. m. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Azamgarh	0830	78	1002·3	993·7	..	30·8	25·2	22·6	27·4	63	..	1·0	..	5·5	0	0	31	1	0	27	0	0	0	3	0	0	0
	1730	,,	998·0	989·5	..	39·8	27·2	21.1	25·6	37	..	0.6	..	4·4	0	0	27	3	0	2	0	0	0	22	0	4	0
Fatehpur	0830	114	1002·5	989·9	..	33·6	22·3	15·2	17·7	34	−10	1·0	−0·3	6·8	0	0	29	3	4	3	6	2	2	7	2	2	0
	1730	,,	998·0	985 8	..	39·9	23·3	12·6	15·1	21	..	1·4	..	10·1	0	2	27	4	4	1	1	0	0	5	14	2	0
Ballia	0830	64	1003·3	996·4	..	30·6	25·5	23·6	28·4	65	..	0·7	..	2·6	0	0	20	1	4	13	2	0	0	0	0	11	0
	1730	,,	999·4	992·5	..	37·3	29·0	18·4	21·1	33	..	0·2	..	1·5	0	0	12	1	1	4	1	0	0	4	1	19	0
Banda	0830	121	1001·3	988·2	..	33·9	22·1	14·5	17·0	32	..	1·0	..	2·1	0	0	31	0	2	0	8	0	9	3	9	0	0
	1730	,,	997·1	984·5	..	41·1	23·8	13·4	15·3	21	..	1·2	..	2·6	0	0	31	0	1	0	4	0	6	0	20	0	0
Allahabad (Bamhrauli)	0230	98	1000·1	989·3	..	28.9	20·5	15·0	17·3	44	..	1·0	..	1·8	0	0	13	1	3	2	1	0	4	1	1	18	0
	0530	,,	1001·1	990·2	..	27·3	20·4	15·9	18·3	51	..	1·7	..	2·8	0	0	16	3	2	4	1	1	3	1	1	15	0
	0830	,,	1002·6	991·8	−0·9	33·7	22·6	15·8	18·3	36	0	1·3	−0·1	4·8	0	1	21	2	3	1	3	2	6	5	0	9	0
	1130	,,	1001·9	991·4	..	39·7	23.3	12·6	15·1	22	..	1·6	..	7·2	0	1	24	0	2	2	2	1	4	7	7	6	0
	1730	,,	997·9	987 6	..	40·4	23·0	11·5	13·8	19	..	1·6	..	8·1	0	1	27	9	5	0	0	0	2	1	11	3	0
	2330	,,	1000·6	989.7	..	31·2	21·1	14·7	16·7	38	.	1·4	..	1·9	0	0	12	3	1	2	0	0	4	2	0	19	0
Varanasi (Babatpur)	0530	85	1001·9	992·2	..	26·7	20·4	16·1	18·8	54	..	1·8	..	5·6	0	0	25	1	7	3	5	2	3	1	3	6	0
	0830	,,	1003·5	994.0	+0·9	33·0	23·1	17·3	20·1	41	+3	1·5	+0·1	10·8	0	3	26	0	0	7	8	4	3	3	4	2	0
	1130	,,	1002·7	993·3	..	38·1	22·9	13·1	15·5	24	..	1·4	.	13·3	0	6	24	2	3	4	0	2	5	4	10	1	0
	1730	,,	998·7	989·5	..	39·8	22·7	11·1	13·6	19	..	1·0	..	16·0	0	11	19	7	2	0	0	0	1	3	17	1	0
	2330	,,	1001·3	991·8	..	31·7	21·3	14·3	16·8	36	..	0·7	..	9·7	0	8	15	3	3	6	3	2	4	0	2	8	0
Varanasi	0830	76	1002·6	994·0	−0 9	31·4	23·1	18·3	21·4	47	+2	2·0	+0·6	2·5	0	0	30	0	7	2	7	1	2	10	1	1	0
	1730	,,	997·7	989·5	..	39·9	24·2	14·8	17 3	24	..	1·4	..	2·5	0	0	28	7	0	1	1	0	1	8	10	3	0
Uttar Pradesh (West)																											
Mukhim (R)	0830																										
(R)	1730																										
Tehri (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun	0530	682	1002·1	927·1	..	22·1	15·3	10·1	12·4	48	..	2·1	..	2·7	0	0	25	12	9	0	1	0	1	1	1	6	0
	0830	,,	1002·3	928·7	..	28·0	18·7	12·6	14·8	39	−5	1·3	−0·6	1·0	0	0	15	2	2	0	2	3	3	3	0	16	0
	1130	,,	1001·5	929·1	..	33·2	19·7	10·9	13·0	26	..	2·0	..	4.6	0	0	31	3	2	2	7	3	6	7	1	0	0
	1730	,,	997·5	925·7	..	34·3	20·2	11·1	13·4	25	..	2·1	..	2·5	0	0	27	1	1	1	1	2	13	6	2	4	0
	2330	,,	1001·7	927·3	..	25·4	16·8	10·5	12·9	41	..	1·1	..	4·7	0	0	29	14	11	2	1	0	0	0	1	2	0
Mansiari (R)	0830																										
(R)	1730																										
Roorkee	0830	274	1003·4	973·1	+0.2	28·8	19·6	13·1	15·4	39	0	2·8	+1·5	1·3	0	0	21	0	0	0	6	0	0	0	15	10	0
	1730	,,	1000·4	971·1	..	38·2	22·2	11·2	13·7	21	..	3·3	..	1·7	0	0	24	0	0	0	2	0	0	0	22	7	0
Najibabad	0830	270	1002·7	973·0	..	29·8	19·7	13·2	14·8	39	.	2·2	..	3·3	0	0	25	0	5	1	7	0	7	1	4	6	0
	1730	,,	998·4	969·5	..	38·5	21·6	9 3	12·0	18	.	2·0	..	4·1	0	0	26	0	1	0	1	0	17	3	4	5	0
Meerut	0830	222	1004·0	979·2	+0·8	28·4	20·9	16·2	18·6	48	+8	1·2	0	3·9	0	0	27	5	5	2	4	0	0	8	3	4	0
Bareilly	0830	173	1002·4	983·3	−0·6	31·6	21·2	14·1	16·7	36	−10	0·9	−0·5	4·5	0	0	25	2	3	8	2	2	1	4	3	6	0
	1730	,,	997·8	979·2	..	39·0	22·0	10·1	12·5	19	..	1·4	..	3.2	0	0	21	0	0	2	0	1	2	13	3	10	0
Bareilly (P.B.O.)	0230	172	999·9	980·8	..	28·5	18 6	12·4	14·4	38	..	(a) 1·0	..	4.6	0	0	24	4	4	8	1	0	0	5	2	7	0
	0530	,,	1001·0	981·6	..	26·4	18·2	13·1	15·1	44	..	1·7	..	4·4	0	0	23	1	2	9	3	0	0	5	3	8	0
	1130	,,	1001·8	983·1	..	36·0	21·6	13·3	15·3	27	..	(a) 1·0	..	6·1	0	0	30	3	2	7	3	0	0	8	7	1	0
	2330	,,	1000·3	981·3	..	30·4	19·3	12·4	14·4	34	..	(b) 1·1	..	6·6	0	0	21	0	2	6	1	1	0	8	3	10	0
Aligarh	0830	187	1002·5	981·8	..	31·7	20·8	13·3	15·3	34	+3	1·8	+1.1	2·8	0	0	30	6	0	9	0	0	0	6	9	1	0
	1730	,,	998·2	978·2	..	39·4	22·8	11·4	14·2	15	..	2·3	..	3·7	0	0	28	14	0	0	0	1	0	8	5	3	0
Mainpuri	0830	157	1002·4	985·1	−0·4	33·1	21·2	13·3	15·5	32	−5	0·5	−0·9	0·7	0	0	11	0	0	0	3	0	2	5	1	20	0
	1730	,,	997·8	981·1	..	39·6	23·1	12·0	14·7	21	..	0·3	..	1·4	0	0	18	0	1	0	2	0	1	0	14	13	0
Agra	0830	169	1002·8	984·2	—0·3	33·0	23·0	17·2	19·9	41	+14	0·4	−0.7	1·1	0	0	5	1	0	0	0	0	1	0	3	26	0
	1730	,,	998·2	980·2	..	40·2	25·1	16·8	19·1	27	..	1·5	..	5·4	0	0	13	2	0	0	0	0	4	0	7	18	0
Agra (Aerodrome)	0530	169	1001·2	981·9	..	26·2	18·4	12·6	14·9	45	..	1·5	..	5·3	0	0	21	2	0	3	2	0	2	8	4	10	0
	0830	,,	1002·7	983·7	..	32·3	20.8	12·9	15·2	32	..	1·2	..	1·1	0	2	27	2	0	1	2	2	3	12	7	2	0
	1130	,,	1002·2	983·7	..	38·6	22·0	10·0	12·9	21	.	1.0	..	14.3	0	4	24	4	1	2	1	2	1	5	12	3	0
	1730	,,	998·2	979·9	..	40·0	21·1	5.3	8·9	14	..	1·8	..	13·9	0	4	24	8	1	0	0	0	1	3	15	3	0
	2330	,,	1000·9	982·0	..	30·7	19·4	11·3	13·4	31	..	1·6	..	9·7	0	2	21	3	4	3	0	1	0	8	4	8	0
Orai (R)	1830	141																									
(R)	1730	,,																									
Jhansi	0830	251	1002·3	974·9	−1·2	34·1	22·2	15·0	17·1	32	+2	1·3	+0·1	1·7	0	0	16	9	0	0	0	0	0	6	1	15	0
	1730	,,	997·8	971·2	..	41·1	22·0	7·5	10·8	14	..	2·8	..	3·2	0	0	31	8	0	0	0	0	0	14	9	0	0

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1001·6	966.7	..	24·0	16·0	9·0	11·7	40	..	2·3	..	5·6	0	3	19	1	10	7	0	0	1	3	0	9	0
	0830	,,	1002·1	967·9	+0·5	30·8	18·5	8·6	11·3	27	+2	2·3	−0·2	4·9	0	0	26	1	16	6	3	0	0	0	0	5	0
	1130	,,	1001·5	967·9	..	35·7	20·0	7·6	10·6	19	..	2·4	..	5·8	0	0	30	0	4	2	7	5	10	2	0	1	0
	1730	,,	999·2	965·7	..	35·7	19·2	3·8	8·8	18	..	3·1	..	15·7	0	8	23	2	5	1	0	0	8	9	6	0	0
Amritsar (Rajasansi)	0530	234	1001·7	975·1	..	21·6	16·6	12·6	14·9	58	..	1·5	..	6·6	0	1	18	3	8	4	0	0	0	2	2	12	0
	0830	,,	1002·4	976.4	+0·4	29·0	19·5	12·7	14.9	38	−1	1·7	0	6·5	0	3	14	3	5	4	1	0	1	1	2	14	0
	1130	,,	1002·0	976·6	..	35·1	21·4	11.9	14·3	27	..	1·6	..	10.1	0	0	29	3	2	5	2	4	1	3	9	2	0
	1730	,,	999.1	973·8	..	36.3	21·0	9.9	12·3	24	..	1·8	..	12·6	0	6	22	1	2	2	1	0	3	6	13	3	0
Adampur (Aerodrome).	0530	23																									
	0830	,	1000·7	974·7	..	29·4	20·4	14.4	16·6	43	..	(a) 2·2	..	7·8	0	3	24	2	3	2	9	1	3	2	4	4	1
†	1130																										
	1730	,,	997·8	972·4	..	36·0	23·0	14.8	17·5	32	..	(a) 2·7	..	22·1	0	14	16	4	2	1	0	0	2	4	17	1	0
†	2330	,,																									
Ludhiana	0830	247	1002·1	974·6	−0·8	28·2	18·6	11·4	13·7	36	−2	1·5	+0.3	0·9	0	0	8	2	1	1	2	0	0	2	0	23	0
	1730	,,	998·5	972·0	..	33·1	21·2	9·4	11·4	19	..	2·6	..	5·4	0	0	30	4	3	1	0	1	2	8	11	1	0
Ferozepore	0830	200	1001·9	979·6	..	26·9	20.8	17·0	19·5	55	..	0·9	..	2·1	0	0	19	5	7	0	0	2	2	0	3	12	0
	1730	,,	998·5	977·0	..	37.4	24·5	17.1	20·1	31	..	0·7	..	3·1	0	0	27	12	5	1	0	0	0	0	9	4	0
Halwara (Aerodrome).	0830	242	1003·0	976·3	..	30·4	20·1	12·8	15.1	35	..	1.5	..	10·4	0	3	28	7	4	2	4	1	2	6	5	0	0
	1730	,,	1002.0	974·3	..	37·9	22·1	10·9	13·7	21	..	2.3	..	16·5	0	9	21	6	0	1	2	0	0	4	17	1	0
Chandigarh	0830	347	1001·5	963.8	+0·5	32·2	21.5	14·4	16·9	35	+3	1.0	+0·2	(a) 6.7	0	0	26	0	3	1	10	0	1	0	11	4	0
	1730	,,	998·2	961·1	..	34·2	21.7	11·9	14·2	25	..	2·0	..	9·7	0	1	30	0	2	0	7	0	4	0	18	0	0
Ambala.	0830	272	1002·0	972.3	−0·4	32·0	20·3	12.6	14·3	32	+1	0·6	−0·7	3·0	0	0	18	0	6	0	9	0	0	0	3	13	0
	1730	,,	998·2	969·3	..	37·3	22·6	13.5	15·5	26	..	0·5	..	2·5	0	0	22	0	8	0	12	0	1	0	1	9	0
Ambala (P.B.O.)	0230	278	1000·0	969·2	..	27·7	17·6	10·8	13·2	37	..	1·4	..	7·2	0	3	22	6	2	4	2	0	3	3	5	6	0
	0530	,,	1000.4	969·9	..	26·0	16·9	10.8	13.2	40	..	2.1	..	6·2	0	0	26	4	5	2	4	0	4	2	5	5	0
	1130	,,	1001.5	971·5	..	35.6	20·6	11.9	13·7	25	..	1.6	..	9·5	0	3	27	1	1	0	12	1	1	2	9	1	3
	2330	,,	1000.3	969·8	..	30·4	18·5	11.3	13.2	32	.	1.6	..	8·4	0	1	27	7	5	2	2	1	0	2	9	3	0
Ambala (Aerodrome).	0530	274	1000·8	970·3	..	23.8	16·7	10·9	13.2	47	..	1·8	..	1·5	0	0	23	2	2	4	2	0	1	1	9	8	2
	0830	,,	1001·7	971·5	..	30·9	19·2	10.3	12.7	29	..	1·7	..	2.2	0	0	29	2	3	6	2	0	1	3	9	2	3
	1130	,,	1001.4	971·8	..	36·2	21·0	9·9	12.4	21	..	1·7	..	3·0	0	0	29	1	1	2	9	0	2	3	9	2	2
	1730	,,	997·9	968·5	..	37·7	20·7	6·6	10·6	14	..	2·5	..	3.1	0	0	28	0	0	1	2	2	1	9	13	3	0
	2330	,,	1000.5	970·1	..	27·7	18·0	10·2	12·7	35	..	(b) 1·2	..	1·9	0	0	26	2	2	4	1	0	1	1	15	5	0
Patiala	0830	251	1002.4	974·8	..	31·0	20·3	12.9	15·1	34	..	(b) 1·4	..	3.8	0	0	19	1	1	0	6	0	1	1	9	12	0
	1730	,,	998.6	971·7	..	37·3	21·7	11·2	13.2	23	..	(c) 2·0	..	8.0	0	0	28	1	1	0	3	0	0	1	22	3	0
Bhatinda	0830	211	1002.1	979·4	..	32·8	22·1	16·1	17.8	34	..	(a) 0·8	..	5.0	0	0	19	1	1	0	2	3	7	0	5	12	0
	1730	,,	998.4	975·8	..	38·2	23·4	14.0	16·6	25	..	(b) 0·9	..	3·4	0	0	21	2	0	0	1	1	1	0	16	10	0
Karnal	0830	249	1002.2	974.6	..	31·1	20·3	12.5	15·7	33	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	997·8	971·0	..	37·8	21·3	10.0	11·8	20	..	0·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1001.4	976·6	..	25.2	17·6	11.7	13·9	45	..	1.5	..	8·0	0	1	30	7	3	0	2	2	10	6	1	0	0
	0830	,,	1002.7	978·3	−0·2	30.1	20·7	14.4	16·7	40	+4	1.3	+0·3	6·6	0	2	28	3	0	2	1	8	9	5	2	1	0
	1130	,,	1002.1	978.3	..	37.3	22.4	12.6	14·9	24	..	1·0	..	9·1	0	2	29	1	2	2	2	4	6	7	7	0	0
	1730	,,	998·6	974·9	..	38·3	21·7	9·8	12·3	20	.	3·1	..	10.2	0	1	30	7	1	0	2	2	5	11	3	0	0
	2330	,,	1001·2	976·7	..	29·4	19·1	11.5	13·7	35	..	0.8	..	6.5	0	1	26	4	7	2	1	1	3	6	3	4	0
New Delhi (Safdarjung)	0230	216	1000·3	976·3	..	28·7	19·2	12.3	14.6	37	..	1.1	..	7·0	0	2	20	1	0	1	1	0	3	10	6	9	0
	0530	,,	1001·1	977·0	..	26·9	18·6	12.5	14.7	42	..	2.0	..	7·3	0	2	19	0	0	1	1	0	5	9	5	10	0
	0830	,,	1002·6	978·8	−0·3	31.2	20·8	13·8	16.1	36	+6	(a) 1·6	0·5	13.1	0	8	20	4	2	1	1	0	3	10	7	3	0
	1130	,,	1002·2	978·8	..	36·8	22·7	13.8	15.8	26	..	(b) 1.5	..	13·2	0	7	21	3	1	2	2	0	1	6	13	3	0
	1730	,,	998·3	975·1	..	38·7	22·6	12.1	14.3	21	..	2·4	..	15·8	0	12	17	4	1	1	1	0	4	2	16	2	0
	2330	,,	1000·5	976·7	..	31·1	20·0	12·3	14.3	33	..	(b) 2·0	..	8.3	0	3	21	2	1	2	2	1	4	2	10	7	0
Palam (Aerodrome)	0230	238	1000·3	974·4	..	27·7	19·0	12·6	14.9	40	..	1.1	..	9.4	0	2	25	2	0	3	1	5	6	7	3	4	0
	0530	,,	1001·2	975·1	..	25.6	18·0	12.3	14.5	45	..	1.9	..	9.0	0	1	30	2	0	3	2	9	8	3	4	0	0
	0830	,,	1002·6	976·9	..	31·3	21.3	14·5	17·3	38	..	1·5	..	15.2	0	5	26	7	2	2	0	1	7	9	3	0	0
	1130	,,	1002·0	976·9	..	37·4	23·0	13.9	16.3	26	..	1·4	..	18·2	0	8	23	4	3	1	0	2	2	9	10	0	0
	1430	,,	999·8	974·9	..	39·6	23·5	13·2	15·8	22	..	(a) 2·1	..	20·7	0	13	18	3	1	1	1	0	2	14	9	0	0
	1730	,,	998·2	973·2	..	38·5	22·9	12·3	14·6	21	..	(b) 2·0	..	20·2	0	13	18	7	1	0	0	2	4	5	12	0	0
	2030	,,	999·6	974·3	..	33·9	21·6	13·3	15·8	30	..	(b) 2·6	..	14·0	0	5	23	6	6	1	0	2	6	2	5	3	0
	2330	,,	1000·5	974·8	..	30·9	20·1	12·3	14·7	34	..	(a) 1·7	..	11·7	0	5	25	7	1	4	2	5	5	4	2	1	0

†Data not available. (a) Mean of 30 days. (R) Register not received. (b) Mean of 29 days. (c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Himachal Pradesh—																											
Mandi	0830	761	1004·2	921.3	+0 6	24·6	16·6	10·7	12·4	48	−3	1·8	−0.3	0·1	0	0	3	0	0	0	1	0	0	0	2	28	0
	1730	,,	998·0	917·7	..	32·9	18·9	7·9	10·4	24	..	3·0	..	0·3	0	0	5	0	0	0	2	0	0	1	2	26	0
Bilaspur	0860	493	1003 4	949·4	..	28.4	18·8	12 6	14·7	39	..	1·6	..	0·2	0	0	2	1	0	0	0	0	0	1	0	29	0
	1730	,,	998·7	946 3	..	34·9	21·2	12·8	15·1	28	..	2·7	..	3.7	0	0	7	3	1	2	0	0	0	0	0	24	1
Jammu and Kashmir—																											
Misgar (R)	0830	3106																									
(R)	1730	,,																									
Gilgit (R)	0830	1491																									
(R)	1730	,,																									
Skardu . (R)	0830	2286																									
(R)	1730	,,																									
Leh . .	0530	3514	3103·7	666·0	..	4·1	—0·8	−8·6	3.1	39	..	2.1	..	7.7	0	0	28	11	16	0	1	0	0	0	0	3	0
	0830	,,	3106·8	666·9	—0.4	9·1	—3·0	−5·7	4·0	36	—2	(a) 2.8	—0·7	4·8	0	0	20	1	4	0	1	4	9	0	1	11	0
	1730	,,	3070·9	664·4	..	12·7	−5·7	−1·8	5·2	37	..	5.8	..	9·8	0	0	30	3	4	1	1	3	12	2	4	1	0
Srinagar	0830	1587	1494·1	840·9	+0.7	15·2	12·1	9·8	12·3	72	−6	3.8	+0·9	2·5	0	0	18	0	0	2	5	3	2	2	4	13	0
	1130	,,	1489 4	840·6	..	19·8	14·0	10.0	12·3	55	..	3·8	..	2·5	0	0	15	1	2	0	1	2	1	3	5	16	0
	1730	,,	1468·6	838·6	..	20·6	13·8	9·1	11·4	51	..	5·5	..	5·4	0	2	18	4	2	0	4	1	1	3	5	11	0
Srinagar . . (Aerodrome)	0530	1666	1479·9	831·9	..	11·1	8.9	6·8	9·8	76	..	4·0	..	5·7	0	0	26	1	2	2	1	9	2	8	1	5	0
	0830	,,	1466.3	832.8	..	15.2	11.4	8·2	10·2	66	..	3·8	..	4.3	0	0	25	3	5	8	0	2	0	3	4	6	0
	1130	,,	1482·1	832·7	..	19·0	13·3	9·0	11·8	53	..	4·1	..	5.4	0	0	28	5	3	7	0	2	1	3	7	3	0
	1730	..	1462·0	830·7	..	19·6	12·7	7·4	10.1	46	..	5·8	..	11·5	0	3	24	2	1	0	4	4	1	2	13	4	0
	2330	,,	1480·3	832·1	..	13·6	10·4	7·7	10.6	69	..	2·9	..	4·4	0	1	18	1	1	0	0	3	0	11	3	12	0
Gulmarg . .	0830	2655							Closed During Winter Months																		
	1730	,,																									
Banihal	0830	,,	..	..	..	17·3	11·8	7·3	10·2	54	..	3·2	..	2·9	0	0	15	2	0	0	0	0	0	9	4	16	0
	1730	..	..	..	..	20·9	13·1	7·0	10·1	44	..	5·6	..	3·3	0	0	17	2	0	0	0	0	0	12	3	14	0
Jammu	0830	..	..	..	..	31·5	20·0	11·9	14·0	33	—2	..	..	3·6	0	0	31	9	12	3	4	3	0	0	0	0	0
Jammu(Aerodrome	0530	292	1001·4	968·5	..	25·1	15·9	7·7	10·4	35	..	2·6	..	8·3	0	2	21	5	15	0	0	1	1	0	1	8	0
	0830	,,	1001·9	969·6	..	29·8	18·1	8·5	11·9	28	..	2·6	..	9·2	0	3	24	4	17	3	0	2	1	0	0	4	0
	1130	,,	1001·7	970·0	..	34·2	18·9	5·3	9·5	19	..	2·8	..	7·9	0	0	29	3	6	2	2	3	4	4	5	2	0
	1730	,,	999 2	967·5	..	35·2	19·3	5·1	9·4	19	..	3·2	..	10.7	0	2	28	4	3	2	0	0	2	12	7	1	0
	2330	,,	1000·9	968·5	..	28·2	17·2	7·7	10·7	30	..	1·7		5.9	0	2	14	3	7	1	0	0	1	1	3	15	0
Rajasthan (West)																											
Ganganagar .	0530	177	1001·0	981·1	..	25·2	17·5	11·4	13·7	43	..	1·3	..	3·7	0	1	23	2	6	3	3	3	6	0	1	7	0
	0830	,,	1002·2	982 6	+0.1	30·0	19·5	11·9	14·1	35	+2	1·0	0	4·5	0	1	23	2	3	0	3	2	10	1	3	7	0
	1130	..	1001·8	982·7	..	37·8	21·2	8·5	11·5	18	..	1.5	..	6·3	0	1	29	3	4	1	5	3	9	3	2	1	0
	1730	,,	998·4	979·4	..	39·2	21·0	6·6	10·0	15	..	1·6	..	4·2	..	0	27	5	4	3	0	1	2	7	5	4	0
	2330	..	1001·0	981·4	..	29·3	19·2	11·7	14·0	35	..	1·3	..	3·6	..	1	18	6	6	2	0	0	2	2	1	12	0
Anupgarh . (R)	0830	,,																									
(R)	1730	..																									
Mahajan .	0830	,,	..	..	..	33·3	21·9	14·7	16·7	34	..	0·3	..	(a) 6·1	0	1	29	3	4	3	6	4	9	0	1	1	0
	1730	..	..	..	..	39·7	23·4	14·0	15 5	24	..	1·3	..	(b) 7·2	0	1	29	3	2	0	0	3	10	8	4	1	0
Churu . .	0830	291	1003·1	971·2	..	31·2	22·9	18·0	21·1	46	..	1·9	..	12·4	0	8	22	4	0	6	2	4	4	9	1	1	0
	1730	,,	998·5	967·5	..	39·4	23·6	13·8	16·7	24	..	2·8	..	17 2	0	11	20	9	0	0	0	0	4	12	6	0	0
Bikaner . .	0830	224	1002·7	978·0	—0.3	30·9	19·0	8·7	12·3	29	−3	0·8	—0·1	7·9	0	1	30	3	3	4	9	0	4	7	1	0	0
	1730	,,	998·3	974·4	..	41·0	20·8	2·7	8·1	11	..	1·4	..	8·6	0	3	28	7	1	0	4	0	2	6	11	0	0
Bikaner (P.B.O.)	0530	224	1001·4	976·4	..	27·0	18.1	10·7	13·6	39	..	2·0	..	4·9	0	3	13	1	3	0	1	2	9	0	0	15	0
	1130	,,	1001·9	977·8	..	38·7	21·6	8·3	11·9	19	..	1·7	..	6·3	0	3	17	1	4	1	0	1	8	5	0	11	0
	2330	,,	1000·8	976·3	..	32·4	19·0	8·5	11·6	25	..	1·4	0·0	5·2	0	2	12	1	4	0	0	1	6	0	1	17	1
Nagaur . .	0830	298	1002·9	970·2	..	31·0	21·8	15·2	18.6	40	..	1·6	..	10·4	0	5	26	2	3	5	3	7	7	2	2	0	0
	1730	,,	998·2	966·7	..	40·0	23·8	13·9	16·2	23	..	2·8	..	11·0	0	4	27	4	1	0	0	6	8	8	4	0	0
Phalodi .	0830	234	1003·3	977.5	..	30·0	21 8	16·3	19·3	46	..	1·0	..	22·5	0	16	14	2	2	2	3	4	12	4	1	1	0
	1730	,,	999·5	974.6	..	40·8	25·9	17·3	20·8	28	..	2.4	..	23·1	0	18	13	3	1	1	0	2	8	10	6	0	0
Jaisalmer . .	0830	242	1002·8	976.1	..	30·7	22·4	17·7	20·2	48	..	0.9	..	16·6	0	9	22	2	3	0	3	12	9	2	0	0	0
	1730	,,	998·3	972.7	..	41·1	25·1	16·0	18·8	26	..	1·7	..	20·5	0	11	19	5	2	0	0	9	9	3	2	1	0
Jodhpur . .	0230	224	1001·4	976.8	..	31·3	19·8	11·0	13·7	30	..	1.4	..	10·5	0	4	22	2	4	0	0	1	11	6	2	5	0
	0530	,,	1002.0	977.1	..	29·0	19·6	12·6	15·2	39	..	1·8	..	10·1	0	4	22	3	4	1	1	3	10	3	1	5	0
	0830	,,	1003.	978.9	+0·7	31·7	21·3	14·1	16·6	38	—4	1.6	+0·6	11·7	0	6	21	1	5	3	1	1	11	4	1	4	0

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—(*Contd.*)																											
Jodhpur—(*Contd.*)	1130	224	1003·0	978·8	..	38·0	22·3	11·4	14·0	23	..	1·3	..	15·4	0	7	23	2	1	1	3	4	13	4	2	1	0
	1730	,,	998·8	974·9	..	41·1	21·9	7·4	9·7	14	..	2·0	..	14·1	0	8	21	3	1	1	1	0	11	8	4	2	0
	2330	,,	1001·6	977·1	..	33·7	20·1	9·6	12·4	24	..	1·4	..	10·6	0	4	23	4	2	1	0	2	12	5	1	4	0
Barmer (R)	0530	194																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Munabao	0830	80	(d) 1004·0	(d) 995·1	..	(d) 30·3	(d) 24·9	(d) 22·3	(d) 27·3	(d) 65	..	(c) 0·7	..	(c) 15·9	0	11	17	1	0	0	0	4	21	2	0	0	0
	1730	,,	(c) 999·2	(c) 990·5	..	(d) 3·9	(d) 25·4	(d) 17·1	(d) 21·1	(d) 27	..	(d) 1·9	..	(d) 4·8	0	5	23	0	0	0	1	1	22	3	1	0	0
Rajasthan (East)																											
Filani	0830	301	1002·9	970·0	..	31·5	19·7	10·6	13·4	30	..	0·7	..	17·2	0	8	23	2	4	2	5	2	1	13	2	0	0
	1730	,,	998·7	966·5	..	39·0	20·3	3·2	8·6	13	..	2·3	..	19·9	0	7	24	7	3	2	1	1	0	10	7	0	0
Sikar	0830	433	1003·2	956·4	..	32·3	24·0	19·4	22·9	47	..	2·3	..	3.7	0	0	29	1	1	6	2	0	3	14	2	2	0
	1730	,,	998·6	952·8	..	38·1	25·3	17·9	21·6	33	..	2.5	..	3.1	0	0	28	0	1	1	1	1	3	16	5	3	0
Alwar	0830	271	1001·5	971 8	..	32·5	23·5	18·6	21·7	45	..	1·5	..	2·2	0	0	16	4	1	0	0	0	2	7	2	15	0
	1730	,,	998.7	969·6	..	38·8	25·6	18.6	21·7	33	..	(c) 3·5	..	3·2	0	1	19	1	3	2	0	1	1	4	8	11	0
Jaipur (Sanganer)	0230	390	1001·1	958·1	..	28·0	18·0	10·0	12·5	34	0	1.0	..	5·5	0	1	21	3	5	5	0	0	1	5	3	9	0
	0530	,,	1001·5	958·5	..	26·7	17·8	10·5	13·1	39	..	1·2	..	8·2	0	2	22	5	3	3	1	0	1	7	4	7	0
	0830	,,	1002·7	960·2	−1·3	32·1	20·5	11·7	14·6	31	−6	(a) 1·0	..	11·5	0	6	20	1	3	4	4	1	1	8	4	5	0
	1130	,,	1001·8	960·2	..	37·2	21·0	7·8	11·6	18	..	1·5	..	12·6	0	6	25	2	1	2	3	3	3	10	7	0	0
	1730	,,	998·1	956·8	..	38·3	20·8	6·3	10·3	16	..	2·9	0	11·1	0	4	27	1	2	1	0	0	5	9	13	0	0
	2330	,,	1001·1	958·6	..	30·4	19·0	10·0	12·7	30	..	1·1	..	5·9	0	1	24	4	5	4	0	0	4	7	1	6	0
Dholpur	0830	176	1002.0	982·8	..	33·9	22·3	15·1	17·5	34	..	1·1	..	8·6	0	4	21	3	0	0	1	1	5	10	5	6	0
	1730	,,	997·2	978·5	..	40·5	23·3	12·8	14·6	20	..	2·0		8·6	0	2	27	8	1	0	0	1	1	8	10	2	0
Ajmer	0830	486	1003·0	950·4	−1.1	31·0	19·0	10·3	12·2	30	−9	1·9	+ •	13·8	0	9	19	0	2	1	3	5	11	6	0	3	0
	1730	,,	999·2	947·7	..	38·6	19·3	0·5	6·7	18	..	2·5	..	10 3	0	1	30	5	0	0	1	1	11	10	3	0	0
Tonk	0830	272	1002·0	972·2	..	32·6	25·3	21·4	26·3	54	..	0·9	..	8 8	0	3	26	1	1	2	2	2	3	9	9	2	0
	1730	,,	997·0	968·1	..	40·4	23·6	12·9	15·4	21	..	1·9	..	9·4	0	2	29	1	0	1	0	0	3	11	15	0	0
Bhilwara	0830	..	..	..	..	31·0	20·0	12·0	14·4	33	..	1·5	..	5·8	0	1	25	2	1	2	0	2	11	5	3	5	0
	1730	..	..	..	..	39·3	20·5	5·2	8·8	14	..	3·1	..	6·4	0	0	28	5	1	1	1	1	5	5	8	3	1
Kota (Aerodrome)	0530	274	1001·9	971·6	..	29·7	19·4	11·2	14·1	35	..	1.5	..	12·2	0	5	25	1	0	2	0	2	7	15	3	1	0
	0830	,,	1003·2	973·4	..	33·8	22·0	13·7	16·8	33	..	0·8	..	15·2	0	11	16	4	1	1	2	1	5	10	3	4	0
	1130	,,	1002·7	973·3	..	39·1	22 4	9·6	13·5	20	..	0·8	..	17·4	0	10	21	0	3	3	3	2	3	7	10	0	0
	1730	,,	998·5	969·4	..	41·0	22·8	8·8	12·9	18	..	2·5	..	15·9	0	11	20	4	4	0	0	4	5	7	7	0	0
	2330	,,	1001·5	971·6	..	33·9	20·6	10·2	13·4	26	..	1·1	..	11·7	0	6	24	3	5	1	1	1	7	10	2	1	0
Kota	0830	257	1002·9	975·0	−0·9	34·7	21 2	11·7	14·1	26	−3	0·9	0	6·8	0	0	23	0	0	0	3	1	1	9	9	8	0
	1730	,,	998·8	971·5	..	40·0	21·7	7·9	11·0	15	..	2·4	..	4·2	0	0	22	0	0	0	0	1	4	4	13	9	0
Erinpura (Jawai Dam)	0830	295	1004·7	972·2	..	30·7	26·0	23·8	29·7	68	..	1·4	..	6·3	0	1	26	0	0	2	5	6	6	7	1	4	0
	1730	,,	999·7	968·2	..	38·7	23·5	14·2	16·5	24	..	1·	..	10·4	0	5	23	0	1	1	0	1	8	16	1	3	0
Chambal (Rawat Bhatta Dam)	0830	351	1003·5	965·2	..	32·2	20·7	12·4	15·1	32	..	0·	..	4·6	0	2	21	0	0	0	0	2	5	7	9	8	0
	1730	,,	998·6	961·5	..	40·1	22·2	9·2	12·1	17	..	3·7	..	7·3	0	0	30	3	2	1	0	0	7	7	10	1	0
Udaipur	0230	582	1003·0	939·6	..	27·1	18·3	12·4	14·7	41	..	0·2	..	1·4	0	0	7	0	0	0	0	0	2	4	1	24	0
	0530	,,	1003·6	939·9	..	25·5	18·3	13·6	15·8	49	..	1·2	..	1·1	0	0	7	0	0	0	0	0	2	3	2	24	0
	0830	,,	1004·0	941·3	−0·8	31·0	20·4	14·0	16·2	37	−8	0·7	+0.3	2·6	0	0	10	0	0	0	0	0	6	2	2	21	0
	1130	,,	1002·9	941·3	..	36·2	20·9	10·9	13·2	23	..	0·9	..	4·3	0	0	24	1	1	2	0	1	10	6	3	7	0
	1730	,,	999·1	938·0	..	37·4	21·2	10·5	13·3	21	..	2·6	..	4·4	0	0	22	0	1	1	0	0	11	6	3	9	0
	2330	,,	1003·0	940·1	..	29·8	19·3	12·5	14·7	36	..	0·7	..	2·3	0	0	11	0	0	0	0	0	1	9	1	20	0
Jhalawar	0830	321	1003·1	968·1	−0·6	32·4	21·1	13·1	15·9	33	−10	1·4	+0·6	2·9	0	0	22	1	1	1	2	1	6	9	1	9	0
	1730	,,	998·3	964·4	..	40·5	22·1	8·1	11·5	16	..	2·6	..	4·6	0	0	29	1	2	0	1	1	7	6	11	2	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1000·7	977·8	..	28·7	18·1	9·3	12·1	30	•	1·9	..	2·9	0	0	15	1	1	1	0	1	3	6	2	16	0
	0530	,,	1001·2	978·2	..	28·2	17·9	9·5	12·2	33	..	1.8	..	5·4	0	2	19	0	0	1	2	6	3	8	1	10	0
	0830	,,	1002·3	979·7	0	34·4	20·7	10·7	12·9	25	+1	1·4	+0·5	11·2	0	8	21	4	1	1	0	5	5	7	6	2	0
	1130	,,	1001·9	979·7	..	39·2	21·7	8·5	11·7	17	..	1·0	..	10·2	0	5	26	3	2	1	2	2	4	7	10	0	0
	1730	,,	997·9	975·9	..	40·5	21·0	4·5	8·4	12	..	2·2	..	9·4	0	2	28	7	2	1	0	1	0	7	12	1	0
	2330	,,	1001·2	978·4	..	30·7	18·9	9·7	12·2	28	..	1 0	..	4·5	1	0	12	2	1	1	2	1	2	2	2	18	0
Sheopur	0830	235	1003·1	977·4	+0·4	33·4	22·1	14·9	17·4	34	+6	1·5	+0·3	9·6	0	4	27	2	1	1	3	11	7	5	1	0	0
	1730	,,	997.8	973·2	..	40·6	22·9	10·9	13·4	18	..	2·3	..	13·5	0	4	27	5	2	0	0	1	4	9	8	0	2

(R) Register not received.

(d) Mean of 27 days.

(c) Mean of 28 days.

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloudamount (Oktas): Mean amount	Cloudamount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Shivpuri	0830	464	1002·6	952·5	..	32·5	20·4	12·9	15·1	32	..	1·3	..	12·8	0	3	28	0	2	3	3	8	3	11	1	0	0
	1730	"	998·1	949·0	..	38·5	20·1	7·0	10·1	16	..	2·7	..	11·5	0	1	30	3	5	0	1	2	4	5	11	0	0
Nowgong	0830	229	1002·7	978·0	—0·4	32·7	21·2	13·6	15·6	33	0	1·5	—0·4	7.4	0	0	28	0	0	1	1	5	14	4	2	3	1
	1730	"	997·8	973.3	..	40·6	22·2	8·6	11·2	16	..	3·2	..	8·3	0	0	31	5	2	0	0	2	4	6	12	0	0
Guna	0530	478	1002·4	949·8	..	26·2	17·5	11·3	13·7	40	..	2·1	..	6·3	0	1	25	0	0	5	9	5	3	3	1	5	0
	0830	"	1002·8	951·4	—0.3	33·4	20·8	12·5	14·9	29	0	1·5	+0.7	9·6	0		26	0	1	4	5	1	4	11	3	2	0
	1130	"	1001.5	951.0	..	38·6	21·6	10·8	12·4	20	..	0·9	..	14.1	0	10	20	1	2	1	2	1	3	8	12	1	0
	1730	"	997·8	947·3	..	39·1	20·7	7·9	11·0	16	..	3.5	..	16·6	0	10	21	5	2	0	1	1	1	10	11	0	0
	2330	"	1001·8	949·8	..	30·1	18·2	9·7	12·2	29	..	1·6	..	7·2	0	3	21	1	3	2	6	1	5	3	3	7	0
Nirmach	0830	496	1004·2	950·4	—0·7	31·1	19·8	11·8	14·9	35	—12	1·3	+0·5	16.5	0	11	17	0	6	0	1	0	9	10	1	3	1
	1730	"	999·0	946·8	..	38·8	19·8	4·8	9·3	14	..	3·1	..	15·6	0	10	21	1	5	1	0	1	5	11	1	0	6
Rajgarh	0830	382	1003·0	961·6	..	32·4	21·9	15·0	17·7	37	..	0·4	..	8·1	0	2	29	8	0	3	0	5	2	12	1	0	0
	1730	"	997.8	957.7	..	40 4	22·5	9·5	12·6	17	..	2·4	..	8·1	0	0	31	12	0	1	0	1	2	14	1	0	0
Sagar	0830	551	1002·7	943.5	—0.7	32·2	20·7	13·6	15·6	34	+3	1·0	—0.4	11·5	0	7	19	0	1	4	2	0	4	12	3	5	0
	1730	"	997·4	939·6	..	38·0	20·4	8·4	11·0	17	..	3·2	..	4·7	0	0	27	0	0	0	1	0	0	13	13	4	0
Ratlam	0830	486	1004·4	951·6	—0.4	30·5	22·2	17·6	20·8	49	—9	1·6	—0.4	13·2	0	6	25	3	2	1	0	1	6	16	2	0	0
	1730	"	999·3	947·0	..	38·4	22·6	13·9	15·8	25	..	2·5	..	12·4	0	2	29	2	5	0	0	1	8	10	5	0	0
Bhopal (Bairagrh)	0230	523	1001·9	944·8	..	27·9	18·2	11·6	13·8	38	..	2.2	..	10·8	0	2	25	1	2	2	3	4	1	4	10	4	0
	0530	"	1002·8	945·4	..	26·3	18·1	12·4	14 8	43	..	3·3	..	11·0	0	4	25	3	1	1	1	4	4	3	12	2	0
	0830	"	1003·6	947·1	—0.6	31·8	21·3	15·2	17·3	38	+7	2·5	+1.6	18.0	0	15	14	3	3	0	2	4	5	3	9	2	0
	1130	"	1002·1	946·8	..	37·1	22·0	13·1	15·3	25	..	2·1	..	17.4	0	13	17	10	1	0	0	5	5	3	6	1	0
	1730	"	998·0	943·1	..	38·3	21·4	10·5	12·7	20	..	4·7	..	18·3	0	13	18	7	3	0	0	2	1	3	15	0	0
	2330	"	1002·2	945·6	..	30·2	19·0	11·5	13·7	33	..	3·0	..	11.9	0	6	22	3	4	2	1	3	1	6	8	3	0
Ujjain	0830	..	..	..	..	31·3	21·0	14·6	15·3	39	..	2·0	..	16·5	0	10	16	2	0	0	0	0	1	12	11	5	0
Narsinghpur	0830	356	1003·2	964·0	..	29·1	21·7	17·3	20·0	50	..	1·0	..	2·6	0	0	25	5	0	3	0	8	2	7	0	6	0
	1730	"	998·4	960·7	..	39·7	26·0	19·3	22·4	31	..	1·1	..	3·5	0	0	31	9	0	7	0	2	1	12	0	0	0
Hoshangabad	0830	302	1004·2	971·2	—0.7	31·8	23·9	19·7	22·9	50	+18	1·5	+0·3	6·2	0	0	31	3	4	2	3	3	8	5	3	0	0
	1730	"	998·2	966·1	..	39·8	26·4	19.2	22·2	31	..	3·5	..	7·5	0	0	31	4	3	0	1	1	10	7	5	0	0
Indore	0530	567	1003·3	941·2	..	26·1	18·2	12·3	15·1	45	..	1·3	..	17.1	0	12	17	1	0	0	0	2	9	15	2	2	0
	0830	"	1003·9	942·7	—1.3	30·6	20·6	14·2	16·2	40	—8	1·7	+0.7	22·3	0	18	12	3	0	1	0	1	6	15	4	1	0
	1130	"	1002·5	942·5	..	36·4	21·0	10·5	12·7	24	..	1·5	..	17·8	0	11	19	1	3	1	0	3	5	10	5	1	2
	1730	"	998·1	938·7	..	38·2	20·5	7·4	10·3	17	..	3·1	..	19·9	0	17	14	5	2	1	0	0	7	8	8	0	0
	2330	"	1002·7	941·4	..	29·6	18·4	10·0	12·9	31	..	1·2	..	14·4	0	7	21	3	0	1	0	3	8	11	2	3	0
Rajpur (Jhabua)	0830	293	1005·9	973·5	..	29·9	23·3	19·5	23·2	56	..	2·1	..	16·7	0	14	16	0	0	0	0	0	9	21	0	1	0
	1730	"	1000·1	968·9	..	39.0	23·3	13·0	15·7	23	..	2·0	..	15.8	0	9	22	0	0	1	0	2	8	18	2	0	0
Chhindwara	0830	685	1003·6	930·2	+0·2	31·0	21·5	16·3	18·6	43	+7	2·8	+0·5	9·0	0	4	22	2	1	0	1	3	2	5	12	5	0
	1730	"	998·4	926·4	..	35·3	22·0	14·5	16·7	31	..	4·4	..	6·6	0	0	26	2	5	0	0	2	4	6	7	5	0
Seoni	0830	619	1003·2	936·7	—0·7	30·8	21·7	16·4	19·3	44	+15	4·4	+2.8	4·6	0	0	31	3	4	1	6	3	9	3	2	0	0
	1730	11	998·2	932·9	..	34·8	22·5	15·0	18·2	34	..	4·7	..	3·5	0	0	31	5	5	0	4	3	6	2	6	0	0
Betul	0830	653	1004·5	934·1	+0.1	29·3	20·5	15·2	17·6	44	+6	2·4	—0·2	7·9	0	1	28	1	1	0	7	0	5	3	12	2	0
	1730	"	998·4	929·9	..	36·4	20.8	10.4	13·1	23	..	4·0	..	7.1	0	0	31	4	5	0	2	1	4	8	7	0	0
Khandwa	0830	318	1004·6	969·9	—0·8	32·3	23·4	18·6	21·6	45	+5	3·1	+2·0	4·6	0	0	30	1	0	1	0	1	8	14	5	1	0
	1730	"	998·5	964·8	..	40·2	24·4	15.5	17·6	25	..	4·3	..	3·1	0	0	31	5	1	0	1	0	9	7	8	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1001·7	966·6	..	27·6	19·8	14·5	16·7	46	..	1·7	..	3·6	0	2	15	2	0	0	0	2	3	8	2	14	0
	0830	"	1002·2	967·8	—0·6	33·5	22·7	15·9	18·8	36	+6	1·4	—0·2	3·0	0	0	25	0	1	2	0	4	2	12	4	6	0
	1130	"	1001·2	967·4	..	39·2	23·7	13·7	16·6	24	..	1·2	..	6·5	0	2	28	7	0	4	1	2	3	7	6	1	0
	1730	"	997·4	963·8	..	39·9	23·7	13·1	16·1	22	..	2·9	..	5.5	0	1	30	9	0	0	1	2	1	13	5	0	0
	2330	"	1001·0	966·3	..	31·6	21·1	14·1	16·5	35	..	1·0	..	4·3	0	1	22	5	1	4	2	3	2	4	2	8	0
Sidhi	0830	272	1001·8	972·6	..	33·4	21·3	13·3	15·5	30	..	0·3	..	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	"	996 9	968·0	..	39·9	21 9	8·6	11·5	16	..	1·0	..	0·4	0	0	3	0	0	0	0	0	1	0	2	28	0
Umaria	0830	459	1002·5	953·0	..	33·0	23·7	19·1	22·4	46	+20	1·8	—0·2	5·4	0	0	29	2	3	1	3	1	10	4	2	2	3
	1730	"	997·4	949·0	..	38·4	24·2	16·6	19·7	30	..	4·5	..	7·0	0	0	31	4	1	0	3	2	4	7	8	0	2
Jabalpur	0530	393	1002 2	958·9	..	27·1	19·8	14·9	17·1	49	..	3.5	..	2·3	0	0	17	0	0	0	4	7	3	3	0	14	0
	0830	"	1003·2	960·6	—0.4	32·5	22.1	15·6	17·7	37	+8	1.9	+0·7	6·9	0	0	29	0	1	1	5	8	6	7	1	2	0
	1130	"	1001·6	959·9	..	38·4	23·5	14·3	16·7	26	..	1·7	..	8·2	0	2	27	2	0	0	4	3	10	7	3	2	0
	1730	"	997.8	956·2	..	38 1	22·6	12·8	14·8	23	..	4·7	..	8.6	0	2	27	4	4	0	2	5	3	6	5	2	0
	2330	"	1001·6	958·7	..	30·1	21.1	15·2	17·6	42	..	2·8	..	3·8	0	0	20	1	2	2	2	5	2	5	1	11	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh East—(*Contd.*)																											
Ambikapur	0830	611	1003·5	937·7	+0·4	30·6	20·7	15·1	17·1	40	+4	2·1	+0·9	4·5	0	0	28	1	0	0	0	7	13	7	0	3	0
	1730	,,	998·1	933·7	..	35·4	20·5	9·8	13·1	25	..	2·9	..	5·7	0	0	30	10	1	1	3	0	8	3	4	1	0
Pendra	0530	625	1002·5	934·5	..	26·3	18·3	12·9	15·2	46	..	4·6	..	6·2	0	2	26	2	1	2	2	10	5	4	2	3	0
	0830	,,	1003·1	936·0	−0·5	30·6	20·6	14·7	16·7	40	+7	3·1	+1·2	6·7	0	1	28	2	0	1	1	8	9	4	4	2	0
	1130	,,	1001·4	935·5	..	36·0	21·1	11·7	14·1	25	..	3·5	..	10·0	0	5	26	5	1	0	1	8	6	5	5	0	0
	1730	,,	998·4	932·4	..	34·4	20·0	9·9	12·2	27	..	5·9	..	6·3	0	1	29	5	1	1	3	3	4	6	7	1	0
	2330	,,	1002·2	934·6	..	28·2	18·8	12·3	14·8	41	..	3·3	..	5·5	0	2	26	1	0	0	0	8	11	5	3	3	0
Mandla	0830	443	1003·7	955·6	+0·3	31·1	21·4	15·4	17·5	40	+5	2·4	−0·1	3·0	0	0	20	3	0	0	0	15	0	1	1	11	0
	1730	,,	998·0	951·1	..	37·3	21·4	9·9	12·2	21	..	3·6	..	6·2	0	0	29	10	0	1	2	6	1	0	9	2	0
Champa	0830	245	1004·3	977·5	+1·0	32·6	23·1	17·6	20·1	43	+7	3·7	+1·1	6·7	0	2	27	1	0	5	3	4	2	9	5	2	0
	1730	,,	998·5	972·3	..	39·1	23·0	12·5	14·9	22	..	4·7	..	5·5	0	1	27	7	0	4	0	1	1	5	10	3	0
Raigarh	0830	220	1003.8	979·7	+0·7	33·3	23·7	18·3	21·0	42	+1	2·7	−0·2	2·6	0	0	26	2	6	1	2	3	7	2	3	5	0
	1730	,,	998·0	974·5	..	39·2	24·1	14·5	16·5	24	..	3·9	..	1·5	0	0	16	3	3	0	0	0	4	0	6	15	0
Raipur	0530	298	1002·7	969·8	..	28·4	22·0	18·3	21·1	56	..	4·5	..	5·5	0	0	24	1	0	1	3	9	7	2	1	7	0
	0830	,,	1004·3	971·8	+0·6	32·2	23·5	18·7	21·6	46	+13	3·4	+1·3	8·6	0	0	30	0	0	0	1	5	8	11	4	1	1
	1130	,,	1002·7	971·0	..	37·0	24·5	17·7	20·5	34	..	3·5	..	8.8	0	1	30	2	0	0	2	3	9	9	5	0	1
	1730	,,	998·9	967·0	..	36·9	23·7	15·7	17·8	32	..	5·4	..	8·2	0	0	28	6	0	1	4	3	7	5	2	3	0
	2330	,,	1002·5	969·8	..	31·1	22·7	17·8	20·8	48	..	4·2	..	10·0	0	3	28	1	0	3	6	10	8	1	2	0	0
Kanker	0830	402	1004·6	960·7	+0·7	30.3	24·3	21·4	25·5	60	+20	3·5	+0·4	3·4	0	0	20	0	1	0	2	4	9	1	3	11	0
	1730	,,	999·5	956·6	..	36·1	26·1	21·4	25·6	46	..	3·8	..	2·3	0	0	18	0	1	1	5	0	6	3	2	15	0
Jagdalpur	0530	553	1004·3	943·4	..	24·3	21·2	19·7	22·9	76	..	5·0	..	1·6	0	1	6	0	2	0	0	1	3	0	1	24	0
	0830	,,	1005·0	945·0	+0·2	29·0	22·5	19·3	22·4	57	+2	3·5	+0·8	4·1	0	1	16	1	1	0	1	2	9	1	2	14	0
	1130	,,	1003·4	944·3	..	33·4	23·2	18·2	20·9	41	..	3·0	..	9·3	0	3	28	3	3	2	0	4	8	5	6	0	0
	1730	,,	1000·3	941·3	..	32·1	22·7	17·9	20·5	45	..	6·2	..	8·9	0	2	27	1	2	2	3	8	5	4	4	2	0
	2330	,,	1003 9	943·6	..	26·5	21·8	19·4	22·7	66	..	3·6	..	3·8	0	0	13	0	0	2	6	5	0	0	0	18	0
Gujarat Region—																											
Deesa	0830	136	1005·2	990·0	−1·1	30·5	24·1	20·8	24·6	59	..	1·1	..	7·0	0	2	27	0	1	0	2	4	5	10	7	2	0
	1730	,,	1000·2	985·6	..	40·4	24·3	15·4	17·1	24	..	1·2	..	9·5	0	3	28	0	4	0	1	2	4	15	5	0	0
Radhanpur	0830	30	1005·3	1001·9	..	30·0	26·7	25·2	32·2	77	..	1·5	..	11·7	0	6	24	3	1	0	1	1	10	10	4	1	0
	1730	,,	1000·7	997·5	..	40·5	27·3	21·3	25·3	34	..	0·3	..	8.3	0	4	21	2	0	0	0	0	7	12	4	6	0
Idar	0830	219	1005·1	980·9	..	30·4	22·2	17·0	20·1	48	..	1·6	..	6·5	0	0	27	1	0	0	5	1	3	17	0	4	0
	1730	,,	999·8	976·4	..	39·7	21·6	7·5	11·0	16	..	1·3	..	7·2	0	0	30	0	1	2	0	0	5	21	1	1	0
Ahmadabad	0230	55	1003·4	997·2	..	30·2	22·1	17·0	20·0	47	..	0·7	..	13·2	0	4	25	1	0	0	0	0	6	15	7	2	0
	0530	,,	1003·9	997·7	..	28·0	22·8	19·9	23·5	63	..	1·4	..	11·7	0	2	27	1	0	0	0	4	4	12	8	2	0
	0830	,,	1005·7	999·5	−1·5	30·4	24·3	21·2	25·3	59	−11	2·3	+0·7	17.5	0	13	18	1	0	0	1	2	7	9	11	0	0
	1130	,,	1005·3	999·2	..	36·7	24·4	17·4	20·5	34	..	2·2	..	17·0	0	9	22	1	2	0	0	2	4	14	8	0	0
	1730	,,	1000·5	994·5	..	41·2	23·3	10·6	13·9	18	..	2·2	..	18·0	0	14	16	2	0	1	1	2	6	9	9	1	0
	2330	,,	1003·7	997·5	..	32·7	22·6	15·8	19·3	40	..	0·8	..	14·1	0	7	21	1	0	0	0	2	9	9	7	3	0
Dohad	0830	333	1004·8	968·2	−1·1	30·2	21·7	15·9	19·0	46	−12	1·8	+0·1	22·9	0	19	12	0	1	0	1	1	6	20	2	0	0
	1730	,,	999·7	964·3	..	38·8	21·7	9·4	12·0	18	..	1·5	..	19·5	0	16	15	3	2	0	1	1	10	13	1	0	0
Baroda Aerodrome	0830	38	1005·9	1001·7	..	31·0	24·8	21·7	26·3	59	..	2·7	..	11·7	0	2	29	2	0	0	0	2	15	6	6	0	0
	*1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1000·8	996·7	..	39·6	24·1	14·2	17·0	25	..	2·4	..	12·1	0	4	27	0	0	0	1	0	17	6	7	0	0
Baroda	0530	34	1004·5	1000·5	..	27·9	23.6	21·3	25·6	68	..	1·6	..	2·7	0	0	19	0	0	0	1	0	12	1	5	12	0
	0830	,,	1006·2	1002·3	−0·6	31·5	24·9	21·5	26·1	57	−8	2·1	+0·1	4·8	0	0	29	0	0	1	0	1	12	9	6	2	0
	1130	,,	1005·7	1001·9	..	37·6	25·3	18·8	22·1	35	..	1·7	..	3·9	0	0	27	1	0	0	1	0	11	8	6	4	0
	1730	,,	1001·1	997·4	..	40·3	24·5	14·9	17·8	25	..	1·3	..	4·7	0	0	27	0	1	0	1	1	11	9	4	4	0
	2330	,,	1004·3	1000·4	..	31·0	24·0	20·2	14·1	55	..	0·4	..	5·8	0	0	25	0	0	0	0	1	18	4	2	6	0
Broach	0830	17	1005·6	1003·7	−0·8	29.3	25·3	23·0	28·9	70	−1	1·9	0	5·4	0	0	31	0	2	0	0	3	23	1	2	0	0
	1730	,,	1001·5	999·6	..	37·7	24·5	16·7	20·0	32	..	1·0	..	8·6	0	0	31	0	1	0	1	0	19	7	3	0	0
Surat	0530	12	1004·7	1003·4	..	27·6	25·4	24.4	30·5	83	..	2·8	..	7·5	0	1	29	2	2	1	4	7	11	2	1	1	0
	0830	,,	1006·8	1005·4	−1·1	30·7	25·8	23·9	29·3	67	+1	3·2	+0·2	6·9	0	0	29	5	3	0	1	5	11	4	0	2	0
	1130	,,	1006·5	1005.2	..	34·8	26·2	22·0	26·9	50	..	3·4	..	12·1	0	4	27	1	2	1	0	5	14	4	4	0	0
	1730	,,	1002·9	1001·7	..	34·5	26·3	22·2	27·6	53	..	3·1	..	13·6	0	4	27	0	0	0	0	6	20	3	2	1	0
	2330	,,	1005·2	1003·9	..	29·2	26·5	25·4	32·2	80	..	2·5	..	17·5	0	13	18	0	1	0	1	8	17	1	3	0	
Saurashtra and Kutch																											
Bhutakia Bhimasar	(R)0830	47																									
	(R)1730	,,																									

*Data not available.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—(*Contd.*)																												
Nailiya	0830	21	1005·5	1003.1	..	29·0	26·0	24·6	31·1	78	..	2·8	..	11·3	0	9	15	0	0	0	0	2	13	7	2	7	0
	1730	,,	1003·0	1000·6	..	32·5	26·2	23·3	28·9	59	..	1·6	..	17·4	0	11	20	0	0	0	0	0	23	8	0	0	0
Bhuj (Rudramata)	0230	80	1003·6	994·6	..	27·1	25·0	23·8	30·0	84	..	0·6	..	13·1	0	5	24	0	0	0	0	0	16	12	1	2	0
	0530	,,	1003·9	994·8	..	26·0	24·4	23·3	29·3	88	..	1·6	..	11·7	0	4	23	0	0	0	0	2	11	10	4	4	0
	0830	,,	1005·3	996·3	−0·7	29·9	25.8	24·0	30·0	72	+11	1·5	+0·5	13.9	0	5	23	0	0	0	0	0	9	15	4	3	0
	1130	,,	1005·1	996.3	..	37·1	26·5	21·1	25·9	42	..	1·2	..	16·4	0	11	20	4	0	0	1	4	7	14	5	0	0
	1730	,,	1001·6	992·9	..	37·9	27·5	22·5	28·3	44	..	2·2	..	22.3	0	20	11	1	1	0	0	1	13	12	3	0	0
	2330	,,	1004·6	995·5	..	28·4	25·5	24·2	30·4	79	..	0·8	..	15·2	0	10	19	0	0	0	0	0	16	13	0	2	0
Kandla	0830	35	1005·8	1001·9	..	29·8	25·2	23·0	28·3	68	..	2·5	..	21·8	0	13	18	0	0	0	1	3	17	8	2	0	0
	1130	,,	1005·5	1001·7	..	36·2	25·2	19·4	23·1	39	..	1.7	..	22·5	0	16	14	1	0	0	1	1	18	6	3	1	0
	*1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Kandla	0830	14	1006·2	1004·6	..	28·8	25·5	24.1	30·0	76	..	3·0	..	19.4	0	12	19	1	0	0	0	1	13	15	1	0	0
	1730	,,	1002.6	1001·0	..	34·9	26·3	22·0	27.3	50	..	2·8	..	32·4	0	27	4	0	0	0	0	0	18	13	0	0	0
Mandvi	0830	9	1006·1	1005·0	+0·1	29·0	27·0	26·1	34·0	85	+1	3·6	+1·2	23·4	0	19	11	0	0	0	1	1	17	0	5	1	6
	1730	,,	1003·9	1002·8	..	30·6	28·1	27·2	35·9	83	..	2·8	..	43·1	2	28	1	0	0	0	0	0	23	0	0	0	8
Surendranagar	0830	74	1005·7	997·4	−0·3	30·1	25.5	23·2	29·7	68	+1	1·9	+0·2	15·0	0	6	25	0	0	0	2	6	3	12	8	0	0
	1730	,,	1001·0	993·0	..	40·9	25·0	15·6	18·6	24	..	2·7	..	12·4	0	5	26	2	0	2	1	2	5	13	6	0	0
Jamnagar (Aerodrome)	0530	23	1004·4	1001·8	..	26.4	14·8	24·1	30·0	87	..	2·3	..	14·9	0	4	27	1	0	0	0	3	7	19	1	0	0
	0830	,,	1005.9	1003·4	−0·8	29·4	25·9	24·4	30·4	74	+8	3·3	+1·7	20·1	0	15	16	0	0	0	0	2	7	18	4	0	0
	1130	,,	1006·1	1003.6	..	34·1	26·1	22·4	27.3	52	..	1·7	..	21·1	0	22	9	1	0	1	0	1	1	21	6	0	0
	1730	,,	1002·8	1000·3	..	33·7	25·8	22·1	26·6	53	..	1·7	..	32·0	0	31	0	0	0	0	0	0	2	23	6	0	0
	2330	,,	1005·2	1002·6	..	28·3	25·6	24·5	30·7	80	..	1·1	..	24·7	0	4	27	0	0	0	0	0	6	23	2	0	0
Dwarka	0830	11	1006·2	1004·9	−1·0	28·4	26·6	26·0	33·4	87	+4	2·1	−0·2	14·0	0	5	26	0	0	0	0	4	7	14	6	0	0
	1730	,,	1004·0	1002·7	..	30·3	27·7	26·0	35·0	81	..	1·5	..	20·4	0	18	13	0	0	0	0	2	8	17	4	0	0
Rajkot	0830	138	1006·0	990·6	−0·3	28·7	24·9	24·1	28·4	74	+3	1·6	+0·1	19·3	0	11	20	2	0	0	0	0	15	9	5	0	0
	1130	,,	1005·5	990·4	..	35·2	26·3	22·0	26·9	48	..	0·8	..	19·4	0	9	22	3	2	0	1	0	13	7	4	0	1
	1730	,,	1001·4	986·5	..	38·5	26·1	19·2	23·5	36	..	1·7	..	22·3	0	9	22	0	4	0	0	0	13	9	5	0	0
Bhavnagar Aerodrome	0830	11	1006·3	1005·1	−1·2	30·9	24·6	21.6	25·6	58	+5	1·9	+0·1	20·5	0	17	14	2	0	0	0	3	11	3	12	0	0
	1130	,,	1006·0	1004·8	..	35·8	25·2	20·3	23·4	42	..	2·1	..	20·5	0	17	14	4	4	6	2	3	8	4	0	0	0
	1730	,,	1001·6	1000·4	..	38·3	25·5	18·8	22·1	34	..	2·4	..	33·2	0	25	6	1	2	6	3	7	10	2	0	0	0
Porbander Aerodrome	0830	7	1006·4	1005·6	..	29·5	26·0	24·6	30·7	75	..	4·1	..	18·0	0	15	16	4	0	0	0	2	11	5	9	0	0
	1130	,,	1006·6	1005·8	..	32·2	26·8	24·6	30·9	65	..	2·0	..	24·4	0	21	10	0	0	0	0	3	15	12	1	0	0
	1730	,,	1003.9	1003·1	..	31·3	26·5	24·3	30·7	68	..	2·1	..	27·8	0	28	3	0	0	0	0	3	11	16	1	0	0
Porbander	0830	7	1006·3	1005·5	−0·3	28·4	26·3	25·5	32·6	84	+3	4·2	+1·2	9·0	0	2	29	3	0	0	1	4	5	8	10	0	0
	1730	,,	1004·2	1003.4	..	31·0	27·4	25·9	33·6	75	..	3·9	..	16·4	0	8	23	0	0	0	0	3	10	15	3	0	0
Keshod	0830	51	1006·5	1000·8	..	28·6	25·1	23·5	28·9	74	..	2·7	..	17·5	0	26	5	4	1	0	1	2	8	7	8	0	0
	1130	,,	1006·5	1000·8	..	34·3	24·6	19·3	22·9	43	..	1·9	..	22·4	0	20	11	2	1	0	0	5	5	9	9	0	0
	1730	,,	1003·4	997·8	..	34·8	24·7	19·5	22·8	43	..	1·5	..	36·8	0	30	1	0	0	0	0	2	10	14	5	0	0
Mahuva†	0830	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Veraval	0230	8	1004·8	1003·9	..	26·9	25·7	25·2	32·1	90	..	2·2	..	15·6	0	10	21	3	0	0	0	3	3	9	13	0	0
	0530	,,	1004·9	1004·0	..	26·4	25·4	24·9	31·7	91	..	3·6	..	13·7	0	7	22	7	0	0	0	5	3	4	10	2	0
	0830	,,	1006·6	1005·7	−1·5	28·4	26·1	25·0	31·9	82	0	3·3	+0·9	15·5	0	10	19	2	0	0	1	5	1	7	13	2	0
	1130	,,	1007·0	1006·1	..	30·5	27·2	25·8	33·4	76	..	3·0	..	21·0	0	18	13	0	0	0	1	4	5	14	7	0	0
	1730	,,	1004·0	1003·1	..	29·9	27·2	26·1	33·8	80	..	2·4	.	22·5	0	24	7	0	0	0	0	3	7	13	8	0	0
	2330	,,	1006·0	1005·1	..	27·5	26·1	25·6	32·6	89	..	1·8	..	17·7	0	14	17	1	0	0	0	4	2	9	15	0	0
Konkan Dahanu	0830	5	1006·7	1006.2	−0·6	29·7	26·2	24·4	31.1	73	−5	5·6	+1·3	8·8	0	2	28	0	1	4	9	6	5	4	1	1	0
	1730	,,	1003·9	1003·4	..	31·9	27·3	25·6	32·4	71	..	4·7	..	24·2	0	25	6	0	0	0	0	1	8	17	5	0	0
Bombay (Santa Cruz)	0230	15	1005·1	1003·4	..	27·5	25·1	24·0	29·8	82	..	3·4	..	7·5	0	3	19	1	4	0	0	5	5	5	2	9	0
	0530	,,	1005·3	1003·7	..	27.0	25·0	24·0	30·0	84	..	4·2	..	5·9	0	2	19	1	5	2	3	5	2	3	0	10	0
	0830	,,	1006·9	1005·3	−2·8	24·9	25·7	23.9	29·7	71	−1	4·3	+1·0	7·5	0	1	24	3	1	2	2	5	4	4	4	6	0
	1130	,,	1006·9	1005·3	..	32·3	26·5	23·9	29·8	62	..	3.4	..	17·4	0	11	20	0	0	0	0	2	7	13	9	0	0
	1730	,,	1003·7	1002·1	..	31·2	26·1	23·9	29·7	65	..	3·4	..	21·9	0	23	8	2	0	0	0	1	4	11	13	0	0
	2330	11	1006·3	1004·7	..	28·2	25·5	24·3	30·4	80	..	3·1	..	9·9	0	3	25	2	0	2	1	3	10	5	5	3	0
Bombay	0830	,,	1007·1	1005·9	−1·8	30·0	26·2	24·6	30·9	73	−1	4·5	+1·2	4·2	0	0	26	3	2	2	4	4	5	4	2	5	0
	1130	,,	1007·1	1005·9	..	32·5	27·1	24.9	31·5	65	..	2·9	..	6.6	0	0	31	2	1	0	1	3	5	10	9	0	0
	1730	,,	1003·8	1002·6	..	31·7	27·2	25·2	32·2	69	.	3·4	..	11·7	0	4	27	2	0	0	0	1	5	7	16	0	0

*Data not available.

†Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km.p.h.): Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan (*Contd.*).																											
Alibag	0830	7	1007.2	1006·4	−1·3	29.2	27·0	26.0	33.8	83	+11	3·1	−0·4	9.4	0	3	28	5	5	1	5	10	1	2	2	0	0
Harnai	0830	20	1006·8	1004.6	−0·9	28.7	25.9	24·7	31.1	79	−1	5.6	+1.6	9.1	0	2	28	8	2	1	5	3	1	6	4	1	0
	1730	,,	1004·0	1001·7	..	29·6	27·0	26·0	33·7	81	..	4·6	..	29·6	0	23	8	0	0	0	0	5	3	8	15	0	0
Ratnagiri	0830	35	1007·0	1003·1	−1·9	29·0	26·0	24·9	31·1	79	..	4·3	..	7·5	0	0	30	6	3	3	8	0	0	3	7	1	0
	1730	,,	1004·2	1000·3	..	30·3	27·2	25·8	33·4	77	..	4·6	..	17·1	0	6	25	0	0	0	2	4	3	7	15	0	0
Devgarh	0830	36	1007·1	1003·1	−1·1	28·6	25·9	24·8	31·1	80	+3	5·3	+0·6	14 0	0	8	23	3	4	4	5	2	2	0	11	0	0
	1730	,,	1004·2	1000·2	..	30·5	27·1	25·7	33·4	76	..	4·4	..	26·5	0	25	6	1	0	0	0	4	4	1	21	0	0
Vengurla	0230	9	1005·7	1004·7	..	27·0	25·2	24·5	30·5	87	..	4·6	..	2·9	0	0	9	2	0	0	3	2	0	1	1	22	0
	0530	,,	1005·8	1004·8	..	26·4	25·0	24·4	30·5	89	..	4·6	..	3·5	0	0	17	7	2	2	3	1	0	0	2	14	0
	0830	,,	1007·4	1006·4	−0·8	28·6	25·8	24·7	30·9	80	+7	4·6	−0·2	13·6	0	2	20	6	5	5	0	1	0	0	5	9	0
	1130	,,	1007·4	1006·4	..	31·2	26·7	24·8	31·5	70	..	4·1	..	10·1	0	3	27	1	1	0	1	4	12	6	5	1	0
	1730	,,	1004·5	1003·5	..	30·2	26·5	24·9	31·5	74	..	4·3	..	13·2	0	5	26	1	1	0	1	6	5	10	7	0	0
	2330	,,	1007·3	1006·3	..	27·6	25·6	24·7	30·5	84	..	4·8	..	5·4	0	0	25	4	0	1	6	2	1	6	5	6	0
Madhya Maharashtra																											
Nandurbar	*0830	206	1005·6	982·8	..	30·7	24·6	21·5	25·9	60	..	2·0	..	16·1	0	9	22	0	0	0	0	0	8	22	0	0	0
	†1730	,,	1000·4	978·3	..	39·2	25·2	17·5	20·5	30	..	2·2	.	15·5	0	10	20	0	1	1	0	0	9	13	3	1	0
Jalgaon	0830	201	1005·5	983·2	−0·2	31·4	22·5	18·0	20·0	45	−9	2·2	+0·7	23·3	0	21	10	0	1	1	1	0	3	20	5	0	0
	1730	,,	999·9	978·5	..	41·3	22·7	9·6	12·3	16	..	2·9	..	20·9	0	14	17	5	4	2	1	1	0	14	4	0	0
Malegaon	0830	437	1005·5	957·8	−1·1	30·3	21·3	15·3	17·9	44	−3	2·6	+1·2	9·5	0	2	25	1	0	0	1	0	3	12	10	4	0
	1730	,,	999·6	953·2	..	36·6	22·1	11·4	14.7	29	..	4·3	..	14.4	0	9	21	6	1	1	2	1	2	9	8	1	0
Deolali (Aerodrome)	0830	571	1007·2	944·6	..	27·3	21·8	18·7	22·1	63	..	3·7	..	10·7	0	3	23	2	0	1	1	0	10	11	1	5	0
	1730	,,	1001·9	941·0	..	34·0	21·8	14·1	17·1	36	..	3·8	..	15.9	0	7	24	3	2	0	1	0	8	10	7	0	0
Ahmednagar	0830	657	1005·9	934·5	−1·2	27·4	20·2	15·7	18·4	51	+10	3·4	+2·0	3·9	0	0	17	0	2	2	1	0	2	2	8	14	0
	1730	,,	999·5	930·2	..	35·1	21·1	11·9	14·7	28	..	5·1	..	8·5	0	1	24	1	1	1	6	0	4	1	11	6	0
Poona (Aerodrome)	0230	593	1005·2	939·2	..	24·4	20·5	18·0	21·3	69	..	2·9	..	10·3	0	3	27	1	0	1	0	0	2	20	6	1	0
	0530	,,	1005·5	939·9	..	23·4	20·2	18·2	21·3	75	..	3·3	..	9·5	0	1	28	1	1	1	1	0	1	18	6	2	0
	0830	,,	1006·5	941·5	..	26·7	21·4	18·4	21·6	63	..	3·6	.	9·5	0	0	29	1	1	0	1	0	1	20	5	2	0
	1130	,,	1004·7	941·1	..	33·0	21·9	14·8	18·1	38	..	3·3	..	14·0	0	6	24	0	4	4	1	0	1	16	4	1	0
	1730	,,	1000·5	938·0	..	33·1	21·8	13·9	17·8	39	..	4·8	..	23·4	0	20	11	0	1	0	1	1	0	22	6	0	0
	2330	,,	1005·9	940·9	..	26·5	21·4	18·7	21·8	66	..	3·3	..	12·9	0	5	24	0	1	0	1	2	0	21	4	2	0
Poona	0530	559	1005·2	943·5	..	24·3	20·5	18·4	21·1	72	..	3·6	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	0830	,,	1006·0	945·0	−1·7	27·7	21·7	18·3	21·6	59	+1	2·9	+0·9	0.9	0	0	8	0	0	1	0	2	4	0	1	23	0
	1130	,,	1004·3	944·5	..	33·9	22·0	14·8	17·6	36	..	2·7	.	2·8	0	0	20	1	2	3	3	1	5	2	3	11	0
	1730	,,	1000·7	941·1	..	33·5	22·3	15·7	18·8	41	..	4·5	..	6·2	0	0	26	1	1	1	0	0	5	5	13	5	0
	2330	,,	1005·6	944.6	..	26·8	21·7	18·9	22·1	64	..	2·9	..	1.6	5	0	11	1	0	1	1	0	3	1	4	20	0
Jeur	0830	521	1005·6	949·4	+0·3	28·0	21·8	18·2	21·3	56	−2	3·5	+0·7	12·3	0	4	27	3	3	3	2	1	3	6	10	0	0
	1730	,,	999·2	944·1	..	35·6	22·3	14·3	17·1	33	..	5.4	..	13·7	0	7	24	4	7	1	4	2	1	7	5	0	0
Baramati	0830	551	1006·0	945·8	−0·1	28·5	21·6	17·9	20·8	55	−4	2.6	−0·4	8·5	0	1	30	5	1	5	1	0	3	10	6	0	0
	1730	,,	999 4	941·3	..	36·2	22·5	14·9	17·1	30	..	3·8	..	11·9	0	5	26	5	4	4	2	2	4	6	4	0	0
Sholapur	0530	479	1005·8	952·4	..	25·3	21·2	19·0	22·1	69	..	3·4	..	7·4	0	0	28	4	1	5	5	1	5	3	4	3	0
	0830	,,	1006·1	953·8	−0·8	28·6	22·6	19·6	22·9	60	+12	3·2	+1·0	10 2	0	4	27	5	1	1	3	5	6	4	6	0	0
	1130	,,	1004·5	953·1	..	34·3	23·6	18·2	21·1	40	..	3·2	..	10·8	0	3	27	3	1	1	2	5	9	4	5	1	0
	1730	,,	999·2	948·8	..	36·4	23·5	16·7	19.5	34	..	4·6	..	12·3	0	7	24	5	2	2	6	2	6	3	4	1	0
	2330	,,	1005·1	952·8	..	29·1	22·1	18·4	21·4	56	..	4·5	..	12·2	0	1	30	1	1	1	5	5	8	5	5	0	0
Miraj	0830	554	1006·8	946·0	−1·0	26·0	22·8	21·3	25·3	76	+4	4·6	−1·9	..	..	..	..	2	0	0	1	3	2	4	7	12	0
	1730	,,	1001·1	942·1	..	34·0	23·7	18·5	21·7	43	..	5·6	..	..	..	..	..	0	0	1	7	1	2	11	6	3	0
Kolhapur	0530	570	1005·8	942·7	..	22·9	21·3	20·5	24·1	87	..	3·4	..	4·5	0	0	26	0	0	0	0	0	3	22	1	5	0
	0830	,,	1006·7	944·2	−1·2	26·1	22·3	20·4	24·1	72	−1	3·7	+1·0	8·2	0	0	31	0	3	2	0	0	5	19	2	0	0
	1130	,,	1005·5	943·9	..	32·0	22·8	17.6	21·0	46	..	3·5	..	11 4	0	5	25	2	6	2	2	0	6	7	5	1	0
	1730	,,	1001·3	940·3	..	31·6	23·3	19·0	22·5	51	..	4·5	..	22·8	0	20	11	0	1	0	0	0	5	18	7	0	0
	2330	,,	1006·5	943·8	..	25·2	22·3	20·9	24·7	76	..	3·5	..	9·8	0	2	28	0	1	0	0	0	2	27	0	1	0
Marathwada																											
Aurangabad	0830	581	1006·1	943·1	−0·8	29·6	20.6	14·8	17·7	45	+1	3·8	+2 1	9·8	0	4	22	1	0	2	0	2	1	18	2	5	0
	1730	,,	999·7	938·5	..	36·4	21·7	12·4	15·2	27	..	5·3	..	11·1	0	5	25	5	2	5	2	2	2	7	5	1	0
Aurangabad (Chikalthan)	0230	579	1003·8	940·5	..	26·2	19·3	14·7	17·4	52	..	2·3	..	8·7	0	4	14	1	0	0	0	2	0	11	4	13	0
	0530	,,	1004·9	941·0	..	24·3	18·8	15·1	17·7	59	..	3·6	..	7·9	0	1	18	0	0	1	0	0	2	13	3	12	0
	0830	,,	1005·6	943·0	..	29·5	20·7	16·2	17·9	48	..	2·5	..	11·8	0	5	19	1	0	0	3	0	0	14	6	7	0
	1130	,,	1004·0	942·3	..	34·6	22·5	15·7	18·3	35	..	2·1	..	12·6	0	4	21	6	2	2	1	0	0	6	8	6	0

*Wind direction for 30 days

†Wind direction for 28 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Kmp. h.): 62 or more	Wind speed (Kmp. h.): 20 to 61	Wind speed (Kmp. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathawada—*contd.*																											
Aurangabad (Chikalthan)—*Contd*	1730	579	999·4	938·2	..	36·0	22·5	14·6	17·3	29	..	4·2	..	13·8	0	6	21	3	1	4	2	2	1	6	8	4	0
	2330	"	1004·2	941·2	..	28·1	20·0	14·6	17·4	46	..	3·2	..	13·4	0	7	19	3	1	1	2	0	3	10	6	5	0
Parbhani	0830	423	1006·9	959·6	+0·6	29·8	21·5	16·0	18·9	46	+1	4·0	+1·4	12·6	0	5	26	2	2	0	2	4	2	14	5	0	0
	1730	"	999·5	954·6	..	37·3	22·0	10·5	13·6	23	..	4·9	..	11·3	0	3	28	3	3	3	5	3	2	8	4	0	0
Nander	0830	358	1005·7	966·3	..	31·0	22·6	18·0	20·5	47	..	2·4	..	9·4	0	4	22	0	0	0	5	2	10	6	3	5	0
	1730	"	999·7	961·4	..	37·4	23·0	13·8	16·3	28	..	2·7	..	9·2	0	2	24	0	2	1	5	3	11	1	3	5	0
Bir	0830	519	1006·4	949·8	..	29·0	..	..	..	..	..	3·6	..	8·3	0	0	31	1	2	0	2	2	5	6	13	0	0
	1730	"	999·8	944·8	..	36·0	..	..	..	..	..	5·1	..	9·5	0	1	30	4	2	4	3	1	3	4	10	0	0
Vidarbha																											
Gondia	0830	313	1004·8	970·6	+1·0	31·8	22·5	17·3	19·6	42	+5	3·9	+1·7	7·5	0	0	29	1	0	0	3	6	11	6	0	2	2
	1730	"	998·7	965·4	..	39·1	22·2	10·2	12·9	19	..	3·3	..	6·3	0	2	25	1	4	0	2	0	11	2	7	4	0
Nagpur (Sonegaon)	0230	310	1001·9	967·7	..	29·2	20·4	14·2	16·8	43	..	3·6	..	4·3	0	0	20	1	0	2	2	3	6	4	2	11	0
	0530	"	1003·0	968·7	..	27·7	20·2	14·9	17·6	48	..	4·4	..	4·5	0	1	15	0	0	0	1	3	3	5	4	15	0
	0830	"	1004·4	970·5	0	32·3	22·2	15·8	18·2	39	+9	3·3	+1·2	12·2	0	9	17	1	1	1	2	6	4	6	5	5	0
	1130	"	1003·1	969·8	..	37·4	23·2	14·3	16·8	26	..	2·7	..	11·5	0	6	22	1	0	3	3	4	3	5	9	3	0
	1730	"	998·6	965·5	..	38·0	22·3	11·2	13·6	23	..	4·8	..	9·4	0	2	22	2	3	0	4	4	1	8	2	7	0
	2330	"	1002·4	968·5	..	31·1	20·7	13·4	16·1	36	..	3·8	..	6·1	0	1	21	2	2	2	1	2	7	4	2	9	0
Amraoti	0830	370	1004·3	964·0	−0·6	31·1	22·2	16·5	19·5	44	+9	2·5	+0·9	9·0	0	1	30	0	2	1	2	7	11	5	3	0	0
	1730	"	998·9	959·5	..	37·9	22·5	11·9	14·7	24	..	4·0	..	7·8	0	2	29	3	7	2	2	3	3	6	5	0	0
Akola Aerodrome	0530	309	1002·8	968·5	..	27·1	19·7	14·7	16·9	48	..	3·9	..	5·8	0	0	25	0	0	2	1	4	3	13	2	6	0
	2330	"	1002·1	978·3	..	31·5	20·8	13·0	14·9	36	..	3·7	..	10·0	0	4	25	1	1	2	2	4	4	13	1	2	0
Akola	0830	282	1004·6	973·8	−0·6	31·4	22·1	16·4	18·6	43	+7	2·4	+0·6	4·4	0	0	24	0	1	0	0	0	5	18	0	7	0
	1130	"	1003·1	973·8	..	37·1	23·8	15·4	18·5	30	..	2·6	..	8·1	0	1	27	0	0	0	0	4	2	20	2	3	0
	1730	"	998·5	968·5		39·6	23·3	12·5	14·5	22	..	4·5	..	5·7	0	2	24	1	0	0	4	1	3	14	3	5	0
Brahmapuri	0830	229	1005·1	979·8	..	31·4	23·3	18·9	22·0	49	..	3·2	..	13·1	0	4	27	0	1	0	3	10	9	3	5	0	0
	1730	"	999·3	974·7	..	38·5	23·3	13·8	16·2	26	..	3·7	..	7·2	0	1	29	3	3	2	3	6	6	6	1	1	0
Buldhana	0830	650	1005·3	934·7	+0·2	27·8	19·9	15·2	17·5	49	−2	3·2	+0·3	2·8	0	0	28	0	1	0	4	0	1	0	22	3	0
	1730	"	998·8	930·6	..	36·1	21·7	12·2	15·4	26	..	4·8	..	1·9	0	0	22	0	7	0	0	0	0	0	15	9	0
Yeotmal	0830	451	1004·2	955·3	+0·3	31·6	22·0	16·0	18·6	41	+3	4·2	+1·1	24·6	0	23	8	1	1	1	1	5	9	10	3	0	0
	1730	"	998·5	950·8	..	37·8	21·9	10·5	13·3	21	..	4·7	..	17·0	0	11	20	4	2	1	4	5	3	6	5	0	1
Chanda	0830	193	1005·1	983·8	+0·1	32·2	24·0	19·8	23·1	49	+16	3·5	+1·5	9·9	0	5	26	0	0	2	7	8	5	4	5	0	0
	1730	"	999·3	978·6	..	38·9	24·5	16·2	18·4	28	..	3·7	..	7·9	0	2	29	1	3	6	8	2	2	4	5	0	0
Pusad	0830	334	1005·8	969·2	..	32·0	24·6	20·9	24·9	54	..	1·7	..	7·2	0	1	30	0	7	0	8	1	7	4	4	0	0
	1730	"	999·5	964·1	..	39·0	25·9	19·9	22·7	32	..	4·4	..	9·4	0	1	30	3	7	0	5	3	4	3	6	0	0
Sironcha	0830	123	1006·2	992·3	+0·8	31·1	24·9	21·9	26·4	59	+7	3·4	+0·1	6·5	0	1	30	2	2	4	4	5	4	8	2	0	0
	1730	"	1000·2	986·9	..	38·5	25·1	17·9	20·8	31	..	3·4	..	10·8	0	8	23	2	2	7	5	3	1	4	5	0	2
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1005·6	1005·6	+0·2	31·2	27·7	26·3	31·2	76	+4	1·9	−1·6	7·4	0	3	28	0	1	1	2	8	15	1	3	0	0
	1730	"	1002·4	1001·8	..	30·9	28·5	27·6	36·9	82	..	1·9	..	9·0	0	0	31	0	1	0	4	19	7	0	0	0	0
Vishakhapatnam	0230	3	1003·9	1003·5	..	28·9	26·1	24·8	31·5	79	..	3·8	..	3·8	0	1	11	2	0	1	1	1	6	1	0	19	0
	0530	"	1004·4	1004·0	..	28·3	25·8	24·8	31·1	82	..	4·7	..	3·0	0	0	11	1	0	0	1	1	6	2	0	20	0
	0830	"	1005·8	1005·4	0	31·8	26·6	24·4	30·5	65	−9	4·2	−0·5	11·5	0	4	24	1	0	1	5	0	13	6	2	3	0
	1130	"	1005·0	1004·6	..	35·1	27·3	24·0	29·8	53	..	3·5	..	15·9	0	4	27	0	0	4	7	7	12	1	0	0	0
	1730	"	1002·5	1002·1	..	32·5	26·5	23·9	29·7	62	..	3·7	..	15·2	0	3	28	0	0	4	5	9	11	0	2	0	0
	2330	"	1005·0	1004·6	..	29·5	26·3	24·9	31·5	77	..	4·1	..	5·5	0	0	21	1	0	0	2	4	8	3	3	10	0
Kakinada	0830	8	1006·2	1005·2	−0·1	31·8	26·8	24·7	31·1	67	−4	4·5	+0·1	13·5	0	1	30	0	6	0	14	0	7	0	4	0	0
	1730	"	1002·2	1001·3	..	34·5	27·0	23·8	29·5	58	..	3·3	..	17·0	0	3	28	0	0	0	22	0	5	0	4	0	0
Nidadavolu	0830	12	1005·9	1004·5	..	30·4	26·4	24·7	31·1	72	..	6·4	..	5·0	0	0	31	0	12	5	4	0	8	1	1	0	0
	1730	"	1001·9	1000·5	..	34·9	26·7	23·1	28·3	54	..	5·1	..	5·9	0	0	31	0	1	2	14	1	6	3	4	0	0
Rentachintala	0830	106	1006·0	994·2	..	31·7	25·3	22·3	26·9	59	+6	4·7	+0·5	3·3	0	0	30	0	0	3	7	4	3	11	2	1	0
	1730	"	1000·7	989·2	..	37·3	24·7	17·9	20·8	34	..	4·1	..	3·1	0	0	31	3	0	9	6	1	1	10	1	0	0
Gannavaram	0230	24	1003·9	1001·2	..	28·2	26·7	26·1	33·8	89	..	3·2	..	5·5	0	1	17	0	1	4	4	2	5	1	1	13	0
	0530	"	1004·5	1001·8	..	27·7	26·2	25·6	32·6	89	..	4·1	..	5·7	0	1	22	1	5	8	1	2	1	5	0	8	0
	0830	"	1006·2	1003·5	+0·7	31·0	27·4	26·0	33·6	76	+10	4·5	+0·4	13·9	0	6	25	0	1	7	5	6	4	4	4	0	0
	1130	"	1005·2	1002·6	..	35·0	28·1	25·3	32·2	59	..	4·0	..	16·6	0	13	17	1	1	3	8	5	2	5	5	1	0
	1730	"	1001·9	999·2	..	34·6	27·5	24·4	30·7	59	..	4·4	..	18·3	0	11	20	1	1	5	10	6	2	5	1	0	0
	2330	"	1005·1	1002·4	..	29·0	27·0	26·2	34·0	85	..	3·1	..	9·1	0	3	25	0	1	3	11	6	6	1	0	3	0
Nagarjunakonda	0830	126	..	..	..	32·4	25·1	21·6	25·9	54	..	4·7	..	19·1	0	13	18	2	1	3	8	5	2	7	3	0	0
	1730	"	..		..	37·6	24·9	18·1	21·0	34	..	4·4	..	20·9	0	18	13	3	1	7	8	2	1	6	3	0	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1962 (VAISAKHA 11,—JYAISTHA 10, 1884 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in s.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*contd.*																											
Masulipatam	0830	3	1006·1	1005·8	+0·1	31·4	26·8	25·0	31·5	69	−3	5·8	+2·1	5·2	0	0	29	1	0	5	3	13	1	5	1	2	0
	1730	,,	1002·3	1001·9	..	33·3	27·0	24·3	30·4	62	..	4·6	..	6·1	0	0	31	0	0	1	11	11	0	5	3	0	0
Ongole	0830	12	1006·1	1004·8	..	32·2	27·3	25·2	32·2	68	..	4·3	..	6·0	0	0	30	2	2	2	16	0	2	6	0	1	0
	1730	,,	1002·1	1000·8	..	34·0	28·1	25·7	33·0	65	..	4·4	..	5·9	0	0	31	0	1	12	11	1	0	4	2	0	0
Nellore	0530	20	1004·3	1002·1	..	27·5	25·6	24·7	30·7	85	..	4·0	..	1·0	0	0	11	0	0	3	3	0	0	5	0	20	0
	0830	,,	1006·1	1003·9	+0·1	30·9	26·5	24·5	30·9	70	+10	4·5	+0·7	4·3	0	0	26	1	1	3	5	5	2	8	1	5	0
	1130	,,	1005·3	1003·1	..	34·7	26·8	23·4	28·6	54	..	4·5	..	3·9	0	0	27	0	4	6	4	2	0	8	3	4	0
	1730	,,	1002·5	1000·3	..	33·4	26·7	24·1	29·7	61	..	4·7	..	3·5	0	0	29	0	5	12	6	0	0	6	0	2	0
	2330	,,	1005·2	1003·1	..	28·9	26·6	25·7	33·0	83	..	3·2	..	0·6	0	0	6	0	0	4	0	0	0	2	0	25	0
Telangana																											
Ramgundam	0830	156	1005·6	988·3	+0·9	31·0	24·2	20·8	24·6	55	+9	3·1	−0·1	6·8	0	1	27	1	0	1	6	9	3	8	0	3	0
	1730	,,	1000·0	983·2	..	38·8	25·0	17·6	20·4	30	..	3·1	..	3·9	0	0	21	5	1	4	2	6	2	1	0	10	0
Nizamabad	0830	381	1005·7	963·9	−0·1	30·0	22·9	18·9	22·1	53	+12	3·6	+1·4	1·4	0	0	16	0	0	5	1	3	2	3	2	15	0
	1730	,,	999·6	959·1	..	37·7	24·4	16·9	19·7	31	..	3·6	..	1·0	0	0	11	1	0	6	0	0	3	0	1	20	0
Hanamkonda	0830	269	1005·7	976·2	+0·2	30·1	24·2	21·2	25·3	60	+13	2·6	−0·4	2·6	0	0	31	0	0	1	4	14	2	3	7	0	0
	1730	,,	1001·4	972·5	..	37·0	24·4	17·5	20·2	33	..	2·9	..	2·3	0	0	31	2	0	1	7	9	3	2	7	0	0
Hakimpet (Aerodrome)	0530	613	1004·6	937·5	..	25·4	21·4	19·2	22·5	70	..	5·2	..	13·4	0	8	22	1	4	0	9	2	3	10	1	1	0
	0830	,,	1005·6	938·9	..	27·8	21·8	18·7	21·7	59	..	4·9	..	16·0	0	8	23	2	2	1	8	2	3	9	4	0	0
	1130	,,	1004·1	938·7	..	32·9	22·7	17·3	20·0	41	..	4·4	..	14·9	0	8	22	4	3	0	7	4	1	6	5	1	0
	1730	,,	1000·6	935·7	..	34·3	22·2	15·5	17·8	34	..	4·8	..	15·8	0	9	22	1	4	4	11	0	2	7	2	0	0
Bhadrachallam	0830	111	1005·7	993·4	+0·3	30·8	25·4	22·9	27·9	64	+3	5·5	+1·5	6·2	0	0	31	0	2	4	3	4	3	10	5	0	0
	1730	,,	1000·6	989·2	..	37·2	25·3	19·3	22·5	38	..	4·4	..	4·0	0	0	31	1	3	2	11	1	5	3	5	0	0
Hyderabad (Begampet)	0230	545	1003·7	944·2	..	27·0	21·6	18·8	21·8	62	..	4·0	..	13·1	0	7	22	0	1	2	14	1	3	6	2	2	0
	0530	,,	1004·6	944·9	..	25·8	21·3	19·0	22·1	67	..	5·1	..	11·2	0	4	26	0	0	4	9	3	2	7	5	1	0
	0830	,,	1006·0	946·7	+0·4	28·3	22·0	18·8	21·8	58	+7	4·6	+1·6	16·0	0	10	19	1	2	2	6	3	1	7	7	2	0
	1130	,,	1004·3	946·0	..	33·2	22·8	17·4	20·1	40	..	3·9	..	15·0	0	8	23	2	1	3	6	4	2	3	10	0	0
	1730	,,	1000·1	942·3	..	35·0	22·2	15·0	17·4	32	..	4·9		12·8	0	7	23	1	3	6	6	3	2	4	5	1	0
	2330	,,	1004·3	945·4	..	29·1	22·1	18·5	21·6	54	..	3·6	..	12·3	0	7	20	0	0	1	16	1	4	4	1	4	0
Khammam	0830	112	1006·1	993·6	..	30·7	26·9	25·5	32·2	74	..	4·5	..	8·9	0	3	25	1	0	4	6	9	0	7	1	3	0
	1730	,,	1001·1	989·3	..	36·9	27·7	24·1	29·7	50	..	4·8	..	6·0	0	0	25	3	0	9	5	3	0	4	1	6	0
Mahbubnagar	0830	505	1006·0	950·7	..	28·4	23·0	19·5	22·7	61	..	4·9	..	8·5	0	0	30	2	1	4	2	0	9	5	7	1	0
	1730	,,	1000·0	946·3	..	35·4	22·9	16·3	18·8	34	..	4·7		6·6	0	0	29	2	3	5	6	2	6	3	2	2	0
Rayalaseema																											
Kurnool	0830	281	1006·8	975·7	−0·1	29·3	24·7	22·5	27·3	68	+13	3·8	+0·7	3·5	0	0	28	3	0	6	3	3	2	8	3	3	0
	1730	,,	1000·6	970·4	..	36·6	25·8	20·2	24·4	41	..	4·2	..	2·8	0	0	29	4	1	7	7	0	1	4	5	2	0
Nandyal (R)	0830																										
(R)	1730																										
Anantapur	0530	350	1004·8	966·1	..	26·3	23·1	21·3	25·6	73	..	4·8	..	9·5	0	3	24	1	2	3	2	3	5	10	0	4	1
	0830	,,	1006·5	967·9	+0·1	28·8	23·8	21·3	25·3	65	+4	4·9	+1·3	10·7	0	4	22	1	2	3	1	0	3	11	4	5	1
	1130	,,	1005·1	967·2	..	33·1	24·4	19·9	23·4	47	..	4·0	..	10·7	0	7	19	3	1	5	2	0	1	10	4	5	0
	1730	,,	1000·6	963·0	..	35·3	23·9	17·4	19·9	38	..	5·5	..	17·8	0	9	20	4	7	8	0	1	2	6	1	2	0
	2330	,,	1005·0	966·6	..	29·6	23·3	19·8	23·5	58	..	4·6	..	16·0	0	11	18	1	2	12	0	1	4	8	1	2	0
Cuddapah	0830	130	1006·7	992·2	−0·5	31·0	25·7	23·2	28·6	64	+10	3·5	+0·3	4·3	0	0	24	1	0	11	0	0	0	9	3	7	0
	1730	,,	1001·3	987·2	..	36·4	26·4	21·8	26·3	46	..	4·5	..	6·6	0	0	26	0	4	9	5	0	0	2	6	5	0
Arogyavaram	0830	701	1006·4	930·4	..	26·0	21·9	19·9	23·2	70	..	4·6	..	6·9	0	1	23	8	1	3	3	4	0	6	4	2	0
	1730	,,	1001·2	926·7	..	31·2	21·8	16·7	19·3	46	..	5·5	..	10·0	0	4	26	4	3	10	3	0	0	1	9	1	0
Madras State																											
Madras	0830	6	1006·2	1005·5	..	30·4	28·4	24·6	31·1	72		5·0	..	8·3	0	0	29	1	1	1	6	4	7	8	1	2	0
Madras (Minambakkam)	0230	16	1004·1	1002·4	..	28·3	26·4	25·6	33·0	86	..	3·3	..	5·5	0	0	23	1	0	5	1	10	2	2	2	8	0
	0530	,,	1004·7	1002·9	..	27·5	25·5	24·6	30·9	85	..	4·6	..	5·7	0	0	17	1	0	1	0	5	1	6	3	14	0
	0830	,,	1006·1	1004·4	−0·5	30·1	26·1	24·4	30·5	73	+13	5·1	+1·7	11·0	0	4	24	3	1	2	0	6	5	9	2	3	0
	1130	,,	1005·7	1004·0	..	33·5	26·8	24·0	29·7	59	..	5·0	..	16·3	0	12	18	3	1	7	3	6	1	6	3	1	0
	1730	,,	1002·8	1001·1	..	31·8	26·9	24·9	31·5	67	..	5·0	..	15·2	0	9	21	2	1	15	7	4	0	1	0	1	0
	2330	,,	1005·7	1004·0	..	28·9	26·7	25·7	33·2	83	..	3·3	..	9·5	0	1	25	2	0	5	4	14	1	0	0	5	0
Vellore	0530	214	1005·2	981·2	..	26·1	24·0	22·9	28·3	83	..	4·8	..	1·5	0	0	11	0	2	0	0	3	1	5	0	20	0
	0830	,,	1006·7	982·9	+0·3	29·0	24·9	23·1	28·3	71	+8	4·2	+1·6	5·3	0	0	23	1	1	0	0	6	3	10	2	8	0
	1130	,,	1005·7	982·1	..	32·6	25·8	22·7	27·6	57	..	4·7	..	6·5	0	0	28	2	7	1	1	4	3	8	2	3	0
	1730	,,	1002·0	978·6	..	33·2	25·3	21·5	25·8	53	..	6·2	..	7·4	0	0	30	1	9	4	2	7	1	4	2	1	0
	2330	,,	1006·0	982·2	..	28·3	24·9	23·3	28·9	75	..	5·1	..	3·4	0	0	12	0	4	2	1	3	0	2	0	19	0

(R) Register not received.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*contd.*)																											
Tambaram (Aerodrome)	0830	29	1006·1	1002·8	..	30·1	27·1	25·8	33·4	79	..	5·0	..	13·5	0	6	23	3	3	3	1	4	4	7	4	2	0
	1730	,,	1002·8	999·6	..	32·6	28·0	26·2	34·0	70	..	4·8	..	17·5	0	7	24	0	3	3	16	8	0	0	1	0	0
Tiruppattur	0830	390	1006·9	963·8	..	27.2	23·8	22·2	26·7	75	..	(a) 5·0	..	4·9	0	0	27	12	4	3	0	3	0	4	1	3	0
	1730	,,	1001·7	959·5	..	32·1	24·5	20·7	24·4	58	..	6·9	..	12·7	0	3	28	11	5	2	0	6	0	7	0	0	0
Cuddalore	0530	12	1004.1	1002.8	..	27·3	25·1	24·1	30·0	83	..	5·7	..	2·8	0	0	14	0	1	0	3	4	3	2	1	17	0
	0830	,,	1006·2	1004.9	—1·0	29·9	25·6	23·6	29·3	70	+2	6·1	+2·8	5·9	0	0	24	2	1	0	3	4	6	3	5	7	0
	1130	,,	1005·6	1004·3	..	33·1	26·2	23·1	28·3	58	..	5·8	..	9·5	0	0	31	3	5	2	11	1	1	3	5	0	0
	1730	,,	1002·8	1001·5	..	30·7	26·9	25·3	32.2	73	..	6·2	..	9·3	0	0	30	0	0	9	19	1	0	0	1	1	0
	2330	,,	1005·4	1004·1	..	29·0	25·8	24·3	30·5	77	..	5.9	..	7·2	0	1	24	1	0	1	12	3	5	2	1	6	0
Kallakkurichchi	0830	127	1006·0	991·9	..	29·2	26·0	24·6	30·9	77	..	4·2	..	4·0	0	1	14	1	2	0	0	5	4	0	3	16	0
	1730	,,	1001·6	987·7	..	32·9	27·1	24·7	31·1	64	..	5·7	..	7.5	0	2	23	0	5	7	2	2	6	1	2	6	0
Salem	0530	278	1005·3	974·1	..	25·2	22·9	21·7	25·9	81	..	5·5	..	2.4	0	0	14	0	1	4	1	2	3	3	0	17	0
	0830	,,	1006·8	975·9	—1·1	27·7	23·6	21·5	25·6	70	—1	5·7	+2·3	3·9	0	0	21	0	0	4	0	5	2	9	1	10	0
	1130	,,	1005·5	975·1	..	31·8	24·4	20·6	24·6	53	..	5·3	..	6.0	0	0	29	1	2	1	4	6	6	7	2	2	0
	1730	,,	1002·0	971·7	..	31·8	24·1	20·1	23·7	53	..	6.7	..	6·9	0	1	25	0	0	6	1	6	2	8	3	5	0
	2330	,,	1006·3	975·3	..	26·9	23 3	21·5	25·6	73	..	5·8	..	5·7	0	1	20	0	0	5	0	2	9	4	0	10	1
Coimbatore (Pilamedu)	0530	399	1005·9	961·3	..	23·1	22·1	21·6	25·8	91	..	5·1	..	13·0	0	7	17	1	0	0	0	2	18	1	1	7	1
	0830	,,	1007·3	963·0	..	25·9	23·3	21 9	26·4	79	..	4·9	..	16·8	0	10	20	0	2	0	0	8	18	1	0	1	1
	1130	,,	1006·2	962·6	..	29·9	24.2	21·4	25·6	61	..	4·7	..	19·0	0	12	17	0	2	4	3	5	13	1	0	2	1
	1730	,,	1003·3	959·6	..	28·4	23·5	21·0	25·0	66	..	6·0	..	27·6	0	9	21	0	0	1	0	6	19	0	4	1	0
	2330	,,	1007·0	962·5	..	24·1	22·5	21·7	25·9	87	..	5·3	..	21·0	0	16	11	0	0	0	0	5	20	0	2	4	0
Coimbatore	0830	409	1007·4	962·1	—0·8	25·9	23·0	21·5	25·6	77	—1	5·6	+2·2	20·5	0	18	13	0	1	1	0	14	14	1	0	0	0
	1730	,,	1003·3	958·6	..	28·7	23·6	21·1	25·0	65	..	7·0	..	21·9	0	22	9	1	2	1	0	11	13	3	0	0	0
Nagapattinam	0830	9	1006·7	1005·6	—0·9	29·8	25·4	23·4	28·8	70	+1	6·2	+2·4	9·9	0	6	17	1	1	1	1	2	7	9	1	8	0
	1730	,	1003·0	1002·0	..	31·5	26·9	24·9	31·7	69	..	6·1	..	19·6	0	22	7	1	1	6	10	7	2	2	0	2	0
Tiruchchirapalli	0230	88	1004·7	994·8	..	27·2	24·0	22·4	27·3	76	..	4·0	..	13·2	0	7	20	1	2	0	1	3	0	15	5	4	0
	0530	,,	1005·0	995·1	..	26·6	23·7	22·3	26·9	78	..	4·8	..	13·5	0	10	16	0	2	1	1	0	0	17	5	5	0
	0830	,,	1006·7	996.8	—1·2	29·2	24·5	22·3	26·9	67	+2	4·5	+1·1	18·8	0	13	17	0	4	0	0	3	1	16	6	1	0
	1130	,,	1006·0	996·2	..	33·1	25·4	21·8	26·3	53	..	4·7	..	17·6	0	13	14	0	1	1	1	2	1	16	5	4	0
	1730	,,	1002·5	992·9	..	33·7	25·1	20·9	24·7	49	..	6·1	..	19·6	0	15	16	1	2	5	5	3	1	11	3	0	0
	2330	,,	1006·4	996·5	..	28·3	24·1	22·1	26·6	70	..	4·4	..	15·6	0	6	25	0	0	1	3	6	1	16	4	0	0
Vedaraniyam	0830	4	1006·6	1006·1	..	30·2	25·9	24·0	30·0	71	..	5·3	..	7·1	0	0	30	1	2	0	1	4	10	5	7	1	0
	1730	,,	1003·5	1003.0	..	31·4	26·9	25·1	31·9	70	..	4.7	..	6·8	0	0	30	0	2	0	9	9	9	1	0	1	0
Atirampattinam	0830	6	1006.3	1005·6	..	29·8	25·3	23·2	28·6	69	..	5·4	..	10·5	0	4	25	2	2	0	3	2	5	4	11	2	0
	1730	,,	1003·1	1002·4	..	31·5	26·8	24·9	31·5	69	..	5·8	..	20·1	0	20	11	0	0	0	10	16	4	0	1	0	0
Madurai	0830	133	1006·4	991·5	—1·5	29·0	25·8	24·4	30·5	77	+14	4·9	+0·6	4·8	0	0	25	4	1	1	1	1	1	7	9	6	0
	1730	,,	1003·0	998·3	..	32·5	27·0	24·8	31·1	64	..	5·4	..	7·7	0	0	28	1	1	2	2	6	6	6	3	3	1
Madurai (Aerodrome)	0530	131	1004·9	990·1	..	26·5	23·9	22·5	27·6	79	..	5·3	..	7·5	0	1	25	10	9	0	1	0	0	4	2	5	0
	0830	,,	1006·5	991·8	..	29·6	24·5	22·1	26·6	65	..	5·6	..	12·0	0	4	25	9	7	2	2	1	0	5	3	2	0
	1130	,,	1005·8	991·4	..	33·4	25·2	21·2	25·3	50	..	5·6	..	12·3	0	5	24	8	3	1	1	1	3	6	5	2	1
	1730	,,	1002.9	988·4	..	32·4	25·0	21·4	25·6	54	..	6.7	..	20·0	0	16	12	2	2	3	3	4	3	8	3	3	0
Tondi	0830	5	1007·0	1006·4	..	30·1	26·1	24·4	30·4	72	..	6·0	..	3·2	0	0	10	0	1	0	6	1	2	0	0	21	0
	1730	,,	1003·4	1002.8	..	30·9	27·6	26·2	34·2	77	..	6·3	..	25·5	0	20	9	0	0	1	14	12	2	0	0	2	0
Pamban	0830	11	1006·6	1005·3	—1·3	29·3	26·2	24·8	31·5	77	—1	4·6	+1·9	6·1	0	1	22	0	0	1	7	3	9	1	2	8	0
	1730	,,	1003·7	1002·4	..	30·2	26·6	25·1	31·9	74	..	4·3	..	8·8	0	1	26	0	0	2	11	9	5	0	0	4	0
Tuticorin	0830	4	1006·9	1006·5	—0.6	30·1	24·9	23·7	27·3	65	—1	5·2	+1·3	13·0	0	7	24	2	2	0	0	1	3	16	7	0	0
	1730	,,	1003·7	1003·3	..	31·4	25·9	23·4	28·9	63	..	6·9	..	20·6	0	19	12	0	0	0	5	11	2	13	0	0	0
Palayamkottai	0830	51	1006·9	1001·2	—0·5	30·0	24·8	22·3	27.1	64	+4	5·4	+1·6	7·0	0	4	18	4	0	0	0	0	2	12	4	9	0
	1730	,,	1003·7	998·0	..	30·9	24·7	21·7	25·9	59	..	7·2	..	11·0	0	7	19	3	0	4	3	2	0	12	2	5	0
Kanniyakumari	0830	37	1007·2	1003·1	..	27·9	24·6	23·1	28·3	75	..	5·5	..	17·2	0	11	20	0	0	2	0	0	1	21	7	0	0
	1730	,,	1004·6	1000·5	..	28·8	25·5	24.0	30·0	75	..	6·2	..	19·0	0	13	18	0	0	0	0	1	1	20	9	0	0
Coastal Mysore																											
Karwar	0830	4	1007·0	1006·5	—0·9	28·4	25·8	24·6	31·1	81	+1	5·3	+0·3	7·5	0	1	28	2	9	6	5	1	0	1	4	2	1
	1730	,,	1004·6	1004·1	..	29·9	26·7	25·4	32·4	77	..	6·0	..	20·2	0	16	15	0	0	0	3	1	3	3	19	0	2
Honawar	0830	26	1007·6	1004·7	—1·3	27·3	25·0	24·0	29·7	82	+5	6·8	+1.4	3·9	0	0	23	0	6	13	2	1	0	0	1	8	0
	1730	,,	1004·9	1001·7	..	29·9	26·3	24·8	31·1	75	..	6·2	..	12·7	0	3	28	1	0	0	0	8	0	17	5	0	0
Mangalore (Bajpe)	0230	102	1006·0	994·5	..	28·7	24·2	23·6	28·9	89	..	5·5	..	7·8	0	0	29	3	0	12	7	2	0	3	2	2	0
	0530	,,	1006·1	994.6	..	25·3	24·1	23·6	28·9	91	..	5·8	..	6·4	0	1	27	4	5	11	7	1	0	0	0	3	0
	0830	,,	1007·6	996·1	..	27·4	24·9	23·8	29·3	81	..	5·5	..	7·1	0	0	29	2	3	17	5	0	0	2	0	2	0

(a) Mean of 30 days.

Division and station.	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Mysore *(Contd.*—Mangalore (Bajpe)—*Contd.*	1130	102	1007·4	996·1	..	30·5	25·8	23·7	29·3	69	..	5·7	..	11.4	0	2	29	2	0	0	5	2	4	14	4	0	0
	1730	,,	1004·6	993·3	..	28·9	25.5	23·9	29·8	76	..	6·3	..	14.7	0	4	27	0	1	0	1	1	6	13	9	0	0
	2330	,,	1007·6	996·1	..	26·2	24·4	23·6	29.1	86	..	6·1	..	9·5	0	3	26	2	2	8	3	3	1	3	7	2	0
Mangalore . .	0830	22	1007·8	1005·8	−1·6	28·5	25.3	23.9	29·6	77	+3	4·9	0	3.1	0	0	31	8	4	9	5	1	0	0	4	0	0
Interior Mysore (North)	1730	,,	1004·8	1002·4	..	29·8	26·1	24·5	30·7	74	..	6·0	..	6·3	0	0	31	1	0	0	1	3	3	13	9	0	1
Bidar (R)	0830	664																									
(R)	1730	,,																									
Gulbarga . .	0830	458	1006·1	956·0	−0·4	29·0	22·0	18·3	21·3	55	+4	4·8	+2·7	9·2	0	0	30	1	2	2	6	4	2	8	5	1	0
	1730	,,	999·8	951·1	..	35·7	22·2	14·5	16·8	30	..	6·5	..	12·5	0	3	27	4	2	4	5	4	3	6	2	1	0
Bijapur . .	0830	594	1006·2	941·1	−1·4	26·8	22·2	20·0	22·4	67	+8	5·0	+2·6	3·0	0	0	20	1	0	0	1	3	5	9	1	11	0
	1730	,,	999·9	937·1	..	35·2	23·8	18·0	21·0	38	..	5·9	..	3·5	0	0	23	2	4	4	3	1	1	7	1	8	0
Raichur .	0830	400	1006·3	962·5	−0·5	29·1	22·8	19·3	22·7	58	+2	4.6	+2·3	6·6	0	0	30	0	4	0	7	0	9	0	9	1	1
	1730	,,	1000·4	957·8	..	36·1	23·5	15.3	18·1	31	..	5·5	..	6·5	0	1	30	0	11	0	11	0	1	1	7	0	0
Belgaum . .	0830	753	1007·7	925·8	−0·7	25·1	21·7	19·9	23·5	75	−1	5·0	+1·8	5·8	0	0	30	1	3	4	1	3	3	11	2	1	2
	1730	,,	1002·5	922·0	..	29·0	23·4	20·8	24·7	63	..	5·6	..	7·2	0	0	31	0	0	0	0	4	1	10	12	0	4
Begaum (Samra) (R)	0530	747																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
Gadag . .	0530	650	1006·0	934·5	..	23·1	21·6	20·9	24·7	88	..	4·9	..	4·7	0	0	18	0	0	3	0	1	7	7	0	13	0
	0830	,,	1007·2	936·2	−0·6	25·8	22·4	20·7	24·6	74		4·8	+1·8	7·7	0	0	27	1	1	3	3	1	7	11	0	4	0
	1130	,,	1005·3	935·8	..	31·6	22·7	18·4	21·0	47	..	4·3	..	8·1	0	0	30	4	3	2	2	0	5	9	3	1	2
	1730	,,	1001·1	932·0	..	32·4	22·6	17·3	20·2	44	..	6·7	..	8·1	0	0	30	1	4	5	5	2	5	7	1	1	0
	2330	,,	1006·6	935·5	..	25·0	22·2	20·8	24.7	78	..	4·7	..	10·3	0	4	23	1	0	3	0	0	6	17	0	4	0
Interior Mysore (South)—Bellary	0830	449	1006·6	957·3	−0·7	28·1	24 0	22·0	26·6	70	+15	4·1	+0·7	7·5	0	0	28	2	3	2	4	0	7	0	10	3	0
	1730	,,	1000·6	953·0	..	34·3	25.5	21·1	25·3	48	..	5·8	..	9·0	0	0	29	0	3	3	9	1	5	0	8	2	0
Chitradurga .	0830	733	1006·8	927·0	−1·2	24·9	21·6	20·0	22·7	75	+4	5·2	+1·0	6·0	0	0	28	0	1	4	0	0	4	19	0	3	0
	1730	,,	1001·2	923·3	..	31·1	21·7	16·3	19·0	44	..	6·0	..	6·7	0	1	25	6	0	5	0	1	1	13	0	5	0
Shimoga . .	0830	571	1007·0	944·3	−0·8	25·4	22·6	21·3	25·3	78	0	7·9	+2·8	4·5	0	0	23	1	2	3	1	3	6	6	1	8	0
	1730	,,	1002·3	940·6	..	29·5	23·7	20·4	25·0	63	..	7·8	..	9·2	0	0	27	0	2	1	0	1	9	12	2	4	0
Agumbe . (R)	0830																										
Balehonnur . .	0830	..	..	..	..	22·3	21·2	20·5	24·4	91	+5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan. . .	0830	960	1489·5	903·5	..	23·2	20·7	19·4	22·7	80	+5	5·5	+1·7	3·2	0	0	28	2	1	0	2	1	9	6	7	3	0
	1730	,,	1470·5	900·8	..	27·4	21·7	18·6	21·8	61	..	6·3	..	4·5	0	0	26	1	0	0	2	3	5	13	2	5	0
Bangalore . .	0230	921	1469·5	905·8	..	22·0	20·4	19·5	22·8	86	..	4·2	..	7·7	0	0	25	0	2	3	2	1	11	5	1	6	0
	0830	,,	1489·3	907·6	−1·0	23·6	21·1	19·9	23·2	80	+7	6·1	+2·2	8·4	0	0	26	2	1	2	1	1	2	12	5	5	0
	1130	,,	1493·8	907·2	..	27·5	21·6	18·6	21·6	60	..	5·6	..	11·8	0	7	23	2	3	1	2	0	4	10	8	1	0
	1730	,,	1466·0	904·0	..	29·2	21·3	17·1	19·5	50	..	6·7	..	10·5	0	4	21	0	5	2	4	0	3	6	5	6	0
Bangalore (Aerodrome)	0530	897	1468·6	908·3	..	21·5	20·5	19·9	23·4	91	..	5·6	..	9·2	0	1	22	1	1	2	0	0	2	16	1	8	0
	0830	,,	1480·8	910·0	..	23·9	21·4	20·2	23·5	80	..	5·9	..	10·9	0	2	26	2	0	3	1	2	2	18	0	3	0
	1130	,,	1493·3	909·6	..	27·9	22·0	19·0	22·1	60	..	5·5	..	12·8	0	2	29	3	0	3	1	3	2	4	5	0	0
	1730	,,	1465·6	906·5	..	29·0	21·9	18·1	20·8	54	..	6·5	..	13·2	1	2	25	3	3	5	2	3	0	11	1	3	0
	2330	,,	1483·7	909·6	..	23·4	20.8	19·5	22·7	80	..	5·1	..	9·7	0	2	23	1	3	3	3	2	4	9	0	6	0
Mysore . .	0830	767	1007·5	923·9	−1·2	23·9	21·4	20·3	23·5	81	+6	4·2	−0·4	5·7	0	2	29	2	1	0	2	4	11	6	5	0	0
	1730	,,	1003·1	921·1	..	28·8	22·1	18·6	21·7	58	..	5·5	..	8·0	0	5	24	1	2	0	3	0	13	4	6	2	0
Kerala Calicut . .	0530	5	1006·8	1006·2	..	25·3	24·2	23·7	29·3	91	..	6·2	..	8.0	0	2	21	1	9	11	0	0	1	1	0	8	0
	0830	,,	1008·2	1007·6	−1·1	27.6	25·2	24·1	30·0	82	+2	5.6	+0·6	8·6	0	2	25	5	4	8	1	1	4	1	3	4	0
	1130	,,	1008·4	1008·0	..	29·6	26·2	24·8	31·3	76	..	5·6	..	16·6	0	11	19	0	1	0	1	0	5	12	11	1	0
	1730	,,	1005·6	1005·0	..	28.6	25.5	24.2	30·0	78	..	6·9	..	15·6	0	7	23	2	2	0	1	0	5	9	11	1	0
	2330	,,	1008·3	1007·7	..	26·6	24·8	24·1	29·8	86	..	6·0	..	17·2	0	11	17	2	3	8	0	0	3	4	8	3	0
Palghat . .	0830	97	1008·1	997·1	..	26·7	24·7	23·7	29·5	84	..	5·7	..	8.5	0	0	30	0	0	3	1	0	3	23	0	1	0
	1730	,,	1004·4	993·6	..	28·9	25·2	23·3	28·9	73	.	7·0	..	12·7	0	2	29	1	0	2	0	0	3	24	1	0	0
Fort Cochin . .	0830	3	1008·1	1007·8	−1·5	27·2	25·1	24·6	30·0	85	+5	6·9	+1·9	3·8	0	0	20	6	5	3	2	0	0	2	2	11	0
	1730	,,	1005·3	1005·0	..	28·6	26·0	24·9	31·5	81	..	7·1	..	10.4	0	3	25	1	0	0	0	0	3	10	14	3	0
Cochin (Naval Air Station)	0230	3	1007.4	1007·1	..	25·7	24·4	23·9	29·7	90	..	6·1	..	5·4	0	3	14	0	3	5	2	0	0	2	5	14	0
	0530	,,	1007·3	1007·0	..	25·2	24·2	23·7	29·3	92	..	6·1	..	4·0	0	0	14	0	1	9	0	0	0	2	2	17	0
	0830	,,	1008·4	1008·1	..	27·4	25·1	24·0	29·8	83	..	6·0	..	6·1	0	0	23	3	5	8	2	0	0	2	3	8	0
	1130	,,	1008·5	1008·2	..	29·9	26·0	24·3	30.4	73	..	6·3	..	11·7	0	1	29	2	0	1	0	2	5	10	10	1	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—(*contd.*)																											
Cochin (Nava Air Station)—*Contd.*	1730	3	1006·2	1005.9	..	29.1	25·8	24.5	30.4	77	..	7·2	..	14 7	0	4	26	0	0	0	2	0	4	13	11	1	0
	2330	,,	1008·6	1008.3	..	26.3	24 7	24·0	29.8	88	..	7·2	..	6 7	0	2	19	5	4	5	1	0	0	2	4	10	0
Alleppey	0830	4	1008.3	1007.9	—0.6	27·5	25.8	25·1	31.8	88	+6	6.4	0	8.5	0	4	26	1	10	6	3	0	2	3	5	1	0
	1730	,,	1005.6	1005.2	..	29.0	26.2	25.1	31.7	80	..	6.8	..	22.3	0	18	13	0	0	0	1	0	2	4	24	0	0
Punalur	0830	34	1007·9	1004.1	..	25.6	24·5	24.1	29·1	91	..	6·3	..	0·3	0	0	4	0	2	2	0	0	0	0	0	27	0
	1730	,,	1005.3	1001.3	..	29·0	25.5	23·9	29·7	75	..	7.4	..	3·7	0	0	28	1	0	1	2	1	6	10	7	3	0
Trivandrum	0230	64	1006·4	999·1	..	25.0	23.8	23.3	28.4	90	..	5·0	..	8.5	0	1	29	13	3	1	1	0	1	1	10	1	0
	0530	,,	1006·5	999·1	..	24.7	23.7	23.2	28.4	91	..	5·2	..	7.4	0	2	24	11	3	0	0	0	1	1	10	5	0
	0830	,,	1008·2	1000·9	−1.2	26·5	24.6	23.7	29·3	85	+4	5·2	−0·2	5·9	0	0	29	9	3	0	0	0	0	0	17	2	0
	1130	,,	1008 0	1000.8	..	29·5	25.5	23.8	29·3	72	..	6·3	..	11·7	0	5	26	4	0	0	0	1	0	8	18	0	0
	1730	,,	1005·5	998·3	..	28·2	25·4	24·2	30·2	79	..	6·6	..	10.5	0	3	28	1	0	0	2	0	5	5	18	0	0
	2330	,,	1008·1	1000.8	..	25·6	24·4	23.9	29.7	90	..	5·6	..	9.5	0	5	22	10	2	1	0	0	0	1	13	4	0
Trivandrum (Aerodrome)	0830	8	1008.1	1007.2	..	27.4	24.8	23.7	29·1	81	..	5·5	..	6.3	0	0	25	9	3	1	0	0	0	0	12	6	0
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1411·0	798·0	+0.5	19·2	11·3	3·7	8.5	39	−20	2·2	+0·5	2.3	0	0	31	0	8	0	16	0	3	0	0	0	4
	1730	,,	1399.6	797.5	..	22.4	13·7	6·5	10·3	40	..	4·2	..	2.3	0	0	31	0	5	0	12	0	6	0	1	0	7
Dharmsala	0830	1211	1556.8	884.5	+5.4	25.4	16·1	8·7	11·5	37	0	2·8	+0.6	1.3	0	0	19	2	12	3	0	0	2	0	0	12	0
	1730	,,	1553·3	883.9	..	28.7	16·7	7.5	10.3	30	..	3·9	..	2·5	0	0	31	0	3	0	0	0	23	5	0	0	0
Simla	0830	2202	1450·5	779.9	−0·6	20.0	10.5	0·9	6.4	30	−5	1·8	−0·3	2 0	0	0	31	1	7	0	8	2	6	1	6	0	0
	1730	,,	1450·0	780.0	..	20.6	11.2	2·4	7·2	33	..	3·6	..	2.0	0	0	31	1	6	0	5	0	11	0	8	0	0
Lokpal	0830	..	..	..	..	—1.9	−3.8	−6.5	3·1	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830																										
Joshimath	0830	..	..	..	..	18.9	10·7	3·2	7·6	37	..	1·9	..	7.1	0	0	29	0	8	15	4	0	1	1	0	2	0
	1730	..	..	..	..	20·9	11·6	3·1	7·6	34	..	6·2	..	6.1	0	2	19	1	0	4	4	2	3	1	1	10	5
Mussoorie	0830	2042	1449.5	794.3	−2.5	20·4	12·0	4·8	8·8	38	−7	2·2	0	2.3	0	0	21	7	1	0	2	4	2	0	5	10	0
	1730	,,	1433·5	793.0	..	21.8	13·2	6·5	9·5	39	..	3·2	..	5.1	0	0	30	6	0	0	5	9	5	0	5	1	0
Mukteswar (Kumaun)	0830	2311	3136.7	771.5	−0·3	18·6	10·3	2·0	8·7	35	−10	1·5	−0.5	9.4	0	1	28	0	1	2	1	0	1	12	12	2	0
	1730	,,	3121.5	769.8	..	20.1	12·1	5·5	9·0	41	..	2·3	..	19·0	0	13	18	1	2	0	1	0	0	14	12	0	0
Nainital	0830	1953	1454.3	802.9	+0 3	21·0	13·2	6·8	10·1	41	−2	1·6	−0·2	2·2	0	0	11	0	5	1	1	0	0	2	2	20	0
	1730	,,	1432·2	800·9	..	21·3	13·8	8·2	10·6	45	..	1·4	..	6·8	0	0	31	10	3	6	2	0	1	7	2	0	0
Kalimpong	0830	1209	1472.6	876.3	−0.5	22.0	20.0	19.0	22.0	83	+4	1·7	−2·5	3.0	0	0	31	0	0	0	1	0	0	0	30	0	0
	1730	,,	1467·3	875·8	..	22.5	20.2	19.0	22·0	81	..	1·9	..	3.0	0	0	31	0	0	0	28	0	0	0	3	0	0
Darjeeling	0830	2128	1437.3	784·4	−3 1	15·0	13·6	12·8	14·8	86	+6	5·7	+0·1	1.0	0	0	8	3	0	0	0	0	2	1	2	23	0
	1730	,,	1411·1	782·1	..	15·1	13·9	13·4	15·4	88	..	6·0	..	3.6	0	0	16	1	0	0	0	0	7	5	0	15	3
Kohima	0830	1406	1530·8	862·5	..	20.0	17.1	15·5	17.6	75	..	5·1	..	2.0	0	0	31	3	0	1	11	2	0	4	10	0	0
	1730	,,	1482·6	857·7	..	20.5	18.3	17·1	19.5	81	..	5·8	..	2.0	0	0	31	0	0	0	1	0	5	3	21	0	1
Shillong	0830	1500	1476·3	847·9	+0·1	20·8	18·9	17·8	20·4	84	+16	5·7	+0.7	2·5	0	0	17	0	0	0	0	2	11	3	1	14	0
	1730	,,	1455·6	845·9	..	20·6	18·6	17·4	19·9	83	..	5·2	..	1·2	0	0	8	0	0	0	0	2	6	0	0	23	0
Cherrapunji	0830	1313	1487·8	867·7	+0.9	17·0	15·3	14·3	16·3	84	+5	(b) 6·0	+0.2	3·4	0	1	30	0	4	2	1	0	23	0	0	0	1
	1730	,,	1487·4	867.7	..	17·1	15·4	14·2	16·2	83	..	5·4	..	2·6	0	0	31	0	1	0	1	0	28	0	0	0	1
Abu	0830	1195	1490·0	878.9	−0.3	26·4	16·8	9.2	12·1	36	0	0·7	−0.1	1·1	0	0	13	2	0	0	0	1	4	4	2	18	0
	1730	,,	1469·3	876·8	..	31.2	17.9	7.4	10·1	24	..	0·9	..	1·7	0	0	17	1	0	0	0	0	12	4	0	14	0
Aijal	0830	..	..	..	..	22·5	19·5	17·6	20·1	76	..	5·3	..	2·2	0	0	31	3	0	4	2	10	2	9	1	0	0
	1730	..	..	..	..	24.2	20·2	18·0	20.6	69	..	3·8	..	2.3	0	0	31	2	0	2	0	8	2	16	1	0	0
Pachmarhi	0830	1075	1498·2	891.7	+0.2	28.5	19.0	12.7	14.7	39	+4	2.7	+0.7	4.3	0	0	29	0	3	0	0	9	0	7	10	2	0
	1730	,,	1467.0	888.0	..	33.7	19.8	10.3	12.5	27	..	4.4	..	3.8	0	0	27	0	2	1	1	0	2	9	12	4	0

*Data given as addenda in December 1962 issue. (R) Register not received. (b) Mean of 29 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir —*contd.*																											
Mahabaleshwar	0830	1382	1490.0	860.8	−1.1	22·2	16·8	12·5	15·2	59	+6	3·5	+0.6	11·6	0	0	31	4	18	0	2	0	3	3	1	0	0
	1730	,,	1474.1	859.1	..	24·8	19·9	16·9	19·9	67	..	4 1	..	9·9	0	0	31	2	2	0	1	1	4	5	16	0	0
Mercara	0830	1152	1491.1	884.1	−0.8	20·4	19·1	18·3	21·1	85	+1	4.7	−0.4	4·5	0	0	31	1	10	11	0	0	1	5	2	0	1
	1730	,,	1470.7	881.9	..	22·5	20·5	19·4	22·7	84	..	6·0	..	11·1	0	0	31	2	3	4	0	0	0	13	8	0	1
Cotacamund (R)	0830	2249																									
(R)	1730	,,																									
Coonoor (R)	0830																										
Kodaikanal	0830	2343	3143·3	770·1	−0.7	15·7	13·4	11·8	13·9	79	+16	5·3	+1.7	11.0	0	5	23	4	5	1	0	1	0	6	11	3	0
	1130	,,	3152·6	770·3	..	18·3	15·0	13·0	15·0	72	..	6 0	..	11·2	0	3	27	5	3	2	1	1	1	1	16	1	0
	1730	,,	3125·4	768·5	..	15·7	14·3	13·5	15·4	87	..	7·1	..	8·6	0	3	24	7	2	2	1	0	1	3	11	4	0
Nepal																											
Katmandu	0830	1324	1464.4	864.1	..	20·5	17·0	14·8	16·8	71	..	3·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1457.9	863.2	..	25·7	18.8	14·5	16.7	51	.	3·6	..	3·1	0	0	21	2	2	0	2	2	4	3	6	10	0
	1730	,,	1436.6	861.2	..	23·0	18·2	15·3	17·4	63	..	5.5	..	0·8	0	0	7	0	0	0	0	1	3	3	0	24	0
Sikkim																											
Lachen	0830	..	..	..	..	12·3	9·9	8·1	10.8	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	33·2	22·5	16·0	18·6	38	..	2·5	..	8.0	0	2	28	3	0	4	1	2	1	14	4	1	1
	1730	..	..	..	..	36·1	21.4	10·2	13·5	24	..	2·7	..	6·7	0	2	28	12	2	2	2	0	0	8	4	1	0
Hazaribagh	0830	615	1002·0	936.0	..	31·0	20·9	14·9	17·4	40	..	2·8	..	7·4	0	1	29	0	0	1	2	3	11	10	3	1	0
	1730	,,	997.7	932.6	..	34·1	19·9	9·5	12·9	26	..	2.7	..	5·8	0	0	26	2	1	4	0	2	1	4	12	5	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	2.8	..	..	0	2	29	0	3	4	6	0	0	17	1	0	0
	1730	..	..	..	..	..	..	..	..	..	..	2·7	..	..	0	2	29	2	1	11	1	0	0	15	1	0	0
Bokaro	0830	242	1003·2	976.8	..	31·4	22·7	17·6	21·2	45	..	1·8	..	4·8	0	0	21	0	0	0	9	0	11	0	1	10	0
	†1730	,,																									
Maithon	0830	..	.	..	..	..	..	..	..	..	..	3.0	..	7.0	0	0	31	0	0	13	2	1	4	11	0	0	0
	1730	..	.	..	..	..	..	..	..	..	..	3.5	..	11.9	0	0	31	0	1	6	11	3	5	4	1	0	0
Ramgarh	0830	..	..	..	..	32·7	23·7	18.4	22·2	43	..	2.3	..	2.9	0	0	27	2	4	1	1	0	8	9	2	4	0
	1730	..	..	.	..	36·6	24·3	16·5	20·5	35	..	3.8	..	3.0	0	0	30	3	5	4	4	1	5	3	5	1	0
Panchet Hills	0830	..	.	..	..	32·1	25·0	21·8	25.9	55	..	6.2	..	7.6	0	0	30	0	1	1	8	1	17	2	0	1	0
	1730	..	..	..	..	33.9	24·3	19·7	22·5	43	..	6.3	..	7·7	0	0	26	0	3	3	11	0	8	0	1	5	0
Durgapur	0830	..	..	..	..	30·7	25·6	23·4	28·6	67	..	3.1	..	8.9	0	0	31	1	0	0	0	20	7	2	1	0	0
	1730	..	..	..	..	34.2	26·0	22 2	27·4	52	..	4.3	..	10·3	0	1	30	1	2	1	7	12	5	3	0	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	31·0	22·3	17·4	19·9	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1003.7	986.7	..	32·8	24·0	19·5	22.7	46	..	2.3	..	3.0	0	0	26	0	0	1	1	8	9	4	1	5	2
	1130	,,	1003.1	985.8	..	37·3	24·8	18·3	21.0	33	..	1.8	..	3.6	0	0	28	3	1	1	2	1	3	4	12	3	1
	1730	,	998.7	981.6	..	38·8	24.0	15.6	17·7	26	..	3.6	..	3.5	0	0	26	1	0	3	4	4	8	1	5	5	0
Bhimkund	0830	..	..	..	..	29·5	24·3	21.9	26·3	62	..	3.7	..	1.8	0	0	13	0	1	1	8	2	0	0	1	18	0
	1730	..	..	..	..	34·0	23·5	17.8	20·4	39	..	4.3	..	4.2	0	0	27	1	0	1	9	6	7	0	3	4	0
Sonepur	0830	..	..	.	..	33.3	25·6	22.1	26.6	52	..	..	..	7.9	0	1	30	1	2	1	2	2	9	11	3	0	0
Khijrawan	0830	..	..	..	..	31·6	23·3	18·9	21.8	49	..	2.3	..	11·3	0	2	27	0	0	2	3	2	8	12	2	2	0
	1730	..	..	..	..	33.3	22·9	16·5	19·0	42	..	3.2	..	8.3	0	0	29	3	2	1	4	7	6	5	1	2	0
Narbada Catchment																											
Bagra Tawa	0830	..	..	..	..	33.4	22.0	14·3	16.4	83	..	1.5	..	7.0	0	0	29	0	0	1	2	3	15	6	2	2	0
	1730	..	..	..	..	39.7	22.3	9·9	12.3	18	..	2.2	..	6.3	0	0	28	1	3	0	3	0	12	3	6	3	0
Punasa	0830	..	..	..	..	33.1	24·6	20.7	24.4	49	..	..	..	9 5	0	4	23	0	3	0	0	0	15	7	2	4	0
	1730	..	..	..	..	40.3	27·1	20·0	23.4	34	..	..	..	9·8	0	2	28	6	1	2	1	1	7	6	6	1	0
Thikri	0830	..	..	..	..	32.7	18.7	27.0	36.1	72	..	1.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	30·9	20.5	13·4	15·7	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	41·1	23.2	11·5	13.7	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	.	16·7	9.8	4·2	8.2	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·9	9·7	5.6	9·1	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	22·8	18·5	16.5	18.8	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·2	20·3	18.2	20·9	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received

(b) Mean of 29 days.

†Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—contd.																											
Tumre	0830	..	..	..	..	19·7	13·3 (a)	9·9 (a)	12·2 (a)	53 (a)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·6	15·2	11·7	13·7	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	22.7	19·7	17·0	19·6	71	..	1·5	..	2·1	0	0	16	1	0	4	3	6	4	1	1	15	0
	*1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·8	18·6	16·7	19·1	76	..	6·3	..	6·4	0	0	20	3	3	0	2	0	3	2	7	11	0
Gorkha*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot	0830	..	..	..	..	23·5	19·6	17·5	20·0	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·3	19·2	15·0	17·0	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dalekh	0830	..	..	..	..	21·8	16·3	12·5	14·5	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·9	16·5	10·5	12·7	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Jodekhura	0830	..	..	..	..	20·0	13·2	7·7	10·8	47	..	1·2	..	..	..	..	..	4	5	13	4	2	0	0	2	1	0
	1730	..	..	..	..	21·9	14·3	8·6	11·4	45	..	3·2	..	..	..	..	..	1	0	0	5	0	14	2	8	1	0
Sialayana	†0830	..	..	..	..	23·7	16·2	10·8	12·9	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	††1730	..	..	..	..	25·1	16·3	9·9	12·2	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jumla	†1830	..	..	..	..	31·8	23·0	18·2	20·9	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	32.7	23·6	18·7	21·6	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu‡	0830	1324	..	..	..	..	..	..	..	..	..		..	..	..		..	..	..	..	..	.	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	.	..	..	..		..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kosi Catchment—																											
Chautara	0830	..	..	..	..	19·4	16·3	14·5	16·5	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
	1730	..	..	..	..	22·7	16·3	12·4	14·4	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chepua	0830	..	..	..	.	16·5	14·4	13·4	15·4	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	.	16·4	15·1	14·6	16 6	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola*	0830	..	..	.	..	9 9	8·1	6.7	9·8	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·9	7·9	7·1	10·1	89	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	18.9	15·7	13·5	15·5	71	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·3	16 4	14·5	16·5	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	19·1	16·8	15·5	17·6	80	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
	1730	..	..	..	..	19·1	16·9	15·7	17·8	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Taplejung	0830	..	..	..	..	18·3	15·3	13·4	15·5	74	..	5·0	..	..	..	..	..	1	0	0	0	0	1	1	1	27	0
	1130	..	..	..	..	20·8	17·1	15·0	17·1	70	..	5·6	..	..	..	..	..	0	0	1	0	1	4	6	6	13	0
	1730	..	..	..	..	17·7	15·3	13·8	15 9	80	..	6 8	..	..	..	..	..	0	2	2	3	2	5	1	0	16	0
Okhaldhunga	0830	..	..	..	..	18·5	15·7	14·0	16·0	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	20·6	16·4	14·0	16·0	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·3	15·4	13·7	15·7	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	21·1	17·7	15·7	17.8	71	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..
	1730	..	..	..	..	22·1	17·6	14·8	16·8	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	20·7	18·3	16·9	19·3	79	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	.
	1730	..	..	..	..	21·5	18·1	16·1	18·3	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Baralakshetra	0830	146	1005·2	988.8	..	27·3	22·6	20·0	23·5	66	..	4·3	..	4·3	0	0	30	2	2	2	1	4	14	1	4	1	0
	1130	"	1004·1	987·9	..	30·2	24·4	21·6	25·8	61	..	4·4	..	6·5	0	0	31	0	1	0	0	1	23	5	1	0	0
	1730	"	1000·9	984·7	..	29·7	24·6	22·2	26·6	65	..	5·1	..	4·0	0	0	28	0	1	0	1	4	20	1	1	3	0
Tista Catchment																											
Gangtok	0830	1812	1467·9	816·7	..	16·4	14·7	13·6	15·7	84	..	5·9	..	4·3	0	0	30	9	14	1	0	2	2	1	1	1	0
	1130	"	1458·1	816·2	..	19·8	16·8	15·3	17·6	78	..	5.7	..	5·1	0	0	31	5	5	0	1	6	10	3	1	0	0
	1730	"	1438·1	814·0	..	16·9	15·5	14·7	16·7	87	..	7·3	..	5·0	0	1	28	6	6	1	4	9	2	1	0	2	
Gezing	0830	..	..	..	..	18·2	16·6	15·7	17·8	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·5	16 7	15·7	17·8	84	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days. †Observations for 30 days. *Data not available ††Observations for 29 days. ‡Data included under Nepal'.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 40 stations all the observations, were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

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

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

In Tables IV and V :

n=represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23 53	91 15	17	28th November 1951	0530	1130	1730	2330
2	Ahmadabad	23 04	72 38	61	19th May 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25 27	81 44	103	28th February 1930	0530*	1130	1730*	2330
4	Ambala	30 23	76 46	279	1st April 1941	0530	1130	1730	2330
5	Anantapur	14 41	77 37	365	12th February 1946	0530		1730	2330
6	Asansol	23 41	86 59	135	29th May 1942	0530	1130	1730	2330
7	Aurangabad/Chikalthan	19 51	75 24	583	7th October 1951	0530		1730	2330
8	Bahraich	27 34	81 36	134	1st October 1961	0530		1730	
9	Bangalore	12 58	77 35	936	19th May 1915	0530@	1130	1730@	2330
10	Bareilly	28 22	79 24	181	12th January 1943	0530		1730	
11	Begampet	17 27	78 28	543	1st September 1929	0530		1730	2330
12	Bhagalpur	25 14	86 57	61	19th May 1950	0530	1130	1730	
13	Bhopal/Bairagarh	23 17	77 21	532	26th February 1943	0530		1730	2330
14	Bhubanesbwar	20 15	85 50	54	5th December 1942	0530	1130	1730	2330
15	Bhuj/Rudramata	23 15	69 48	90	14th September 1937	0530		1730	2330
16	Bikaner	28 00	73 18	229	18th October 1946	0530		1730	2330
17	Bombay/Santa Cruz	19 07	72 51	27	14th May 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22 39	88 27	13	14th May 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon +	09 56	76 14	13	16th March 1942	0530		1730	2330
20	Darjeeling	27 03	88 16	2115	21st May 1956	0530		1730	
21	Dehra Dun	30 19	78 03	692	1st October 1958	0530		1730	
22	Dibrugarh/Mohanbari	27 29	95 01	112	1st June 1948	0530	1130	1730	2330
23	Gadag	15 25	75 38	650	3rd May 1943	0530		1730	2330
24	Gauhati	26 05	91 43	55	12th March 1955	0530*	1130	1730*	2330
25	Gaya	24 45	84 57	119	19th March 1937	0530	1130	1730	2330
26	Gopalpur	19 16	84 53	24	15th February 1946	0530		1730	2330
27	Gorakhpur	26 45	83 22	83	5th January 1943	0530		1730	
28	Gwalior	26 14	78 15	208	7th May 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24 46	93 54	782	8th March 1952	0530	1130	1730	2330
30	Jabalpur	23 10	79 57	402	30th July 1928	0530		1730	2330
31	Jagdalpur	19 05	82 02	562	25th March 1948	0530		1730	2330
32	Jaipur/Sanganer	26 49	75 48	403	6th June 1953	0530		1730	2330
33	Jamshedpur	22 49	86 11	144	23rd July 1942	0530	1130	1730	
34	Jharsuguda	21 55	84 05	240	1st May 1944	0530		1730	2330
35	Jodhpur	26 18	73 01	229	15th October 1934	0530*	1130	1730*	2330
36	Lucknow/Amausi	26 45	80 53	133	20th November 1950	0530		1730	2330
37	Madras/Minambakkam	13 00	80 11	29	8th April 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12 55	74 53	104	25th May 1959	0530		1730	2330
39	Minicoy	08 18	73 00	15	14th April 1941	0530		1730	2330
40	Nagpur/Sonegaon	21 06	79 03	316	23rd April 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28 35	77 12	227	20th October 1936	0530*	1130	1730*	2330
42	Poona	18 32	73 51	593	5th January 1925	0530		1730	2330
43	Port Blair	11 40	92 43	95	29th October 1945	0530*	1130	1730*	2330
44	Raipur	21 14	81 39	308	15th July 1944	0530		1730	2330
45	Raxaul	26 59	84 51	83	28th October 1957	0530	1130	1730	
46	Siliguri/Baghdogra	26 38	88 19	140	7th June 1953	0530	1130	1730	2330
47	Tiruchhirappalli	10 46	78 43	96	22nd June 1936	0530		1730	2330
48	Trivandrum	08 29	76 57	73	8th December 1928	0530*	1130	1730*	2330
49	Udaipur	24 35	73 42	587	24th June 1947	0530		1730	2330
50	Vengurla	15 52	73 38	8	22nd November 1941	0530		1730	2330
51	Veraval	20 54	70 22	17	13th October 1941	0530		1730	2330
52	Vijaywada/Gannavaram	16 32	80 48	32	8th April 1942	0530		1730	2330
53	Visshakhapatnam	17 43	83 14	10	24th September 1928	0530*	1130	1730*	2330

* Radio wind ascents.

@ Radiosonde ascents followed by optical theodolite.

+ Naval Meteorological Office.

5—13 D.D.G. Obs. Poona/66

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1962 (Vaisakha 11,— Jyaistha 10, 1884 Saka)

Station	AGARTALA																AHMADABAD							
Time in I.S.T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.3	1.7	140	31	2.5	1.8	177	31	2.4	1.8	182	31	2.1	1.6	150	30	2.7	1.9	274	31	4.2	2.7	278
0.15 a.g.	30	6.3	3.8	175	31	4.6	3.5	163	30	5.5	4.0	177	29	5.9	4.7	170	30	8.5	5.9	293	31	3.9	2.5	270
0.3 a.m.s.l.	30	6.9	5.0	184	31	5.0	3.7	167	30	6.2	4.4	176	29	6.6	5.7	186	30	8.7	5.8	289	31	3.9	2.8	272
0.6 „	28	8.2	6.4	197	31	6.2	5.0	175	30	6.3	4.5	183	29	6.9	6.1	200	30	8.5	6.7	300	31	4.2	2·9	281
0.9 „	26	8.4	6.8	213	28	6.4	5.0	189	29	6.3	4.8	203	29	6.7	5.5	216	30	7.9	6.3	301	31	4.9	3.5	282
1.5 „	24	7.7	6.3	237	18	6.8	4.9	215	28	6.7	5.5	224	28	6.2	5.2	242	30	6.7	4.5	298	30	6.0	3.9	275
2.1 „	23	7.5	6.0	258	14	8.2	5.6	239	26	6·7	5.8	267	28	6.9	6.1	260	30	4.7	2.5	309	29	5.7	2.6	278
3.0 „	15	8.4	6.7	286	8	8.3	6 8	265	23	8.5	7.5	289	24	8.6	7.3	281	30	5.5	0.9	296	28	5.0	1.8	278
3.6 „	10	7.1	6.5	282					21	10.1	9.2	295	8	7.1	6·5	283	29	5.9	1.3	281	28	5.5	2.3	256
4.5 „	7	6.1	5.7	267					13	9.3	8·9	277	5	7·0	6·1	285	29	7.1	3.5	265	26	7.2	4.4	260
5.4 „	5	8.1	7.7	260					13	12.3	11.0	267	2	13·3	13.3	300	29	8.9	5.9	292	25	9.0	6.2	273
6.0 „	4	5.9	5.6	260					12	13.1	11.8	268	1	6·5	6·5	290	29	9.7	6.4	283	23	10.5	7.7	278
7.2 „	2	6.5	5.6	286					7	17.1	16·0	258					29	13.0	10.4	284	16	12.9	10.1	288
9.0 „	1	13·0	13·0	275					4	16·0	15.0	253					25	15.1	12.8	292	3	18.0	14.8	297

Station	AHMADABAD								ALLAHABAD/BAMHRAULI															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.6	3.0	277	31	3.9	2.2	244	31	0.6	0.1	024	31	1.5	0.8	280	31	2.5	1.4	331	31	0.6	0.1	287
0.15 a.g.	31	7.5	5.4	274	31	7 8	6 0	260	31	5.1	0.6	272	31	4.0	2.3	290	31	5.0	4.1	318	31	5.0	1.8	002
0.3 a.m.s.l.	31	7.2	5.2	275	31	8.9	6 8	26	31	5 1	0.6	272	31	4.2	2.3	290	31	5.1	4.1	318	31	5.2	2.1	341
0.6 „	30	5.4	3.9	275	31	9.3	7.4	270	31	5.9	2.3	283	31	4.6	3.0	290	31	5.4	4.4	317	31	6.8	3.6	320
0.9 „	30	5.4	4.0	272	31	8.6	6.8	272	31	5.8	3.8	287	31	5.3	3.5	289	31	5.7	4.9	318	30	6 0	4.3	317
1.5 „	30	5.6	4·5	275	31	6.1	4.6	285	31	6.0	5.2	295	29	5.5	5.0	289	31	5.9	5.2	295	30	6 8	5.9	302
2.1 „	30	5.5	4.2	281	31	4.8	2.6	303	31	7.1	6.3	297	28	6.8	6.0	291	31	7.0	6.4	283	26	7.5	6.5	287
3.0 „	30	5.3	3.6	287	31	5.2	1.0	330	31	9.5	8.7	297	26	9.3	8.1	293	31	9.3	8.7	277	18	9.9	8 9	272
3.6 „	30	5.6	3.1	289	8	3.6	0.5	335	31	12.2	11.4	292	21	9.2	9.0	295	31	11.0	10.2	277	1	12 0	12.0	260
4.5 „	30	6.7	4·0	292					31	13.2	12.0	286	15	13.0	12.0	291	31	11.2	10.7	279				
5.4 „	30	8.3	6.3	287					31	13.1	12.1	283	9	14.2	13.1	275	30	13.0	12.1	280				
6.0 „	30	10.0	7.9	298					31	13.6	12.3	276	6	14.0	12.4	287	30	14.9	13.5	280				
7.2 „	30	12·9	10·9	296					31	16.7	15.6	272	5	17.7	16.2	289	29	17.7	16.2	270				
9.0 „	25	18·3	16·0	282					27	22.0	20.0	264	1	24.0	24.0	240	23	20.5	18.5	272				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May 1962 (Vaisakh 11,—Jyaistha 10, 1884 Saka)

Station	AMBALA																ANANTAPUR							
Time in I.S.T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.2	0.5	317	31	2.1	0.1	295	31	2.9	1.6	298	31	2.2	1.3	343	31	2.7	1.1	254	31	4.2	0.9	050
0.15 a.g.	31	8.0	4.1	344	31	5.2	0.6	292	28	6.5	4.9	303	31	10.1	7.3	334	31	5.5	2.3	247	30	5.4	1.5	050
0.3 a.m.s.l.	31	3.7	1.6	344	31	3.2	0·3	293	28	4·3	2·9	306	31	4.7	3·3	332								
0.6 ,,	31	8.5	4.4	334	31	4.9	1.3	313	28	7.9	5.7	307	31	10.2	4.6	304	31	5.8	2.7	250	30	5.0	1.1	064
0.9 ,,	31	8.3	5.1	333	31	4.9	1.9	301	28	8.0	5.8	302	31	9.5	6.8	333	31	6.5	3.1	255	30	4.9	1.3	045
1.5 ,,	31	7.6	5.4	319	31	6.0	3.5	055	28	8.3	6.8	297	31	8.4	6.5	322	30	6.7	1.3	259	30	5.7	2.2	046
2.1 ,,	29	7.6	6.2	298	30	7.0	4.2	305	26	7.1	5.4	275	29	7.7	6.9	313	29	5.6	1.7	046	28	5.9	2.4	032
3.0 ,,	28	9.8	7.6	292	28	8.5	6.9	301	25	8.9	7.7	302	21	6.8	5.6	289	28	6.3	4.7	072	25	5.7	3.1	057
3.6 ,,	25	9.6	7.7	295	26	9.1	8.0	299	25	9.9	8.5	298	7	6.9	6.6	271	25	7.8	5.9	075	22	6.8	4.0	068
4.5 ,,	18	8.4	6.2	304	22	10.2	9.0	298	22	10.0	9.6	301	2	4.7	4.5	253	22	8.3	5.9	067	15	6.4	3.1	052
5.4 ,,	15	8.8	7.1	299	21	11·0	9.9	301	14	11.5	10.5	303					21	6.2	3.9	062	12	5.5	0.8	009
6.0 ,,	7	10.0	9.6	282	16	11.4	10.5	292	14	19.5	11.3	296					21	7.1	3.7	065	12	6.1	0.7	349
7.2 ,,	2	13·0	13·0	283	10	14.4	12.5	280	5	18.4	17.6	298					18	7.4	1.4	043	6	7.3	2.0	255
9.0 ,,					1	19.5	19.5	310									8	8.0	3.5	288	5	6·2	1·9	031

Station	ANANTAPUR				ASANSOL																AURANGABAD/ CHIKALTHAN			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.6	0.6	162	31	1.8	1.3	162	31	1.7	0.8	187	31	2.5	1.3	133	31	3.0	2.5	154	31	2.9	1.8	277
0.15 a. g.	29	7.1	1.4	166	31	6.5	4.9	184	31	3.6	1.7	205	31	5.8	3·1	143	31	8.4	7.2	171	31	6.1	3.1	269
0.3 a.m.s.l.					31	6.8	5.2	200	31	3.6	1.8	210	31	5.9	3.1	146	31	8.8	7.7	177				
0.6 ,,	29	7.4	1.4	164	30	9.1	7.5	237	31	4.4	2.0	229	31	6.0	3.2	159	31	10.5	9.3	190				
0.9 ,,	29	8.0	1.7	144	30	9.0	8.0	250	31	4.7	2.5	244	31	5.4	2.6	188	31	8.7	7.5	206	31	6.4	3.4	284
1.5 ,,	29	6.7	1.7	118	30	7.3	6.7	267	30	5.3	4.0	279	31	5.0	3.7	274	30	6.2	5.3	263	31	7.8	4.1	309
2.1 ,,	28	5.7	2.6	079	30	7.3	6.5	287	28	6.1	5.4	292	30	7.2	6.5	290	30	7.9	6.9	288	29	6.8	4.6	335
3.0 ,,	27	6.5	4.7	061	27	10.0	9.4	296	14	6.5	5.9	282	28	10.7	10.2	299	27	11.0	10.7	295	21	6.2	2.5	002
3.6 ,,	21	6.5	4.2	053	19	12.1	11.2	297					24	12.7	12.0	298	17	11.7	11.3	294	12	4.7	0.6	312
4.5 ,,	13	6.1	3.5	059	12	13.8	13.0	300					14	13.4	12.5	293	9	11.0	10.0	291				
5.4 ,,	4	3.9	3.5	074	2	13.5	11.1	291					7	13.9	12.7	276								
6.0 ,,	1	5.0	5.0	095	2	13.5	12.9	293					4	14.7	13.8	296								
7.2 ,,													1	9.0	9.0	315								
9.0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1962 (Vaisakh 11—Jyaistha 10, 1884 Saka)

Station	AURANGABAD				CHIKALTHAN				BAHRAICH								BANGALORE							
Time in I.S.T	1730				2330				0530				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.6	1.4	298	31	4.3	2.9	292	31	3.1	2.9	108	31	2.2	2.1	276	31	2.2	1.6	275	31	2.7	1.4	289
0.15 a.g.	31	5.3	2.3	307	30	8.8	5.0	294	31	8.2	6.1	106	31	4.9	4.6	291	23	6.0	4.5	265	28	5.3	2.7	278
0.3 a. m. s. l.									31	8·6	6·4	107	31	5.2	4.8	293								
0.6 ,,									31	7.8	3.4	112	31	6.3	6.0	292								
0.9 ,,	31	5.5	2.1	305	30	10.1	6.2	299	31	6.1	1.6	310	31	6.6	6.3	289								
1.5 ,,	31	5.3	2.5	293	30	10.1	5.7	312	30	6.3	5.7	302	31	7.5	7.2	287	23	6.2	3.7	279	28	5.8	2.4	303
2.1 ,,	30	5.8	2.5	331	30	6.5	3.2	331	30	9.1	8.9	301	31	10.1	9.9	292	23	5.1	1.6	360	21	5.2	2.9	011
3.0 ,,	20	5.1	1.6	342	24	6.1	2.9	002	28	11.2	10.5	296	29	12.1	11.6	295	22	6.5	4.9	046	16	6.1	5.0	055
3.6 ,,	13	4.5	2.1	008	19	6.1	2.2	044	25	13.2	12.6	295	28	13.1	12.4	294	22	6.9	5.5	058	14	5.9	5.3	068
4.5 ,,	6	7·0	4·0	319	1	0·5	0·5	130	17	12·9	12·4	291	25	14.0	13.2	297	22	6.3	4.2	064	13	4.7	3.6	083
5.4 ,,	5	7·3	6·1	322					10	10·9	10·7	296	24	15.5	14.6	292	20	5.4	2.9	069	11	4.6	2.1	049
6.0 ,,	5	7·8	6·6	323					8	11·6	11·4	284	23	16.6	15.7	292	20	5.5	2.0	044	10	3.6	2.5	050
7.2 ,,									5	10·9	10·2	273	16	19.9	19.1	287	19	5.5	0.9	073	8	5.9	1.7	027
9.0 ,,													9	22.4	19.8	281	16	6.5	1.2	195	8	8.3	3.8	226

Station	BANGALORE								BAREILLY								BEGAMPET							
Time in I.S.T.	1730*				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.5	0.5	314	31	2.3	0.7	227	31	1.5	0.7	063	31	2.3	1.9	298	31	2.6	1.1	260	31	3.1	0.4	045
0.15 a.g.	30	5.5	0.8	302	23	7.5	4.4	240	31	6.4	1.7	025	31	5.5	4.8	297	31	5.6	2.4	244	31	4.8	0.8	087
0.3 a m.s.l.									31	6.0	1.8	033	31	5.3	4.5	296								
0.6 ,,									31	6.9	2.9	320	31	6.7	5.9	297	31	4.4	1.8	240	31	4.5	0.8	088
0.9 ,,									31	6.5	4.3	309	31	6.8	6.1	296	31	6.9	2.5	239	31	4.9	0.5	043
1.5 ,,	30	5.8	1.2	329	23	8.3	3.9	227	30	6.8	5.8	302	29	7.6	7.0	296	31	7.5	1.9	220	31	5.1	0.8	040
2.1 ,,	29	5.4	1.6	357	23	4.2	1.0	345	29	8.0	7.4	300	29	8.1	7.8	292	31	6.2	0.9	085	31	4.3	1.2	068
3.0 ,,	23	5.1	3.8	038	22	5.3	3.4	040	27	10.3	10.0	300	27	9.9	9.6	291	30	6.0	3.3	077	28	5.5	3.6	059
3.6 ,,	22	6.0	4.2	053	20	6.2	3.9	058	19	10.1	9.4	298	24	10.6	10.0	296	29	6.8	4.5	053	26	6.3	3.3	046
4.5 ,,	21	5.7	3.7	058	11	5·4	4.4	080	8	9.3	8.2	292	22	12.7	12.1	294	29	6.9	3.9	054	20	6.8	2.1	012
5.4 ,,	19	3.8	1.3	073	8	5.2	3.8	073	6	8.5	5.5	275	19	12.8	12.2	293	20	5.9	2.7	067	16	7.6	2.1	010
6.0 ,,	19	4.2	0.5	085	5	2.6	0.5	023	5	10.0	6.8	289	18	13.4	12.7	290	18	7.3	2.2	069	11	7.0	2.3	312
7.2 ,,	18	5.3	1.3	215	1	5.0	5.0	025	3	9.5	8.0	269	10	17.5	16·9	291	15	7.8	2.4	330	8	7.4	2.8	233
9.0 ,,	15	6.0	1.2	172									5	18.3	17.0	289	11	10·2	3.6	247	1	10.0	10.0	260

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

May 1962 (Vaisakh 11—Jyaistha 10, 1884 Saka)

Station	BEGAMPET				BHAGALPUR												BHOPAL/BAIRAGARH							
Time in I. S. T.	2330				0530				1130				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.2	1.7	148	31	2.8	2.4	090	31	2.6	1·9	077	31	2.7	2.1	053	31	2.6	1.4	256	31	3.8	2.9	269
0.15 a.g.	30	6.8	2.8	162	31	5.9	4.7	105	31	4.2	3.0	077	31	5.0	3.9	052	31	8.1	3.7	259	31	5.2	3.8	277
0.3 a.m.s. l.					31	6.9	4.5	122	31	4.1	3.0	081	31	5.3	3.9	058								
0.6 ,,	30	4.9	2.9	163	30	6.6	3.5	189	31	3.9	2.3	103	31	4.6	2.3	075	31	6.8	3.0	252	31	4.9	3.7	277
0.9 ,,	30	7.1	3.1	160	29	6.3	4.1	232	31	4.3	1.6	178	31	4.3	0.6	138	31	9.7	4.9	281	31	5.5	4.0	280
1.5 ,,	30	6.7	1.5	138	28	6.5	4.9	269	31	6.4	5.0	255	30	6.7	5.6	262	31	7.8	4.7	299	31	5.8	4.2	283
2.1 ,,	30	6.1	1.3	064	28	9.0	7.7	290	28	8.4	7.8	273	30	9.7	9.1	273	31	5.2	2.8	315	29	5.4	4.5	284
3.0 ,,	30	5.7	2.4	033	26	12.9	12.4	292	16	10.6	9.9	287	28	12.9	12.4	283	28	5.1	2.1	302	26	5.2	4.2	291
3.6 ,,	20	6.4	3.2	037	18	13.7	12.4	273					23	14.4	14.0	288	27	5.5	2.0	291	22	5.1	3.5	304
4.5 ,,	3	4.7	4.6	066	8	13.3	12.8	292					19	14.2	14.0	291	19	6.1	3.7	295	13	5.7	4.0	290
5.4 ,,	2	4.3	4.3	358	3	11.8	10.6	286					17	16.3	15.9	287	17	8.4	7.0	303	7	8.1	4.8	298
6.0 ,,	1	7.0	7.0	350	1	8.5	8.5	340					12	17.7	17.4	280	17	9.8	8.3	289	4	9.5	7.3	277
7.2 ,,	1	11.0	11.0	330	1	14.0	14.0	325					4	16.1	15.5	278	8	11.5	9.6	304	2	10.5	10.3	296
9.0 ,,													2	29.3	28.3	259	2	18.5	17.6	304				

Station	BHOPAL/BAIRAGARH				BHUBANESHWAR																BHUJ/RUDRAMATA			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.2	1.7	282	31	4.4	3.5	205	31	4 9	4.0	210	31	6.4	5.6	188	31	5.4	5.0	195	31	3.3	2.9	247
0.15 a.g.	31	9.9	4.3	286	28	6.6	5.7	210	31	6 2	5.4	207	30	8.0	7.2	187	31	8.8	8.5	200	31	7.0	6.0	263
0.3 a.m.s. l.					27	7.5	6.0	224	31	5.3	4.8	210	30	7.8	7.1	194	31	9.5	9.1	207	31	8.0	6.8	270
0.6 ,,	31	8.9	3.9	280	27	7.6	6.3	233	31	5.7	4.3	215	30	6.1	5.3	206	30	10.0	9.8	212	30	9.2	7.8	286
0.9 ,,	31	9.7	5.2	286	26	7.1	5.5	242	31	6.5	4.6	232	30	4.9	3.5	220	30	9.3	8.7	213	30	7.5	6.0	280
1.5 ,,	31	8.1	5.4	289	24	4.6	2.9	267	25	5.6	4.1	284	30	4.0	2.2	300	29	5.6	4.6	221	28	5.9	3.7	271
2.1 ,,	31	6.2	4.4	297	24	4.8	2.9	303	15	6.5	4.9	300	27	4.9	3.0	335	19	3.5	1.2	281	25	5.7	2.6	258
3.0 ,,	30	5.7	3.8	298	21	5.5	2.9	352	3	5.5	3.8	004	26	5.5	3.1	336	18	4.9	2.4	340	19	5.6	0.9	125
3.6 ,,	10	4.1	1.8	318	19	5.4	3.7	348	2	6.7	6.1	336	22	5.7	3.7	333	2	5.3	3.7	025	8	5.4	2.9	064
4.5 ,,	1	6.0	6.0	330	14	6.0	4.3	341					17	7.0	5.5	319					6	6.0	3.3	309
5.4 ,,					10	5.8	3.9	310					15	7.5	5.7	307					5	9.6	8.5	295
6.0 ,,					9	5.6	3.9	265					15	8.7	5.8	292					4	10.3	6.9	281
7.2 ,,					1	4.0	4.0	275					5	9.5	7.3	268					4	10.9	9.1	281
9.0 ,,													4	8.9	8.5	277					2	8.5	6.4	275

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May 1962 (Vaisakha 11—Jyaistha 10, 1 4 aka)

Station	BHUJ/RUDRAMATA								BIKANER												BOMBAY SANTA-CRUZ			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	6·2	4·8	243	31	4.8	4.4	238	31	0.9	0.7	227	31	0.8	0.8	278	31	1.1	0.4	247	31	1.1	0.5	228
0.15 a.g. .	31	7.3	6·3	247	31	8.1	7.5	253	31	9.1	1.8	198	31	6.6	4.5	290	31	9.9	1.8	321	31	4.0	1.0	256
0.3 a.m.s.l. .	31	7.4	6·2	248	31	8.9	8.3	256	31	6.8	1.4	177	31	5.7	3.9	290	31	7.1	1.2	328	31	4.1	1.3	260
0.6 „ .	31	7.5	6·3	254	31	9.2	8.1	264	31	9.9	3.1	248	31	6.5	5.0	288	30	10.1	2.7	304	31	4.6	1.5	307
0.9 „ .	31	7.1	5·7	259	31	7.4	6.1	263	31	9.3	4.6	255	31	6.6	5.1	280	30	9.6	3.8	290	31	5.5	1.9	324
1.5 „ .	30	6.0	4.4	269	29	5.5	3.1	269	29	6.6	4.2	272	30	6.7	5.7	277	26	7.5	4.9	290	31	6.6	2.9	339
2.1 „ .	28	5.7	3.1	275	29	5.6	1.7	265	28	6.5	5·2	285	29	6.0	5.1	274	23	5.7	4.4	277	30	6.5	1.6	005
3.0 „ .	25	7.2	2.4	303	27	6.3	1.0	036	24	7.6	6.7	292	27	6.2	4.8	273	19	6.4	5.1	275	29	7.3	1.5	107
3.6 „ .	25	7.3	1.6	323	11	6.0	3.3	064	20	7.0	6.2	298	25	6.6	6.0	272	5	7.4	7.0	257	29	7.3	2.6	131
4.5 „ .	22	8.3	3.0	295	6	6.3	2.6	041	17	8.0	5.4	300	18	8.0	7.0	288	1	10.5	10.5	355	29	5.7	1.6	137
5.4 „ .	21	9.2	6.7	273	2	5.7	4.7	049	7	6.4	4.4	273	15	10.6	9.6	282					29	6.7	1.5	350
6.0 „ .	21	10.9	9.2	278	1	6.0	6.0	065	5	8.2	7.2	271	12	13.7	12.6	285					29	7.1	1.7	328
7.2 „ .	11	10.7	9.7	296					3	14.3	11.9	287	6	16.7	16.7	282					29	8.6	3.4	314
9.0 „ .	9	10.1	9.8	201					1	20.0	20.0	290	2	29.7	29.7	290					29	10.2	5.5	300

Station	BOMBAY/SANTACRUZ												CALCUTTA/DUMDUM											
Time in I.S.T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.9	2.1	261	31	5.5	4.5	284	31	2.2	1.3	259	31	2.7	2.5	196	31	3.3	3.2	182	31	2.9	2.5	179
0.15 a.g. . .	30	4.0	2.8	258	31	7.5	6.0	292	31	4.5	2·4	279	31	6.9	6.2	203	31	5·7	5.3	192	31	7.8	7.8	182
0.3 a.m.s.l. .	30	3.7	1.6	252	31	6.9	5.1	295	31	4·9	2.6	273	31	7.8	7.3	207	31	6.5	5.9	193	31	7.9	7.8	184
0.6 „ .	30	4.1	0.6	003	31	6.1	4.2	300	31	5.6	2.8	286	31	9.5	8.4	213	31	6.5	5.5	206	31	7.8	7.2	187
0.9 „ .	31	5.6	1.9	016	31	5.8	3.5	315	31	6·0	2·7	304	31	8.9	7.7	230	29	6 3	5·6	223	31	6.9	5.9	195
1.5 „ .	27	6.6	3.3	027	31	4.9	2.0	340	27	6·2	3·2	343	30	7.6	5.9	260	28	6.1	5.2	252	31	4.7	3.4	254
2.1 „ .	24	6.0	1.7	031	31	5.8	1.0	327	24	6.8	2.3	356	30	5.7	4.6	284	26	5.3	4.3	264	31	5.2	4.3	294
3.0 „ .	22	6.3	2.5	163	31	6.7	1.7	131	22	7.1	1.2	149	29	7.6	6.9	305	22	6.5	5.3	300	31	8.3	7.4	301
3.6 „ .	21	6.0	3.6	164	30	6.9	2.9	120	15	7.7	3.6	144	28	9.7	8.8	306	21	8.7	7.8	310	31	10.6	9.5	302
4.5 „ .	18	6·3	0·9	230	30	6·2	1·3	112	11	5.8	1.7	126	28	9.9	9.1	300	19	10.5	9.1	307	30	11.7	10.2	288
5.4 „ .	17	7·8	3·5	302	30	5.9	1.5	065	4	7.7	3.9	236	26	11.4	9.9	291	15	9.0	8.1	281	29	12.4	10.8	278
6.0 „ .	17	9·6	4·8	298	29	7.2	1.4	351	1	13.0	13.0	250	26	10.7	9.7	280	15	9.7	9.2	275	28	13.3	12.3	278
7.2 „ .	14	13.2	8.0	276	28	8.8	3.3	302					26	12.6	11.8	269	10	13.9	12.3	271	28	13·4	12.1	268
9.0 „ .	4	13.5	8.5	317	27	10.0	5.1	290					23	15.7	14.1	253	1	8.0	8.0	290	24	16.0	15.1	265

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1962 (Vaisakh 11—Jyaistha 10, 1884 Saka)

Station	CALCUTTA/ DUMDUM				COCHIN/WILLINGDON†												DARJEELING							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.3	3.0	168	31	1.3	0.5	008	31	3.9	3.0	289	31	2.1	1.1	335	31	0.1	0.1	225	31	0.6	0.6	235
0.15 a. g.	31	8.6	7.8	185	27	3.7	2.1	016	23	4.9	4.4	286	18	2.9	2.1	339	6	3.2	2.7	224	7	5.4	5.2	245
0.3 a. m. s. l.	31	10.1	9.5	192	27	4.2	3.0	340	23	5.4	4.9	287	18	3.3	2.9	332								
0.6 "	31	10.4	9.6	201	27	5.3	4.5	311	23	6·3	5·8	294	18	4.7	4.2	318								
0.9 "	28	8.4	7.5	210	26	5.9	5.0	301	23	6.0	5.3	301	18	5.7	5.1	312								
1.5 "	28	6.1	5.0	235	25	5.7	4.2	298	22	5.7	3.5	316	17	5.4	3.8	306								
2.1 "	25	6.3	4.9	283	24	6.1	2.3	322	20	5.5	3.1	337	15	6.2	3.1	320								
2.0 "	17	8.3	7.4	310	19	7.1	3.1	036	15	6.0	2.8	028	4	4.9	4.1	034	6	7.8	7.6	271	7	14.6	13.9	268
3.6 "	8	6.2	4.8	312	12	8.4	5.3	031	11	6.0	2.3	036	1	4.5	4.5	070	4	15.7	15.3	287	3	12.3	11.5	277
4.5 "	2	8.5	7.5	260	7	5.2	3.2	044	5	2.2	0.8	159									2	7.7	7.7	280
5.4 "									1	1.5	1.5	230									2	6·3	6.3	274
6.0 "									1	1.5	1.5	235									2	11.0	11.0	270
7.2 "																					1	21.0	21.0	270
9.0 "																								

Station	DEHRA DUN								DIBRUGARH/MOHANBARI															
Time in I.S.T.	0530				1730				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.7	0.5	029	31	1.7	0.9	288	31	1.0	0.8	037	31	1.6	1·5	043	31	1.1	0.8	042	31	0.9	0.7	040
0.15 a. g.	31	2.0	1.2	045	31	5.5	3.7	276	24	4.5	4.0	055	26	3.7	3.2	050	26	4.1	3.3	057	19	4.6	3.9	043
0.3 a. m. s. l.									24	4.9	4.4	056	26	3.9	3.3	053	26	4.4	3.6	060	19	4.4	3.7	051
0.6 "									24	4.9	4.2	068	24	4.1	3.5	064	26	4.8	4.1	071	19	4.4	3.7	060
0.9 "	31	2.1	1.0	071	31	5.8	3.9	274	23	4.5	2.7	076	21	3.6	2.3	077	25	3.9	3.1	089	19	3.7	3.1	072
1.5 "	31	3.2	1.1	321	31	6.0	4.5	275	20	4.2	2.0	185	18	4.6	2.2	175	23	4.7	3.4	224	18	2.9	1.7	157
2.1 "	30	4.6	3.7	303	31	5.1	4.6	281	14	4.2	2.8	239	13	5.6	4.8	212	19	7.9	7.0	224	14	5.1	4.2	220
3.0 "	29	6 9	6.1	298	28	5.6	4.9	285	8	5.8	4.4	237	9	3.8	2.5	227	13	10.0	9.8	229	5	6.1	5.6	230
3.6 "	25	8.1	7.4	299	25	6.3	5.6	302	6	8.4	7.3	243	6	3.7	1.8	199	8	8.2	7.3	234	3	8.6	8.5	227
4.5 "	16	7.4	6.6	296	21	7.5	7.0	318	4	12.5	12.3	238	1	6.0	6.0	240	4	7.1	5.9	248				
5.4 "	8	9.0	8.4	295	20	9.3	8.5	308	2	14.5	14.5	238	1	6.5	6.5	255	3	11.5	9.1	267				
6.0 "	2	8.3	7.7	279	20	10.9	10.4	302					2	10.5	10.4	233	3	12.0	8.0	249				
7.2 "					6	15 3	14.0	287					2	12.7	12.7	244	2	21.5	14.5	260				
9.0 "					1	26.0	26.0	300					2	14.7	14.6	254								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka)

Station	GADAG												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.6	1.6	239	31	3.1	0.4	217	31	3.7	2.4	245	31	1.1	0.3	055	31	1.9	1.4	013	31	1.3	0.9	015
0.15 a.g.	31	5.7	3.5	245	30	5.7	0.7	265	31	8.3	5.5	245	30	2.2	1.6	080	29	3.1	2.2	040	31	3.5	2.0	037
0.3 a.m.s.l.													30	3.1	1.1	099	29	3.0	2.0	044	31	3.5	2.0	041
0.6 ,,													30	3.7	0.6	031	29	3.0	0.9	038	31	3.4	0·8	049
0.9 ,,	31	6.2	2.7	275	30	5.8	0.7	252	31	8.7	5.4	248	30	3.7	1.5	258	25	3.7	1.5	241	31	3.7	1.4	210
1.5 ,,	27	7.1	2.5	328	30	5.6	0.2	117	30	8.6	0.8	282	30	6.2	5.4	246	22	7.3	6.3	241	31	6.9	6.2	239
2.1 ,,	25	4.7	2.6	058	29	5.7	2.1	074	30	7.0	3.4	084	30	8.5	3.8	246	17	9.9	9.4	249	31	8.4	8.1	248
3.0 ,,	25	7.0	5.5	066	23	6.3	4.3	051	30	7.0	5.3	078	30	10.2	9.6	266	12	11.6	11.2	258	31	10.9	10·1	264
3.6 ,,	23	8.0	6.5	060	19	6.9	4.7	053	29	7.9	5.6	071	28	10.9	10.5	269	7	13·1	12·8	264	31	12.4	11.6	270
4.5 ,,	23	8.5	6.2	068	11	6.1	2.7	045	21	8.5	5.2	102	28	11·8	11·1	268	5	15·3	13.9	271	31	13.5	12.8	273
5·4 ,,	17	7.5	3.1	065	10	6.4	2.1	059	19	6·1	2·6	080	27	13·2	12·6	267	3	17·8	15·0	276	29	14.5	13.5	269
6·0 ,,	14	8.3	1.6	038	9	6.6	1.8	229	13	6·2	1·0	226	27	13·3	12·7	261	3	17.3	16·9	273	28	15·2	14.7	268
7.2 ,,	10	7.5	2.2	255	6	7.4	1.9	318	6	8·1	4·3	312	23	15.1	14.4	260	2	21·7	21.5	262	26	18.6	18.0	267
9.0 ,,	8	8.4	2.9	286	5	8.8	7.3	287	2	6·5	5·0	083	13	20.8	19·1	261	1	24.5	24·5	260	21	28.2	27.2	267

Station	GAUHATI				GAYA																GOPALPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.9	1.4	030	31	1.5	0.6	130	31	2.6	1.1	304	31	3.7	2.5	331	31	2.5	1.6	084	31	3.1	2.7	215
0.15 a.g.	31	3.8	2.7	079	31	4.7	1.9	183	31	3·7	2.2	273	31	6.5	4.8	326	31	7.0	2.7	078	31	7.0	6.3	210
0.3 a. m. s. l.	31	3.8	2.7	082	31	4.7	2.6	197	31	3.8	2.5	271	31	6.6	5.0	325	31	7.0	2.5	080	31	7.0	6.1	219
0.6 ,,	29	3.5	1.7	092	31	5.1	3.8	244	31	3.8	2.6	275	31	6.7	5.5	321	31	6.6	1.6	067	31	6.0	4.8	225
0.9 ,,	28	3.5	1.1	250	31	5.1	4.0	272	31	4.7	3.7	266	31	6.9	5.9	317	30	5·1	1·7	319	31	5.1	3.7	237
1.5 ,,	27	7.3	5.7	245	31	6.0	5.4	292	30	7.6	6.9	272	31	7.1	6.2	305	30	6.3	4.8	296	30	4.4	1.9	255
2.1 ,,	25	8.2	7.0	258	30	8.0	7.4	298	25	8.0	7.5	284	28	8.6	8.3	295	26	7.7	7.1	298	28	4.8	1.8	357
3·0 ,,	15	10.1	8.4	262	28	11.0	10.4	290	13	9.0	8.9	287	25	11.5	11.1	292	16	10.0	9.2	290	24	5.8	3.4	013
3·6 ,,	8	9.9	9.5	265	17	12.1	11.7	290					22	13.3	12.9	292	6	10.5	9.3	291	21	5.9	4.7	005
4·5 ,,	5	9.0	8.1	265	8	12.3	11.7	286					15	17.4	16.8	293	1	15.0	15.0	305	17	5.3	2.9	346
5.4 ,,	3	7.5	7.3	242	3	13.5	13.3	254					9	14.4	14.1	282					14	5.9	1.4	286
6·0 ,,	2	9·3	7.0	312	2	13.5	10.0	253					6	13.7	13.3	284					12	6.1	2.2	276
7.2 ,,													3	17.0	16.3	280					4	3.0	1.7	114
9.0 ,,													2	30.3	28·5	267								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

May—1962 (Vaisakha 11,—Jyaistha 10, 1884 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5.7	4.7	201	31	5.2	4.4	210	31	1.7	1.4	060	31	1.4	0.9	274	31	1.4	1.1	268	31	2.3	1.9	287
0.15 a. g.	29	8.1	7.4	195	30	8.3	7.7	209	31	7.8	6.6	076	31	4.1	2·9	293	31	5.7	3.0	246	31	4.6	2.8	285
0.3 a. m. s. l.	29	8.3	7.1	197	30	8·1	7·8	215	31	9·0	7·5	088	31	4·6	3·5	289	31	4.7	2.7	247	31	4.2	2.5	299
0.6 „	27	5.6	4.4	201	30	7·2	6·3	217	31	7·9	5·5	122	31	5·5	4·5	283	31	6.9	2.8	266	31	4.8	3.0	286
0.9 „	27	3.9	2.4	222	29	5.8	4.5	218	31	6·5	2.6	165	31	5.9	5.1	283	31	6.9	3.0	290	31	4.8	3.1	285
1.5 „	26	3.9	1.4	322	26	3.5	1.3	213	31	6.6	5·1	285	31	7.2	6.7	278	31	6.0	4.2	302	31	5.2	4.0	279
2.1 „	25	4.4	1.9	010	25	4.1	0.8	012	31	9.6	9.2	291	31	9.2	9.0	283	30	6.9	5.9	302	31	6.1	5.1	281
3.0 „	22	5.4	3.6	026	23	4.1	2.1	006	30	13.7	13.3	295	31	13.6	13.3	290	24	8.7	8·2	299	31	7.5	6.4	287
3.6 „	20	5.8	4.2	021	5	6.0	4.8	354	30	13.6	13·3	292	30	15.2	15.1	292	23	9.5	8.7	287	31	8.6	7.4	288
4.5 „	15	6.0	2.6	355	2	8.5	8.3	338	15	14.8	13.6	290	28	16.7	16.1	290	21	11.1	9.4	286	31	10.3	9.0	279
5.4 „	11	5·8	2·9	297					6	12.4	12.1	303	19	15.7	14.8	288	21	12.0	10.5	284	30	12.6	11.3	281
6.0 „	11	5·9	4·0	272					4	10.5	9.9	287	16	16.0	15.0	283	19	12.3	10.9	282	30	41.1	13.1	278
7.2 „	9	7·7	4·0	269					2	10.0	8.3	303	9	21.3	20.5	280	18	18.1	16.2	279	27	18.1	17.0	279
9·0 „	5	7·0	6·7	248					2	14.1	11.8	305	3	23.2	22.3	289	8	24.2	23.6	275	15	24·4	22·4	271

Station	GWALIOR								IMPHAL/TULIHAL															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	1.4	297	31	1.0	0.7	300	31	0.4	0.2	248	31	2.3	0.9	270	31	2.8	2.2	298	31	1.1	0.2	233
0.15 a. g..	31	5.6	4.3	315	31	5.7	2.8	011	31	2.0	0.4	084	31	3.5	2.2	275	31	4.7	3.8	288	29	2.2	0.6	255
0.3 a. m. s. l.	31	5.1	3.8	315	31	4.7	2.2	360																
0.6 „	31	6.0	4.7	312	31	6.5	3.4	360																
0.9 „	31	6 0	4.8	309	31	5.7	3.1	338	31	1.8	0.4	083	30	3.1	1.7	272	31	4.6	3.6	290	29	2.0	0.4	258
1·5 „	31	6.5	5.4	304	31	5.4	3.6	304	31	4.1	2.8	257	30	4.3	3.3	257	31	5.0	4.6	260	29	4.3	3.5	243
2.1 „	30	6.6	5.7	294	31	6.5	5.5	290	27	8.1	7.5	258	25	7.4	6.5	254	30	8.3	8.0	261	28	8.6	7.7	257
3.0 „	29	7.5	6.8	286	27	8.4	7.3	282	13	12.6	12.2	275	14	9·8	8.7	278	18	10.8	10.3	275	15	9.8	8.4	272
3·6 „	29	8.5	8.0	277	7	9.1	7.7	270	4	10.1	9.8	277	7	12.1	10.6	275	11	12.9	11.9	275	7	10.1	9.3	280
4.5 „	28	10.5	9.6	278					1	15.0	15.0	280	2	14·7	14·7	260	5	11.7	11.5	268	1	8·5	8.5	210
5.4 „	28	13·6	12·4	278									1	14·0	14·0	255	1	21·0	21·0	280				
6.0 „	28	15.3	14.2	282													1	24·5	24·5	265				
7.2 „	24	18.7	17.8	279																				
9.0 „	11	23.5	22.1	284																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

May 1962 (Vaisakha 11,—Jyaistha 10, 1884 Saka)

Station	JABALPUR												JAGDALPUR											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.9	0.5	213	31	1.9	0.5	270	31	1.0	0.4	214	31	0.4	0.2	359	31	1.8	0.9	210	31	0.9	0.6	138
0·15 a. g. . .	31	6.8	3.6	211	31	6.7	1.7	300	31	7.0	1.8	246	30	4.2	2·6	229	30	4.4	2.0	227	30	6.4	5.1	180
0·3 a. m. s. l. .																								
0·6 „ .	31	7.4	3.6	229	31	6·8	1.8	298	31	7.2	1.9	256	30	1.7	1.0	232	30	3.3	1.4	229	30	4.4	3.6	179
0·9 „ .	31	8.3	4·3	267	31	6·2	2.5	298	31	7.9	2.7	266	30	6.1	4.3	236	30	4.6	2.1	260	30	6.5	4.9	188
1·5 „ .	31	7.2	4·5	292	31	6·0	3.5	297	31	6.4	3.6	286	30	5.7	3·6	265	30	4.4	2.7	305	30	4.2	2.4	212
2·1 „ .	30	5.9	4.3	304	31	6·4	4.7	303	30	5.7	3.8	298	30	5.4	2.1	303	29	4.9	3.1	330	29	3.3	0.6	275
3·0 „ .	28	6.0	4.3	320	28	5.7	4.1	303	29	5.7	4.0	300	29	5.7	2.7	007	26	5.0	2.4	016	29	4.6	2.6	020
3·6 „ .	26	7.1	5.1	310	24	6.0	5·0	311	17	6.2	4.4	315	28	5.6	3.6	017	17	4.9	3.4	023	14	6.1	4·7	0·4
4·5 „ .	20	7·7	6·1	293	18	6.9	5·9	300	3	8.8	8.5	286	18	5.5	3·7	019	12	6·8	3·9	003	3	5.3	3.7	330
5·4 „ .	11	8·0	7·2	306	11	10·3	9·2	299					15	5.6	2.0	007	7	7.6	7.1	344				
6·0 „ .	8	9.0	8.3	304	10	11.4	10.7	305					12	6.4	1.9	022	7	7.5	6.6	324				
7·2 „ .					6	11.3	10.5	289					5	9.3	2.1	259	1	8.0	8.0	200				
9·0 „ .					2	11.7	11.2	290					1	4.0	4.0	130	1	14.0	14.0	265				

Station	JAIPUR/SANGANER												JAMSHEDPUR											
Time in I. S. T.	0530				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.1	1.7	313	31	3.2	1.7	290	31	2.1	0.9	029	31	0·7	0.1	239	31	2.3	1.6	236	31	2.3	1.0	128
0.15 a. g. . .	31	7.4	2.2	288	30	5.5	3.3	285	31	7.4	4.7	290	31	3·8	2.4	227	31	3.6	3.1	239	31	3.9	1.1	149
0.3 a. m. s. l. .													31	4·0	3·2	227	31	3.7	3·3	238	31	4.1	0.9	157
0.6 „ .	31	7.9	2.1	282	30	5.7	3·5	282	31	7.7	2.7	309	31	7.7	7.0	239	31	4.6	4.0	248	31	4.4	0.9	201
0.9 „ .	31	8.1	3·6	280	30	5.8	3·8	283	31	7.6	3.8	295	31	9.2	8.3	250	31	5.5	4 7	262	31	4.1	1.4	247
1.5 „ .	31	6.2	4.5	289	29	6.1	4.3	283	30	6.5	4.4	296	31	7.6	7.0	268	31	6.4	5.0	282	31	4.9	3.0	275
2.1 „ .	30	6.8	5.8	292	24	6.0	4.7	283	29	7.1	6.0	287	29	6.3	5.6	287	28	6.1	4.7	282	30	6.5	5.0	288
3.0 „	20	7.2	5.1	300	22	7.4	6.4	288	24	7.4	6·3	286	27	7.3	6·1	303	13	5.8	4.0	286	22	7.5	6.5	299
3.6 „ .	16	10.0	4.8	306	21	7·8	6.7	286	21	9.0	7·4	270	20	8·5	7·1	300					13	8.5	7.5	310
4.5 „ .	4	8.9	3.4	286	20	9·1	8.2	291	5	9.7	9.3	277	12	10·6	9·5	308					8	9.2	8.2	297
5.4 „ .					17	10·0	9·8	301	2	10.0	8.9	273	5	6·4	5·3	261					6	12.6	11.3	288
6.0 „ .					15	11·2	10·3	298	2	12.5	10.6	275	3	9·3	8·9	260					3	13·7	13·3	291
7.2 „ .					6	19·1	17·1	286					1	10.0	10.0	315					1	17·0	17·0	280
9.0 „ .					1	20·5	20·5	260																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

May 1962 (Vaisakha 11,—Jyaistha 10, 1884 Saka)

Station	JHARSUGUDA												JODHPUR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·9	141	31	2·0	1·1	226	31	2·7	1·7	151	31	2·6	1·8	233	31	2·6	2·1	242	31	4·1	3.2	247
0 15 a.g.	31	5·0	3·4	179	31	4·4	1·9	228	30	7·7	5·5	178	31	7·9	2·2	272	29	5.0	3·6	237	31	7·3	5·1	269
0·3 a. m. s. l.	31	4·1	2·5	176	31	4·3	1·9	227	30	6·4	4·6	171	31	5·6	1·9	257	29	4.5	3·2	241	31	5·7	4·8	263
0·6 ,,	31	6·5	5·6	233	31	4·0	2·2	248	30	8·1	5·9	199	31	7·7	3·2	264	29	5.2	3·5	237	31	7·2	5·1	260
0·9 ,,	31	8·0	7·2	242	31	3·7	2·4	258	30	7·5	5·8	216	31	7.3	4·8	251	29	6·6	3·9	257	31	6·4	5·0	250
1·5 ,,	31	7·9	6·6	261	31	3·6	2·6	279	30	5·9	4·7	242	31	7·0	4·9	251	25	5·8	3·0	260	31	7·0	5·1	246
2·1 ,,	30	6 2	4·3	280	29	4·3	3·2	297	27	4·9	3·6	291	31	6·1	4·7	268	24	5·4	3·7	270	31	6·2	4·5	247
3·0 ,,	24	6·2	4·8	327	25	6·7	5·0	314	21	5·4	3·2	324	31	6·7	5·1	273	24	5·6	3·2	262	31	6·9	4·5	258
3·6 ,,	10	6·5	4·9	320	17	7·2	4·8	315	3	7·7	7·2	357	31	6·3	4·9	276	24	6·9	2·6	269	31	5·8	4·0	256
4·5 ,,					8	10·3	9·2	317					30	8·1	5·6	288	21	7·8	2·5	274	31	6·5	4·7	281
5·4 ,,					1	9·0	9·0	270					30	9·9	7.3	288	20	10·1	4 2	273	31	8·3	6·5	292
6·0 ,,													30	11·0	8·7	277	19	11·3	5·2	276	31	10·6	8·8	285
7·2 ,,													29	13·3	12·0	277	16	14·6	6·9	263	29	14·6	12·8	287
9·0 ,,													17	22·8	21·2	274	8	20·7	11·9	285	18	18·3	16·8	278

Station	JODHPUR				LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	1·3	247	31	1·8	0·5	088	31	3 0	2·6	312	31	1·3	0·5	255	31	2·6	1·4	271	31	3·8	0·4	002
0·15 a.g.	29	8.7	4·6	243	30	5·9	0·7	348	31	5·0	4·0	308	31	6·7	3·3	318	31	5·8	1·5	245	29	4·7	0·8	260
0·3 a. m. s. l.	29	7·3	3·9	240	30	6·0	3·5	022	31	5·2	4·2	307	31	6·7	3·5	320	31	6·1	1·8	235	29	5·1	1·4	253
0·6 ,,	29	9·5	5·2	253	30	6·1	2·6	310	31	5·8	5·2	299	31	6 9	5·1	321	31	6·7	1·7	230	29	5·0	1·7	269
0·9 ,,	29	8·9	5·3	261	30	5·9	4·2	310	31	6·0	5·5	298	31	7·5	6·7	316	31	7·1	1·2	220	29	5·2	1·7	278
1·5 ,,	27	7·3	4·7	280	29	6·7	5·9	304	30	7·0	6·6	290	30	7·7	6·3	331	31	5·5	1·3	005	27	4·8	1·4	009
2·1 ,,	25	5·8	3·9	285	29	8·6	7·8	300	27	8·3	7·9	286	27	9·0	7·9	296	31	5·3	2·7	032	24	5·0	2·3	053
3·0 ,,	21	6·4	4·3	298	25	12·7	11·6	297	26	10·9	10·3	283	16	10·1	9·0	285	30	7·1	4·5	052	20	5·3	3·3	054
3·6 ,,	12	7·1	3·9	305	17	11·8	10·9	285	25	13·3	12·5	285	5	10·6	8·6	275	29	7·9	5·9	059	18	5·3	3·6	052
4·5 ,,	3	5·2	5·1	357	9	12·0	11·5	285	21	15·8	15·4	285	1	11·0	11·0	230	29	7·7	4·6	072	14	5·1	2·7	060
5·4 ,,					3	10·7	10·5	277	17	16·0	15·2	289					28	7·2	4·1	070	13	5·1	3·0	048
6·0 ,,					1	8·0	8·0	235	11	16·4	15·5	288					29	6·2	3·1	068	12	5·4	2·4	036
7·2 ,,									3	21·5	19·5	295					30	7·1	2·1	079	10	5·9	2·2	041
9·0 ,,									1	14·5	14·5	270					22	8·2	2·7	138	9	9·0	1·8	053

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

May 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka)

Station	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·3	3·1	098	31	3.5	2 5	151	31	1·8	1.1	078	31	3·8	2·4	284	31	2.9	0·3	086	31	3·6	3·3	287
0.15 a.g.	29	6·3	4·3	098	31	6·4	4.8	159	26	4·2	1.5	052	27	5·7	4.3	281	25	5·0	0·5	297	29	7·1	6·2	292
0.3 a.m.s.l.	29	5·9	3·4	099	31	6.9	5.0	162	26	4.6	1.1	028	27	5·9	4.4	282	25	5 5	1.2	308	29	7·8	6·9	289
0·6 ,,	29	5·3	2·3	097	31	6.5	4·0	164	26	5·2	2·3	313	27	6·2	4·2	280	25	5·8	3.0	297	29	8·8	7·8	290
0·9 ,,	29	5·4	1·3	045	31	5.8	2.5	175	26	5·9	3·1	309	26	5·4	3·1	302	24	5·8	3·5	292	29	8.7	7·6	292
1·5 ,,	29	5·4	2·4	019	31	5.3	0.4	256	23	5·8	3.1	340	21	5·0	1·8	345	20	4·8	3·0	284	29	8·5	6·0	302
2·1 ,,	30	5·8	3·6	027	31	5.9	1·6	015	21	5·4	3.3	005	18	5.5	2·7	040	18	5·0	1·9	322	24	8.8	4·7	325
3·0 ,,	31	7·2	4·7	053	27	5.6	3·8	057	19	6·5	5·7	060	12	5.9	4·6	063	14	6·1	2.1	124	17	8.3	2·9	025
3·6 ,,	31	8·5	5·6	055	21	5.1	4·0	057	16	7.2	6·3	060	12	6·0	4·7	067	12	5.1	2.7	067	14	8·5	3·3	051
4·5 ,,	31	7·1	4·4	059	14	5·9	3·5	041	15	6.8	4.9	049	10	6·1	4·3	070	2	5·3	5.1	093	8	5.1	4.6	105
5·4 ,,	30	6·6	1·7	055	9	6·9	3.6	021	14	5·6	2.[illegible]	047	8	4.7	1.5	051					8	5·0	3.7	100
6·0 ,,	30	6·8	1·7	035	8	6·2	2.5	351	9	5.8	0.5	127	7	5·5	2.2	028					7	4·8	2.3	147
7·2 ,,	30	6·5	0·8	285	4	6.6	2.9	199	9	5.7	1.2	255	4	4·4	3·7	033					6	2.6	0.9	007
9·0 ,,	25	8·1	2·6	150	1	13·0	13.0	145	6	5.3	3 9	234	2	6.0	5.2	253					3	5.3	1.3	029

Station	MINICOY								NAGPUR/SONEGAON															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·5	4·1	288	31	4·1	3·5	287	31	1·6	0·9	258	31	2·4	1·5	267	31	2.7	1.0	273	31	2·0	0.9	227
0·15 a.g.	28	8·0	7·0	290	31	6·5	5.8	291	31	6·0	4·0	250	31	4·3	2.6	260	31	4.3	1.4	258	31	6.7	3·5	216
0·3 a.m.s.l.	28	8·0	7·1	288	31	6·9	6.0	292																
0·6 ,,	28	8.9	8·1	289	31	8·0	7·1	292	31	6.7	3.8	263	31	4.6	2.5	257	31	4.2	1·0	295	31	6.9	3.6	224
0·9 ,,	28	9·2	8·3	292	31	8·2	7·1	290	31	7·3	4.5	265	31	4.5	2.3	270	31	4.1	1·1	278	31	6.5	3·1	235
1.5 ,,	25	9·2	7·3	297	28	8·3	5·4	295	31	6·4	3·2	290	31	4·1	1·8	305	31	3.4	1·2	291	31	5·2	2·4	274
2·1 ,,	22	8·3	5·1	307	24	6·8	2·8	300	31	5·2	3·0	301	30	3·8	1.2	325	31	3.6	1·2	283	31	4.1	2.0	306
3·0 ,,	14	7·9	2·7	040	17	6·5	4·8	051	31	4·1	2·0	336	30	3·9	1·6	006	31	4·0	1.9	292	28	3.9	1.9	336
3·6 ,,	10	8·1	5·2	071	9	8·1	4·4	075	31	4·1	1.8	354	28	4·7	1·6	355	31	4·5	2·6	312	22	4·5	2.5	337
4·5 ,,	4	7.3	3·9	046	2	7·7	6·3	092	31	5·8	1.8	313	26	5·6	1·8	288	31	5·4	3·7	305	5	5·2	3·9	294
5·4 ,,	2	6·3	2·8	098	1	1·0	1·0	225	31	6·0	3·4	300	26	5.9	4·2	297	31	6·1	4·6	293				
6·0 ,,	1	12·0	12·0	005					31	7·1	4·9	294	25	6.7	5.2	304	31	6·9	5·4	288				
7·2 ,,									31	10·1	8·0	272	23	8.0	6·1	289	31	9·6	7·8	280				
9·0 ,,									31	12·5	10·2	266	14	9.3	6·5	255	31	13.8	11·1	262				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May 1962 (Vaisakha 11, —Jyaistha 10, 1884 Saka)

Station	NEW DELHI/SAFDARJUNG																POONA							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	1·6	290	31	3·9	2·7	292	31	3·7	2·4	303	31	2.3	1.3	270	31	0·6	0·4	235	31	1·7	1·3	287
0·15 a. g.	31	9·5	5·4	275	30	5·2	3.4	310	31	8·6	6·0	299	31	8.8	4·3	300	31	4·2	3·3	271	31	5·7	4·3	290
0·3 a. m. s. l.	31	3·8	2·8	285	30	5·1	3.4	310	31	7·2	3·3	296	31	7·1	3·7	301								
0·6 „	31	11·3	6·5	285	30	5·5	3.9	300	31	9.8	7·1	304	31	9·1	5·5	306	31	2·1	1·6	249	31	3·7	2·7	289
0·9 „	31	11·4	6·6	305	30	5·9	4·4	295	31	10·3	7.6	307	29	7·5	5·4	320	31	5·0	3·4	300	31	5·6	4·3	291
1·5 „	31	9·4	6·9	308	28	6·9	5.0	290	31	8·0	7·0	302	28	6·9	5.7	314	30	7.1	3·4	357	30	5·4	3.5	298
2·1 „	31	7·9	6·7	300	28	8·4	6.7	287	30	8.0	6·8	296	26	7·7	6·7	305	29	6·7	2·7	049	28	4·9	1·8	328
3·0 „	31	8·9	8·0	293	26	10·1	8.6	290	29	8·8	7·4	285	19	8·9	7·2	285	29	5.8	3·0	094	24	5·6	1·7	090
3·6 „	31	10·4	9·5	290	25	10·7	9·1	290	29	10·3	8·5	288	2	9·5	9.0	281	29	5.3	3·4	106	21	5·8	2·9	097
4·5 „	30	11·8	10·6	295	24	11·0	9.1	293	29	11·5	10·0	290					15	6·6	1.4	023	18	6.4	1·3	110
5.4 „	30	11·7	10·0	296	21	13·2	10.5	294	31	12·6	11·7	287					13	7·8	4·1	331	14	7·0	2·6	287
6·0 „	30	12·0	10·4	296	17	14·3	11.6	287	31	12·5	11·2	284					13	9·2	5·4	325	14	8·9	5·6	285
7·2 „	31	14·0	12·5	284	7	17·1	15.4	270	31	15·7	14·8	281					9	10·0	4·9	319	12	12·5	9·9	283
9·0 „	31	22·8	20·2	278	2	27·0	24·3	273	27	23·8	22·8	279					4	8·6	2·3	342	7	14·6	12·2	283

Station	POONA				PORT BLAIR																RAIPUR			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·7	253	31	1·6	1.2	234	31	3.1	1.6	190	31	2.0	1.5	228	31	2·6	2.0	217	31	2·0	1·5	218
0·15 a. g.	30	5·6	4·4	265	31	4·5	3.1	220	30	4·8	3·0	180	31	4.7	3.1	225	30	5·1	3.5	210	31	8·3	6·8	230
0·3 a. m. s. l.					31	5·0	3.4	215	30	4·9	3.2	184	31	4·6	3.1	225	30	5.3	3.7	210				
0·6 „	30	2·9	2·4	253	31	5·9	4.0	220	30	5.3	3.7	198	31	5.1	3.9	222	30	5.3	3.6	216	31	9·6	8·2	245
0·9 „	30	6·6	5·1	281	31	5·9	3.9	221	27	4.5	2.8	197	31	5·2	3.9	224	29	4.9	3·2	205	31	9·2	7·6	251
1·5 „	30	8·4	5·0	314	30	5·2	3.1	207	21	4.4	3.0	176	30	5·4	3.6	216	29	4.5	3·0	195	30	7·0	6·0	271
2·1 „	28	6·7	1·6	349	30	5·6	2.7	207	15	5.0	3·4	157	30	5.0	3·0	209	25	3.8	2.4	187	30	6.0	4·8	287
3·0 „	26	6·5	4·8	092	30	5·7	2·4	200	6	3.3	2·8	080	28	5.7	2.1	191	20	3.3	2.1	153	27	5·7	4.3	319
3·6 „	22	6·6	3·9	106	31	6·5	3·3	212	4	3.1	2.3	114	29	5.8	3.0	195	10	3.2	2·6	145	22	5·0	3.9	337
4·5 „	11	5·9	1·8	143	30	7·6	4·3	196	3	5.8	4.2	194	29	6.9	3.3	185	7	4.0	3·4	136	14	4·9	2·0	349
5·4 „	6	7·1	4·9	251	29	7·2	3·7	188	2	5.0	4.8	208	28	6.2	2.4	170	3	5·3	4.8	125	7	6·8	5.1	272
6·0 „	3	11·2	10·5	259	29	6·4	2·7	191	1	1.0	1.0	130	28	6.6	2.6	173	2	8.3	7·7	130	4	6·6	5·0	333
7·2 „					27	6·0	1·9	192					27	6.4	2.2	155								
9·0 „					22	6·3	3·7	119					24	6.3	3.1	124								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May 1962 (Vaisakha 11, —Jyaistha 10, 1884 Saka)

Station	RAIPUR								RAXAUL												SILIGURI/ BAGHDOGRA			
Time in I.S.T.	1730				2330				0530*				1130				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·9	0·1	260	31	2·6	1·3	185	31	1·4	1·1	068	31	2·5	2·3	099	31	1·4	1·2	073	31	2·5	2·3	080
0·15 a. g. .	28	4·1	1·2	284	30	9·7	5·3	201	30	8·2	7·3	086	31	5·7	5·1	107	31	6·3	5·0	072	28	6·0	5·6	076
0·3 a. m. s. l. .									30	9·2	8·4	096	31	5·8	5·4	106	31	6·2	5·0	072	28	6·2	5·9	082
0·6 „ .	28	4·2	1·3	258	30	9·9	5·2	209	30	8·0	7·1	110	31	6·3	5·4	109	31	5·0	3·8	073	28	6·9	6·7	084
0·9 „ .	28	4·4	1·7	275	30	8·1	4·3	217	29	5·9	4·2	123	31	5·7	4·4	113	31	3·4	0·6	096	26	6·3	6·0	080
1·5 „ .	27	4·1	1·8	291	30	5·5	3·0	251	29	4·8	2·4	243	24	4·7	1·5	210	30	5·0	4·1	251	20	2·9	0·5	112
2·1 „ .	27	5·4	2·6	303	30	5·1	2·3	253	28	8·6	7·9	280	17	7·3	7·0	270	30	8·9	8·5	266	16	6·2	4·7	265
3·0 „ .	24	6·3	3·8	317	24	5·4	3·4	325	23	12·9	12·8	286	7	10·7	10·6	278	27	14·1	13·7	284	10	11·7	11·0	276
3·6 „ .	21	7·0	4·8	324	10	4·9	3·4	342	18	14·2	14·1	285					22	14·6	14·4	284	10	13·3	13·2	277
4·5 „ .	12	8·0	6·6	326	1	9·0	9·0	010	12	13·3	13·2	285					12	11·5	11·3	287	4	13·9	13·9	280
5·4 „ .	9	7·5	5·7	305					6	11·7	11.0	276					3	13·2	13 1	275				
6·0 „	7	8·1	6·1	295					4	10·5	10.2	263												
7·2 „ .	4	13·6	11·5	271					2	17·0	16.1	271												
9·0 „ .	1	10·0	10·0	270																				

Station	SILIGURI/BAGHDOGRA												TIRUCHCHIRAPPALLI											
Time in I. S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·4	4·0	097	31	2·6	2·3	096	31	2·7	2·2	068	31	4·0	3·4	235	31	4·0	2·0	287	31	4·3	2·9	261
0.15 a. g. .	30	5·7	4·8	099	30	4·3	3·6	090	26	5·9	5·5	068	30	7·7	6·3	280	31	5·3	3·0	292	31	7·4	4·9	255
0.3 a. m. s. l. .	30	5·1	4·9	261	30	4·3	4·0	091	26	6·0	5·6	072	30	9·4	7·9	279	31	5·4	3·1	291	31	7·8	5·3	254
0·6 „ .	29	5.6	5·5	094	30	4·1	3·6	095	26	6·2	5·9	083	30	10·2	8·8	279	31	6·1	3·4	283	31	9·6	6·7	253
0·9 „ .	24	5·4	5·2	088	29	4·1	3·0	097	23	5·1	4·7	098	30	8·2	6·4	278	31	5·7	3·0	287	31	8·5	5·6	253
1·5 „ .	17	3·6	0·3	122	22	2·7	1·3	229	20	4·2	1·5	239	29	5·9	3·4	291	29	5·6	2·4	290	29	5·7	2·6	282
2·1 „ .	12	7·2	5·7	266	21	8·0	7·5	263	16	8·4	8·3	262	20	5·4	2·5	343	29	5·8	2·5	333	29	5·4	2·4	335
3·0 „ .	6	7·3	7·2	279	14	12·4	12·2	275	13	12·6	12·5	272	27	6·3	2·9	033	29	6·3	3·7	009	22	5·4	2·9	025
3·6 „ .					10	12·9	12·6	274	4	8·5	8·3	279	26	5·7	3·0	038	28	6·5	3·6	012	18	6·0	4·1	045
4·5 „ .					7	11·6	10·3	292					24	4·4	2·2	060	24	5·8	2·7	026	14	5·6	2.5	053
5·4 „ .					4	13·0	12·7	290					20	4·5	1·1	077	22	5·	3·0	027	7	4·7	3·1	044
6·0 „ .					2	13·0	13·0	282					19	5·1	0·8	085	21	6·2	2·7	017	2	5·5	1·9	077
7·2 „ .													13	4 8	0·2	337	11	4 7	1·3	052				
9·0 „ .													3	8·3	2·5	190	10	4·7	4·1	224				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

May, 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka)

Station	TRIVANDRUM																UDAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	2·0	348	31	3·2	2·8	316	31	3·3	2·8	304	31	2·6	2·4	332	31	0·2	0·2	285	31	1·6	1·4	251
0·15 a. g.	31	7·0	6·5	337	28	5·8	5·3	312	31	7·2	6·7	297	25	5·8	5·2	328	31	4·2	2·8	290	31	4·4	2·9	257
0·3 a. m. s. l.	31	7·0	6·4	336	28	5·8	5·4	311	31	7·5	7·0	298	25	6·9	6·1	323								
0·6 "	31	8·3	7·6	310	28	7·2	6·7	313	31	8·5	8·0	303	25	8·8	8·0	312								
0·9 "	31	8·9	8·0	303	26	8·5	7·8	310	31	8·6	7·9	303	24	8·9	8·1	310	31	5·6	3·3	293	31	5·2	3·5	260
1·5 "	31	8·0	6·0	304	21	8·2	6·6	312	31	8·7	6·9	307	22	8·9	7·3	312	30	6·5	3·9	290	31	5·3	3·9	264
2·1 "	31	7·9	4·7	306	14	7·8	4·0	344	31	8·3	5·3	315	20	8·5	5·5	331	30	4·8	2·3	286	31	5·0	3·6	265
3·0 "	31	8·9	4·6	312	9	9·2	5·1	356	31	9·1	4·6	314	18	7·7	3·1	024	30	4·9	2·3	309	30	4·7	2·9	262
3·6 "	31	7·9	4·2	313	7	9·9	5·8	326	31	8·3	4·1	307	12	5·9	1·7	072	30	5·5	2·3	300	27	5·2	1·8	253
4·5 "	31	7·2	3·4	300	5	8·2	6·0	339	31	7·2	3·5	297	12	4·5	0·6	066	24	7·6	4·8	308	25	5·9	2·4	279
5·4 "	30	6·2	2·7	305	3	4·3	4·1	346	31	6·6	3·0	292	8	4·5	1·6	059	19	9·3	6·3	324	22	8·7	5·0	281
6·0 "	30	6·1	2·7	302	2	4·7	4·3	015	31	6·2	2·2	307	6	5·1	0·6	075	13	8·9	7·7	314	21	12·0	9·0	283
7·2 "	30	6·0	2·4	275					31	5·7	1·9	284	4	6·3	3·0	076	1	7·5	7·5	025	15	14·6	12·5	289
9·0 "	30	7·4	1·1	195					26	6·1	1·2	143	2	3·5	1·7	208					3	20·7	20·6	286

Station	UDAIPUR				VENGURLA												VERAVAL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	1·0	267	31	1·0	0·3	028	31	3·5	2·2	241	31	1·7	0·2	193	31	4·0	2·3	287	31	5·8	4·7	261
0·15 a. g.	31	5·3	3·9	273	30	4·1	1·5	003	30	6·1	3·7	259	28	4·5	1·2	313	30	7·0	5·0	286	31	8·0	6·6	269
0·3 a. m. s. l.					30	5·1	1·9	334	30	7·3	4·4	273	28	5·5	2·0	310	30	8·0	5·9	290	31	8·9	7·4	271
0·6 "					29	5·9	2·3	321	30	7·8	4·1	272	27	6·1	2·6	317	28	7·9	5·4	285	31	7·1	5·0	273
0·9 "	31	5·9	4·6	285	24	6·4	2·8	334	29	6·8	2·5	282	24	6·5	3·2	331	24	6·9	3·7	271	31	6·2	4·2	280
1·5 "	31	6·7	5·1	286	16	7·7	5·9	343	23	6·1	2·8	346	21	5·6	4·4	324	24	5·7	1·3	260	31	5·0	1·8	296
2·1 "	30	5·3	3·6	273	12	5·5	2·4	321	19	7·2	2·9	358	16	6·0	3·9	341	21	4·9	1·1	082	31	5·1	1·1	297
3·0 "	27	5·4	2·0	291	10	5·7	3·4	078	14	5·0	2·9	059	12	6·0	4·9	066	21	5·4	3·0	077	30	5·7	0·5	350
3·6 "	15	4·6	2·2	075					13	4·9	3·1	103	4	8·7	7·9	062	11	5·5	2·0	093	29	5·8	0·3	263
4·5 "	2	6·0	5·2	030					13	4·0	1·5	110					3	5·7	4·2	047	28	6·6	1·6	295
5·4 "									13	5·1	1·6	273					1	10·0	10·0	335	28	7·8	3·0	311
6·0 "									13	7·4	3·2	258									27	8·0	4·4	308
7·2 "									7	6·7	3·5	302									24	9·4	5·6	303
9·0 "																					20	9·9	6·4	281

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

May 1962 (Vaisakha 11,—Jyaistha 16, 1884 Saka)

Station	VERAVAL				VIJAYWADA/GANNAVARAM												VISHAKHAPATNAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·0	3·8	277	31	2·3	0·1	166	31	4·2	1·5	154	31	2·9	1·9	163	31	1·6	1·3	269	31	4·0	2·8	187
0·15 a.g. .	31	8·5	6·8	285	30	5·3	1·5	172	29	4·9	2·0	162	31	7·2	4·3	171	30	4·7	3·1	294	31	5·0	3·1	193
0·3 a.m s.l. .	31	9·2	7·3	287	30	6·9	2·9	194	29	4·9	1·9	156	31	8·0	4·8	171	30	5·0	3·2	266	31	4·6	2·6	204
0·6 „ .	31	8·8	6·7	285	29	8·1	3·4	199	29	4·4	1·6	156	31	8·4	4·5	167	30	5·4	4·4	233	31	4·3	2·1	247
0·9 „ .	30	7·1	4·9	283	29	8·0	2·4	195	29	4·1	0·6	166	31	7·2	2·7	156	30	4·8	3·7	240	29	4·4	2·3	276
1·5 „ .	28	6·0	1·9	270	29	5·3	1·6	091	29	5·0	1·7	008	31	5·9	1·7	060	30	4·9	0·5	278	28	4·8	1·2	327
2·1 , .	28	5·5	0·4	095	28	4·8	3·2	063	28	5·9	2·9	041	31	6·5	2·8	045	30	4·9	1·5	054	26	4·8	2·6	042
3·0 , .	28	5·4	1.6	075	28	6·4	4·7	048	27	7·1	4·9	062	31	6·0	3·6	062	30	5·4	3·8	037	23	5·4	3·9	045
3·6 „ .	21	6·2	1·5	077	24	6·8	4.7	046	24	5·9	4·6	064	24	5·6	3·4	084	30	5·5	4·1	029	21	5·5	4·2	040
4·5 „ .	6	4·3	1·4	010	23	6·4	4·5	056	24	6·1	3·9	064	20	5·5	2·4	067	30	5·7	3·7	023	20	5·9	3·8	036
5·4 „ .	3	5·3	3·8	351	20	7·1	3·6	040	24	6·4	2·1	030	13	5·1	0·8	086	29	6·0	2·0	012	17	6·1	1·8	015
6·0 „ .	3	6.8	5.3	001	19	8·8	3·4	020	21	6·5	2·7	340	12	6·0	0·8	342	29	7·0	2·2	359	17	7·2	2·5	315
7·2 „ .	2	7.0	6.9	359	12	9·4	2·2	238	18	6.8	2.2	291	3	2·2	2·0	253	29	8·2	1·8	326	14	9·7	5·8	245
9·0 „ .	1	6.0	6.0	350	7	9·5	5·8	229	16	10.9	3.7	256					23	9·2	5·5	238	4	17·4	16·9	244

Station	VISHAKHAPATNAM							
Time in I.S.T.	1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface . .	31	2·4	0·4	264	31	1.7	1.0	123
0·15 a.g. .	31	4·2	0·7	279	31	3.2	2.1	212
0·3 a.m.s.l. .	31	4·4	1·0	250	31	3.9	2 6	220
0·6 „ .	31	4·2	2·7	222	31	4.9	2.9	223
0·9 „ .	31	3·7	2·2	252	31	4.6	2.4	221
1·5 „ .	31	3·8	1·6	343	29	4.0	0.5	130
2·1 „ .	31	4·7	2·1	023	25	5.4	2.0	051
3·0 „ .	31	5·5	3·2	041	24	5.6	3.3	053
3·6 „ .	31	6·0	4·1	048	14	6.3	3.1	056
4·5 „ .	31	5·0	3·0	050	10	6.7	3.4	314
5·4 „ .	31	5·2	1·4	028	5	8.6	4.8	296
6·0 „ .	31	6·4	1·9	270	5	9.7	6.1	296
7·2 „ .	31	7.9	2.7	267	1	7.0	7.0	260
9·0 „ .	28	8.6	5.1	252				

TABLE V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9 Km. above mean sea level

May 1962 (Vaisakha 11,—Jyaistha 10, 1884 Saka)

AGARTALA

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	20.5	20.5	265

1730 hr.

Ht. in Km.	n	V	v	D
10.5	3	18·8	17·7	256
12.0	2	20.7	19.7	263
14.1	1	12.5	12.5	220

AHMADABAD

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	19	19.3	17.8	280
12.0	14	17.1	15.9	265
14.1	6	20.0	18.6	265
16.2	3	17 0	10.3	248
18.0	3	7·7	1·0	245

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	19	22·5	21·0	275
12.0	14	22.0	20.3	271
14.1	3	32.5	26.7	288
16.2	1	10.5	10.5	030
18.0	1	9.0	9·0	095

ALLAHABAD BAMHRAULI

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	20	24.1	22.3	258
12.0	10	26.8	26.2	260
14.1	3	19.3	19 0	271
16.2	1	6.5	6.5	235
18.0	1	6·5	6·5	120

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	12	24.0	22.0	263
12.0	2	46.7	46.6	250

ANANTAPUR

0530 hr.

Ht. in Km.	n	V	v	D
10.5	4	7.4	2.3	249
12.0	3	12.2	2.3	157
14.1	1	24.0	24.0	0,5

1730 hr.

Ht. in Km.	n	V	v	D
10.5	2	11.0	3.1	077

BAHRAICH

1730 hr.

Ht. in Km.	n	V	v	D
10.5	5	29.6	26.6	277
12.0	1	36.0	36.0	315
14.1	1	49.0	49.0	285

BANGALORE

0530 hr. @

Ht. in Km.	N	V	v	D
10.5	15	7.5	2.5	184
12.0	14	9.4	3.6	128
14.1	13	11.4	8.5	101
16.2	11	12·7	12·3	087
18.0	10	7.9	6.4	032
21.0	3	7.3	6.7	106

1130 hr.

Ht. in Km.	n	V	v	D
10.5	7	11.0	3.9	197
12.0	5	9.3	2.3	255
14·1	5	7.6	5.7	082
16·2	4	17.0	16 7	105
18.0	4	14.3	12.7	088
21.0	1	10.5	10.5	000
24.0	1	6.0	6.0	050

1730 hr.@

Ht. in Km.	n	V	v	D
10 5	13	9.2	2.2	168
12.0	12	11.1	3.2	115
14.1	9	12.4	8.3	097
16.2	7	18.1	17.4	105
18.0	5	13.0	10.8	090

BEGAMPET

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	5	7.6	1.0	231
12.0	3	5.1	4.8	094
14 1	1	11.5	11.5	020
16.2	1	2.5	2.5	190

BHAGALPUR

1730 hr.

Ht. in Km.	n	V	v	D
10.5	2	29.3	28.7	254
12.0	1	22.5	22.5	260

BHOPAL BAIRAGARH

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	25.0	25.0	295
12.0	1	24.0	24.0	270

BHUBANESHWAR

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	2	7.5	7.5	252
12.0	1	13.5	13.5	265

BHUJ RUDRAMATA

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	2.0	2.0	015

1730 hr.

Ht. in Km.	n	V	v	D
10.5	6	10.2	3.9	221
12.0	5	10.7	10.2	2[illegible]
14.1	4	8.6	8.3	234
16.2	3	6.0	3.9	223
18.0	2	9.7	2.7	254
21.0	1	28.0	28.0	275

BIKANER

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	30.5	30.5	270
12.0	1	20.0	20.0	280

1730 hr.

Ht. in Km.	n	V	v	D
10.5	1	35·0	35·0	300
12.0	1	35.0	35.0	265

BOMBAY SANTA CRUZ

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	28	10.8	6.6	266
12.0	28	12.0	6.6	262
14.1	14	16.3	12.3	259
16.2	6	14.1	7.3	253
18·0	1	14.0	14.0	095

1130 hr.

Ht. in Km.	n	V	v	D
10.5	4	15.1	11.2	298
12.0	4	18·5	15.0	280
14.1	1	16 0	16.0	250
16.2	1	12.0	12.0	255
18.0	1	4.0	4.0	175

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	26	10·8	7·0	273
12.0	24	12·0	7·0	271
14.1	14	12·2	3·7	238
16.2	3	19·8	9·3	270
18.0	1	14·5	14·5	085

CALCUTTA DUM DUM

0530 hr.*

Ht. in Km.	n	V	v	D
10 5	17	16·3	14·9	257
12·0	14	15 6	14 6	256
14·1	7	13·6	10·3	268
16·2	1	10·5	10·4	235
18.0	1	9·5	9·5	070

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	7·5	7·5	285

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	19	14·6	13.9	265
12 0	15	15 6	15·0	260
14 1	7	9.1	3.0	258
16·2	4	8.6	2.2	110
18.0	3	9.0	5.9	076

DIBRUGARH MOHANBARI

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	12.0	12·0	255

GADAG

0530 hr.

Ht. in Km.	n	V	v	D
10·5	6	9·9	3 4	248
12.0	5	6.6	5.7	250
14·1	3	3.5	2.5	287
16·2	2	4.0	3.9	086
18.0	1	6.5	6.5	105

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	10.5	6.6	288
12 0	4	9.4	3.7	247
14·1	4	6.7	2.7	220
16·2	3	9.0	3.4	080
18 0	2	13.7	12.5	124

GAUHATI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	12	23·5	21·1	256
12·0	9	26·7	25·4	254
14·1	5	20·8	20·6	251
16·2	1	12·5	12·5	270

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	12	31·9	30·4	264
12.0	8	27·8	26·9	259
14·1	2	22·0	21·7	243
16.2	1	22·5	22·5	250

GOPALPUR

1730 hr.

Ht. in Km.	n	V	v	D
10.5	4	8.7	7.5	246
12·0	3	2.5	2·3	212
14·1	1	5.5	5.5	125

GWALIOR

0530 hr

Ht. in Km.	n	V	v	D
10.5	2	18·7	18 3	270

1130 hr.

Ht. in Km.	n	V	v	D
10·5	6	29·2	26·9	271
12·0	1	25·0	25·0	305

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	26.9	24.3	297
12·0	1	42·0	12.0	315

JAGDALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	3.0	3.0	110

JODHPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	10	23.0	21.0	265
12·0	2	28.7	28.0	258

1130 hr.

Ht. in Km.	n	V	v	D
10·5	7	28·5	61·8	287
12·0	3	21·5	21·5	265
14·1	2	17·5	17·5	250
16.2	1	20.0	20.0	255

1730 hr.*

Ht. in Km.	n	V	v	D
10 5	12	26·4	25·6	276
12.0	5	28.7	27.1	281
14.1	1	54.5	54.5	270

MADRAS MINAMBAKKAM

0530 hr*.

Ht. in Km.	n	V	v	D
10·5	23	8.8	3.7	147
12.0	17	10·2	3·3	142
14.1	12	11·7	4·6	106
16.2	5	10·3	5·6	099
18·0	2	9.7	9·7	139

1130 hr.

Ht. in Km.	n	V	v	D
10·5	6	9.7	1.5	217
12.0	5	10.5	2.9	161
14.1	3	13·3	8·0	060
16·2	1	7·0	7·0	090
18·0	1	8.0	8.0	085
21·0	1	8.0	8.0	080

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

May 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka)

Ht. in Km.	n	V	v	D
	MADRAS			
	MINAMBAKKAM			
	1730 hr.*			
10·5	24	8·8	4·3	155
12·0	18	10·0	6·7	105
14·1	12	16·0	14·0	091
16·2	7	15·1	12·4	107
18·0	3	12·7	10·9	115
21·0	1	12·5	12·5	100
	2330 hr.			
10·5	1	13·0	13·0	145
12·0	1	12·0	12·0	115
14·1	1	9.5	9.5	100
	MANGALORE			
	BAJPE			
	1730 hr.			
10·5	1	12·5	12 5	215
	NAGPUR			
	SONEGAON			
	0530 hr.*			
10·5	30	13·8	12·4	260
12 0	28	14·9	12·4	258
14·1	25	12·7	10·9	238
16·2	16	11·9	8·4	233
18·0	11	7 9	2·4	213
21·0	5	6·2	5·3	100
	1130 hr.			
10·5	8	9·1	6·9	232
12·0	6	10·2	6·6	234
14.1	3	9 0	8·2	251
16·2	1	6·0	6·0	080
	1730 hr.*			
10·5	31	13·2	11·8	259
12·0	30	14·5	12·9	259
14·1	27	12·4	7·9	248
16·2	12	9·7	6·1	226
18·0	6	8·3	6·4	110

Ht. in Km.	n	V	v	D
	NEW DELHI			
	SAFDARJUNG			
	0530 hr.*			
10·5	31	28·0	26·8	273
12·0	31	33·0	31·5	272
14.1	29	31·3	30·2	265
16.2	27	20·9	19·9	261
18·0	26	9·3	9·1	262
21.0	13	6·7	2·4	093
	1730 hr.*			
10·5	26	32·4	31·7	275
12·0	23	32·1	31·3	272
14·1	19	29·2	28·5	268
16·2	16	19·5	19·1	262
18·0	13	10·3	8·2	261
21·0	7	6·6	1·6	261
24·0	4	6·9	4·5	175
	POONA			
	1730 hr.			
10·5	2	8·7	3·5	110
12·0	2	12·5	5·0	116
	1730 hr.			
10·5	5	16·9	14·8	077
12.0	2	16·5	4·9	272
	PORT BLAIR			
	0530 hr.*			
10·5	21	7·0	6·3	103
12·0	16	9·6	7·8	093
14·1	9	11·6	8·3	114
16·2	5	12·7	11·9	083
18·0	2	26·0	26·0	075
21·0	1	27·0	27·0	080
	1730 hr.*			
10·5	19	9·5	5·6	113
12·0	13	14·0	13·5	093
14·1	9	19·1	16·9	096
16·2	4	25·0	24·3	090
18·0	1	30·5	30·5	100
	TIRUCHCHIRAPPALLI			
	0530 hr.*			
10·5	1	7·0	7·0	225

Ht. in Km.	n	V	v	D
	1730 hr.			
10.5	1	8·0	8·0	210
	TRIVANDRUM			
	0530 hr.*			
10·5	29	7·6	1·6	147
12·0	27	11·2	6·7	098
14·1	24	15·3	13·1	092
16·2	18	20·6	19·7	097
18·0	12	16 7	16·4	079
21.0	5	13·2	1·2	107
	1730 hr.*			
10·5	26	8·9	3·2	122
12·0	26	11·2	7·7	093
14·1	23	16.3	14.8	084
16·2	21	20·5	20·2	091
18·0	16	15·5	14·8	090
21.0	5	8·7	4·2	266
	VERAVAL			
	1730 hr.			
10·5	19	12·5	9·4	282
12·0	10	9·1	4·7	261
14·1	6	10·0	1·3	215
16·2	4	9·3	4·7	178
18·0	1	5·5	5·5	275
	VIJAYWADA			
	GANNAVARAM			
	0530 hr.			
10·5	4	5·9	4·5	156
12·0	1	10 0	10·0	185
14·1	1	6·5	6·5	205
16·2	1	6·5	6·5	090
	1730 hr.			
10·5	12	11·3	7·3	250
12·0	10	11·7	8·0	249
14·1	3	9·7	7·5	274
16·2	2	6·0	3·1	244
18·0	1	6·0	6·0	140
21·0	1	14·5	14·5	260

Ht. in Km.	n	V	v	D
	VISHAKHAPATNAM			
	0530 hr.*			
10·5	21	10·1	7·4	235
12·0	20	11·0	7.9	239
14·1	18	8·7	4·7	228
16·2	16	6 5	2·4	160
18·0	11	6·7	5·0	105
21·0	3	10·0	9·9	114
	1130 hr.			
10 5	1	15·0	15·0	265
12·0	1	11·0	11·0	235
14·1	1	3·5	3·5	225
16·2	1	5·0	5·0	205
	1730 hr.*			
10·5	23	10·7	8·1	246
12·0	21	11·9	7·4	250
14·1	17	10·3	2·4	217
16.2	13	9·8	6·5	123
18·0	10	9·9	8·7	094

RADIOSONDE DATA

May 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka)

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

LIST OF RADIOSONDE STATIONS IN INDIA

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

RADIOSONDE DATA

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

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

May 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (998 mb.)						ALLAHABAD/BAMHRAULI (990 mb.)						BANGALORE (906 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	055	301·4	307	299	294·1	31	098	300·5	305	297	289·9	30	921	294·5	297	292	29
1000	29	035	..	..	..	..	31	010	..	..	..	.	30	065	..	..	..	..
900	29	968	299·2	303	293	284·2	31	954	303·3	307	298	279·1	30	981	294·2	296	292	29
850	29	1468	296·3	300	292	279·4	31	1461	299·9	305	296	275·9	30	1476	292·3	296	290	28
800	29	1994	292·8	296	289	277·4	31	1992	295·5	301	292	274·2	30	1997	290·3	292	288	28
700	29	3121	283·8	289	277	270·5	31	3133	285·2	291	281	268·4	30	3124	283·0	284	281	27
600	29	4384	273·4	280	270	263·2	31	4401	274·9	278	271	262·8	30	4390	275·5	279	271	26
500	29	5825	264·3	271	257	..	31	5843	265·9	270	261	..	30	5845	268·3	271	265	..
400	29	7526	254·4	260	247	..	31	7556	256·7	264	249	..	30	7565	257·3	262	254	..
300	23	9624	240·8	249	230	..	31	9673	243·9	250	237	..	28	9679	243·2	251	234	..
250	19	10896	232·6	239	224	..	29	10960	237·4	246	229	..	28	10952	233·1	240	224	..
200	18	12373	221·4	227	215	..	28	12489	228·3	234	223	..	28	12439	221·8	230	214	..
175	13	13258	216·5	220	210	..	25	13379	222·0	227	218	..	27	13291	214·1	224	205	..
150	11	14241	210·5	215	202	..	23	14375	214·9	221	209	..	25	14223	206·3	214	194	..
125	10	15322	202·9	207	191	..	20	15509	207·6	214	203	..	24	15306	200·6	209	195	..
100	10	16651	196·0	201	188	..	16	16854	201·1	208	195	..	23	16609	194·4	202	189	..
80	7	17948	197·3	205	190	..	12	18150	199·7	211	193	..	22	17933	195·3	201	191	..
70	6	18714	201·0	206	195	..	10	18953	203·3	209	197	..	21	18712	198·2	205	191	..
60	..	..	..	..	..	..	9	19872	206.7	216	199	..	20	19611	201·8	211	191	..
50	..	..	..	..	..	..	8	20972	214.1	223	204	..	18	20654	206·5	217	192	..
40	..	..	..	..	..	..	8	22395	219.1	227	212	..	6	22045	208·2	215	204	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTACRUZ (1003 mb.)						CALCUTTA/DUMDUM (1003 mb.)						GAUHATI (1000 mb.)					
Surface	31	013	300·1	302	298	296·9	31	006	300·2	304	296	297·9	31	049	296·1	298	293	294
1000	31	044	..	..	..	..	29	033	..	..	..	..	31	049	..	..	..	..
900	31	972	297·1	301	292	288·3	29	961	296·6	301	293	288·4	31	965	293·5	298	289	288
850	31	1471	295·6	298	291	283·2	29	1460	294·9	300	291	283·8	31	1458	291·3	295	287	286
800	31	1996	292·4	295	289	280·4	29	1984	291·5	296	287	281·1	31	1976	288·4	293	284	283
700	31	3129	284·5	288	281	274·3	29	3114	283·8	287	279	274·2	31	3095	281·4	286	277	276
600	31	4397	275·7	279	271	266·7	27	4376	274·4	279	270	265·0	29	4355	274·5	278	270	266
500	31	5850	267·9	273	263	..	26	5828	266·7	272	261	..	29	5812	267·1	271	262	..
400	31	7558	258·7	268	253	..	26	7545	257·2	263	253	..	29	7522	258·0	263	253	..
300	31	9693	244·9	250	238	..	21	9652	245·0	259	239	..	20	9665	246·5	252	241	..
250	30	10976	232·8	239	229	..	18	10957	236·8	246	230	..	20	10960	238·1	245	232	..
200	30	12486	225·5	231	221	..	15	12468	226·4	232	219	..	15	12499	229·0	236	222	..
175	26	13348	218·9	224	214	..	12	13332	219·6	224	213	..	14	13375	223·5	231	218	..
150	24	14319	211·7	218	205	..	10	14313	212.8	217	206	..	12	14404	218·0	224	211	..
125	20	15430	204·3	211	197	..	9	15453	206.1	214	203	..	9	15492	210·0	216	201	..
100	12	16724	197·1	203	189	..	7	16732	198.4	204	197	..	9	16862	203·4	210	195	..
80	6	18034	197·2	200	191	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

May 1962 (Vaisakha 11 —Jyaistha 10, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR (978 mb.)						MADRAS/MINAMBAKKAM (1003 mb.)						NAGPUR/SONEGAON (969 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	218	302·3	307	298	286·2	31	015	300·8	303	298	297·6	31	316	300·9	305	295	288·8
1000	31	019	..	..	..	..	31	038	..	..	..	..	31	028	..	..	..	..
900	31	955	301·4	306	295	283·3	31	963	296·1	301	291	288·6	31	963	300·5	305	297	284·3
850	31	1458	299·3	308	294	278·5	31	1459	293·6	298	289	284·9	31	1466	297·3	301	253	281·4
800	31	1987	295·4	300	289	276·6	31	1981	290·9	295	287	281·4	31	1993	293·2	296	289	279·8
700	31	3125	285·7	290	281	273·2	31	3108	283·7	289	281	273·2	31	3128	284·1	288	279	274·1
600	30	4393	275·6	279	270	263·4	31	4374	275·5	281	271	264·5	31	4391	273·2	279	270	268·2
500	30	5841	265·8	269	258	..	31	5825	267·7	273	261	..	31	5832	265·0	269	261	..
400	29	7543	255·0	264	243	..	31	7543	257·2	263	252	..	31	7534	254·5	260	250	..
300	18	9635	247·8	250	235	..	27	9656	243·3	251	239	..	31	9624	240·5	246	232	..
250	13	10926	236·6	244	230	..	22	10919	233·3	243	225	..	30	10887	230·1	237	223	..
200	7	12392	228·1	232	224	..	18	12386	219·2	229	212	..	28	12367	220·7	229	211	..
175	7	13277	224·2	228	218	..	17	13230	213·5	222	205	..	27	13207	213·9	221	206	..
150	7	14281	220·5	228	214	..	15	14225	206·5	217	197	..	23	14161	207·1	215	201	..
125	5	15400	214.0	221	204	..	11	15267	200·0	207	191	..	21	15222	200·3	209	193	..
100	5	16791	207.4	211	201	..	7	16637	198·0	207	191	..	18	16554	195·2	204	190	..
80	..	..	..	..	..	..	..	..	..	..	..	..	13	17836	197.2	205	191	..
70	..	..	..	..	..	..	..	..	..	..	..	..	11	18580	158·1	210	190	.
60	..	..	..	..	..	..	..	..	..	..	..	..	10	19486	201·6	215	194	..
50	..	..	..	..	..	..	..	..	..	..	..	..	8	20547	204·5	211	197	..
40	..	..	..	..	..	..	..	..	..	..	..	..	7	21922	210·3	217	200	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (978 mb.)						PORT BLAIR (998 mb.)						TRIVANDRUM (999 mb.)					
Surface	31	209	299·3	306	293	286·6	31	079	298·5	301	297	297·5	31	064	298·4	300	296	295.9
1000	31	008	..	..	..	..	31	061	..	..	..	..	31	055	..	..	..	..
900	30	944	302·6	308	296	277·9	31	983	294·6	297	291	292·0	31	979	293·9	297	292	289·7
850	30	1450	299·1	304	293	274·3	31	1477	291·7	293	287	289·1	31	1473	291·5	294	289	286·6
800	30	1979	294·6	301	288	272·5	31	1996	289·3	292	284	286·1	31	1991	288·7	292	285	283.5
700	30	3117	285·8	293	279	267·9	31	3121	283·6	287	278	279.4	31	3116	282·7	285	278	274·7
600	30	4385	274·9	284	270	259·1	30	4391	276·8	281	273	273·3	31	4381	275·8	279	271	268·2
500	30	5829	264·3	274	259	..	30	5851	269·1	273	263	..	30	5837	268·0	271	264	..
400	30	7524	253·9	261	240	..	30	7580	259·4	266	252	..	30	7557	257·3	265	251	..
300	29	9609	240·9	251	234	..	29	9714	245·6	254	236	..	30	9671	243·2	253	236	..
250	28	10873	233·6	244	226	..	29	10997	235·9	248	227	..	29	10949	234·0	246	225	..
200	26	12371	225·8	235	219	..	29	12498	224·6	236	210	..	29	12433	222·3	233	211	..
175	24	13243	221·4	229	213	..	23	13651	216·9	234	207	..	27	13276	214·8	221	203	..
150	24	14231	216·4	223	207	..	20	14301	209·2	229	198	..	26	14247	207·0	215	195	..
125	23	15359	210·3	217	201	..	17	15394	200·2	217	191	..	25	15324	200·2	212	190	..
100	22	16710	205·0	215	197	..	15	16719	199·1	207	189	..	23	16743	194·4	210	184	..
80	18	18055	205·2	210	199	..	9	18102	197·2	205	192	..	17	17940	195·8	207	188	..
70	15	18835	207·9	211	202	..	6	18862	199·5	207	193	..	16	18716	197·6	214	189	..
60	14	19786	211·5	215	206	..	5	19823	201·6	209	193	..	15	19620	199.4	215	191	..
50	12	20930	215·4	219	210	..	..	..	..	..	..	..	14	20702	203.0	219	188	..
40	7	22328	219.6	221	216	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

May 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka)

Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (979 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	301·7	305	299	298·2
1000	31	037	..	..	..	..
900	31	970	297·6	304	293	289·5
850	31	1470	295·4	301	290	285·9
800	31	1995	292·3	295	287	281·6
700	31	3128	284·6	288	281	273·1
600	31	4396	274·9	290	270	266·2
500	31	5847	267·1	271	263	..
400	31	7565	256·6	267	252	..
300	25	9677	243·6	253	238	..
250	23	10959	233·9	242	225	..
200	21	12438	221·7	230	211	..
175	19	13290	215·7	225	204	..
150	18	14232	209·3	219	196	..
125	17	15324	203·0	212	187	..
100	15	16660	195·8	209	186	..
80	11	17877	196·0	204	183	..
70	11	18670	198·5	206	192	..
60	5	19560	198.8	205	189	..
50	5	20603	203·0	209	199	..
40						
30						
20						
10						

RADIOSONDE DATA

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

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

May 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka).

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (995 mb.)						ALLAHABAD/BAMHRAULI (987 mb.)						BANGALORE (904 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	055	313·1	316	308	289·4	31	098	313·5	317	309	287·9	30	921	302·0	306	296	291·2
1000	28	011	.	..	..	..	31	—018	..	..	..	..	30	919	..	..	..	..
900	28	967	305·1	311	299	282·8	31	946	307·1	314	304	281·0	30	961	301·5	306	295	290·3
850	28	1476	299·8	305	295	281·3	31	1459	302·2	307	297	277·6	30	1464	297·1	301	292	287·1
800	28	2005	294·9	301	290	280·1	31	1993	297·3	301	292	276·8	30	1990	292·3	297	289	284·8
700	28	3142	284·6	291	279	272·5	31	3141	287·1	294	282	271·8	30	3120	284·1	287	279	278·7
600	28	4410	275·2	283	268	263·1	31	4418	276·9	282	272	262·5	30	4387	276·1	281	271	269·7
500	28	5860	266·4	275	254	..	30	5874	268·0	273	260	..	30	5842	268·2	273	263	..
400	28	7569	255·1	264	247	..	29	7597	258·4	266	251	..	30	7563	258·1	263	252	..
300	28	9663	241·3	253	231	..	27	9734	246·2	254	238	..	29	9688	244·9	249	239	..
250	24	10927	232·8	243	217	..	26	11035	239·6	246	230	..	25	10978	235·3	240	228	..
200	21	12436	221·5	229	207	..	25	12582	230·4	238	225	..	25	12479	223·3	228	214	..
175	20	13284	215·9	222	205	..	23	13476	225·0	231	221	..	25	13337	216·5	224	208	..
150	18	14275	209·7	219	198	..	20	14486	218·3	225	210	..	25	14302	208·8	216	201	..
125	16	15393	204·6	217	197	..	14	15628	210·9	218	202	..	25	15389	201·4	208	195	..
100	12	16727	198·7	212	190	..	11	16990	204·1	211	198	..	23	16694	194·8	205	187	..
80	8	18067	195·8	201	191	..	9	18338	201·4	206	195	..	22	18002	197·0	202	191	..
70	5	18831	200·4	202	198	..	9	19131	205·8	212	200	..	18	18816	198·7	217	192	..
60	..	..	..	..	..	..	7	20124	210·7	216	205	..	16	19747	202·0	207	191	..
50	..	..	..	..	..	..	5	21304	216·8	221	212	..	15	20795	206·0	214	196	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22119	209·6	217	202	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (1002 mb.)						CALCUTTA/DUM DUM (1001 mb.)						GAUHATI (997 mb.)					
Surface	31	013	304·6	306	302	297·5	31	006	304·7	308	300	297·8	31	049	301·1	306	293	295·8
1000	31	032	..	..	..	..	31	013	..	..	..	..	31	020	..	..	..	..
900	31	969	299·6	305	294	286·3	31	950	298·7	303	293	290·3	31	947	295·5	301	290	290·2
850	31	1472	296·6	301	290	281·6	31	1452	297·1	303	291	285·5	31	1443	292·9	297	287	286·8
800	31	1999	293·8	299	288	279·3	31	1980	294·0	300	288	281·7	31	1963	289·8	294	283	283·2
700	31	3138	286·1	292	283	273·9	31	3119	285·5	292	281	274·9	31	3086	282·7	286	280	273·7
600	31	4411	277·3	283	273	265·7	30	4392	276·6	285	272	265·5	31	4348	275·5	279	272	261·1
500	31	5874	269·2	273	263	..	30	5851	269·0	276	263	..	30	5805	268·6	273	262	..
400	30	7601	259·2	265	252	..	28	7579	259·1	266	252	..	29	7533	258·6	265	246	..
300	30	9733	245·8	253	239	..	25	9709	245·4	253	238	..	23	9668	246·0	251	240	..
250	28	11024	237·1	243	232	..	19	11014	236·9	240	231	..	18	10954	237·6	243	233	..
200	28	12541	226·2	230	218	..	18	12550	226·9	231	225	..	14	12462	227·6	230	223	..
175	23	13396	219·2	227	211	..	15	13402	220·7	223	218	..	8	13322	221·1	225	217	..
150	22	14376	212·6	221	201	..	13	14389	213·5	217	208	..	..	..	..	..	..	..
125	21	15495	205·0	215	194	..	11	15506	205·4	212	199	..	..	..	..	..	..	..
100	18	16827	198·2	206	191	..	9	16833	198·3	206	192	..	..	..	..	..	..	..
80	14	18127	196·2	200	187	..	5	18103	196·8	207	190	..	..	..	..	..	..	..
70	10	18899	200·6	204	195	..	..	..	..	..	..	..	..	..	..	..	..	..
60	5	19955	206·2	208	205	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

May 1962 (Vaisakha 11 —Jyaistha 10, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (976 mb.)						MADRAS/MINAMBAKKAM (1001 mb.)						NAGPUR/SONEGAON (966 mb.)					
	No. of Obs.	Ht. gpm.	Temperature ° A				No. of Obs.	Ht. gpm.	Temperature ° A				No. of Obs.	Ht. gpm.	Temperature ° A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	314·3	318	310	284·6	30	015	304·7	308	298	297·9	31	311	310·3	315	298	286·8
1000	31	—003	..	..	..	..	30	023	..	..	..	..	31	—011	..	..	..	..
900	31	959	307·5	312	302	283·3	30	960	298·3	302	293	289·3	31	951	305·6	309	297	283·7
850	31	1471	303·2	307	297	280·1	30	1458	295·2	299	290	286·2	31	1462	301·1	304	295	280·8
800	31	2004	298·3	303	292	278·8	30	1982	291·5	295	287	282·5	31	1995	295·8	300	291	279·9
700	31	3152	288·2	293	283	271·7	30	3113	284·6	289	281	272·4	31	3137	285·5	290	281	274·3
600	31	4430	276·8	281	273	265·7	30	4383	276·2	283	267	268·9	31	4410	274·9	279	270	269·4
500	31	5882	266·5	272	261	..	29	5843	268·9	275	262	..	31	5856	266·7	271	261	..
400	30	7595	256·5	262	251	..	29	7567	258·9	269	252	..	31	7565	256·0	262	250	..
300	24	9710	244·2	249	236	..	25	9699	244·1	255	236	..	31	9670	242·8	247	235	..
250	17	11018	236·1	243	230	..	25	10977	234·5	245	226	..	31	10944	233·9	241	227	..
200	15	12513	227·5	231	217	..	21	12488	222·5	233	209	..	31	12438	222·1	226	215	..
175	10	13436	224·3	230	216	..	17	13333	215·1	228	203	..	29	13292	216·2	220	209	..
150	9	14427	220·1	226	213	..	16	14309	209·1	223	193	..	26	14273	209·4	217	204	..
125	..	..	..	..	..	..	13	15416	204·2	215	196	..	19	15332	201·6	206	195	..
100	..	..	..	..	..	..	8	16739	200·3	207	192	..	11	16664	195·3	200	195	..
80	..	..	..	..	..	..	7	17985	197·3	213	190	..	7	17967	197·1	200	195	..
70	..	..	..	..	..	..	5	18781	195·5	200	193	..	..	..	..	..	..	..
60	..	..	..	..	..	..		...	...	...	...	..	..	..	..	..	..	..
50	..	..	..	..	..	..		..	...	...	...	..	..	..	..	..	..	..
40	..	..	..	..	..	..		...	...	...	...	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (976 mb.)						PORT BLAIR (997 mb.)						TRIVANDRUM (998 mb.)					
Surface	31	209	311·5	317	305	285·5	30	079	300·6	303	296	297·8	31	064	301·6	304	299	297·3
1000	31	—013	..	..	..	..	30	049	..	..	..	..	31	047	..	..	..	..
900	31	945	305·9	312	298	280·1	30	974	294·5	296	292	292·6	31	977	295·3	297	292	289·9
850	31	1456	301·3	308	294	277·2	30	1468	291·8	295	290	289·6	31	1474	292·5	296	290	287·4
800	31	1988	296·4	303	289	275·8	30	1987	289·0	291	287	286·3	31	1995	289·6	293	287	284·1
700	31	3130	286·1	292	279	269·8	30	3112	283·3	287	279	280·2	31	3122	283·6	288	279	276·6
600	31	4400	275·5	281	269	259·2	29	4379	276·1	278	273	273·2	31	4392	276·6	281	272	269·6
500	31	5844	265·1	273	260	..	29	5836	268·5	275	265	..	31	5853	269·0	275	260	..
400	31	7544	254·6	262	248	..	29	7560	258·4	265	252	..	31	7578	258·8	266	252	..
300	30	9638	241·4	250	233	..	27	9683	244·1	252	239	..	27	9708	244·1	255	235	..
250	28	10899	233·9	241	225	..	26	10952	233·4	245	226	..	27	10989	234·6	243	226	..
200	29	12407	226·3	231	220	..	25	12441	221·3	233	211	..	27	12486	233·0	232	213	..
175	28	13294	221·9	231	218	..	20	13294	214·6	229	204	..	25	13331	216·4	225	207	..
150	28	14281	216·6	225	210	..	20	14250	207·5	221	194	..	25	14310	209·1	221	201	..
125	25	15422	211·2	219	201	..	15	15326	200·5	213	191	..	23	15393	202·0	213	197	..
100	21	16787	205·3	214	198	..	9	16592	197·0	203	190	..	23	16719	195·0	202	189	..
80	19	18132	205·5	210	202	..	6	18039	197·8	201	195	..	20	17942	192·7	201	186	..
70	17	18947	207·6	214	201	..	5	18802	196·6	200	192	..	16	18760	196·1	205	191	..
60	15	19890	212·7	218	206	..	5	19690	198·0	200	193	..	15	19645	199·2	207	192	..
50	13	21061	217·2	222	210	..	..	..	..	..	..	..	13	20755	202·7	211	198	..
40	10	22503	221·6	226	215	..	..	..	..	..	..	..	..	..	..	..	..	..
30	8	24439	228·4	244	219	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

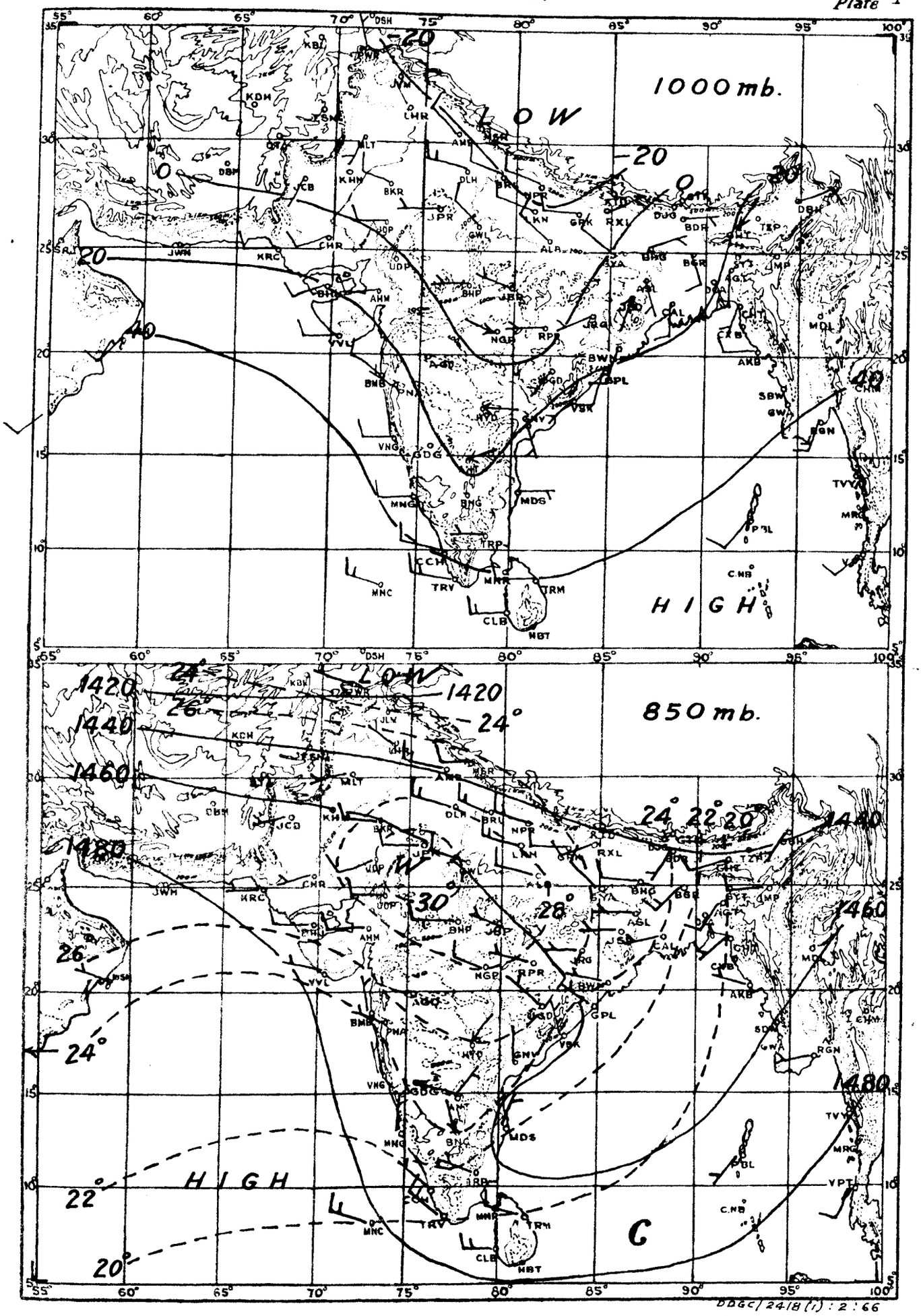
May 1962 (Vaisakha 11—Jyaistha 10, 1884 Saka)

Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (.993 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	304·7	308	302	299·4
1000	31	023	..	..	..	..
900	31	963	299·3	304	295	290·5
850	31	1465	296·4	304	292	286·7
800	31	1992	293·3	303	287	282·5
700	31	3129	285·0	288	281	274·9
600	31	4399	276·1	281	273	267·9
500	31	5854	267·9	274	263	..
400	31	7576	257·8	263	252	..
300	28	9694	244·0	253	234	..
250	23	10965	234·2	244	223	..
200	21	12462	222·8	232	213	..
175	19	13313	215·9	225	206	..
150	19	14278	208·7	218	197	..
125	17	15351	202·2	209	192	..
100	15	16674	196·3	201	190	..
80	11	17974	195·7	201	189	..
70	9	18758	198·7	206	193	..
60	..	..	..	..	..	..
50	..	..	..	..	..	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

GIPN—S4—13 D. D. G. Obs. Poona/65—9-9-66 260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. MAY 1962 Plate I



DDGC/2418(i):2:66

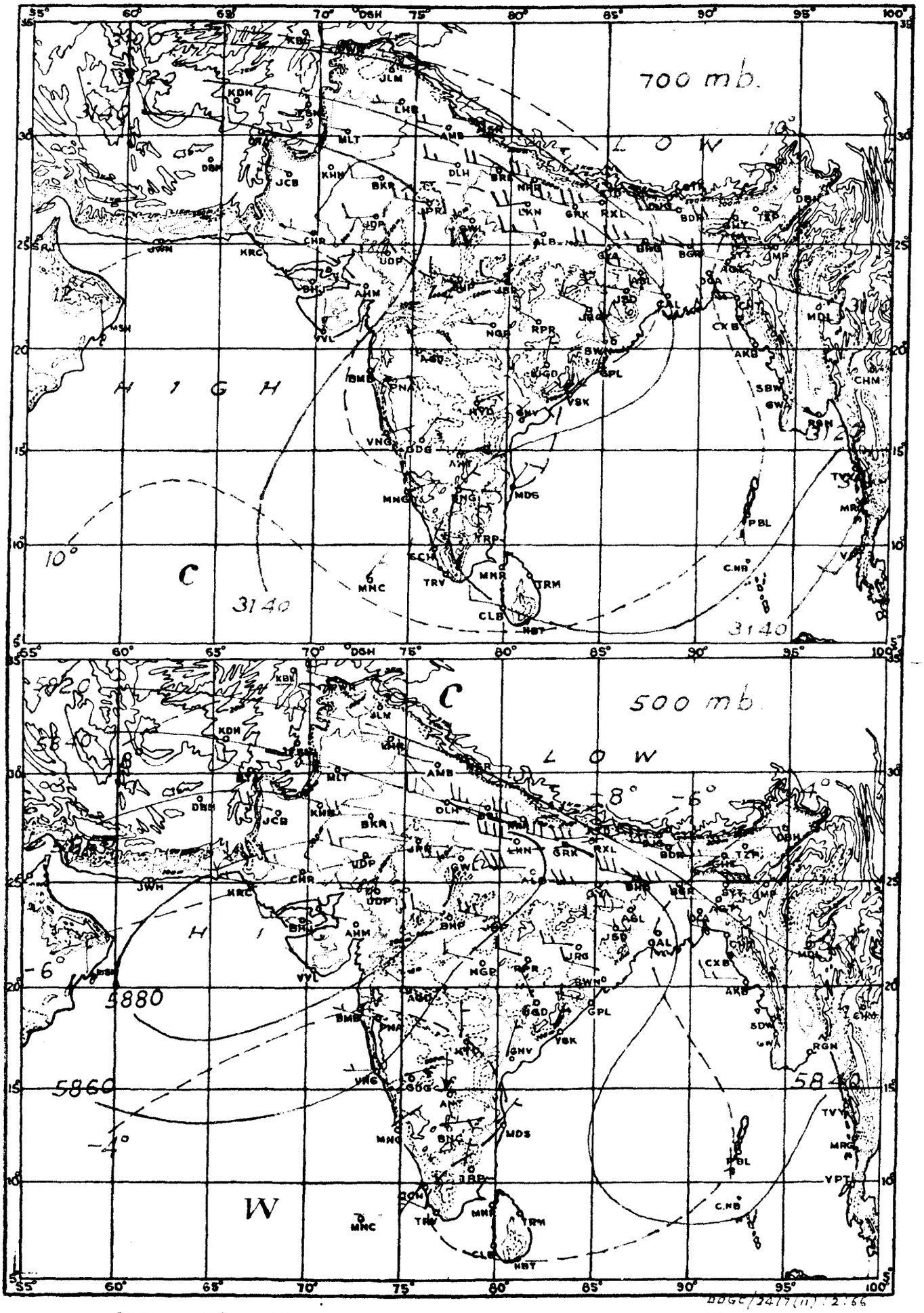
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

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

G.P.Z.P. POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. *MAY 1962* *Plate II*



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

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

G.P.P. POONA, 1963

Registered No. MH 57

INDIA WEATHER REVIEW, 1962

Monthly Weather Report

June

Published by authority of the Government of India

Chief features

(i) Progressive extension of the monsoon as a feeble current over the entire country by 25th;

(ii) Very heavy rains followed by devastating floods in Assam and Bihar Plains;

(iii) Generally weak monsoon conditions in the rest of the country;

(iv) Formation and movement of a depression in the Bay of Bengal; and

(v) Markedly above normal day temperatures which caused a few fatal cases of heat-stroke in Uttar Pradesh and Bihar.

Under the influence of a low pressure wave from the east a depression formed in the north Bay of Bengal with centre about 200 kms eastsoutheast of Puri on 6th. Moving north-northeastwards it crossed the Sunderbans coast on 8th morning, weakened into a low pressure area and lay over Assam and neighbourhood till 11th. Under its influence widespread rain occurred in northeast India with very heavy falls in Assam and Sub-Himalayan West Bengal during the second week of the month. A few of the noteworthy amounts of rainfall were; Goalpara 16 cm on 9th, Silchar 15 cm, Shillong 14 cm and Haflong 13 cm on 13th. According to press reports the Brahmaputra and other rivers in Assam rose above danger level causing heavy floods in the State. Cachar district was the worst hit. The Bagmati and Kosi in Bihar also rose and swamped the Muzaffarpur area. During the third week, the monsoon activity abated slightly but before the flood waters could recede another long spell of very heavy rains started. An upper air low which lay over the north Bay of Bengal on 21st moved inland and persisted over Bihar state and neighbourhood till 25th and later merged with the seasonal trough. This caused widespread heavy rain in Assam and West Bengal. Some of the exceptionally heavy amounts of rainfall recorded were; Kalimpong and Pasighat 17 cm each on 23rd, Cherrapunji 19 cm on 26th, 29 cm on 27th and 27 cm on 30th and Siliguri 21 cm on 27th and 15cm on 28th. The floods in Assam and Bihar caused serious loss of life, dislocation of traffic systems, damage to crops and misery to hundreds of families.

Moderate monsoon activity prevailed over the central parts of the country and in the Peninsula outside the west coast during the first fortnight. Under the influence of the Bay depression mentioned earlier Gannavaram recorded 10 cm of rain on 3rd and Sironcha 11 cm on 5th. The rainfall activity abated considerably in the third week but again revived on 25th, under the influence of a feeble upper air trough which formed over the west central Bay on 21st, and moved slowly westwards across the Peninsula.

Two spells of good monsoon activity occurred along the west coast in the second and fourth weeks. During the first spell Bombay (Colaba) recorded 20 cm on 9th and Ratnagiri 17 cm on 11th. The monsoon extended into Gujarat State on 18th with Veraval reporting 10 cm of rain on 19th. With the movement of the upper air trough referred to in the previous para, there was a marked strengthening of the monsoon along the west coast. A few of the noteworthy amounts of rain were : Alleppey 17 cm on 26th, Honavar and Harnai 10 cm each on 28th and Devgad 10 cm on 29th.

A western disturbance which was over northwest India on 31st May gradually weakened and merged with the seasonal trough by 5th June after causing scattered thundershowers in the Western Himalayas. In the wake of this distrubance steep pressure gradients

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developed over Rajasthan and the Punjab(I) and caused large scale duststorms and dust-raising winds over the area on 1st. Steep pressure gradients and strong dust raising winds again prevailed over this area on 16th and 17th. The axis of the monsoon trough shifted northwards and was near the foot of the Himalayas on many days in the third week of the month, when spells of heavy rains occurred in the Western Himalayas. Some of the noteworthy amounts of rainfall were : Nautanwa 9 cm on 22nd, Nainital 8 cm on 23rd and Mukteswar 8 cm on 24th.

The monsoon advanced steadily as a weak current and covered the entire country by 25th.

Day temperatures were appreciably to markedly below normal in the Peninsula during the first ten days of the month. They were about 10°C below normal in Andhra Pradesh and neighbourhood on 5th and 6th. In the second half of the month. day temperatures were above normal over this area being appreciably to markedly so in the third week. They were also above normal in most parts of north India during the first three weeks, being appreciably to markedly so in Uttar Pradesh and Bihar State in the first and third weeks. Several fatal cases of heat-strokes were reported from New Delhi, Gaya etc. by newspapers.

The rainfall during the month was in slight excess in Assam and the Madras State and normal in Sub-Himalayan West Bengal and Rayalaseema. It was in slight defect in the Bay Islands, Gangetic West Bengal, Orissa, Bihar Plateau and in north Interior Mysore, in moderate defect in Bihar Plains, east Uttar Pradesh, the Punjab(I), Jammu and Kashmir, east Madhya Pradesh, the Konkan, Marathwada and coastal Andhra Pradesh and in large defect over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in west Uttar Pradesh, Rayala seema, coastal Mysore and Kerala and below normal in Orissa. It was normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was normal over the country outside Himachal Pradesh.

The relative humidity in the morning was below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Sub-Himalayan, West Bengal, Orissa, Bihar Plateau, east Uttar Pradesh, east Madhya Pradesh, the Madras State and north Interior Mysore and below normal in the Punjab (I). It was normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5;
the 16*th February*, 1963.

R. ANANTHAKRISHNAN,
for *DIRECTOR GENERAL OF OBSERVATORIES*

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	474·5 +54·7	113	30·6 —0·4	24·3 —0·3	86 +2	80	+6·8 +0·3	6·4
2. West Bengal	321·2 —29·2	92	33·1 —0·5	25·8 —0·1	82 +2	78	6·1 +0·4	6·5
3. Orissa	193·0 —24·0	89	32·9 —1·2	25·6 —0·5	78 +3	74	6·9 +1·4	6·8
4. Bihar	135·7 —53·5	72	35·3 +0·2	26·9 0	72 +2	65	5·9 +1·0	6·3
5. Uttar Pradesh	53·8 —70·5	43	33·7 +1·3	27·3 —0·1	57 —3	38	3·4 +0·2	3·7
6. Punjab (India) (Including Delhi & Himachal Pradesh.)*	35·5 —17·1	67	39·9 —0·3	26·6 —0·3	47 +1	29	1·6 —0·4	1·8
7. Jammu and Kashmir.	21·2 —10·9	66	27·5 —0·1	13·3 —0·8	51 —6	40	2·6 0	3·6
8. Rajasthan	3·2 —51·0	6	39·7 +0·2	27·4 —0·4	52 2	27	2·1 —0·1	2·4
Sub-Division								
1. Bay Islands	423·5 —129·0	77	29·6 +0·5	24·5 +0·6	86 +4	86	7·3 +0·6	7·5
2. Assam (Including Manipur, Tripura)	474·5 +54·7	113	30·6 —0·4	24·3 —0·3	86 +2	80	6·8 +0·3	6·4
3. Sub-Himalayan, West Bengal	618·5 +19·7	103	31·2 —0·7	24·8 +0·1	86 +2	78	6·8 +1·3	6·4
4. Gangetic, West Bengal	213·0 46·9	82	33·7 —0·4	26·1 —0·2	81 +2	78	5·9 +0·1	6·6
5. Orissa	193·0 —24·0	89	32·9 —1·2	25·6 —0·5	78 +3	74	6·9 +1·4	6·8
6. Bihar Plateau	155·9 —48·4	76	35·7 +0·4	25·7 —0·1	69 +1	65	6·0 +1·1	7·0
7. Binar Plains	123·6 —56·6	69	34·9 —0·1	26·3 +0·1	76 +3	66	5·8 +0·9	5·7
8. Uttar Pradesh (East)	66·2 —61·0	52	39·0 +0·8	27·6 0	61 —1	43	4·1 +0·7	4·1
9. Uttar Pradesh, (West)	36·7 —83·5	31	40·5 +2·0	27·0 —0·1	51 —4	30	2·5 —0·5	3·2
10. Punjab (India) (Including Delhi).	35·5 —17·1	67	39·9 —0·3	26·6 —0·3	47 +1	29	1·6 —0·4	1·8
11. Himachal Pradesh	74·7 ..	..	36·8 ..	21·2 ..	56 ..	38	2·3 ..	2·8
12. Jammu and Kashmir	21·2 —10·9	66	27·5 —0·1	13·3 —0·8	51 —6	40	2·6 0	3·6
13. Rajasthan, (West).	3·9 —24·0	14	41·2 +0·3	27.5 —0·7	52 —1	25	1·3 —0·3	1·3
14. Rajasthan, (East).	2·6 —72·5	3	38·8 +0·2	27·3 —0·2	52 —3	28	2·6 +0·1	3·0
15. Madhya Pradesh (West)	28·1 —106·2	21	38·0 +0·9	26·4 +0·4	58 —4	36	4·2 +0·2	5·0
16. Madhya Pradesh, (East)	116·9 —68·5	63	36·8 +0·4	25·7 —0·2	62 +1	49	5·5 +0·9	6·4

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	67·2 —89·6	43	37·5 +0·7	26·1 +0·1	60 —2	42	4·8 +0·5	5·6
10. Gujarat State	40·5 —52·0	44	36·0 +0·2	27·1 +0·1	76 —1	57	4·1 —0·4	3·5
11. Maharashtra State	171·7 —134·7	56	34·7 +0·6	24·7 —0·1	71 —3	51	5·0 —0·2	5·7
12. Andhra Pradesh	63·4 —48·0	57	35·8 —0·6	26·4 —0·2	66 0	52	5·7 +0·2	6·1
13. Madras State	46·1 +8·4	122	35·5 0	25·4 —0·5	66 +2	57	5·5 +1·1	5·9
14. Mysore	144·1 —141·5	50	31·2 +0·6	21·9 +0·2	81 +2	62	6·3 +0·5	6·8
15. Kerala	218·6 —439·9	33	30·5 +1·2	24·4 +0·5	86 —1	77	6·2 —0·5	6·5
Sub-Division—*Contd.*								
17. Gujarat Region	64·7 —78·9	45	36·5 +0·2	26·7 +0·1	72 —4	46	4·4 —0·6	2·5
18. Saurashtra and Kutch	29·7 —40·0	43	35·7 +0·1	27·3 +0·1	78 +1	64	4·0 —0·3	4·1
19. Konkan	406·6 —225·7	64	31·6 +0·7	26·1 +0·4	82 0	75	5·7 —0·5	5·8
20. Madhya Maharashtra.	82·8 —97·2	46	34·5 +0·7	22·8 —0·3	71 —2	47	4·4 —0·5	5·3
21. Marathwada	76·1 —60·8	56	36·3 +0·5	23·4 —0·3	64 —7	35	4·5 —0·6	5.7
22. Vidarbha	71·9 —109·0	40	37·4 +0·3	26·0 —0·1	61 —4	40	5·2 +0·3	6·0
23. Costal Andhra Pradesh.	72·0 —32·4	69	35·9 —0·6	26·9 —0·4	68 —1	56	6·1 +0·4	6·5
24. Telangana	51·8 —95·4	35	36·3 —0·2	26·1 0	63 —1	48	5·3 0	5·7
25. Rayalseema	62·8 —5·2	92	34·9 —1·3	25·4 —0·2	68 +4	47	5·6 +0·4	6·0
26. Madras State	46·1 +8·4	122	35·5 0	25·4 —0·5	66 +2	57	5·5 +1·1	5·9
27. Coastal Mysore	453·0 —542·4	46	30·5 +1·1	24·8 +0·9	87 —1	79	6·6 —0·3	6·8
28. Interior Mysore, North	93·2 —18·3	84	32·8 +0·1	22·3 0	79 +4	56	6·2 +1·2	6·9
29. Interior Mysore, South	55·3 —75·3	42	30·1 +0·8	20·8 +0·1	81 +3	58	6·2 +0·1	6·7
30. Kerala	218·6 —439·9	33	30·5 +1·2	24·4 —0·5	86 —1	77	6·2 —0·5	6·5
31. Arabian Sea Islands	149·0 —182·5	45	30·7 +0·5	26·1 +0·7	79 —3	75	6·7 +0·7	7·1

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

*Date of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30.9		[illegible].9	24	23.4	..	21.7	14	183.5	532.2	..	71.6	1	21	..	19.0	16.3	..	0	25	0	0	7	0	0	0	0	0	0
Long Island	30.3		[illegible].5	25	24.8	..	22.6	19	107.7	325.1	..	48.6	18	16	..	9.4	6.0	..	2	21	0	0	4	0	0	0	0	1	0
Port Blair	29.6	+0.5	30.8	24	24.5	+0.6	21.5	18	85.6	423.5	—129.0	72.0	17	20	—1.5	25.4	21.7	—0.3	1	26	0	0	5	0	0	0	0	8	0
Car Nicobar	30.6	..	32.2	24	25.4	..	23.2	2	71.7	224.3	..	67.6	29	8	..	8.8	5.7	..	2	13	0	0	2	0	0	0	0	0	0
Nancowry	30.2	..	32.3	25	25.8	..	22.9	25	57.2	110.2	..	29.6	1	8	..	8.9	7.7	..	0	13	0	0	4	0	0	0	0	0	0
Kondul	29.5	..	30.8	8	25.2	..	22.7	1	67.0	228.8		43.0	29	10	..	..	.	..	1	17	0	0	5	0	0	0	0	0	0
Assam (including Manipur, Tripura).																													
Pasighat	29.7	..	35.8	20	22.8	..	20.9	13	423.4	1088.8	..	170.6	24	22	..	4.2	4.8	..	0	25	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari).	30.3	—0.3	35.0	19,21	23.6	+0.2	21.2	10	57.6	370.5	—129.1	89.5	6	18	—1.6	10.4	8.1	+3.9	2	24	0	0	10	0	0	0	0	1	0
Dibrugarh*																													
Digboi (R)																													
North Lakhimpur	29.9	—0.2	34.9	19	23.9	—0.1	22.2	1,9,10	144.0	882.6	+270.6	119.0	14	21	+0.6	6.8	5.5	..	3	21	0	0	4	0	0	0	0	0	0
Sibsagar	31.0	—0.4	36.3	19	24.5	0	22.2	9,10	45.8	357.1	—27.2	62.3	14	21	+3.9	5.2	3.0	—0.5	1	25	0	0	8	0	0	0	0	0	0
Gohpur	32.1	..	36.0	19	22.2	..	19.4	3	117.6	470.4	..	59.2	28	18	..	..	..	..	0	18	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	.	722.9	853.3	..	235.0	9	17	..	3.7	1.4	..	0	18	0	0	1	0	0	0	0	0	0
Jorhat (Aerodrome)	31.2	..	35.2	19	24.2	..	22.2	9	69.7	455.1	..	81.8	9	21	..	..	..	..	0	22	0	0	10	0	0	0	0	0	0
Tangla	31.1	..	36.4	5	23.9	..	21.1	9,27	63.5	333.6	..	59.0	9	19	..	0.2	0.6	..	0	19	0	0	0	0	0	0	0	0	0
Tezpur	31.6	+0.2	35.0	6	22.1	—2.6	19.5	10	29.3	507.3	+198.9	80.6	9	17	+1.0	4.8	2.5	—0.6	0	21	0	0	7	0	0	0	0	0	0
Golaghat	31.9	..	36.1	7	24.4	..	22.2	10,11	31.0	(c) 231.6	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Rangia	30.4	..	..	..	23.4	..	..	..	184.3	476·5	..	..	..	..	..	..	(d) 3.0	..	..	..	0	0	0	0	0	0	0	0	0
Chaparmukh	32.2	..	36.7	15,20	25.0	..	22.7	3,9,10	0	357·3	..	76.5	14	12	..	5.6	5·9	..	0	12	0	0	0	0	0	0	0	0	0
Goalpara	31.1	..	34.8	5	24.2	..	22.2	28	158.4	574.6	..	162.4		17	..	4.6	3.3	..	0	21	0	0	0	0	0	0	0	0	0
Gauhati	31.3	—0.3	36.1	6	25.3	+0.6	23.2	10	127.5	387.6	+75.2	66.8	8,16	1	+1.3	0	0	—2.3	0	20	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	31.3	—0.3	34.7	5,6,19	24.8	+0.6	22.4	6	136.7	280.2	—32.2	41.6		16	+1.3	8.1	5.9	..	0	21	0	0	14	0	0	0	0	0	0
Dhubri (Rupsi)	30.8	..	34.5	5	24.9	..	23.1	2,10	126.7	478.3	.	86.0	27	18	..	6.4	4.5	..	0	20	0	0	17	0	0	0	0	0	0
Dhubri	30.1	+0.3	33.6	6	25.5	+1.0	23.6	28	169.2	409.0	—203.4	84.6	23	17	—1.1	7.1	6.4	—0.5	0	18	0	0	2	0	0	0	0	0	0
Lumding	32.3	+0.2	39.3	6	27.1	+3.0	25.1	11	59.4	300.0	+56.7	63.6	22	13	—0.7	5.3	3.1	..	0	17	0	0	3	0	0	0	0	0	0
Tura	29.6	..	32.4	29	20.9	..	18.9	28	436.4	716.5	..	134.3	28	24	..	3.7	3.9	..	0	27	0	0	1	0	0	0	0	0	0
Haflong	27.5	..	31.1	4,20	21.4	..	19.8	12	225.5	689.7	+248.0	128.8	10	22	+3.7	..	..	..	0	25	0	0	8	1	0	0	0	0	0
Silchar (Kumbhirgram).	30.7	..	35.1	5	24.1	..	21.3	23	306.6	783.6	..	164.8	27	23	..	5.6	5.4	..	0	25	0	0	10	0	0	0	0	0	0
Silchar	29.9	—1.9	34.7	6	25.0	+0.4	22.8	1,28	290.7	623.1	+34.6	163.4	27	21	—0.3	3.0	2.0	—0.7	0	25	0	0	8	0	0	0	0	0	0
Imphal (Tulihal)	28.1	—0.6	33.4	4	21.5	+0.3	19.1	2	129.0	368.6	+90.3	105.2	11	15	0	6.4	4.0	—2.9	1	22	0	0	4	0	0	0	0	0	0
Kailashahar	31.3	..	35.3	5	24.2	..	21.6	1	194.9	637.6	..	114.2	10	20	..	5.4	3.6	..	0	25	0	0	21	0	0	0	0	0	0
Agartala	30.8	—0.7	34.6	5	24.4	—0.3	21.9	17	228.0	517.1	+75.2	64.2	15	21	+3.3	12.3	9.8	+0.1	0	25	0	0	17	0	0	0	0	1	0
Sub-Himalayan West Bengal.																													
Bagdogra	31.1	—0.2	34.2	16	23.9	—0.1	21.6	2	110.5	860.0	+231.4	209.8	27	19	—1.1	(b) 13.0	(c) 11.4	+3.7	2	24	0	0	13	0	0	0	0	0	0
Jalpaiguri	29.1	—2.3	32.7	6	24.6	+0.3	22.4	28	237.5	823.9	+165.0	166.8	27	21	+1.9	10.1	7.4	+4.0	0	24	0	0	11	0	0	0	0	0	0
Cooch Behar	31.1	..	34.4	5	24.5	..	21.9	3	144.7	678.4	—179.9	112.0	30	20	—0.6	7.1	5.3	..	0	22	0	0	22	0	0	0	0	0	0
Balurghat	32.8	..	36.0	5	24.1	..	21.3	1	166.5	298.6	..	81.8	13	11	..	8.4	6.4	..	2	14	0	0	1	0	0	0	0	0	0
Malda	33.4	+0.3	37.0	5	25.9	+0.2	22.4	1	32.2	111.6	—137.8	29.2	13	10	—1.5	8.2	7.0	—1.7	1	12	0	0	9	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore	33.3	—0.4	36.7	5	24.3	—1.5	22.1	13	106.9	242.2	—3.4	37.6	27	14	+1.7	6.3	4.8	—1.2	0	19	0	0	1	0	0	0	0	0	0
Suri	35.2	..	38.4	2	26.2	..	22.8	30	..	114.4	..	28.0	4	9	..	..	7.8	..	0	15	0	0	4	0	0	0	0	0	0
Asansol	35.5	—1.1	41.6	2	26.4	+0.2	23.6	10	130.8	163.9	—77.6	50.0	23	8	—3.7	8.1	6.8	—1.7	2	14	0	0	19	0	0	0	0	2	0
Shanti Niketan	34.5	..	38.1	2	25.6	..	22.3	30	45.2	198.0	..	75.6	23	13	..	6.6	5.7	..	2	16	0	0	17	0	0	0	0	0	0
Krishnanagar	33.7	—0.1	38.3	2	25.9	+0.1	23.3	29	119.3	123.1	—139.3	17.4	6	12	—0.7	4.7	4.6	—3.4	0	15	0	0	8	0	0	0	0	0	0
Purulia	35.8	—0.4	42.3	1	26.2	+0.1	20.0	19	123.3	165.7	—27.7	71.3	14	7	—3.8	6.7	5.7	—1.2	0	11	0	0	0	0	0	0	0	0	0
Bankura	35.4	..	41.6	1	27.9	..	24.9	24	158.3	226.7	—40.8	39.8	6	11	—0.1	6.3	4.2	..	0	12	0	0	7	0	0	0	0	0	0
Burdwan	34.5	+0.3	38.4	2	25.9	—0.1	24.1	11	116.8	181.2	—86.0	40.0	7	11	—1.4	13.0	8.9	+3.9	0	12	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome).	33.1	..	39.2	2	25.5	..	22.5	18	166.0	242.4	..	84.8	2	13	..	..	..	..	0	18	0	0	17	2	0	0	0	2	0

* Observatory closed from 1-6-1962. (R) Register not received. (a) Mean of 26 days. (b) Mean of 29 days (c) Mean of 28 days (d) Mean of 27 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total to the end	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*Contd.*																													
Calcutta (Dum-Dum).	33.1	—0.9	38.0	2	25.7	—0.6	22.6	2	147.9	211.3	—46.2	39.0	30	14	+2.3	9.7	7.7	—1.8	0	20	0	0	16	0	0	0	0	2	0
Calcutta (Alipore)	33.5	—0.1	38.9	2	26.2	+0.3	23.7	18	229.8	259.9	—37.0	49.9	6	13	—0.2	7.2	4.9	—2.0	1	20	0	0	16	0	0	0	0	8	0
Midnapore	34.2	—0.4	41·1	2	26.1	—0.1	21.9	19	97.0	192.0	—67.3	67.9	22	11	+1.4	7.0	5.9	+0.4	0	12	0	0	1	0	0	0	0	0	0
Contai	31.9	—0.6	34.3	2	26.7	—0.1	24.4	22	154.9	346.7	+67.6	93.0	7	11	—0.5	15.6	10.1	—4.1	0	15	0	0	0	0	0	0	0	0	0
Sagar Island	31.3	—0.7	33.3	14	27.3	+0.1	25.1	26	85.3	230.8	—61.6	79.4	22	11	—1.1	23.4	22.6	+1.4	0	15	0	0	9	0	0	0	0	2	0
Sandheads	31.2	..	33.8	4	27.0	..	16.7	18	59.7	269.0	+69.1	53.3	15	13	+3.6	..	..	..	0	13	0	0	5	0	0	0	0	0	0
Orissa																													
Baripada	34.5	..	42.5	2	25.9	..	23.3	14	167.0	307.2	..	51.4	7	13	..	3.4	2.5	..	0	17	0	0	8	0	0	0	0	0	0
Jharsuguda	35.3	—2.2	42·3	2	25.5	—1.1	22.9	24	87.2	296.0	+75.9	53.2	15	13	+2.5	10.8	9.1	—0.9	1	17	0	0	18	0	0	0	0	6	0
Keonjhargarh	33·0	..	41·4	2	24·5	..	22·2	20	40·2	100·0	..	15·8	22	9	..	10·6	7·3	..	1	15	0	0	8	0	0	0	0	0	0
Balasore	33·1	—0·9	38·9	2	26·4	+0·2	25·0	22	118·7	219·1	—13·8	75·6	7	10	+1·4	11·5	9·2	+1·5	0	14	0	0	13	0	0	0	0	0	0
Sambalpur	36·2	—8·2	43·0	1	25·7	—1·2	22·6	24	16·9	136·4	—109·9	35·5	8	10	—0·7	8·4	7·8	+1·4	0	11	0	0	7	0	0	0	0	0	0
Angul	..	..	..	..	..	..	..	..	162·7	337·5	—29·1	77·2	7	7	+4·6	10·1	6·7	—1·7	0	11	0	0	6	0	0	0	0	0	0
Cuttack	34·7	—0·6	43·1	2	26·4	0	23·8	21	93·0	176·2	—76·5	53·6	7	9	2·4	6·5	7·1	+2·5	0	11	0	0	7	0	0	0	0	0	0
Chandbali	34·2	—0·2	41·7	11	25·8	—0·7	23·3	21	36·3	117·8	+104·2	34·2	21	9	2·3	13·6	10·5	—2·6	0	11	0	0	0	0	0	0	0	0	0
Bolangir	35·8	..	40·8	4	26·2	..	22·4	24	12·2	93·8	..	24·5	14	7	..	11·5	10·2	..	0	7	0	0	8	0	0	0	0	0	0
Phulbani	32·5	..	39·0	2	23·6	..	21·2	28	92·4	375·2	.	104·0	6	14	..	6·6	4·8	..	0	15	0	0	9	0	0	0	0	0	0
Titlagarh	35·1	..	42·3	1	25·3	..	21·2	24	24·5	125·6	..	32·5	15	3	..	6·4	4·4	..	0	10	0	0	0	0	0	0	0	0	0
Bhubaneswar	33·6	—1·7	41·4	26	26·1	—0·3	23·2	14	91·2	207·4	—15·1	56·2	7	11	—1·4	10·7	9·2	—9·9	0	14	0	0	12	0	0	0	0	0	0
Puri	31·4	—0·3	33·4	4	27·2	0	22·6	14	109·7	193·0	+3·5	83·8	7	9	+0·9	19·9	19·6	+0·1	0	11	0	0	2	0	0	0	0	0	0
Gopalpur	32·0	—0·1	39·8	20	26·3	—0·5	23·8	24	110·6	162·6	+23·9	58·1	6	9	+1·4	16·7	14·7	—2·4	0	14	0	0	5	0	0	0	0	1	0
Koraput	25·5	—4·9	30·7	1	21·1	—1·2	17·2	24	33·6	219·6	+3·5	47·6	23	13	+5·7	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	35·0	+0·5	38·4	1	26·0	+0·2	22·9	30	178·9	159·0	—95·0	69·6	8	9	—2·9	7·7	6·0	+1·5	1	11	0	0	12	0	0	0	0	0	0
Daltonganj	38·6	+0·7	44·2	23	27·4	+0·2	23·3	14	30·4	153·6	—14·5	45·0	13	9	+0·3	10·2	6·9	—0·5	0	11	0	0	0	0	5	0	0	0	0
Hazaribagh	33·9	0	40·6	1	24·2	—0·3	21·9	13	94·2	177·4	+64·2	56·9	14	12	+1·3	12·2	9·0	—1·9	1	11	0	0	17	0	0	0	0	1	0
Dhanbad	35·1	..	43·0	1	25·7	..	21·1	5	42·4	110·2	..	31·2	10	7	..	8·3	6·8	..	0	12	0	0	15	0	0	0	0	0	0
Ranchi	34·5	+1·2	42·8	1	23·5	—0·6	21·2	12	100·6	122·8	—95·4	22·0	9	11	—0·1	8·7	6·2	—2·7	0	11	0	0	4	0	0	0	0	0	0
Ranchi Aerodrome.	33·1	..	39·7	1	23·8	..	21·1	12	..	264·9	..	45·8	15	11	..	(j) 10·9	10·2	..	0	16	0	0	22	0	0	0	0	0	0
Jamshedpur	36·5	+0·4	43·7	1	26·7	0	24·9	9	141·8	194·7	+4·0	45·2	26	12	+1·3	9·8	7·5	+0·1	0	17	0	0	16	0	0	0	0	0	0
Jamshedpur (P.B.O.)	35·7	..	42·8	1	26·1	..	23·2	26	135·5	138·4	..	41·4	26	10	..	10·0	7·5	..	1	13	0	0	21	0	0	0	0	1	0
Chaibasa	35·7	—0·4	43·6	1	26·2	0	23·8	12	62·0	172·6	—25·3	53·0	20	9	—1·7	7·0	5·3	+1·0	0	11	0	0	5	0	0	0	0	0	0
Bihar Plains																													
Motihari	31·7	—2·5	36·2	6	24·7	—0·7	21·7	29	16·9	131·8	—89·4	92·5	24	3	—6·4	(g) 5·6	(e) 5·8	—1·9	1	9	0	0	0	0	0	0	0	0	0
Forbesganj	33·3	..	36·7	5	25·4	..	23·3	10	91·1	192·3	..	68·0	26	10	..	8·5	6·7	..	2	16	0	0	7	0	0	0	0	0	0
Darbhanga	33·7	—0·1	37·2	6	24·6	—1·2	21·0	1	51·6	134·6	57·9	33·4	1	8	—0·8	10·6	8·4	+1·5	0	9	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	144·9	—59·7	48·0	24	5	—3·1	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Chapra	37·5	..	40·7	5	26·5	..	23·2	22	64·8	113·4	—37·2	66·6	22	3	—4·2	11·2	6·7	..	0	9	0	0	4	0	0	0	0	0	0
Purnea	33·0	0	35·7	4	25·7	+0·5	21·7	1	123·4	231·6	—26·2	71·2	23	12	+0·2	7·8	5·4	+0·6	0	14	0	0	10	0	0	0	0	0	0
Patna	36·7	+1·0	41·4	4	27·3	+0·7	23·3	11	34·2	122·5	—58·9	51·0	11	8	0	5·5	6·0	—2·0	0	10	0	0	6	0	3	0	0	0	0
Patna Aerodrome	36·5	..	41·0	4	27·1	..	21·9	11	23·0	75·8	..	33·2	13	5	..	9·6	8·0	..	0	9	0	0	13	0	1	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	29·4	—128·1	11·6	22	5	—2·5	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Bhagalpur	34·3	—1·0	40·5	5	26·2	—0·2	22·9	11	46·6	119·7	—87·9	33·6	13	11	+2·3	8·7	7·4	—0·8	0	11	0	0	16	0	0	0	0	0	0
Sabaur	34·1	—0·6	38·9	5,6	26·5	+0·3	23·3	11	59·4	174·2	+17·2	63·8	13	11	+3·2	10·4	8·2	—1·0	0	13	0	0	13	0	0	0	0	0	0
Jamui	36·1	..	40·6	1	27·1	..	23·6	11	49·3	168·7	..	31·4	22	11	..	6·6	5·5	..	0	12	0	0	5	0	0	0	0	0	0
Dehri	38·6	..	43·9	1	28·3	..	23.6	13	5·8	32·5	—103·9	17·5	13	3	—3·9	8·4	7·3	..	0	4	0	0	0	0	0	0	0	0	0
Gaya	37·9	+0·4	44·1	1	27·7	+0·3	23·7	13	123·6	133·5	—30·3	70·1	24	4	—3·5	12·9	11·0	+1·2	0	7	0	0	15	0	0	0	0	6	0
Uttar Pradesh (East) Kheri(R)																													
Bahraich	37·7	+0·6	42·5	5,6	26·9	+0·2	21·5	14	0	80·6	—76·9	33·4	25	5	—1·1	11·5	9·5	+4·0	0	7	0	0	6	0	0	0	0	0	0
Nautanwa	36·8	..	44·3	11,12	..	..	..	..	131·8	501·9	..	93·5	22	15	..	8·1	6·6	..	0	16	0	0	0	0	0	0	0	0	0
Hardoi	39·9	+0·3	43·8	8,9	27·4	—0·2	22·3	6	0	45·0	—79·3	31·8	24	3	—1·1	11·3	8·0	+0·6	0	3	0	0	5	0	0	0	0	0	0
Gonda	37·5	+0·9	42·9	6	27·1	+0·4	21·7	20	1·8	77·8	—107·9	25·4	13	6	—2·3	6·2	5·6	—2·4	0	8	0	0	0	0	0	0	0	0	0
Lucknow	38·7	+0·8	42·6	8	26·4	—1·2	20·4	14	16·3	119·1	+5·8	67·0	23	7	+1·5	5·2	3·8	—0·4	0	7	0	0	4	2	2	0	0	0	0

(g) Mean of 24 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Duststorm	Groundfrost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28
Uttar Pradesh (East) *Contd.*																												
Lucknow (Amausi)	39·2	+1·3	43·8	9	27·2	0	21·4	14	20·2	115·4	+2·1	60·4	23	3	—2·5	13·2	10·6	..	0	7	0	0	8	0	2	0	0	5
Faizabad	37·0	..	41·8	6	27·0	..	21·8	14	8·0	93·0	..	22·5	22	8	.	6·5	4·9	..	0	9	0	0	9	0	1	0	0	0
Gorakhpur	36·6	+0·5	41·4	6	25·6	—0·6	20·7	1	39·0	134·0	—57·8	40·2	21	7	—1·3	..	..	..	0	9	0	0	1	0	0	0	0	0
Kanpur	40·7	+1·4	44·5	8	28·2	—0·1	22·9	12,14	6·0	11·0	—70·0	6·0	12	2	—2·5	20·3	14·0	+0·8	0	3	0	0	3	0	1	0	0	0
Kanpur (Aerodrome)	40·9	..	44·6	8	29·0	..	23·9	14	3·1	16·3	..	7·8	24	3	..	..	..	..	0	4	0	0	6	0	2	0	0	0
Sultanpur	38·8	..	43·9	2,9	27·6	..	22·3	14	64.8	149·8	..	73·6	13	5	..	7·9	6·2	..	0	5	0	0	6	0	0	0	0	0
Azamgarh	37·9	..	42·9	1	24·8	..	21·5	25	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0
Fatehpur	41·4	+2·0	44·6	22	28·5	+0·2	24·3	24	0	14·2	—73·2	11·2	24	1	—6·8	13·1	8·7	+1·5	0	3	0	0	0	0	0	0	0	0
Ballia	38·1	..	43·2	4	27·0	..	22·8	13	33·6	51·0	..	16·6	15	5	..	2·5	2·1	..	0	7	0	0	0	0	0	0	0	0
Banda	41·7	..	45·0	7	28·3	..	21·0	14	24·1	61·5	..	26·3	23	3	..	9·1	6·3	..	0	7	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli.)	40·6	+1·3	44·6	1	29·4	+1·1	24·8	24	1·4	21·8	—106·2	14·8	24	2	—2·3	11·1	7·8	—0·7	0	5	0	0	6	0	2	0	0	0
Varanasi (Babatpur)	38·6	—0·2	43·9	1	28·2	—0·1	23·3	11	15·3	50·3	—51·3	23·6	11	5	+0·6	16·6	12·4	+0·3	0	7	0	0	6	0	2	0	0	0
Varanasi	38·4	+0·1	43·1	1	28·4	+0·6	24·0	13	11·8	59·0	—56·8	32·8	13	4	—2·0	9·0	6·7	+0·3	0	6	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																												
Mukhim (R)																												
Tehri (R)																												
Dehra Dun	35·8	+1·5	40·3	9	23·3	—0·1	18·6	1	13·2	38·2	—179·0	16·8	11	4	—5·4	5·5	4·5	+1·4	0	5	0	0	8	1	0	0	0	0
Roorkee	39·0	+1·1	43·9	9	25·4	—0·6	19·7	1	0	51·3	—63·0	20·3	12	5	—0·4	9·3	7·3	+2·2	0	8	0	0	5	0	0	0	0	0
Najibabad	38·3	..	43·1	9	25·3	..	20·6	14	0	57·4	..	21·4	14	4	..	6·6	5·0	..	0	7	0	0	0	0	0	0	0	0
Meerut	44·1	+5·6	46·1	4·7	24·8	—2·2	22·7	19	..	12·6	—73·8	12·0	25	1	—3·1	..	17·0	..	0	2	0	0	0	0	0	0	0	0
Bareilly	39·2	+1·3	43·6	8·9	27·5	+0·6	20·6	14	3·0	91·0	—41·8	52·4	14	4	—1·4	10·8	8·1	+3·4	0	6	0	0	8	0	1	0	0	0
Aligarh	40·8	+1·8	45·4	9	27·7	—0·4	21·5	14	2·0	48·8	—88·1	36·2	14	3	—1·6	13·0	10·5	+1·5	0	5	0	0	3	0	2	0	0	0
Mainpuri	41·3	+0·9	47·0	1	28·1	—0·1	25·1	14	0	0	—67·1	0	..	0	—3·8	3·4	1·8	—2·7	0	0	0	0	0	0	2	0	0	0
Agra	42·0	+2·0	47·6	19	29·7	+1·1	24·0	14,15	0	13·7	—48·3	10·1	15	2	—1·8	10·9	7·6	—0·4	0	2	0	0	0	0	0	0	0	0
Agra (Aerodrome)	42·2	..	46·8	8	29·3	..	23·3	15	0·2	5·2	..	5·0	15	1	..	..	..	..	1	1	0	0	4	0	0	0	0	0
Orai (R)																												
Jhansi	41·9	+1·9	45·0	8,9,11	29·7	+0·5	23·8	2	17·5	37·8	—68·1	13·0	14	4	—1·5	4·9	3·4	46	0	5	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																												
Pathankot	40·0	—0·2	45·1	9	25·3	—0·8	20·2	26	0	56·7	—1·1	23·3	26	4	+0·6	9·2	7·5	—3·4	0	5	0	0	9	0	1	0	2	0
Amritsar (Rajasansi).	40·4	—0·1	44·7	9	24·5	—0·8	19·0	1	0	9·0	—18·2	9·0	1	1	—0·9	15·3	12·7	+1·1	0	1	0	0	6	0	9	0	0	5
Adampur (Aerodrome).	39·5	..	44·5	9	24·4	..	16·3	1	0	45·9	..	24·1	24	4	..	..	15·1	..	0	4	0	0	7	18	2	0	2	0
Ludhiana	41·6	+1·2	46·8	9	25·7	—1·5	20·7	13	19·2	23·8	—34·1	19·2	27	1	—2·5	9·2	6.5	+2·6	0	3	0	0	4	0	3	0	0	0
Ferozepur	41·2	..	45·8	9	25·1	..	19·6	30	61·6	61·6	..	61·6	30	1	..	7·0	4·3	..	0	1	0	0	0	0	5	0	0	0
Halwara (Aerodrome).	40·9	..	45·3	9	25·7	..	20·8	1,13	6·1	17·6	..	10·7	13	2	..	..	..	..	0	4	0	0	5	0	5	0	3	0
Chandigarh	39·8	+0·3	44·2	9	27·6	+1·2	19·5	1	5·4	91·4	+29·7	39·1	24	6	+3·0	11·0	8·8	..	0	9	0	0	0	0	0	0	0	0
Ambala	36·8	—3·0	45·5	9	26·8	—0·3	22·8	13	19·6	55·7	—21·5	19·6	27	4	—0·4	10·6	6·4	+0·1	1	4	0	0	0	0	0	0	0	0
Ambala (Aerodrome).	39·5	..	45·0	9	26·2	..	22·2	13	16·1	49·7	..	14·7	27	6	..	..	13·3	..	0	8	0	0	8	0	4	0	0	0
Patiala	40·5	..	45·1	9	26·7	..	22·8	13	9·0	11·0	—19·0	9·0	27	1	—1·0	12·1	10·6	..	0	2	0	0	6	0	1	0	0	0
Bhatinda	41·6	..	45·9	8	27·5	..	21·1	15	38·8	38·8	..	22·6	24	2	..	9·7	6·6	..	0	2	0	0	1	3	6	0	0	0
Karnal	40·4	..	44·0	8,9	25·2	..	18·0	18	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	6	0
Hissar	41·1	+0·2	44·9	8	27·9	0	23·0	2	32	8·6	—23·4	3·8	29	2	—0·9	12·9	10·3	+0·8	0	3	0	0	3	24	3	0	0	0
New Delhi (Safdar jung).	39·9	—0·3	43·4	9	28·7	0	21·6	2	23·9	27·9	—49·1	22·6	2	2	—2·2	21·7	17·3	+2·5	2	3	0	1	6	0	1	0	0	7
Palam (Aerodrome).	41·1	..	44·8	8	28·0	..	23·9	2,14	10·2	12·2	..	9·5	15	1	..	..	..	..	0	3	0	0	6	0	4	0	0	0
Himachal Pradesh.																												
Mandi	36·8	+0·3	41·0	9,10	21·2	+0·3	16·4	1	31·6	74·7	—33·9	23·0	12	8	+1·0	3·5 (e)	3·0 (f)	—0·5	0	10	0	0	5	1	12	0	0	0
Bilaspur	37·4	..	42·5	8	22·0	..	10·9	13	1·4	92·6	..	22·0	12	6	..	4·9	3·3	..	0	7	0	1	7	0	0	0	0	0

R—Register not received.
(e) Mean of 26 days.
(f) Mean of 25 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Precipitation (1·0 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder head	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Jammu and Kashmir.																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	0·3	—17·0	0·2	13	0	—2·0	..	..	..	2	0	0	0	0	0	0	0	0	0	0
Sonamarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	21·7	—0·1	26·5	13,21	6·7	—0·1	0·5	1	0·4	3·2	—1·4	2·8	1	1	+0·3	7·6	6·1	+2·1	0	2	1	0	1	0	0	0	0	0	0
Srinagar	28·8	—0·9	33·9	12	14·2	+0·1	8·3	4	1·6	31·3	—4·3	19·6	13	3	—0·4	5·8	5·3	+1·1	0	4	0	0	2	0	0	0	0	0	0
Srinagar (Aerodrome).	..	..	..	..	14.4	..	7.8	1	3.8	23.0	..	8.8		3	..	..	..	..	0	3	0	0	5	0	0	0	0	1	0
Gulmarg	(b) 19.9	0	..	..	(b) 6.3	—1.0	..	..	59.9	(b) 94.5	..	..		..	..	9.5	(b) 6.8	+0.8	..	..	0	4	17	4	0	0	0	0	0
Banihal	29.2	..	33.9	10	14.3	..	9.9	1	19.4	62.4	..	27.0	13	4	..	..	..	..	0	8	0	1	12	0	0	0	0	0	0
Jammu	39.6	+0.4	45.2	9	26.0	—2.1	20.1	13	..	50.1	—21.0	25.0	13	3	—0.8	..	6.8	..	0	4	0	2	2	0	3	0	0	0	0
Jammu (Aerodrome).	40.4	..	45.2	9	26.3	..	18.4	1	8.8	43.7	..	19.9	24	5	..	..	..	..	0	5	0	2	11	0	4	0	0	0	0
Rajasthan (West)																													
Ganganagar	42.2	—0.5	46.9	8	29.1	+0.2	24.3	30	1.0	4.6	—16.5	3.0	15	1	—0.2	11.0	7.8	—0.8	0	3	0	0	4	0	2	0	0	0	0
Anupgarh (R)																													
Mahajan	42.7	..	47.5	9	..	..	..	..	0	0	..	0	..	0	..	11.3	9.9	..	0	0	0	0	0	0	0	0	0	0	0
Churu	41.6	..	45.7	8	29.5	..	27.4	30	0	0	..	0	..	0	..	22.2	19.2	..	0	0	0	0	2	0	2	0	0	0	0
Bikaner	41.7	+0.4	46.2	8	28.6	—0.7	23.1	9	1.6	5.6	—25.1	4.0	21	1	—1.2	14.6	14.1	+2.0	0	2	0	0	1	0	1	0	0	0	0
Nagaur	39.0	..	44.4	7	27.5	..	21.1	9	3.0	6.0	..	3.0	4,15	2	.	22.3	20.4	..	0	2	0	0	3	0	6	0	0	0	0
Phalodi	41.1	..	45.3	7	27.9	..	25.8	17	0	0	—23.4	0	..	0	—1.6	30.0	28.7	..	0	0	0	0	1	0	1	0	0	0	0
Jaisalmer	40.9	..	44.8	8	26.9	..	25.2	17	0	0		0	..	0	..	26.9	26.6	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	39.7	—0.1	44.7	7	27.9	0	25.2	21	5.1	5.2	—30.9	2.7	21	2	—0.1	22.4	21.0	+0.7	0	2	0	0	3	0	2	0	0	2	0
Barmer (R)																													
Munabao	41.3	..	45.0	5,7	..	..	..	..	0	6.3	..	4.2	22	1	..	(c) 23.9	(d) 23.4	..	0	2	0	0	2	2	9	0	0	0	0
Rajasthan (East)																													
Pilani	41.4	..	45.8	8	29.3	..	25.5	30	0	0	..	0	..	0	..	25.0	22.5	..	0	0	0	0	0	0	6	0	0	0	0
Sikar	38.9	..	42.6	8	27.2	..	24.4	6	0	0	..	0	..	0	..	19.2	14.8	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	41.1	..	45.1	9	30.3	..	25.6	29	44.2	59.2	..	27.4	22	3	..	5.6	5.5	..	0	3	0	0	2	0	0	0	0	0	0
Jaipur	39.9	+0.6	43.6	8	28.5	+1.8	25.8	15	0.4	0.6	—56.3	0.4	4	0	—3.9	..	..	..	1	1	0	0	1	0	5	0	0	0	0
Dholpur	42.2	..	46.3	9	29.4	..	22.8	5	4.3	7.4	..	3.4	3	1	..	14.8	11.5	..	0	4	0	0	7	0	2	0	0	0	0
Ajmer	38.1	+0.1	42.8	7	27.3	—0.4	21.7	4	9.0	9.0	—52.7	9.0	4	1	—1.7	21.8	20.1	+8.4		1	0	0	1	0	0	0	0	0	0
Tonk	41.2	..	44.5	8	29.8	..	27.1	21	0	0	..	0	..	0	..	18.8	14.1	..		0	0	0	0	0	0	0	0	0	0
Bhilwara	38.6	..	42.1	7	27.5	..	24.6	19	0	0	..	0	..	0	..	10.4	9.1	..		0	0	0	1	0	2	0	0	0	0
Kota (Aerodrome)	41.1	..	45.2	9	29.7	..	25.6	30	12.8	3.3	..	3.3	30	1	..	21.8	21.3	..	0	1	0	0	0	0	0	0	0	0	0
Kota	40.8	+0.4	44.0	9	26.4	—3.1	23.6	19	8.6	0	—67.1	0	..	0	—4.1	15.2	15.3	+7.3	0	0	0	0	0	0	0	0	0	0	0
Bhinpura (Jawai Dam).	37.1	..	41.1	7	26.6	..	24.4	4	25.7	25.1	..	15.6	4	2	..	10·6	10.6	..	0	4	0	0	0	0	0	0	0	0	0
Chambal (Rawat-Bhata Dam).	39.7	..	43.2	9	28.9	..	25.6	19	1.5	1.5	..	1.5	30	0	..	2.0	1.7	..	0	1	0	0	0	0	0	0	0	0	0
Udaipur	35.6	—1.0	39.4	7,8	25.5	—0.6	22.9	19	2.8	3.4	—73.8	2.8	4	1	—3.6	9.1	8.2	..	0	2	0	0	2	0	0	0	0	0	0
Jhalawar	39.5	+0.8	43.3	7	28.8	+1.5	26.3	19	0	0	—112.8	0	..	0	—7.1	16.8	16.5	+6.4	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West).																													
Gwalior	41.5	+0.3	45.1	8	30.2	—0.1	24.8	13	11.0	25.0	—21.0	11.5	13	2	—1.8	15.9	12.4	..	0	5	0	0	6	0	0	0	0	0	0
Sheopur	41.1	+0.7	45.1	9	30.1	+1.5	27.0	15	0	0	—70.6	0	..	0	—4.3	17.8	14.4	+4.2	0	0	0	0	1	0	4	0	0	0	0
Shivpuri	39.1	..	42.9	7	28.2	..	23.0	15	9.0	12.2	..	9.0	23	2	..	16.9	13.9	..	0	2	0	0	0	0	2	0	0	0	0
Nowgong	40.7	+1.4	45.0	8	28.2	0	22.3	14	3.0	21.0	—117.2	14.6	14	2	—4.1	12.4	9.1	+3.3	1	4	0	0	0	0	0	0	0	0	0
Guna	39.5	+1.6	43.2	7	27.4	+1.2	24.4	24	7.0	8.6	—144.6	5.4	24	1	—6.2	22.4	18.5	..	0	5	0	0	1	0	0	0	0	0	0
Nimach	37.0	+0.1	41.3	8	25.8	+0.4	23.1	19	0	0	—107.4	0	..	0	—4.8	22.9	21.7	+6.6	0	0	0	0	1	0	0	0	0	0	0
Rajgarh	39.5	..	42.3	8,9	27.9	..	25.3	16,19	1.9	2.9	..	2.3	16	0	..	21.6	19.2	..	0	2	0	0	0	0	0	0	0	0	0
Sagar	37.4	+0.7	42.0	7,8	25.1	+0.2	21.0	15	28.0	63.0	—94.2	20.0	21	6	—2.1	15.8	13.4	..	0	8	0	0	8	0	0	0	0	0	0
Ratlam	36.2	+0.1	38.5	8	24.6	—0.6	21.7	5	1.6	27.2	—68.3	19.8	5	2	—2.7	20.1	18.1	+4.6	0	3	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	37.8	+1.3	41.2	8	26.1	+1.1	23.9	19	30.4	13.2	—160.3	12.0	24	1	—8.4	26.3	23.8	+9.6	2	2	0	0	1	0	0	0	0	1	0

*Data not available

R—Register not received.
(b)—Mean or total for 29 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (East)—(*Contd.*)																													
Ujjain	36.7	..	40.0	8	25.6	..	22.6	27	..	11.2	.	7.8	21	2	..	..	28.0	..	0	2	0	0	0	0	0	0	0	0	0
Narsinghpur	..	..	..	..	..	..	..	..	32.7	53.3	..	33.8	23	3	..	12.2	8.0	..	0	4	0	0	0	0	0	0	0	0	0
Hoshangabad	38.7	+1.6	42.4	9	25.5	—1.0	21.6	15	6.9	10.1	—139.0	4.0	4	1	—7.2	12.8	10.0	+3.7	1	6	0	0	1	0	0	0	0	0	0
Indore	36.4	+0.6	39.0	3	24.9	+0.8	22.9	21	0.5	0.5	—146.8	0.5	5	0	—7.3	33.0	31.3	..	0	1	0	0	1	0	0	0	0	0	0
Rajpur (Jhabua)	36.3	..	38.0	4 days	24.9	..	21.4	19	3.8	5.0	..	3.8	20	1	..	23.9	21.6	..	0	2	0	0	0	0	0	0	0	0	0
Chhindwara	35.8	+0.8	37.9	2	25.2	+0.5	21.5	23	58.8	65.0	—83.6	17.3	4	6	—3.7	10.6	6.9	—2.4	0	8	0	0	6	0	0	0	0	0	0
Seoni	36.8	+1.7	40.5	2,9	24.6	+0.5	21.5	14	72.3	99.8	—117.6	40.8	14	6	—5.1	12.0	7.9	+0.8	0	13	0	0	5	0	0	0	0	0	0
Betual	35.6	+0.7	37.1	9	24.7	+0.3	21.7	4	17.2	50.8	—84.2	19.8	4	4	—4.2	13.5	10.1	+1.7	0	7	0	0	2	0	1	0	0	0	0
Khandwa	37.7	+0.6	39.9	3	26.7	+0.7	23.8	6	2.0	9.8	132.4	6.9	6	2	—5.0	23.0	20.5	+7.3	0	2	0	0	2	0	0	0	0	0	0
Satna	40.7	+2.6	44.4	9	28.3	+0.6	21.1	6	16.6	72.6	—68.1	45.0	23	4	—2.3	16.4	10.3	+1.1	0	4	0	0	3	0	0	0	0	0	0
Sidhi	40.2	..	44.7	9	28.4	..	24.5	14,24	28.5	35.4	..	12.4	25	5	..	15.0	9.1	..	0	5	0	0	0	0	0	0	0	0	0
Umaria	38.7	+2.1	42.9	9	27.7	+1.3	22.9	22	5.5	43.8	—137.0	34.5	22	2	—8.0	12.5	9.3	+2.2	1	3	0	0	2	0	3	0	0	0	0
Jabalpur	38.9	+2.2	43.3	8	27.3	+1.4	23.5	23	11.1	19.3	—159.3	8.2	23	2	—6.8	14.2	10.2	+4.4	0	9	0	0	6	0	0	0	0	0	0
Ambikapur	35.9	+0.1	40.4	1	25.0	—0.1	20.7	3	8.8	69.2	—73.8	27.8	24	5	—4.6	13.0	10.1	0	1	13	0	0	5	0	0	0	0	0	0
Pendra	35.7	+1.8	41.0	9	24.8	+0.5	21.3	22	27.9	75.1	—126.3	37.3	22	7	—4.7	14.2	12.1	..	1	9	0	0	8	0	0	0	0	0	0
Mandla	37.3	+0.3	42.4	8	24.5	—0.8	22.0	22	40.4	84.4	—47.3	30.4	22	6	—2.7	10.0	5.9	—0.5	0	10	0	0	6	0	0	0	0	0	0
Champa	37.8	—0.8	43.3	2	25.7	—2.0	22.2	23	30.6	128.2	—57.9	41.8	22	8	—0.6	12.2	9.3	+0.1	0	13	0	0	12	0	3	0	0	0	0
Raigarh	37.0	—1.6	42.8	2	25.8	—1.9	22.5	7	59.2	183.8	+16.1	41.8	22	12	+3.5	6.4	4.7	—2.6	0	14	0	0	2	0	0	0	0	0	0
Raipur	36.4	—0.2	41.2	1	25.3	—0.9	21.4	6	14.1	128.5	—191.6	37.9	23	7	—2.7	13.4	12.3	—1.1	1	13	0	0	9	0	0	0	0	0	0
Kanker	34.0	—0.9	39.5	1	25.6	+0.1	21.4	23	38.5	260.0	—4.2	95.7	23	9	—1.3	13.9	10.7	+2.2	0	10	0	0	3	0	0	0	0	0	0
Jagdalpur	32.4	—0.8	37.5	1	23.3	—0.4	18.5	24	70.3	221.0	—24.6	66.2	23	10	—1.3	9.3	6.6	..	1	12	0	0	12	0	0	0	0	0	0
Gujarat Region																													
Deesa	38.3	..	42.5	7	26.8	..	24.2	20	1.2	18.6	..	15.4	29	1	..	17.8	16.1	..	0	3	0	0	0	0	0	0	0	0	0
Radhanpur	38.5	.	42.9	8	26.7	..	24.9	17	6.2	6.2	..	4.8	27	1	..	17.7	16.6	..	0	2	0	0	0	1	1	0	0	0	0
Indar	37.9	..	40.6	3	26.4	..	24.1	29	0	3.6	..	2.4	22	0	..	15.0	12.9	..	0	3	0	0	0	0	0	0	0	0	0
Ahmadabad	38.7	—0.1	42.1	8	26.8	—0.3	23.6	12	0	105.3	+10.3	55.8	12	7	+2.3	11.5	10.8	—0.5	0	8	0	0	2	0	0	0	0	1	0
Dohad	36.4	+0.3	38.0	5	24.8	—0.9	22.5	27	0	22.6	—95.6	16.9	27	2	—2.8	35.4	34.8	+5.5	0	5	0	0	0	0	0	0	0	0	0
Baroda Aerodrome	37.4	..	39.1	days 2	27.1	..	24.3	19	4.3	9.1	..	3.6	12	2	..	18.6	18.7	..	0	4	0	0	2	0	0	0	0	0	0
Baroda	37.2	0	39.4	1,2,3	27.4	+0.4	24.5	19	2.4	7.4	..	..	..	..	.	19.5	8.2	—1.5	..	..	0	0	3	0	0	0	0	0	0
Broach	35.9	+0.5	38.0	2	27.3	+0.4	23.5	19	24.0	(b) 43.2	—111.0	21.2	20	4	—3.4	17.1	16.6	+4.5	0	6	0	0	0	0	0	0	0	0	0
Surat	34.1	+0.3	35.6	2,3	27.3	+0.7	20.2	19	18.2	89.5	—129.4	61.3	19	3	—5.0	16.4	16.2	+4.3	0	10	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia-Bhimasar*																													
Naliya	33.7	..	35.4	4	27.2	..	25.8	6,22	0	9.1	..	4.5	22	2	..	31.0	24.4	..	0	3	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	36.8	0	40.4	6	26.8	+0.1	24.7	3	0	0.8	—34.3	0.8	25	0	—1.9	29.5	25.3	+3.6	0	1	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	37.2	..	40.1	6	26.3	..	23.3	18	0	8.9	..	3.8	21	2	..	..	35.6	..	0	4	0	0	0	0	0	0	8	0	0
New Kandla	34.7	..	36.9	7	27.8	..	25.4	18	0	4.4	..	3.4	18	1	..	41.1	35.6	..	0	3	0	0	0	0	0	0	0	0	0
Mandvi	32.6	—0.4	33.5	4	28.3	—0.1	27.1	25	0	0	—27.2	0	..	0	—1.5	40.3	39.0	+6.2	0	0	0	0	0	2	0	0	1	0	0
Surendranagar	39.2	+0.1	41.9	8	27.2	0	22.8	19	0	36.3	—17.6	34.0	19	1	—2.7	(b) 21.8	22.9	+2.7	0	2	0	0	1	0	0	0	0	0	0
Jamnagar Aerodrome)	35.7	—0.2	37.9	15	27.3	+0.4	24.3	18	2.1	3.9	—61.4	3.1	18	1	—2.0	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Dwarka	32.1	+0.3	32.8	19,30	27.8	—0.2	26.0	23	0	6.8	—44.3	6.8	23	1	—1.3	28.3	28.4	+7.3	0	1	0	0	0	1	0	0	0	0	0
Rajkot	37.8	+0.1	40.6	8	26.9	0	24.2	5	0.4	2.0	—91.0	1.6	5	0	—5.3	36.7	34.2	+6.1	0	2	0	0	3	0	0	0	0	0	0
Bhaunagar (Aerodrome)	38.6	+0.9	41.4	12	26.9	+0.1	21.5	4	58.1	77.9	—21.2	41.3	20	3	—1.7	34.7	31.7	+8.8	0	5	0	0	2	0	0	8	0	3	0
Porbander (Aerodrome)	32.6	..	34.4	2	28.2	..	24.4	18	0	17.0	..	17.0	18	1	..	29.1	26.0	..	0	1	0	0	0	0	0	0	0	0	0
Porbander	32.4	+0.3	33.7	1	28.1	+0.1	25.2	18	2.0	19.1	—65.3	16.3	18	1	—3.2	21.5	19.5	+0.4	0	4	0	0	0	0	0	0	0	0	0
Keshod	34.0	..	35.9	7	26.6	..	22.9	19	50.0	65.8	..	56.4	19	3	..	37.2	30.0	..	0	5	0	0	0	0	0	0	0	0	0
Mahuva	34.1	..	35.7	2	..	..	..	..	16.3	36.3	..	36.3	19	1	..	29.8	21.9	..	0	1	0	0	0	0	0	0	0	0	0
Veraval	31.7	.	32.5	4,5,6	27.2	..	23.5	18	0	120.9	+2.5	104.2	19	3	—0.9	29.8 (d)	30.6 (d)	..	0	3	0	0	1	1	0	0	0	1	0
Konkan																													
Dahanu	32.8	+0.5	34.1	13,14	27.1	+0.6	24.4	29,30	(c) 51.5	156.4	—313.0	..	..	.	..	(c) 26.4	(d) 23.6	+4.5	.	..	0	0	0	0	0	0	0	0	0

*Data not reliable.

(c) Mean or total for 28 days

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall in 24 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Konkan—*Contd.*																													
Bombay (Santa Cruz).	32·1	+0·7	33·6	4 days	26·2	+0·3	23·0	19	70·0	220·5	—239·8	55·9	9	8	—6·2	21·4	17·1	..	2	16	0	0	1	0	0	0	0	0	0
Bombay . .	32·7	+1·3	34·4	5	26·6	+0·7	23·0	30	183·3	433·4	—50·7	199·0	9	10	—4·6	9·5	8·7	—6·4	1	16	0	0	4	0	0	0	0	2	0
Alibag . .	31·6	+1·0	33·3	9	26·9	+1·1	23·6	29	..	342·0	—257·2	82·3	10	8	—8·7	..	22·0	+1·9	1	9	0	0	0	0	0	0	0	0	0
Bhira* . .	31·6	..	..	..	24·5	..	..	..	182·9	307·7	..	..	..	..	..	5·0	2·7	..	..	..	0	0	0	0	0	0	0	0	0
Harnai . .	30·5	+0·7	31·5	8	26·5	+1·0	22·5	27	180·2	534·2	—144·3	121·8	9	8	—10·6	16·5	16·3	+0·6	0	10	0	0	1	0	0	0	0	0	0
Ratnagiri . .	31·6	..	34·2	25	..	..	..	..	114·8	423·6	—349·6	170·0	11	11	—9·5	16·6	13·4	..	0	14	0	0	3	0	0	0	0	0	0
Devgarh . .	31·1	+0·7	32·6	1	25·4	0	22·5	28,30	125·0	526·2	—134·0	122·6	11	14	—6·0	19·8	18·3	—2·6	0	17	0	0	2	0	0	0	0	0	0
Vengurla . .	30·5	+0·3	32·2	3,4	24·3	—0·3	22·3	8	258·9	616·6	—316·8	138·7	11	19	—2·8	10·9	7·3	..	1	24	0	0	11	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar .	36·4	..	38·5	2	26·0	..	24·0	20	0·5	7·9	..	7·4	19	1	..	20·3	17·7	..	0	2	0	0	0	0	0	0	0	0	0
Jalgaon . .	38·8	+0·8	41·3	3	25·9	—0·2	21·4	7	10·2	81·6	—47·9	62·2	6	3	—4·0	32·0	28·3	+7·2	0	3	0	0	5	0	0	0	0	0	0
Malegaon . .	36·9	+1·2	39·4	17	24·2	+0·3	20·0	6	23·3	16·3	—94·2	14·5	6	1	—5·7	19·5	17·3	+2·2	0	3	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	32·5	..	34·7	5	22·6	..	20·8	3	1·8	13·5	..	8·4	6	2	..	27·0	21·5	..	0	3	0	0	0	0	0	0	0	0	0
Ahmadnagar .	34·4	+0·9	37·4	17	22·0	—0·2	..	..	6·4	67·0	—65·8	47·1	7	3	—4·5	13·1	—11·3	—2·1	0	4	0	0	0	0	0	0	0	0	0
Khandala . .	..	..	..	..	..	..	..	..	..	333·2	—508·3	63·0	11	14	—6·3	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Poona (Aerodrome).	32·2	..	34·2	5	21·9	..	20·3	19	4·5	15·6	..	6·8	10	2	..	..	..	..	0	5	0	0	0	0	0	0	1	0	0
Poona . .	32·9	+1·0	35·4	4	22·3	—0·8	20·6	19	6·3	11·9	—102·2	5·3	19	2	—5·3	10·6	7·6	—8·2	1	4	0	0	0	0	0	0	0	0	0
Jeur . . .	35·2	+0·3	37·7	2,3,4	22·0	—0·9	19·4	8	27·0	153·0	+64·2	77·1	8	5	—0·7	20·7	18·3	+1·0	0	5	0	0	2	0	0	0	0	0	0
Baramati . .	34·2	+0·4	36·0	2,5	22·6	—0·3	21·1	6	8·2	22·8	—64·9	9·6	7	3	—2·6	21·7	19·8	+3·5	0	3	0	0	0	0	0	0	0	0	0
Sholapur . .	34·9	—0·2	37·6	3	23·2	0	21·8	13	60·5	91·1	—21·7	33·0	4	8	+1·5	12·6	11·2	—4·4	0	9	0	0	0	0	0	0	0	0	0
Miraj . .	32·2	+1·0	34·8	17	21·6	—0·6	19·3	19	12·0	21·6	—47·2	5·8	11	4	—1·9	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Kolhapur . .	30·8	+1·0	33·2	1	21·7	—0·5	20·1	19	13·3	29·7	—83·8	12·3	19	2	—5·8	24·5	17·0	—1·3	0	8	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad .	35·3	+0·7	37·8	3,17	22·6	—0·2	20·6	6	95·0	97·0	—41·2	91·2	6	2	—5·7	27·6	25·8	+7·8	0	4	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan).	35·2	..	37·6	3,17	..	..	..	..	0·8	79·7	..	72·9	6	2	..	27·2	25·7	..	0	2	0	0	2	0	0	0	0	0	0
Parbhani . .	37·3	+0·4	39·9	3	24·2	—0·4	22·2	6	30·6	55·2	—80·4	32·4	6	4	—3·9	20·1	18·1	+2·3	0	5	0	0	1	0	0	0	0	0	0
Nander . .	37·5	..	40·5	3	24·9	..	22·0	30	0	87·8	..	35·6	30	4	..	14·5	13·1	..	0	4	0	0	1	0	0	0	0	0	0
Nir . . .	36·0	..	38·2	3,17	23·7	..	22·5	6,18, 29	2·6	36·8	..	33·2	6	2	..	13·8	12·3	..	0	2	0	0	10	0	0	0	0	0	0
Vidarbha																													
Akola . .	37·9	+0·3	41·5	8	26·9	—0·2	23·5	23	41·8	63·4	—98·8	27·0	1	4	—4·5	8·6	6·1	—0·7	1	10	0	0	6	0	0	0	0	0	0
Nagpur (Sonegaon).	38·6	+0·3	42·3	8	26·3	—0·6	22·9	23	33·1	50·2	—173·8	10·2	11	8	—2·2	20·7	16·1	..	0	11	0	0	12	0	0	0	0	10	0
Amroati . .	38·3	+1·5	40·9	2	25·9	+0·5	21·2	6	3·7	42·3	—124·1	37·3	6	1	—7·7	23·3	19·6	+7·7	0	4	0	0	5	0	0	0	0	0	0
Wardha . .	37·9	+0·7	40·2	3	26·8	+1·1	22·8	6	19·4	42·4	—98·1	34·6	6	2	—6·1	21·2	18·6	+6·2	0	2	0	0	0	0	0	0	0	0	0
Ramhapuri .	37·7	..	42·2	8	27·2	..	21·1	5	28·4	75·8	..	12·8	30	10	..	11·7	9·6	..	1	12	0	0	3	0	4	0	0	0	0
Buldana . .	34·4	+0·4	36·1	12	22·7	—0·8	21·1	26	22·6	74·6	—84·8	52·0	7	3	—5·8	(b) 15·4	(c) 14·7	+0·2	0	4	0	0	0	0	0	0	0	0	0
Yeotmal . .	37·8	+0·8	40·6	3	25·6	+0·2	21·3	4	38·8	58·2	—126·9	38·5	4	2	—7·2	27·0	24·5	+5·3	0	2	0	0	2	0	0	0	0	0	0
Chanda . .	37·7	+0·1	41·9	2	26·8	+0·2	21·8	8	15·2	92·2	—112·3	31·8	8	7	—2·8	14·1	10·5	+2·0	2	12	0	0	10	0	0	0	0	0	0
Bhandara . .	38·9	..	41·0	2	26·3	..	23·6	6	17·9	9·9	..	4·2	30	2	..	18·1	15·2	..	0	3	0	0	0	0	0	0	0	0	0
Gondia . .	36·6	—1·3	41·6	2	26·8	—0·9	22·0	5	19·6	151·5	—53·0	113·0	5	7	—1·7	9·0	7·3	+0·3	0	7	0	0	3	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Srikalingapatam .	33·8	0	37·0	2	26·7	—0·2	24·6	22	22·0	41·9	—77·2	14·2	23	7	+0·7	15·5	13·6	+0·7	0	7	0	0	4	1	0	0	0	0	0
Visakhapatnam .	35·6	+0·3	42·0	1	26·5	—0·5	23·0	5	12·1	32·7	—72·5	17·7	5	5	—1·5	20·8	13·4	+1·5	1	6	0	0	2	0	0	0	0	1	0
Tuni . .	36·3	+0·3	43·8	1	27·2	0	24·2	5	9·4	42·2	—76·7	9·8	22	6	—1·1	15·1	12·7	+2·9	0	7	0	0	1	0	0	0	0	0	0
Pithapuram . .	35·7	..	41·4	1	26·3	..	22·5	3	9·0	98·4	..	30·0	2	5	..	16·3	11·9	..	0	7	0	0	4	0	0	0	0	0	0
Kakinada . .	37·7	+0·1	42·0	2	27·9	+0·1	22·6	5	10·0	57·6	—34·6	27·0	5	3	—3·6	17·9	13·7	—3·2	0	3	0	0	2	0	0	0	0	0	0
Amalapuram .	36·0	—1·5	40·4	17	26·4	—0·9	22·2	5	5·2	196·6	+40·8	103·5	3	5	—3·5	23·2	16·5	—1·8	0	9	0	0	5	0	0	0	0	0	0
Nagarjuna Konda	37·3	..	41·3	2	27·4	..	24·1	5	4·4	15·0	..	8·6	2	2	..	25·9	22·5	..	1	4	0	0	1	0	0	0	0	0	0
Masulipatam .	35·8	—1·0	40·6	2	26·5	—0·6	21·8	24	25·2	111·4	+4·2	54·0	3	5	—1·2	6·6	5·3	—6·8	0	7	0	0	4	0	0	0	0	0	0
Ongole . .	36·6	..	41·1	18	27·9	..	23·9	5	20·8	46·4	..	15·4	27	4	..	14·4	10·6	..	0	7	0	0	0	0	0	0	0	0	0
Nellore . .	36·0	—2·6	39·4	17	27·3	—0·6	23·4	4	1·1	21·6	—10·7	12·1	25	2	—0·9	9·9	7·5	—1·8	0	3	0	0	1	0	0	0	0	0	0

(b) Mean of 29 days.

*Observations for 22 days since the observatory started from 9-6-1962.
(d) Mean of 27 days.

(c) Mean of 28 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	ground frost	gale	squall	line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telangana																														
Ramgundam	37·4	—1·1	41·8	2	27·7	—0·3	21·9	8	12·2	46·6	—115·6	12·0	23	6	—1·1	11·5	10·1	+1·3	0	7	0	0	2	0	3	0	0	0	0
Nizamabad	36·2	+0·1	39·0	2	25·6	+0·4	21·9	6	4·2	40·8	—106·8	21·2	6	3	—5·7	12·5	11·0	+1·7	0	3	0	0	2	0	0	0	0	0	0
Hanamkonda	36·9	+0·6	41·3	2	26·2	—0·2	22·4	3,5	8·2	45·6	—107·1	21·2	3	5	—3·2	18·4	13·9	+2·5	1	7	0	0	2	0	0	0	0	0	0
Hakimpet (Aerodrome)	33·2	..	36·6	2	23·6	..	20·3	6	10·9	46·7	..	15·5	3	6	..	..	..	..	0	7	0	0	6	0	0	0	0	0	0
Bhadrachalam	37·0	—0·6	43·4	2	26·8	—0·7	22·8	5	22·6	88·2	—73·6	14·0	23	9	—1·0	9·4	7·7	—2·5	1	10	0	0	1	0	0	0	0	0	0
Hyderabad (Begampet)	34·3	0	38·1	1,2	24·2	+0·6	21·0	6	12·0	37·9	—74·1	13·5	3	5	—1·5	22·7	21·1	+1·3	0	8	0	0	2	0	0	0	0	2	0
Khammam	36·8	..	42·0	2	26·9	..	21·8	3	11·4	144·0	..	52·6	30	7	..	12·8	8·7	..	0	7	0	0	1	0	0	0	0	0	0
Mahbubnagar	33·9	..	37·6	1,2	23·7	..	21·3	6,25	60·4	131·9	..	53·0	5	6	..	16·3	14·4	..	0	8	0	0	3	0	0	0	0	0	0
Rayalaseema																														
Kurnool	34·5	—1·7	37·8	2	25·0	—0·3	22·4	3	4·2	93·7	+19·3	77·8	3	3	—2·5	19·5	18·8	+2·5	0	7	0	0	1	0	0	0	0	0	0
Nandyal																														
Anantapur (R)	34·3	—0·6	37·3	2	24·7	—0·1	22·3	6	23·9	53·8	—0·7	32·0	2,5	4	+0·8	19·8	17·8	—1·0	0	7	0	0	2	0	0	0	0	0	0
Cuddapah	36·0	—1·7	39·0	21	26·6	—0·3	22·8	4	27·2	40·8	—34·1	20·0	4	4	—0·8	11·7	9·0	—1·9	0	6	0	0	0	0	0	0	0	0	0
Arogyavaram	31·8	..	34·4	15	22·6	..	19·5	25	8·0	44·2	..	14·0	22	5	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Madras State																														
Madras	35·5	..	38·1	10	26·0	..	23·4	13,27	..	90·8	..	28·3	13	6	..	..	10·6	..	1	10	0	0	6	0	0	0	0	0	0
Madras (Minambakham)	35·7	—1·9	38·3	2,12	25·8	—1·5	23·1	13	3·2	146·4	+99·2	50·8	15	7	+3·3	16·6	13·0	—4·5	1	10	0	0	9	0	0	0	0	5	0
Vellore	36·3	+0·1	38·8	21	25·4	—0·5	22·0	25	13·7	111·5	+41·1	35·6	27	6	+1·1	11·1	9·5	+1·0	0	10	0	0	8	0	0	0	0	0	0
Tambaram (Aerodrome).	36·1	..	38·2	2	..	..	..	..	32·3	177·6	..	43·7	13	9	..	..	..	..	0	13	0	0	8	0	0	0	0	0	0
Tirupattur	34·8	..	37·2	21	23·2	..	20·1	2	0	111·1	..	64·4	2	3	..	11·3	8·4	..	0	3	0	0	1	0	0	0	0	0	0
Cuddalore	37·3	+0·3	39·3	9	26·2	—0·6	24·2	25	4·0	10·9	—24·4	6·4	5	1	—0·6	12·0	11·7	+3·2	0	4	0	0	6	0	0	0	0	0	0
Kallakkurichchi	36·3	..	38·4	17,20	25·7	..	21·5	1	5·2	41·4	—9·4	18·0	28	3	—0·3	8·8	8·3	..	0	3	0	0	3	0	0	0	0	0	0
Salem	34·7	—0·5	36·6	22	24·6	+0·8	22·6	4	20·2	100·8	+21·3	44·8	1	5	—0·4	9· ·	8·0	+0·9	0	6	0	0	4	0	0	0	0	0	0
Coimbatore (Pilamedu).	32·1	..	34·4	25	22·6	..	20·7	27	0	9·0	..	9·0	1	1	..	(g) 35·0	(1) 29·1	..	0	1	0	0	2	0	0	0	2	0	0
Coimbatore	32·1	+0·5	33·9	25	21·7	—0·5	19·6	27	0·6	9·9	—28·7	9·3	1	1	—3·2	18·4	13·9	+3·9	0	2	0	0	1	0	0	0	0	0	0
Nagapattanam	35·8	—0·7	38·6	20	26·5	—0·1	22·8	2	1·0	22·6	—8·6	21·6	2	1	—1·2	16·0	13·0	+2·5	0	2	0	0	1	0	0	0	0	0	0
Tiruchchirappalli	36·7	—0·4	38·2	24	25·7	—0·4	22·2	25	17·6	34·9	—6·2	15·6	15	3	+0·6	24·9	20·3	—5·8	1	5	0	0	4	0	0	0	0	0	0
Vedaranniyam	33·4	..	37·5	28	26·3	..	21·3	2	1·4	133·8	..	126·1	2	2	..	13·6	11·8	..	0	4	0	0	2	0	0	0	0	0	0
Atirampattinam	33·5	..	37·8	29	25·9	..	23·0	14	0	60·8	..	51·8	1	2	..	20·3	16·0	..	0	4	0	0	6	0	0	0	0	0	0
Madurai	37·1	+0·9	38·8	17	25·9	+0·3	23·5	26	0	50·4	+10·5	33·0	17	2	—0·5	7·9	6·4	—1·5	0	2	0	0	2	0	0	0	0	0	0
Madurai Aerodrome.	36·8	..	38·7	13	25·5	..	22·8	26	52·3	87·0	..	55·3	26	2	..	14·3	12·2	..	0	2	0	0	4	0	0	0	0	0	0
Tondi	32·9	..	36·4	9	26·0	..	24·6	1,19	0	0	..	0	..	0	..	25·7	19·6	..	0	0	0	0	2	0	0	0	0	0	0
Pamban	32·2	—0·1	34·0	29	26·9	+0·1	26·5	25,26, 30	0	0	—3·8	0	..	0	—0·3	21·2	17·2	—2·0	0	0	0	0	0	0	0	0	0	0	0
Tuticorin	35·7	+0·2	37·6	28	25·6	—1·2	24·2	8	0	0	—4·9	0	..	0	—0·5	19·0	15·1	—3·1	0	0	0	0	0	0	0	0	0	0	0
Palayankottai	36·7	+1·4	38·9	17	25·3	—1·4	22·4	26	20·6	23·8	+14·3	20·6	26	1	0	14·2	10·2	—5·1	0	2	0	0	2	0	0	0	0	0	0
Kanniyakumari	31·0	..	32·8	1	25·0	..	22·6	26	2·8	22·2	..	5·4	6	4	..	19·6	17·1	..	0	7	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	30·3	+0·9	31·7	4	..	..	..	..	272·2	484·3	—490·2	82·8	12	17	—6·3	11·8	10·4	..	0	19	0	0	0	0	0	0	0	0	0
Honavar	29·9	+0·4	31·8	23	23·6	—0·5	21·2	28	362·2	636·9	—433·2	102·9	28	21	—4·8	10·2	10·1	+4·5	0	24	0	0	12	0	0	0	0	0	0
Mangalore (Bajpe).	29·9	..	31·5	2	23·7	..	22·3	27	243·9	439·7	..	133·1	27	21	..	11·3	8·2	..	0	27	0	0	6	0	0	0	0	0	0
Mangalore	31·3	+2·1	32·8	9	26·0	+2·2	24·2	27	86·3	237·9	—703·9	40·1	27	17	—7·6	10·1	9·0	+0·3	0	22	0	0	8	0	0	0	0	0	0
Interior Mysore North																														
Bidar	32·9	—0·9	36·8	2	22·5	+0·1	20·2	3	36·4	111·3	—5·8	24·2	3	8	+0·9	19·1	20·0	—0·3	0	10	0	0	0	0	0	0	0	0	0
Gulbarga	34·4	—1·0	38·2	2	23·1	—0·3	20·2	8	41·8	135·2	+22·4	44·6	5	10	+3·1	19·0	17·1	+0·8	0	11	0	0	1	0	0	0	0	0	0
Bijapur	34·1	+0·7	37·4	17	22·6	+0·3	21·0	28	28·0	96·4	+19·7	35·4	4	7	+1·6	13·1	12·6	—1·2	1	10	0	0	2	0	0	0	0	0	0
Raichur	35·0	—0·2	38·5	2	23·7	—0·1	20·6	22	21·6	72·4	—19·5	28·7	24	5	—1·0	18·8	18·9	+2·6	0	6	0	0	0	0	0	0	0	0	0
Belgaum	29·3	+1·7	31·6	22	20·8	+0·5	18·9	28	11·6	17·0	—185·7	7·0	12	3	—9·9	12·7	11·3	—1·7	1	5	0	0	0	0	0	0	0	0	0
Belgaum (Samra) Gadag (R)	31·2	+0·1	34·5	1	21·4	—0·4	20·3	27,28	99·8	127·0	+59·2	29·8	26	7	+1·4	17·2	16·3	—1·1	0	11	0	0	6	0	0	0	0	0	0
Interior Mysore South																														
Bellary	33·8	—1·0	36·8	2	24·4	0	20·4	4	34·0	82·6	+39·4	29·6	26	5	+1·7	15·1	14·8	+2·1	0	5	0	0	0	0	0	0	0	0	0
Chitradurga	31·0	+0·4	33·9	17	21·6	+0·4	20·5	28	11·8	22·9	—42·9	6·0	25	5	—0·2	12·7	13·3	+0·9	0	6	0	0	3	0	0	0	0	0	0

(1) Mean of 19 days.

(g) Mean of 24 days.

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-frost	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore South—(*Contd.*)																													
Shimoga	30·7	+1·8	33·0	25	21·4	—0·3	19·6	28	39·2	45·4	—100·4	14·2	29	4	—5·9	10·3	6·7	—0·6	0	7	0	0	0	0	0	0	0	0	0
Agumbe	25·2	..	27·3	2	..	..	..	..	..	689·3	..	50·0	12	26	..	..	3·2	..	0	30	0	0	2	0	0	0	0	0	0
Balehonnur	26·4	+1·5	28·9	2	18·7	—0·1	17·4	21	..	87·8	—345·0	23·6	25	7	—14·1	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Hassan	27·9	+0·7	30·5	17	19·1	0	17·9	16	9·2	16·2	—75·5	6·8	14	2	—7·3	14·0	10·9	—0·4	0	4	0	0	0	0	0	0	0	0	0
Bangalore	30·2	+1·1	32·6	22	20·2	+0·9	18·7	28	12·0	77·0	+4·4	36·6	25	5	—0·9	16·5	14·4	+1·2	0	7	0	0	4	0	0	0	1	1	0
Bangalore (Aerodrome).	30·3	..	32·6	25	19·5	..	17·9	28	4·7	59·7	..	24·2	25	6	..	..	..	..	0	8	0	0	3	0	0	0	0	0	0
Mysore	30·5	+1·1	32·8	5 days	20·0	—0·1	19·3	4 days	52·2	55·4	—7·1	22.6	2	3	—2·8	13·3	11·4	—2·8	0	5	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	30·7	+1·4	34·3	8	24·4	+0·5	21·9	27	145·2	258·2	—582·0	60·4	14	13	—11·1	10·9	10·3	+1·4	0	15	0	0	5	0	0	0	0	0	0
Palghat	30·2	..	32·6	25	23·7	..	20·8	26	51·6	120·6	..	24·0	5	11	..	15·2	11·5	..	1	16	0	0	6	0	0	0	0	0	0
Fort Cochin	30·1	+1·1	31·6	13	24·6	+0·7	23·3	18	37·4	244·4	—479·0	91·7	26	15	—9·3	9·2	7·2	—0·4	0	24	0	0	6	0	0	0	0	0	0
Cochin (Naval Air Station).	30·7	..	31·6	8	24·4	..	21·0	27	31·7	340·2	..	99·8	26	20	..	11·2	8·8	..	2	23	0	0	9	0	0	0	0	4	0
Alleppey	30·7	+1·1	31·8	17,19	24·5	+0·4	21·9	26	33·6	313·6	—421·8	174·0	26	13	—10·5	12·7	13·3	+1·2	0	20	0	0	7	0	0	0	1	0	0
Punalur	31·9	..	34·3	2	23·5	..	21·2	26	48·6	108·4	..	35·0	26	6	..	4·6	4·1	..	0	9	0	0	0	0	0	0	0	0	0
Trivandrum	30·7	+1·2	32·1	1	24·2	+0·5	22·5	26	7·1	58·2	—276·6	13·9	14	7	—10·1	14·0	9·0	+0·5	2	17	0	0	5	0	0	0	0	0	0
Trivandrum (Aerodrome).	30·6	..	31·6	1	24·1	..	22·3	24	..	114·4	..	45·6	24	9	..	..	5·5	..	1	17	0	0	1	0	0	0	0	0	0
Arabian Sea Islands																													
Amini**																													
Minicoy**																													
Hill Station excluding Kashmir																													
Dalhousie	27·8	—0·1	32·0	9	18·7	+0·6	11·0	15	20·0	232·0	+118·5	55·0	30	8	+1·7	4·7	4·7	—0·1	0	10	0	0	4	0	0	0	0	0	0
Dharmsala	32·2	0	36·2	9,10	22·5	—0·3	16·2	1	54·6	147·0	+4·7	39·2	24	9	+2·1	2·5	1·9	—3·3	0	11	0	0	9	0	0	0	0	0	0
Simla	24·6	+0·7	28·4	9,10	16·0	+0·4	8·5	1	29·4	206·7	+53·3	38·8	12	9	—0·8	2·1	1·7	—0·6	1	11	0	0	8	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	221·5	+94·5	81·0	12	9	—2·5	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Lokpal	8·2	..	10·9	30	1·3	..	—1·8	4	..	184·0	..	26·0	14	12	..	..	..	..	2	18	4	0	0	30	0	6	0	0	0
Badrinath (R)																													
Joshimath	27·1	..	31·6	9	16·9	..	11·3	1	9·9	74·8	..	22·4	13	9	..	6·8	5·3	..	1	16	0	0	9	7	0	0	0	0	0
Mussoorie	24·1	+0·2	27·6	10	16·6	+0·5	4·1	1	44·8	90·4	—132·6	17·0	3,13	9	—1·2	12·4	9·5	+0·6	0	9	0		6	1	0	0	0	0	0
Mukteswar (Kumaun).	24·9	+2·0	28·4	8	14·9	+0·5	9·8	1	16·2	185·6	—0·8	82·0	24	9	—1·1	18·6	18·9	+8·9	0	9	0	0	9	5	0	0	0	0	0
Nainital	24·0	0	26·7	1	17·0	+0·1	13·3	1	121·0	392·0	+118·7	78·0	23	12	+0·6	7·3	5·7	—1·8	0	13	0	0	0	0	0	0	0	0	0
Kalimpong	26·4	+2·4	29·7	10	18·2	—0·9	15·6	30	203·2	546·0	+176·4	172·7	24	13	—3·4	6·6	4·3	—5·0	0	13	0	0	0	0	0	0	0	0	0
Darjeeling	18·9	+0·1	21·3	6	15·0	+0·5	13·3	2	221·4	593·0	—21·2	77·4	27	23	+2·0	2·4	2·4	—0·8	0	27	0	0	0	11	0	0	0	0	0
Kohima	24·5	..	27·3	5	18·7	..	16·6	11	262·7	513·3	..	101·0	11	19	..	1·0	5·9	..	0	19	0	0	1	0	0	0	0	0	0
Shillong	26·3	+2·7	26·7	3	17·9	+0·7	15·8	4	131·6	330·0	—131·3	63·6	10	19	—1·0	4·3	8·4	+3·9	0	24	0	0	1	0	0	0	0	0	0
Cherrapunji	26·9	+4·7	29·2	4	19·8	+1·9	17·6	1	597·2	1992·3	—701·4	285·6	27	24	—1·0	5·5	5·6	—3·9	0	24	0	0	1	14	0	0	0	0	0
Abu	28·7	0	33·4	9	18·9	—1·4	16·5	14	6·8	27·8	—90·3	15·0	22	2	—3·8	16·3	9·8	—3·1	0	5	0	0	0	0	0	0	0	0	0
Pachmarhi	24·7	..	28·7	5	19·6	..	17·1	1	181·5	724·2	..	172·2	11	21	..	10·4	12.9	..	1	28	0	0	0	0	0	0	0	0	0
Mahabaleshwar	32·0	+1·0	35·3	6	21·8	—0·4	17·5	15	7·4	50·9	—178·7	8·4	21	4	—6·3	10·9	10·6	+0·6	0	6	0	0	7	0	0	0	0	0	0
Mercara	21·7	+0·3	24·4	1	16·4	—0·5	14·6	19	177·5	281·5	—802·8	52·2	10	17	—5·2	15·8	15·8	—0·6	0	22	0	0	1	30	0	0	0	0	0
Kotacamund	23·4	+1·1	26·4	2	17·4	+0·1	15·5	19	90·8	169·4	—478·5	22·0	14	16	—7·2	12·7	11·9	+2·7	0	25	0	0	0	0	0	0	0	0	0
Coonoor (R)	19·1	+1·3	21·7	17,23	11·2	—0·1	10·0	18,20, 21	53·6	77·8	—89·1	33·8	25	7	—7·1	9·6	5·8	—2·7	1	9	0	0	1	0	0	0	0	0	0
Kodaikanal	19·8	+1·7	21·3	12	11·8	0	10·8	10,28	22·2	24·5	—83·2	9·7	2	3	—6·9	10·8	11·2	—3·9	0	7	0	0	7	1	0	0	0	0	
Nepal																													
Katmandu	28·1	..	31·4	5	19·1	..	16·1	3	65·7	302·9	..	72·4	10	13	..	1·0	0·8	..	1	20	0	0	9	0	0	0	0	0	0
Sikkim																													
Gangtok	18·0	..	20·6	19	11·5	..	9·7	2	..	206·6	..	22·6	27	25	..	..	..	..	0	29	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	36.1	..	41.6	1	26.9	..	24.1	21	27.7	36.5	..	10.6	14	5	..	14.4	10.5	..	0	11	0	0	0	0	0	0	0	0	0
Hazaribagh	33.7	..	40.5	1	24.0	..	21.2	13	141.4	193.7	..	42.6	14	11	..	13.0	8.1	..	0	18	0	0	13	1	0	0	0	0	0

(R) Register not received.

**Data given as addenda in December 1962. issue

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of dyas with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20(b)	21	22	23	24	25	26	27	28	29	
Hydrometeorological Observatories (*Contd.*) **Damodar Catchment**—(*Contd.*)																														
Konar	..	..	..	..	..	..	..	..	85.8	120.1	..	41.2	25	10	..	..	..	..	0	16	0	0	1	0	0	0	0	0	0	
Bokaro	37.0	..	43.4	1	26.0	..	23.4	24	38.9	83.2	..	27.3	25	6	..	9.8	7.5	..	0	13	0	0	13	0	0	0	0	0	0	
Maithon	34.3	..	39.8	1	26.5	..	23.8	10	72.1	114.1	..	18.1	6	12	..	..	..	..	1	14	0	0	11	0	0	0	0	1	1	
Ramgarh	36.6	..	43.6	1	26.8	..	23.4	12	35.9	178.7	..	50.2	7	10	..	4.4	3.0	..	0	14	0	0	0	0	0	0	0	0	0	
Panchet Hills	34.9	..	40.8	1	26.6	..	23.4	10	68.9	156.9	..	45.6	14	11	..	7.6	5.9	..	0	15	0	0	19	0	0	0	0	0	0	
Durgapur	35.9	..	40.4	1	24.7	..	20.9	10	114.9	167.8	..	39.0	10	14	..	14.6	9.5	..	0	17	0	0	0	0	0	0	0	0	0	
Mahanadi Catchment																														
Ginabahar	35.3	..	41.3	2	24.3	..	21.7	8,14	..	147.3	..	37.6	8	10	..	.	..	..	1	15	..	..	..	..	..	..	..	..	..	
Hirakud	35.8	..	43.4	2	26.4	..	22.9	16,24	40.4	172.0	..	40.6	13	9	..	8.8	6.9	..	0	14	0	0	12	0	0	0	0	2	0	
Bhimkund	33.4	..	41.1	2	24.5	..	22.8	2	75.9	101.8	..	32.5	24	8	..	6 8	3.6	..	0	14	0	0	15	0	0	0	0	0	0	
Sonepur	35.0	..	40.3	1,2	25.6	..	21.7	24	..	247.1	..	38.4	15	14	..	..	5.6	..	0	16	..	..	..	..	..	..	..	..	..	
Khijrawan	34.1	..	40.0	1	24.5	..	21.3	23,24	10.0	159.2	..	57.0	23	9	..	14.7	9.5	..	0	11	0	0	0	0	0	0	0	0	0	
Narmada Catchment																														
Bagra Tawa	38.9	..	42.5	9	28.0	..	22.7	15	5.5	33.8	..	21.0	15	3	..	(d) 12.1	(b) 9.9	..	0	6	0	0	0	0	0	0	0	0	0	
Funasa	38.8	..	40.8	4,8	27.4	..	24.2	11	0	22.4	..	16.6	7	2	..	9.1	8.5	..	0	2	0	0	0	0	0	0	0	0	0	
Thikri	38.9	..	43.4	4	27.6	..	24.1	19	..	4.5	..	4.0	28	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0	
Sabarmati Catchment																														
Daroi	42.3	..	45.4	3	24.8	..	23.2	1,19	0	20.3	..	15.3	20	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..	
Gandak Catchment																														
Jomosom	24.6	..	26.5	6,21	12.9	..	7.7	4	1.0	14.8	..	7.8	14	1	..	..	..	.	0	5	..	..	..	..	..	..	..	..	..	
Khudi Bazar									176.4	701.4	..	127.0	29	24	..	..	..	..	0	27	..	..	..	..	..	..	..	..	..	
Timure	26.3	..	29.4	6	17.1	..	14.0	3	31.9	111.4	..	14.8	29	14	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..	
Pokhara	28.6	..	32.2	6	21.1	..	18.2	7	153.1	992.6	..	137.4	28	25	..	4.0	3.1	..	1	26	0	0	12	0	0	0	0	0	0	
Gorkha†																														
Nuwakot	29·9	..	33·9	6	20·8	..	18·9	10	110·8	468·7	..	152·8	10	16	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..	
Ghaghara Catchment (Trans Himalayan Region)																														
Dailekh	28·1	..	31·5	6,7	19·5	..	16·8	10	26·8	178·8	..	43·8	10	9	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..	
Ghaghara Catchment																														
Dadeldhura	(b) 26·9	..	30·6	10	(b) 16·8	..	11·8	1,3	19·9	138·9	..	53·8	23	7	..	..	..	..	2	12	0	0	7	4	0	0	0	0	0	
Sallayana	28·0	..	31·6	5	19·9	..	17·0	12	25·3	89·4	..	31·0	12	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..	
Butwal	32·9	..	37·9	6	24·8	..	21·4	11	135·0	757·8	..	143·6	14	21	..	..	..	..	0	21	..	..	..	..		..	..	..	..	
Baghmati Catchment																														
Katmandu*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kosi Catchment																														
Chautara	26·8	..	30·9	6	17·6	..	15·1	12	83·2	594·1	..	134·8	10	19	..	..	..	..	1	22	..	..	..	..	..	..	..	..	..	
Chepua	..	..	..	..	..	..	..	..	66·7	381·7	..	46·9	20	26	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..	
Walungchung Gola	16·3	..	19·4	20	8·6	..	5·9	3	133·4	370·2	..	33·8	22	27	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..	
Taplethok	26·5	..	29·6	7	17·8	..	16·5	11	127·6	503·0	..	45·6	26	28	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..	
Bhojpur	23·7	..	26·8	6	18·0	..	16·3	12	105·1	293·3	..	88·1	10	13	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..	
Taplejung	24·0	..	26·6	6	17·0	..	15·8	11	59·8	458·0	..	46·8	13	21	..	..	..	..	0	28	0	0	5	14	0	0	0	0	0	
Okhaldhunga	23·2	..	26·6	5,6	17·1	..	15·1	12	76·7	383·0	..	107·2	10	15	..	..	..	..	0	23	..	..	..	..	..	..	..	..	..	
Chainpur	(d) 26·1	..	30·2	9	19·6	..	17·0	4	75·4	232·2	..	67·8	10	18	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..	
Angbung	28·7	..	31·6	7	20·5	..	18·8	29	45·8	372·6	..	108·0	27	18	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..	
Barahakshetra	31·5	..	36·3	6	(b) 23·9	..	21·7	29	218·3	463·5	..	69·5	21	20	..	7·5	4·3	..	0	26	0	0	8	0	0	0	0	0	0	
Tista Catchment																														
Gangtok	23·4	..	26·7	6,7	16·7	..	15·3	12	105·3	564·8	..	87·0	21	28	..	4·6	4·0	..	0	29	0	0	5	24	0	0	0	0	0	
Gezing	25·1	..	28·7	6	17·7	..	16·6	12	73·1	605·9	..	61·3	28	27	..	..	..	..	0	28	..	..	..	..	..	..	..	..	..	

*Data included under Nepal. (d) Mean of 27 days. (b) Mean of 29 days. †Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1007·0	1003·9	..	27·7	26·1	25·4	32·4	87	..	5·8	..	10·5	0	0	29	0	0	0	0	0	29	0	0	1	0
	1730	28	1005·1	1002·0	..	27·8	26·2	25·5	32·6	87	..	6·2	..	9·8	0	0	29	0	0	0	0	0	29	0	0	1	0
Long Islands	0830	25	1007·0	1004·2	..	27·7	25·8	24·9	31·5	85	..	7·0	..	4·9	0	0	25	0	0	0	0	0	20	5	0	5	0
	1730	25	1005·2	1002·4	..	28·0	25·7	24·7	31·1	82	..	7·0	..	5·6	0	0	29	0	0	0	0	0	16	12	1	1	0
Port Blair	0530	79	1006·8	997·9	..	25·6	24·6	24·1	30·0	92	..	7·4	..	17·2	0	11	17	0	0	0	0	1	21	6	0	2	0
	0830	79	1007·9	999·0	+0·5	27·1	25·4	24·6	30·9	86	+4	7·3	+0·6	22·2	0	18	12	0	0	0	0	1	26	3	0	0	0
	1130	79	1006·9	998·1	..	28·3	25·7	24·6	30·9	80	..	7·5	..	26·1	0	22	8	0	0	0	0	1	27	2	0	0	0
	1730	79	1005·7	996·8	..	27·0	25·3	24·5	30·7	86	..	7·5	..	18·2	0	11	18	0	0	0	0	0	24	5	0	1	0
	2330	79	1007·1	998·2	..	26·0	24·9	24·5	30·7	91	..	6·4	..	16·5	0	11	19	0	0	0	0	2	24	3	1	0	0
Car Nicobar	0830	10	1009·2	1007·9	..	28·5	25·7	24·5	30·7	79	..	6·3	..	6·3	0	0	30	0	0	0	0	1	23	4	2	0	0
	1730	10	1007·1	1005·8	..	27·6	25·3	24·3	30·4	82	..	6·8	..	4·5	0	0	27	0	0	0	0	0	21	5	1	3	0
Nancowry	0830	26	1009·8	1006·9	..	28·3	25·5	24·3	30·4	78	..	4·9	..	6·2	0	0	29	0	0	0	0	0	19	9	0	1	1
	1730	26	1007·7	1004·8	..	27·5	25·0	23·9	29·7	81	..	4·7	..	4·5	0	0	26	0	0	0	0	0	20	5	1	4	0
Kondul	0830	8	..	..	..	28·3	25·5	24·4	30·5	79	..	5·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	8	[illegible]	..	..	22·5	25·4	24·5	30·7	83	..	6·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1002·0	984·5	..	26·0	24·0	23·1	28·3	85	..	6·5	..	3·7	0	0	22	1	2	1	0	0	0	0	18	8	0
	1730	157	998·9	981·5	..	28·0	25·3	24·1	30·0	81	..	5·8	..	0·9	0	0	4	1	0	1	0	0	0	0	2	26	0
Dibrugarh (Mohanbari)	0230	111	1000·7	988·1	..	24·3	23·7	23·4	28·8	94	..	7·1	..	2·1	0	0	10	1	5	0	1	1	2	0	0	20	0
	0530	111	1001·1	988·5	..	24·3	23·7	23·4	28·8	95	..	7·2	..	2·5	0	0	15	0	9	3	1	0	1	1	0	15	0
	0830	111	1003·0	989·5	—1·3	26·3	24·6	23·9	29·7	87	+1	7·1	+0·9	3·7	0	0	26	1	20	1	2	0	0	2	0	4	0
	1130	111	1001·3	988·9	..	28·1	25·5	24·4	30·5	81	..	6·6	..	4·4	0	0	28	2	11	7	2	3	0	2	1	2	0
	1730	111	998·9	986·5	..	28·2	25·5	24·3	30·4	80	..	6·1	..	4·6	0	0	23	0	10	7	0	0	3	1	2	7	0
	2330	111	1000·8	988·3	..	25·1	24·1	23·6	29·1	92	..	6·8	..	4·1	0	0	18	1	12	3	1	0	1	0	0	12	0
Dibrugarh*	0830	106	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	106	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Digboi (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	0830	102	1002·0	990·5	—0·8	26·3	24·9	24·3	30·4	89	+1	6·9	—0·1	3·3	0	0	29	6	13	2	1	4	3	0	0	1	0
	1130	102	1001·0	989·6	..	28·1	25·6	24·5	30·7	82	..	6·3	..	3·8	0	0	29	4	8	2	5	4	4	2	0	1	0
	1730	102	998·7	987·3	..	28·1	25·9	25·0	31·7	84	..	5·9	..	3·0	0	0	24	2	11	4	2	0	4	1	0	6	0
Sibsagar	0830	97	1002·4	991·6	—0·5	27·0	25·5	24·9	31·5	88	+3	7·6	+0·6	2·0	0	0	16	2	12	0	0	0	2	0	0	14	0
	1730	97	999·4	988·6	..	29·3	26·3	25·0	31·7	78	..	6·7	..	3·3	0	0	24	5	9	2	2	1	5	0	0	6	0
Gohpur	0830	..	..	..	..	26·7	25·1	24·4	30·5	86	..	2·1	..	3·0	0	0	30	1	16	0	4	1	7	0	1	0	0
	1730	..	..	..	..	28·8	26·2	25·1	31·9	79	..	1·7	..	3·0	0	0	30	1	9	6	5	2	3	0	4	0	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	5·5	..	2·3	0	0	17	0	4	5	4	2	1	1	0	13	0
	1730	..	..	..	..	..	..	..	..	..	..	4·3	..	1·1	0	0	9	0	4	1	1	1	1	1	0	21	0
Jorhat (Aerodrome)	0530	90	1000·1	989·9	..	24·9	24·5	24·1	30·0	96	..	7·4	..	6·1	0	3	15	1	7	1	0	1	4	1	3	12	0
	0830	90	1001·3	991·2	..	25·9	25·1	24·3	30·4	87	..	7·0	..	7·8	0	1	23	0	13	2	0	1	5	1	2	6	0
	1130	90	1000·4	991·9	..	28·8	25·9	24·7	31·1	79	..	6·6	..	9·7	0	0	28	4	14	3	0	0	2	2	3	2	0
	1730	90	997·7	987·7	..	29·0	26·0	25·0	31·7	78	..	6·3	..	8·7	0	1	25	5	13	3	0	1	1	2	1	4	0
	2330	90	1000·1	990·3	..	26·2	25·1	24·9	31·5	92	..	6·3	..	6·0	0	2	15	1	9	0	1	1	3	1	1	13	0
Tangla	0830	78	1000·3	991·8	..	26·9	25·2	24·5	30·7	87	..	5·9	..	0·1	0	0	1	0	0	1	0	0	0	0	0	29	0
	1730	78	997·2	988·7	..	29·6	26·6	25·4	32·4	78	..	4·9	..	0·1	0	0	2	0	0	1	0	0	0	1	0	28	0
Tezpur	0830	79	1002·2	993·5	—0·9	26·0	25·1	24·8	31·3	92	+8	6·8	+0·6	4·1	0	0	21	0	9	5	1	2	2	2	0	9	0
	1730	79	998·9	990·0	..	28·9	26·2	25·1	31·9	80	..	6·4	..	2·2	0	0	13	0	6	1	1	0	4	1	0	17	0
Golaghat	0830	..	..	..	..	27·8	25·7	24·4	30·5	84	..	(c) 7·3	..	(c) 0·3	0	0	4	0	0	0	4	0	0	0	0	22	0
	1730	..	..	..	..	30·5	26·2	24·5	30·7	74	..	(p) 4·6	..	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Rangia	0830	..	..	..	..	27·8	25·4	24·3	30·4	83	..	(d) 5·1	..	(d) 2·2	0	0	14	0	2	9	0	0	0	1	2	13	0
	1730	..	..	..	..	30·4	26·4	24·7	30·4	72	..	(k) 3·3	..	(k) 1·2	0	0	7	0	0	3	0	0	1	3	0	13	0
Chaparmukh	0830	66	1002·0	994·6	..	27·8	25·6	24·6	30·9	83	..	5·8	..	4·3	0	0	30	5	0	16	1	4	0	3	1	0	0
	1730	66	997·9	990·5	..	29·3	26·5	25·4	32·4	78	..	5·2	..	3·3	0	0	30	16	0	7	2	1	0	4	0	0	0

(c)—Mean of 26 days. (p)—Mean of 15 days. (d)—Mean of 27 days. (k)—Mean of 20 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Goalpara	0830	38	1001·7	997·4	..	27·1	25·4	24·7	31·1	89	..	6·4	..	2·5	0	0	22	0	7	3	7	0	1	1	3	8	0
	1730	38	999·0	994·7	..	29·4	26·6	25·4	32·4	81	..	6·0	..	2·5	0	0	23	0	4	1	6	0	3	4	5	7	0
Gauhati	0830	55	1002·0	995·7	—0·5	27·6	25·6	24·7	31·1	85	+3	5·4	—0·8	0·4	0	0	4	0	3	1	0	0	0	0	0	26	0
	1730	55	999·1	993·9	..	29·3	26·2	24·9	31·5	77	..	6·2	..	0·2	0	0	2	0	1	1	0	0	0	0	0	28	0
Gauhati (Bhorjo	0230	54	999·5	993·3	..	25·7	24·8	24·4	30·5	92	..	6·7	..	3·3	0	0	17	5	4	2	1	3	2	0	0	13	0
	0530	54	1000·1	994·0	..	25·5	24·6	24·1	30·0	93	..	7·3	..	4·0	0	0	17	6	7	1	1	1	0	1	0	13	0
	0830	54	1001·3	995·2	—1·1	27·6	25·3	24·3	30·4	83	+2	7·1	+0·9	5·5	0	0	21	9	8	3	0	0	1	0	0	9	0
	1130	54	1000·4	994·3	..	29·3	26·2	24·9	31·5	77	..	6·5	..	8·3	0	1	25	12	8	0	0	1	1	0	4	4	0
	1730	54	998·0	991·9	..	28·6	26·1	25·1	31·9	81	..	6·6	..	4·6	0	0	21	4	3	1	1	4	4	2	2	9	0
	2330	54	1000·2	994·2	..	26·2	25·2	24·7	31·1	91	..	6·3	..	2·6	0	0	10	4	2	1	0	1	1	0	1	20	0
Dhubri (Rupsi)	0530	36	999·2	995·1	..	25·5	24·8	24·5	30·7	94	..	6·7	..	4·1	0	0	19	0	9	5	0	0	3	1	1	11	0
	0830	36	1000·4	996·4	..	27·7	25·7	24·7	31·1	85	..	6·5	..	6·3	0	0	27	0	6	4	7	3	3	3	1	3	0
	1130	36	999·6	995·7	..	29·1	26·4	25·3	32·2	80	..	6·4	..	9·5	0	2	25	1	6	6	5	3	5	0	1	3	0
	1730	36	997·9	993·1	..	28·9	26·4	25·3	32·2	82	..	5·9	..	5·5	0	0	22	2	3	6	2	4	3	2	0	8	0
Dhubri	0830	35	1001·7	997·8	—0·4	27·2	25·7	25·0	31·7	88	+2	5·7	—0·4	4·6	0	2	21	1	10	5	2	1	3	0	1	7	0
	1730	35	998·4	994·5	..	28·2	26·6	25·9	33·4	85	..	5·7	..	3·1	0	0	23	1	5	5	3	6	1	0	2	7	0
Lumding	0830	149	1001·3	984·8	..	27·9	25·4	24·3	30·4	81	0	6·6	..	0·7	0	0	7	0	1	1	3	0	2	0	0	23	0
	1730	149	998·4	981·9	..	29·6	26·3	24·9	31·1	76	..	6·2	..	1·4	0	0	8	0	1	1	4	0	2	0	0	22	0
Tura	0830	370	1001·9	960·8	..	25·9	24·6	24·0	29·8	89	..	7·9	..	5·2	0	0	23	1	1	3	5	4	2	6	1	7	0
	1730	370	998·7	957·8	..	26·9	25·6	25·1	31·9	90	..	6·8	..	(c) 5·0	0	0	25	0	4	2	3	5	6	4	1	3	0
Haflong	0830	682	1001·7	927·3	..	23·6	22·3	21·4	25·5	88	..	6·5	..	12·0	0	4	26	3	0	0	0	1	24	2	0	0	0
	1730	682	998·1	924·3	..	25·1	22·8	21·8	26·1	82	..	5·6	..	8·5	0	4	26	0	0	0	0	0	26	1	3	0	0
Silchar (Kumbhirgram)	0530	97	999·7	988·8	..	24·6	23·8	23·4	28·8	94	..	7·2	..	4·1	0	0	22	1	2	18	0	0	1	0	0	8	0
	0830	97	1000·7	989·9	..	26·9	25·2	24·5	30·7	87	..	6·7	..	3·1	0	0	21	0	4	9	3	1	1	1	2	9	0
	1130	97	999·8	989·1	..	28·8	25·8	24·5	30·7	78	..	6·4	..	4·3	0	0	26	2	2	4	1	1	8	5	3	4	0
	1730	97	997·5	986·8	..	28·3	25·7	24·6	30·9	81	..	6·0	..	3·4	0	0	19	0	1	7	0	0	2	6	3	11	0
Silchar	0830	29	1002·1	998·8	—1·4	27·2	25·5	24·7	31·1	87	+3	6·8	+0·7	1·8	0	0	17	3	5	3	3	1	0	1	1	13	0
	1730	29	999·0	995·8	..	28·9	26·1	24·9	31·5	80	..	5·7	..	2·0	0	0	18	1	0	1	3	3	2	4	4	12	0
Imphal (Tulihal)	0530	781	1002·2	916·7	..	22·0	21·4	21·0	24·9	94	..	7·2	..	0·9	0	0	8	0	2	2	0	2	1	1	0	22	0
	0830	781	1002·3	917·7	—1·7	24·6	22·3	21·1	25·0	81	+1	7·0	+0·2	1·9	0	0	18	1	0	5	3	1	3	3	2	12	0
	1130	781	1000·9	917·0	..	26·6	22·9	21·2	25·2	71	..	6·8	..	5·9	0	0	23	0	0	0	6	2	7	2	6	7	0
	1730	781	999·0	914·9	..	25·5	22·7	21·5	25·6	79	..	7·1	..	5·0	0	0	23	1	1	1	2	1	4	5	8	7	0
	2330	781	1002·0	917·0	..	23·0	22·1	21·6	25·8	92	..	6·8	..	2·6	0	0	12	0	4	1	0	2	1	1	3	18	0
Kailashahar	0530	29	1001·4	998·1	..	25·3	24·3	23·8	29·5	93	..	7·3	..	3·0	0	0	14	1	1	0	1	7	1	3	0	16	0
	0830	29	1002·5	999·3	..	27·5	25·3	24·3	30·4	84	..	7·2	..	5·0	0	0	25	1	1	2	3	11	4	3	0	5	0
	1130	29	1001·5	998·2	..	29·6	26·3	24·9	31·5	77	..	7·1	..	6·6	0	0	27	2	0	3	3	13	4	2	0	3	0
	1730	29	999·5	996·3	..	28·1	25·9	25·0	31·7	83	..	7·3	..	6·0	0	1	24	3	1	0	2	14	2	1	2	5	0
Agartala	0230	16	999·1	997·3	..	25·6	24·8	24·4	30·5	94	..	6·5	..	8·5	0	1	21	1	1	1	10	7	1	0	1	8	0
	0530	16	999·7	998·0	..	25·3	24·6	24·3	30·4	94	..	7·4	..	9·6	0	4	20	0	4	2	10	7	1	0	0	6	0
	0830	16	1000·9	999·1	—1·0	27·6	25·7	24·9	31·5	85	+1	7·4	+0·7	14·1	0	8	21	1	0	2	14	10	1	1	0	1	0
	1130	16	1000·2	998·5	..	29·4	26·6	25·4	32·4	79	..	7·3	..	13·4	0	5	23	1	0	1	9	14	0	0	3	2	0
	1730	16	998·1	996·3	..	28·1	25·9	25·0	31·7	84	..	7·3	..	12·9	0	4	24	2	2	1	2	14	4	3	0	2	0
	2330	16	1000·0	998·2	..	26·1	25·2	25·0	31·7	93	..	6·8	..	10·3	0	2	23	0	1	1	11	10	0	2	0	5	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	998·9	984·2	..	25·9	25·1	24·7	31·1	94	..	6·1	..	8·4	0	0	29	10	7	6	2	0	1	3	0	1	0
	0530	131	999·6	984·8	..	24·8	24·4	24·2	30·1	97	..	7·2	..	6·1	0	0	25	7	7	9	2	0	0	0	0	5	0
	0830	131	1000·7	986·0	—0·8	27·3	25·5	24·8	31·3	86	+2	7·2	+0·5	12·5	0	4	24	0	7	9	8	4	0	0	0	2	0
	1130	131	1000·1	985·5	..	28·9	26·3	25·2	32·1	81	..	7·0	..	11·5	0	0	29	1	2	11	11	2	1	0	1	1	0
	1730	131	997·4	982·9	..	28·8	26·5	25·7	33·0	83	..	6·9	..	9·0	0	1	27	6	6	4	10	2	0	0	0	2	0
	2330	131	999·7	985·0	..	26·8	25·7	25·2	32·1	91	..	6·2	..	8·1	0	2	24	8	9	7	2	0	0	0	0	4	0
Jalpaiguri	0830	83	1000·9	991·6	—1·2	26·3	25·1	24·6	30·9	91	+5	6·4	+1·6	6·5	0	0	28	2	8	11	3	2	0	0	2	2	0
	1730	83	997·4	988·1	..	28·9	26·3	25·2	32·1	80	..	5·7	..	7·9	0	1	29	4	5	10	6	3	1	0	1	0	0
Cooch Behar	0830	43	1000·9	996·1	..	27·5	25·6	24·7	31·1	85	..	6·8	..	9·1	0	1	28	1	8	10	4	4	1	0	0	1	1
	1130	43	1000·0	995·2	..	29·6	26·4	25·1	31·9	77	..	6·7	..	12·7	0	3	25	0	5	11	8	3	0	0	1	2	0
	1730	,,	997·7	992·9	..	29·0	26·5	25·4	32·4	81	..	6·4	..	5·0	0	0	21	1	1	10	6	2	0	0	1	9	0
Balurghat	0830	..	..	..	..	27·9	26·1	25·3	32·2	86	..	5·7	..	3·7	0	0	26	1	4	6	10	3	1	1	0	4	0

(c)—Mean of 28 days.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*Contd.*)																											
Balurghat—contd.	1730	..	..	..	..	30·4	27·0	25·6	32·8	76	..	5·8	..	2·9	0	0	26	1	2	4	11	6	2	0	0	4	0
Malda	0830	31	1000·1	996·6	—1·0	29·3	26·5	25·3	32·2	80	—1	6·8	+1·8	5·8	0	0	29	1	7	9	6	4	2	0	0	1	0
	1730	,,	997·1	993·6	..	31·2	27·1	25·5	32·6	72	..	6·6	..	6·1	0	0	28	0	5	9	10	3	1	0	0	2	0
Gangetic West Bengal																											
Berhampore	0830	19	999·5	997·5	—1·1	29·4	26·7	25·5	32·6	82	+1	7·0	+0·9	3·8	0	0	30	2	0	13	2	11	1	1	0	0	0
	1730	,,	996·8	994·8	..	29·9	26·9	25·7	33·0	79	..	7·7	..	5·2	0	0	23	0	0	13	0	8	0	2	0	7	0
Suri	0830	77	..	..	..	29·7	26·5	25·2	32·1	77	..	6·1	..	6·0	0	0	29	0	5	10	4	8	1	1	0	1	0
Asansol	0230	126	997·9	983·9	..	27·3	25·9	25·1	31·9	88	..	4·8	..	4·1	0	0	16	0	0	2	7	3	2	2	0	14	0
	0530	,,	998·8	984·8	..	26·8	25·6	25·1	31·9	90	..	6·1	..	3·7	0	0	15	0	1	3	5		2	2	1	15	0
	0830	,,	999·6	985·6	—0·4	31·1	26·4	24·9	31·5	74	0	5·3	0	7·1	0	0	27	1	5	4	5		5	3	2	3	0
	1130	,,	998·9	985·1	..	33·1	27·1	24·3	30·9	62	..	5·5	..	7·7	0	0	28	2	6	7	3	1	2	2	5	2	0
	1730	,,	996·6	982·7	..	30·9	26·3	24·4	30·5	70	..	6·6	..	7·5	0	0	25	0	3	13		1	1	2	0	5	0
	2330	,,	999·0	985·0	..	27·8	26·0	25·2	32·1	86	..	6·1	..	5·2	0	0	19	0	0	2	6	5	2	3	1	11	0
Shanti Niketan	0830	59	1000·1	992·9	..	29·3	26·5	25·3	32·2	79	..	6·1	..	6·7	0	1	22	1	5	4		8	3	0	1	7	0
	1130	,,	999·5	997·9	..	31·6	27·1	25·2	32·1	66	.	5·9	..	6·2	0	2	20	0	5	2		3	6	0	2	8	0
	1730	,,	997·2	990·6	..	30·1	26·3	24·7	31·1	74	..	7·1	..	7·0	0	1	18	0	0	1		9	2	0	1	11	0
Krishnanagar	0830	15	1001·8	1000·2	+0·9	29·3	27·2	26·3	34·2	85	+6	3·6	—2·1	1·0	0	0	10	0	0	1	0	9	0	0	0	20	0
	1730	,,	997·1	995·5	..	29·9	26·9	25·8	33·2	79	..	4·9	..	1·9	0	0	15	1	0	1	0	12	0	0	1	15	0
Purulia	0830	255	999·7	972·0	+0·2	30·0	25·4	23·3	28·6	68	—3	7·1	+1·7	2·4	0	0	19	0	4	0	4	0	3	0	7	11	1
	1730	,,	996·6	969·0	..	31·2	25·4	22·8	27·7	63	..	7·9	..	3·8	0	0	25	0	8	1	7	2	3	1	3	5	0
Bankura	0830	..	..	..	..	30·6	26·6	24·9	31·5	73	..	4·8	..	5·4	0	0	26	1	7	0	3	7	7	0	1	4	0
	1730	..	..	..	..	30·8	26·6	24·8	31·3	71	..	6·1	..	6·2	0	0	26	0	12	0	4	4	6	0	0	4	
Burdwan	0830	32	999·3	995·7	—1·1	29·8	27·3	26·3	34·2	81	+1	5·0	—0·9	3·6	0	1	16	1	3	1	1	6	3	0	2	13	0
	1730	,,	996·4	992·8	..	30·0	27·2	26·1	33·8	80	..	6·8	..	10·1	0	2	27	3	3	1	1	17	3	0	1	1	0
Barrackpore(Aerodrome)	0530	7	998·7	997·9	..	26·7	26·	25·9	33·4	95	..	6·6	..	4·3	0	0	18	1	4	2	2	6	3	0	0	12	0
	0830	,,	999·9	999·2	—0·7	28·9	27·4	26·9	35·4	87	+7	6·8	+0·5	9·8	0	1	27	2	6	4	1	8	5	2	0	2	0
	1130	,,	999·3	998·6	..	31·8	28·8	27·7	37·1	79	..	6·4	..	8·1	0	1	25	1	4	3	3	10	3	1	1	4	0
	1730	,,	997·2	996·5	..	29·4	27·4	26·6	34·8	86	..	6·8	..	6·2	0	0	22	0	0	5	7	8	2	0	0	8	0
	2330	,,	999·6	998·8	..	26·8	25·8	25·4	32·4	92	..	5·7	..	4·9	0	0	17	1	5	0	2	5	3	1	0	13	0
Calcutta(Dum Dum)	0230	6	998·0	997·3	..	26·6	25·7	25·3	32·2	93	..	5·5	..	5·0	0	0	22	0	2	4	5	4	5	2	0	8	0
	0530	,,	998·5	997·8	..	26·7	25·9	25·6	32·8	93	..	6·9	..	4·5	0	0	23	3	3	1	3	7	5	1	0	7	0
	0830	,,	999·8	999·1	—0·6	29·2	26·9	26·0	33·6	83	+4	6·9	+0·6	8·0	0	0	30	1	3	7	3	5	8	2	1	0	0
	1130	,,	999·2	998·5	..	31·5	27·5	26·0	33·6	73	..	6·8	..	8·4	0	1	27	2	2	2	8	6	5	2	1	2	0
	1730	,,	997·2	996·5	..	28·9	26·4	25·3	32·2	82	..	6·9	..	8·0	0	1	29	2	2	3	6	11	4	2	0	0	0
	2330	,,	999·2	998·5	..	26·9	25·9	25·4	32·4	91	..	4·8	..	5·8	0	0	26	1	2	4	6	7	4	2	0	4	0
Calcutta	0830	6	999·5	998·8	—1·1	29·4	26·9	25·8	33·2	81	+2	6·8	+0·7	5·6	0	0	28	0	2	7	0	11	4	3	1	2	0
	1130	,,	998·9	998·2	..	31·9	27·6	25·7	33·4	71	..	6·8	..	6·3	0	0	28	0	0	5	3	8	8	2	2	2	0
	1730	,,	997·1	996·4	..	29·4	26·6	25·4	32·4	81	..	7·1	..	7·6	0	2	24	0	0	7	2	12	4	1	0	4	0
Midnapore	0830	45	999·9	994·8	—0·5	28·9	26·2	25·0	31·7	80	+2	5·3	+0·3	2·4	0	0	25	2	4	1	1	7	6	[illegible]	[illegible]	5	0
	1730	,	996·7	991·7	..	30·5	26·7	25·1	31·9	74	..	6·3	..	2·7	0	0	27	0	2	3	1	10	9	1	1	3	0
Contai	0830	11	1000·0	998·8	+0·1	29·5	27·1	26·3	34·2	82	+1	5·2	0	4·0	0	0	25	2	0	0	2	4	12	2	3	5	0
	1730	,,	997·3	996·1	..	29·3	27·2	26·2	34·0	84	..	4·8	..	5·5	0	0	28	0	0	0	8	7	12	0	1	2	0
Sagar Island	0830	3	999·2	998·9	—1·3	29·5	27·3	26·4	34·4	84	+6	6·4	—0·1	21·3	0	17	13	1	2	1	1	5	12	5	3	0	0
	1730	,,	997·0	996·7	..	29·7	27·5	26·6	34·8	84	..	6·6	..	23·2	0	17	13	0	0	1	4	9	12	3	1	0	0
Sandheads	0530	10	997·6	996·5	..	28·5	26·9	26·3	34·2	86	..	6·5	..	19·4	0	13	16	0	0	1	0	3	20	5	0	1	0
	0830	,,	999·6	998·5	—1·4	29·4	27·1	26·1	33·8	82	+2	6·8	+1·1	16·3	0	5	24	0	0	1	1	5	16	5	1	1	0
	1130	,,	999·3	998·2	..	29·8	27·3	26·3	34·2	81	..	6·8	..	17·4	0	7	23	0	1	0	1	7	16	4	1	0	0
	1730	,,	996·6	995·5	..	29·3	27·1	26·2	34·0	82	..	6·3	..	19·6	0	13	17	0	1	1	0	6	19	2	1	0	0
	2330	,,	999·0	997·9	..	29·2	27·1	26·2	34·0	84	..	..	..	18·8	0	12	18	0	0	0	0	7	17	5	1	0	0
Orissa																											
Baripada	0830	54	1000·6	994·6	..	28·8	26·4	25·4	32·4	82	..	6·1	..	2·4	0	0	24	2	1	0	7	3	4	3	4	6	0
	1730	,,	997·8	991·9	..	29·9	26·9	25·7	33·0	78	..	6·3	..	2·2	0	0	18	0	1	1	6	3	3	2	2	12	0
Jharsuguda	0230	230	998·8	973·3	..	26·4	24·2	23·2	28·4	84	..	6·9	..	5·4	0	0	18	1	1	0	2	7	3	3	1	12	0
	0530	,,	999·5	973·8	..	25·9	24·0	23·1	28·3	84	..	7·3	..	4·1	0	0	21	0	1	0	2	5	8	2	3	9	0
	0830	,,	1000·5	975·1	+0·4	28·3	24·6	22·8	27·7	74	+9	7·2	+1·5	7·2	0	0	24	2	0	1	0	5	10	6	0	6	0
	1130	,,	999·8	974·6	..	31·8	25·5	22·6	27·4	60	..	6·9	..	10·1	0	2	27	0	0	1	0	3	10	13	2	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
ORISSA—Contd.																											
Jharsuguda—contd.	1730	230	996·6	971·6	..	32·0	25·4	22·2	26·7	60	..	7·6	..	9·6	0	1	28	0	1	2	2	5	9	7	3	1	0
	2330	,,	999·8	974·3	..	27·3	24·2	22·7	27·6	78	..	7·0	..	6·7	0	0	22	2	0	1	2	7	6	4	0	8	0
Keonjhargarh	0830	463	997·2	947·0	..	28·2	24·3	22·7	27·6	72	..	6·2	..	5·9	0	1	28	6	3	0	0	3	3	12	2	1	0
	1730	,,	994·9	944·8	..	28·6	24·9	23·3	28·6	74	..	7·1	..	6·8	0	0	30	1	3	2	3	1	6	12	2	0	0
Balasore	0830	20	999·8	997·6	—0·5	28·9	26·9	26·0	33·6	85	+8	7·0	+1·6	8·9	0	0	30	3	1	0	0	11	11	1	3	0	0
	1730	,,	997·1	994·9	..	29·9	27·1	26·0	33·6	81	..	6·9	..	7·8	0	2	26	3	0	2	1	8	11	0	3	2	0
Sambalpur	0830	148	1000·7	984·3	+0·1	29·6	25·0	22·9	27·9	68	+2	5·3	+0·1	2·4	0	0	18	0	1	0	0	5	9	2	1	12	0
	1730	,,	997·7	981·5	..	32·4	24·4	22·2	26·7	56	..	6·2	..	2·8	0	0	17	0	1	0	0	5	6	3	2	13	0
Angul	0830	139	1000·8	985·5	+0·4	29·2	26·7	25·7	33·0	83	+11	7·4	+1·6	3·4	0	0	21	1	0	0	1	1	8	9	1	9	0
	1730	,,	997·9	982·7	..	31·5	28·7	27·7	37·1	81	..	7·0	..	4·6	0	0	26	0	1	0	3	5	11	6	0	4	0
Cuttack	0830	27	1001·3	998·3	+0·2	29·4	26·2	24·8	31·3	77	+2	7·3	+1·6	3·8	0	0	13	0	1	0	0	0	7	2	3	17	0
	1730	,,	998·3	995·3	..	31·3	26·8	24·9	31·5	70	..	6·9	..	7·1	0	1	18	0	0	0	2	3	7	2	5	11	0
Chandbali. . .	0830	6	1000·1	999·4	—0·8	29·1	26·6	25·5	32·6	80	+1	7·1	+1·3	5·1	0	0	29	2	0	1	3	3	14	2	4	1	0
	1730	,,	997 4	996·7	..	31·0	26·6	24·7	31·1	71	..	6·5	..	6·7	0	0	30	1	2	0	7	4	11	4	1	0	0
Bolangir	0830	190	1001·8	980·8	..	29·6	25·3	23·3	28·6	73	..	3·6	..	3·7	0	0	30	0	1	1	1	11	12	4	0	0	0
	1730	,,	998·3	977·6	..	32·6	26·9	24·5	30·7	62	..	7·5	..	3·6	0	0	30	1	1	2	3	8	9	4	2	0	0
Phulbani	0830	464	999·0	948·6	..	27·1	23·5	21·9	26·3	72	..	6·7	..	0·2	0	0	1	0	0	0	1	0	0	0	0	29	0
	1730	,,	996·1	946·1	..	29·7	24·4	22·1	26·6	65	..	6·9	..	0·5	0	0	3	1	0	0	0	0	0	2	0	27	0
Titlagarh	0830	211	1002·2	978·8	..	28·8	24·9	23·1	28·3	72	..	..	..	3·0	0	0	30	0	2	0	3	3	19	1	2	0	0
	1730	,,	998·8	975·7	..	32·1	26·3	23·8	29·5	64	..	..	..	3·0	0	0	30	0	1	0	1	5	10	9	7	0	0
Bhubaneswar	0230	46	999·0	993·8	..	27·3	26·1	25·6	32·8	90	..	4·3	..	7·1	0	2	17	0	0	0	0	2	11	2	1	11	0
	0530	,,	999·5	994·3	..	26·7	25·3	24·7	31·1	89	..	7·0	..	4·5	0	1	16	3	0	1	0	2	8	2	1	13	0
	0830	,,	1001·0	995·8	+0·3	29·0	26·0	24·7	31·1	79	+1	6·9	+0·8	7·5	0	1	24	2	3	0	0	7	11	2	3	5	0
	1130	,,	1000·5	995·3	..	31·3	26·2	23·9	29·7	67	..	6·7	..	11·0	0	5	22	2	1	0	3	3	10	6	2	3	0
	1730	,,	998·3	993·1	..	30·3	26·5	24·8	31·3	74	..	6·9	..	13·9	0	8	18	0	0	1	1	10	9	5	0	4	0
	2330	,,	1000·3	995·1	..	27·8	26·2	25·5	32·6	88	..	5·1	..	13·3	0	8	15	0	1	0	0	4	12	4	2	7	0
Puri	0830	6	1001·0	1000·3	—0·1	29·3	27·1	26·2	34·0	83	+2	7·2	+1·9	12·2	0	6	23	1	0	0	0	3	22	2	1	1	0
	1730	,,	998·5	997·8	..	29·2	27·3	26·5	34·6	86	..	6·6	..	18·3	0	11	19	1	0	0	1	9	17	0	2	0	0
Gopalpur . . .	0530	17	999·9	998·0	..	27·3	25·5	24·7	31·1	86	..	7·1	..	9·1	0	1	25	2	1	0	0	6	13	2	2	4	0
	0830	,,	1001·4	999·5	+0·3	29·2	26·1	24·7	31·1	76	—5	7·2	+2·7	9·6	0	2	24	2	0	0	0	8	13	1	2	4	0
	1130	,,	1001·0	999·1	..	30·7	27·4	26·0	33·6	78	..	6·8	..	12·6	0	2	26	0	0	0	3	11	12	1	1	2	0
	1730	,,	998·8	996·9	..	29·4	27·1	26·1	33·8	84	..	6·7	..	17·0	0	11	18	1	0	0	0	10	15	2	1	1	0
	2330	,,	1000·7	998·8	..	27·9	25·7	24·8	31·3	84	..	5·6	..	12·5	0	5	23	5	0	0	0	3	11	3	6	2	0
Koraput	0830	913	1458·9	904·9	+0·7	24·4	21·2	19·6	22·8	76	—1	6·7	+1·2	8·3	0	2	28	0	2	0	0	0	18	5	5	0	0
	1730	,,	1437·6	902·6	..	24·7	21·5	19·9	23·2	76	..	6·3	..	5·6	0	0	30	0	0	2	1	4	7	12	4	0	0
Bihar Plateau																											
Dumka	0830	149	999·6	983·2	—0·5	29·8	26·5	25·1	31·9	77	+2	4·8	+0·1	3·7	0	0	22	0	0	2	13	3	3	0	1	8	0
	1730	,,	999·6	980·2	..	30·1	26·3	24·7	31·1	74	..	5·3	..	3·0	0	0	17	0	5	1	3	4	3	1	0	13	0
Daltongaunj . . .	0830	221	998·5	974·4	—0·6	31·8	25·0	21·8	26·1	57	—3	6·3	+2·8	2·1	0	0	6	0	0	0	0	0	1	3	2	24	0
	1730	,,	994·6	970·7	..	33·1	24·6	20·3	23·8	51	..	7·3	..	7·3	0	4	20	3	3	4	3	1	3	3	4	6	0
Hazaribagh . . .	0830	611	998·9	933·0	—0·6	28·6	23·8	21·7	25·9	68	+3	5·8	+0·1	8·6	0	1	28	0	0	1	4	0	6	10	8	1	0
	1730	,,	996·2	930·6	..	29·3	23·6	21·0	24·9	65	..	7·6	..	10·0	0	1	25	3	2	3	4	2	2	2	8	4	0
Dhanbad	0830	257	999·2	970·8	..	29·2	26·1	24·7	31·1	77	..	5·2	..	4·0	0	0	28	3	5	9	4	0	2	2	0	2	3
	1730	,,	996·0	967·9	..	31·0	26·5	24·6	30·9	70	..	7·0	..	8·2	0	2	25	0	1	1	2	0	0	1	0	3	22
Ranchi	0830	655	998·8	928·5	—0·1	27·8	23·6	21·8	26·1	71	+3	5·3	+0·3	2·1	0	0	17	1	1	1	2	6	6	0	0	13	0
	1730	,,	998·0	927·6	..	27·8	23·0	20·8	24·6	68	..	7·3	..	2·9	0	0	25	0	5	0	4	2	8	0	6	5	0
Ranchi Aerodrome . .	0530	652	998·8	927·8	..	24·6	22·5	21·5	25·6	84	..	6·5	..	4·1	0	0	19	1	1	1	0	0	9	7	0	11	0
	0830	,,	999·1	928·8	..	27·5	23·3	21·4	25·5	71	..	6·0	..	7·1	0	0	29	0	2	2	1	0	11	11	2	1	0
	1130	652	998·1	928·5	..	30·6	23·9	20·8	24·6	58	..	6·1	..	9·0	0	0	29	3	3	1	2	0	3	9	8	1	0
	1730	,,	996·0	926·2	..	28·2	23·4	21·2	25·2	66	..	(j) 6·8	..	(j) 7·9	0	0	20	1	3	3	1	0	5	3	4	1	0
Jamshedpur	0830	,,	999·8	985·5	—0·3	29·5	25·5	23·7	29·3	71	+1	6·7	+1·3	7·5	0	0	24	0	1	2	0	0	5	15	1	6	0
	1730	,,	996·6	982·5	..	31·4	25·8	23·3	28·6	65	..	7·1	..	9·7	0	3	25	0	1	8	5	0	4	8	2	2	0
Jamshedpur(P.B.O.) . .	0530	142	998·6	982·8	..	26·9	24·7	23·7	29·3	83	..	7·0	..	3·6	0	0	18	0	1	2	0	6	5	2	2	12	0
	0830	,,	999·7	984·0	..	29·6	25·3	23·3	28·6	70	..	6·5	..	5·4	0	0	23	1	0	1	1	7	10	3	0	7	0
	1130	,,	998·7	983·3	..	33·0	26·1	23·0	28·1	56	..	6·0	..	7·1	0	1	24	0	6	1	0	6	8	3	1	5	0
	1730	,,	996·6	981·1	..	31·4	25·5	22·9	27·9	63	..	7·4	..	8·0	0	1	24	1	5	4	4	4	3	4	0	5	0
	2330	,,	999·3	983·5	..	27·6	25·1	23·9	29·7	81	..	5·8	..	5·9	0	1	23	2	9	1	3	2	4	1	2	6	0

(j)—mean of 21 days.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau (Contd.)																											
Chaibasa	0830	226	999·3	974·3	—0·5	29·5	24·9	23·0	29·1	68	—1	7·3	+2·2	6·4	0	0	28	0	5	0	1	0	21	0	1	2	0
	1730	,,	996·6	971·9	..	30·8	25·6	23·3	28·6	65	..	7·2	..	6·5	0	0	30	0	9	0	4	0	10	0	7	0	0
Bihar Plains																											
Motihari	0830	66	999·9	992·4	—0·7	29·7	27·1	26·2	34·6	82	+5	(c) 4·6	+0·5	(c) 2·6	0	0	14	0	0	11	1	1	1	0	0	14	0
	1730	,,	996·5	989·1	..	30·9	27·6	26·3	34·2	77	..	4·1	..	2·8	0	0	19	1	0	17	0	0	1	0	0	11	0
Forbesganj	0830	61	1000·3	993·4	..	28·4	26·0	25·0	31·7	82	..	6·8	..	6·5	0	1	27	0	2	16	6	3	0	1	0	2	0
	1730	,,	996·7	990·0	..	30·9	27·0	25·4	32·4	73	..	6·1	..	4·5	0	0	27	1	4	16	4	1	0	1	0	3	0
Darbhanga	0830	49	999·7	994·2	—0·7	30·3	26·8	25·4	32·4	76	—1	4·3	—0·5	3·6	0	0	29	0	5	21	2	0	1	0	0	1	0
	1730	,,	996·9	991·5	..	31·7	27·2	25·3	32·2	70	..	3·4	..	3·0	0	0	27	0	10	12	2	0	2	0	1	3	0
Chapra	0830	..	..	..	..	30·6	26·3	24·5	30·7	71	..	4·3	..	3·5	0	0	18	2	8	6	0	0	1	0	1	12	0
	1730	..	..	..	..	33·7	26·7	23·7	29·3	58	..	4·8	..	3·7	0	0	28	1	18	1	2	0	1	0	5	2	0
Purnea	0830	38	1000·3	996·1	—0·7	28·8	26·3	25·3	32·2	82	0	6·3	+0·9	5·1	0	0	26	0	5	20	0	0	0	1	0	4	0
	1730	,,	997·0	992·8	..	30·7	27·0	25·5	32·6	74	..	5·3	..	3·9	0	0	24	1	3	18	1	0	1	0	0	6	0
Patna	0830	53	999·1	993·2	—0·8	30·2	26·1	24·3	30·4	71	—1	5·5	+1·0	5·6	0	0	29	0	16	3	4	1	4	0	1	1	0
	1730	,,	995·5	989·7	..	34·1	26·6	23·3	28·6	55	..	6·0	..	5·2	0	0	23	0	11	0	4	1	1	4	2	7	0
Patna Aerodrome	0530	60	997·6	990·8	..	27·7	25·8	24·9	31·5	85	..	6·4	..	6·7	0	0	21	0	2	16	1	0	0	2	0	9	0
	0830	,,	998·8	992·1	..	30·8	26·7	24·9	31·5	71	..	6·1	..	10·9	0	2	25	0	3	13	7	2	0	2	0	3	0
	1130	,,	998·1	991·5	..	33·9	27·0	24·0	29·8	58	..	5·7	..	11·6	0	3	26	1	4	10	4	2	1	4	3	1	0
	1730	,,	995·0	988·5	..	33·9	26·8	23·7	29·3	57	..	6·0	..	11·4	0	3	26	3	6	10	2	1	1	4	2	1	0
	2330	52	998·2	992·5	..	29·3	26·6	25·4	32·4	82	..	4·3	..	6·7	0	0	18	0	1	15	0	1	1	0	0	12	0
Bhagalpur	0530	49	998·9	993·4	..	27·1	25·8	25·3	32·2	90	..	6·8	..	4·6	0	1	14	0	2	10	1	1	1	0	0	15	0
	0830	,,	1000·1	994·6	—0·2	29·9	26·6	25·3	32·2	77	+1	6·7	+1·2	8·1	0	0	26	0	2	15	7	0	0	2	0	4	0
	1130	,,	999·5	994·1	..	32·4	27·2	25·1	31·9	66	..	6·5	..	8·0	0	0	28	0	5	15	5	0	1	2	0	2	0
	1730	,,	996·7	991·2	..	31·9	27·0	24·9	31·5	68	..	6·7	..	8·5	0	2	25	0	5	13	6	1	1	1	0	3	0
	2330	,,	999·1	993·6	..	28·7	26·3	25·3	32·2	82	..	5·3	..	7·2	0	1	23	0	1	9	12	1	1	0	0	6	0
Sabour	0830	37	999·7	995·5	—0·9	29·3	26·9	25·9	33·4	81	+4	6·5	+0·7	7·0	0	0	29	1	0	19	4	1	1	1	2	1	0
	1730	,,	996·4	992·2	..	31·6	27·2	25·4	32·4	71	..	6·2	..	7·0	0	0	28	0	1	17	4	1	1	3	1	2	0
Jamui	0830	82	999·7	990·5	..	31·6	27·8	26·3	34·2	74	..	4·8	..	3·6	0	0	28	0	2	15	5	0	0	2	4	2	0
	1730	,,	996·1	987·0	..	33·0	28·1	26·1	33·8	69	..	5·1	..	4·4	0	0	28	4	2	12	4	0	0	2	4	2	0
Dehri	0830	107	998·5	986·7	..	32·6	25·7	22·5	27·3	57	..	5·7	..	3·3	0	0	30	1	2	1	10	2	3	8	3	0	0
	1730	,,	994·6	983·1	..	35·3	26·1	21·9	26·3	47	..	5·8	..	3·0	0	0	30	1	11	3	4	0	2	7	2	0	0
Gaya	0230	116	997·5	984·5	..	28·8	25·8	24·5	30·7	78	..	4·8	..	4·9	0	0	19	0	1	3	7	1	5	2	0	11	0
	0530	,,	997·9	984·9	..	28·2	25·6	24·5	30·7	81	..	5·7	..	3·7	0	0	16	0	0	4	4	1	4	3	0	14	0
	0830	,,	999·1	986·2	—0·2	31·8	26·7	24·5	30·7	67	+14	5·6	+1·9	9·1	0	0	28	1	2	4	7	1	6	6	1	2	0
	1130	,,	998·5	985·8	..	35·6	27·4	23·9	29·7	53	..	5·4	..	10·9	0	5	24	5	3	3	3	1	2	6	5	1	1
	1730	,,	995·4	982·7	..	34·7	27·3	24·2	30·2	57	..	6·3	..	11·5	0	4	23	4	5	6	2	1	5	2	2	3	0
	2330	,,	998·2	985·3	.	30·0	26·3	24·7	31·1	75	..	5·4	..	5·6	0	0	20	1	0	4	7	2	5	0	1	10	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	998·7	984·9	—0·6	29·9	25·5	23·6	28·9	70	+3	4·3	+1·4	10·1	0	2	27	0	0	16	8	0	2	1	2	1	0
	1730	,,	995·3	982·0	..	36·2	26·3	22·2	26·1	48	..	3·7	..	7·9	0	0	30	1	1	13	0	0	2	9	4	0	0
Nautanwa	0830	99	1000·3	989·1	..	27·7	26·5	26·0	33·8	91	..	..	..	3·4	0	0	23	0	3	11	6	1	2	0	0	7	0
	1730	,,	998·2	987·2	..	31·1	29·6	28·9	40·1	87	..	..	..	3·4	0	0	27	0	6	13	4	2	1	0	1	3	0
Hardoi	0830	142	998·3	982·6	—0·1	31·6	25·4	22·2	27·4	60	—1	2·6	—0·5	7·5	0	0	27	2	1	8	6	1	0	8	1	3	0
	1730	,,	994·0	978·8	..	38·5	26·8	20·9	25·5	39	..	2·1	..	7·1	0	0	28	14	2	2	1	3	0	4	2	2	0
Gonda	0830	110	998·7	986·6	..	30·4	25·8	23·8	29·5	69	0	3·7	—0·7	3·8	0	0	24	0	1	19	0	0	0	1	3	6	0
	1730	,,	994·9	983·0	..	35·8	26·8	22·8	27·7	50	..	2·6	..	2·3	0	0	16	1	2	6	0	1	0	1	5	14	0
Lucknow	0830	111	997·4	985·2	—1·6	30·6	25·6	23·3	28·6	65	+4	4·0	+0·7	2·9	0	0	26	0	4	4	9	0	6	0	3	4	0
	1730	,,	994·9	982·3	..	36·6	26·3	21·5	25·6	45	..	4·0	..	3·7	0	0	26	0	4	3	3	1	2	1	10	4	2
Lucknow (Amausi)	0230	128	996·1	982·0	..	29·2	24·3	21·7	26·3	66	..	4·0	..	8·6	0	3	20	0	6	6	4	1	5	0	1	7	0
	0530	,,	996·9	982·7	..	28·2	23·7	21·2	25·6	69	..	4·8	..	8·1	0	1	23	2	5	9	1	1	4	1	1	6	0
	0830	,,	998·0	984·0	—1·0	31·5	24·8	21·3	25·9	57	+1	(b) 4·3	+1·0	14·0	0	7	20	1	1	9	6	2	2	4	2	3	0
	1130	,,	997·7	983·9	..	35·7	25·6	20·4	24·4	44	..	3·5	..	5·0	0	10	17	1	3	5	3	2	1	6	6	3	0

(R)—Register not received.

(b)—Mean of 29 days.

(c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. perhour	Wind speed (K.m.p.h.): 62 or more	Wind speed: 20 to 61	Wind speed: 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(*Contd.*)																											
Lucknow (Amausi)—contd.	1730	128	994·2	980·3	..	37·0	24·9	18·3	21·6	38	..	4·8	..	14·1	0	8	19	4	3	4	1	0	1	4	10	3	0
	2330	,,	996·7	982·7	..	30·8	24·9	21·6	26·6	61	..	3·7	..	5·5	0	0	18	0	2	6	3	1	4	1	1	12	0
Faizabad	0830	102	998·6	987·4	..	30·1	26·0	24·2	30·2	72	..	5·8	..	7·8	0	0	26	1	5	6	8	0	1	4	1	4	0
	1730	,,	994·8	983·7	..	35·0	26·8	23·0	28·1	52	..	5·4	..	4·0	0	0	20	1	4	3	3	1	0	6	2	10	0
Gorakhpur . . .	0830	77	998·3	989·7	—1·7	30·2	26·4	25·2	31·3	73	0	5·0	+1·6	6·5	0	0	28	3	2	13	2	1	1	1	1	2	4
	1730	,,	994·2	985·8	..	33·7	26·7	23·6	29·3	57	..	5·1	..	5·9	0	0	27	0	6	4	2	0	1	2	0	3	12
Gorakhpur P.B.O. . .	0230	78	996·9	988·2	..	28·7	25·6	24·3	30·4	78	..	3·7	..	6·5	0	1	25	1	15	6	1	0	1	1	1	4	0
	0530	,,	997·6	988·9	..	27·5	25·1	24·2	30·2	83	..	5·2	..	5·7	0	2	24	0	16	7	1	0	1	1	0	4	0
	1130	,,	998·6	989·6	..	32·8	27·0	25·0	30·9	65	..	5·2	..	7·3	0	2	25	1	9	8	4	2	1	1	1	3	0
	2330	,,	997·7	989·0	..	29·6	25·9	24·7	31·1	77	..	3·1	..	5·3	0	0	25	0	11	7	4	1	0	2	0	5	0
Kanpur	0830	126	998·6	984·8	—0·2	32·0	24·7	21·1	25·0	55	—3	3·3	+1·1	8·2	0	1	29	2	4	5	6	1	0	5	7	0	0
	1730	,,	995·1	981·7	..	38·4	25·8	19·2	22·8	37	..	3·7	..	8·2	0	0	30	4	5	3	0	0	0	5	13	0	0
Kanpur (Aerodrome) .	0530	126	997·2	982·8	..	29·5	23·4	19·9	23·8	58	..	4·4	..	10·5	0	2	23	1	4	6	2	0	2	6	4	5	0
	0830	,,	998·4	984·3	..	32·9	24·5	19·9	23·8	49	..	3·7	..	17·1	0	9	21	2	5	4	5	3	0	4	7	0	0
	1130	,,	997·9	984·2	..	37·8	24·9	17·6	20·9	32	..	3·2	..	18·2	0	8	22	3	4	2	1	4	1	5	10	0	0
	1730	,,	994·6	980·7	..	37·6	24·5	16·7	20·0	32	..	3·8	..	18·5	0	6	24	7	4	2	1	0	0	3	13	0	0
	2330	,,	997·1	982·9	..	32·6	23·6	18·8	21·7	48	..	3·1	..	8·9	0	1	22	1	2	2	5	4	3	5	1	7	0
Sultanpur	0830	97	998·6	988·1	..	30·7	25·4	22·9	27·9	65	..	3·4	..	2·6	0	0	24	0	2	9	7	1	1	4	0	6	0
	1730	,,	994·4	983·9	..	36·5	26·6	21·5	26·6	46	..	4·6	..	3·1	0	0	23	2	4	6	1	0	1	3	6	7	0
Azamgarh . . .	0830	78	998·0	989·4	..	30·5	26·4	24·7	31·1	73	..	4·9	..	5·7	0	0	30	0	0	26	0	0	0	4	0	0	0
	1730	,,	994·7	986·2	..	35·6	27·7	24·3	30·4	55	..	3·7	..	4·1	0	0	29	3	0	15	0	0	0	10	1	1	0
Fatehpur	0830	114	998·3	985·8	..	33·6	25·1	20·7	24·9	49	—13	3·8	+0·2	8·3	0	2	27	1	4	6	4	0	4	8	2	1	0
	1730	,,	994·2	982·0	..	39·3	25·6	18·2	21·6	32	..	3·8	..	10·0	0	1	29	1	4	1	2	0	3	7	12	0	0
Ballia	0830	64	998·8	991·7	..	31·2	27·1	25·9	31·5	74	..	4·4	..	1·3	0	0	10	0	3	6	1	0	0	0	0	20	0
	1730	,,	995·8	988·8	..	34·5	27·0	24·0	29·5	56	..	3·9	..	1·2	0	0	9	1	1	3	1	0	0	2	1	21	0
Banda	0830	121	997·3	983·7	..	34·1	25·6	21·3	25·8	50	..	2·4	..	2·2	0	0	30	0	2	0	6	0	11	0	11	0	0
	1730	,,	994·3	981·3	..	38·5	25·7	18·8	22·4	36	..	2·9	..	2·3	0	0	30	0	3	0	1	0	10	0	16	0	0
Allahabad (Bamhrauli) .	0230	98	996·3	985·5	..	31·1	24·4	20·9	25·0	57	..	3·5	..	4·5	0	0	21	0	4	4	1	2	5	2	3	9	0
	0530	,,	997·0	986·2	..	30·4	24·0	20·5	24·4	59	..	(b) 5·3	..	5·1	0	1	18	0	5	4	0	1	3	6	2	11	0
	0830	,,	998·4	987·7	—0·5	33·7	24·9	20·1	24·3	48	—8	4·6	+0·8	8·4	0	2	22	0	1	5	1	3	1	9	4	6	0
	1130	,,	997·8	987·3	..	38·2	25·5	18·9	22·2	35	..	(b) 4·9	..	11·6	0	9	17	3	2	2	2	0	0	7	9	4	1
	1730	,,	994·4	983·9	..	38·3	25·1	17·8	21·0	33	..	(b) 5·2	..	10·5	0	3	27	6	6	6	0	3	0	7	8	0	0
	2330	,,	997·3	986·5	..	32·5	24·5	20·2	24·3	50	..	3·9	..	4·3	0	0	22	0	1	10	1	1	4	4	1	8	0
Varanasi (Babatpur) . .	0530	85	998·2	988·6	..	29·2	25·2	23·4	28·8	72	.	4·6	..	7·9	0	1	26	1	4	8	5	1	5	2	1	3	0
	0830	,,	999·5	990·0	+0·1	32·1	26·2	23·2	29·1	62	+1	4·6	+0·9	15·0	0	5	25	2	2	5	8	1	6	4	2	0	0
	1130	,	998·7	989·4	..	35·4	26·2	21·8	26·4	48	..	4·5	..	15·1	0	9	21	3	3	4	5	0	1	4	9	0	1
	1730	,,	995·3	985·9	..	36·6	26·6	21·6	26·6	45	..	4·9	..	15·0	0	7	23	5	6	4	3	1	0	4	7	0	0
	2330	,,	998·3	988·8	..	31·2	25·2	22·2	27·1	61	..	2·6	..	10·9	0	3	24	2	1	8	7	1	4	3	1	3	0
Varanasi	0830	76	998·9	990·5	—0·3	31·9	26·0	23·2	28·6	62	+1	4·9	+0·9	2·5	0	0	30	2	5	1	7	0	1	11	3	0	0
	1730	,,	994·3	986·2	..	36·6	27·2	22·6	28·2	47	..	4·9	..	2·6	0	0	24	3	7	2	0	0	0	9	3	6	0
Uttar Pradesh (West)																											
Mukhim . . . (R)	0830																										
(R)	1730																										
Tehri . . . (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun . . .	0530	682	997·6	923·5	..	25·1	20·3	17·6	10·4	67	..	(b) 3·5	..	3·0	0	0	22	4	11	1	4	0	0	1	1	8	0
	0830	,,	998·0	924·9	—0·9	28·5	22·2	18·9	22·1	58	—2	(b) 3·2	—0·2	1·2	0	0	17	0	3	0	2	6	2	3	1	13	0
	1130	,,	997·3	925·0	..	32·7	23·1	18·0	21·1	45	..	3·9	..	4·3	0	0	28	1	1	0	4	10	5	7	0	2	0
	1730	,,	993·5	921·8	..	33·8	23·3	17·5	20·9	42	..	3·5	..	2·6	0	0	26	0	3	1	2	3	12	4	1	4	0
	2330	,,	996·8	923·4	..	27·8	21·6	18·2	21·3	59	..	(b) 3·3	..	3·4	0	0	23	6	11	2	3	0	0	1	0	7	0
Mussiari . . . (R)	0830																										
(R)	1730																										
Roorkee	0830	274	1000·6	970·4	+1·3	29·7	23·0	19·7	22·7	57	0	4·4	+1·5	1·3	0	0	20	0	0	0	12	0	0	0	8	10	0
	1730	,,	995·1	965·9	..	37·8	25·2	17·6	21·7	33	..	4·0	..	1·9	0	0	26	0	0	0	11	0	0	0	15	4	0
Najibabad . . .	0830	270	998·8	969·9	..	29·2	24·0	21·1	25·0	64	..	2·1	..	2·6	0	0	25	0	6	1	6	0	4	0	8	5	0

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

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean in millibars: At station level	Mean in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—(*contd.*)																											
Najibabad—contd.	1730	270	994·6	966·0	..	37·9	21·7	17·1	20·2	33	..	1·2	..	3·7	0	0	30	2	6	1	5	0	6	1	9	0	0
Meerut	0830	222	999·1	974·8	0	31·7	26·9	24·6	32·8	69	+13	1·2	—1·9	6·6	0	1	25	3	0	6	1	2	3	6	5	4	0
Bareilly	0830	173	998·0	979·0	—1·1	31·3	24·4	20·8	24·9	56	—8	1·8	—1·5	7·3	0	1	28	1	3	8	8	1	1	4	3	1	0
	1730	,,	993·4	974·8	..	36·7	25·8	20·2	24·3	42	..	2·7	..	3·5	0	0	22	2	1	8	0	0	0	5	6	8	0
Bareilly P.B.O	0230	172	996·1	977·0	..	29·7	24·1	21·6	25·8	64	..	(e) 5·2	..	5·1	0	0	21	2	4	9	3	0	0	3	0	9	0
	0530	,,	996·9	977·8	..	28·6	23·3	20·8	24·6	65	..	(d) 4·1	..	7·3	0	2	26	0	4	14	2	0	1	7	0	2	0
	1130	,,	997·7	979·0	..	34·9	25·6	21·7	25·9	49	..	(f) 2·7	..	8·7	0	1	29	1	0	9	5	4	0	7	4	0	0
	2330	,,	996·4	977·5	..	31·5	24·6	21·5	25·6	58	..	(f) 2·3	..	4·8	0	2	17	0	2	9	2	1	1	3	1	11	10
Aligarh	0830	187	998·2	977·7	..	32·5	23·6	18·4	21·8	46	—10	2·9	+0·6	4·3	0	0	29	3	0	7	2	1	0	8	8	1	0
	1730	,,	994·3	974·2	..	38·3	25·3	17·1	21·6	33	..	3·4	..	4·7	0	1	29	4	0	3	0	3	1	10	9	0	0
Mainpuri	0830	157	998·0	980·8	—0·6	33·6	24·3	19·2	22·7	45	—8	0·7	—2·3	2·6	0	0	25	0	0	1	8	0	2	2	12	5	0
	1730	,,	994·2	977·2	..	39·0	26·1	19·6	23·2	35	..	1·1	..	2·5	0	0	25	0	0	0	4	0	7	1	13	5	0
Agra	0830	169	998·4	980·0	—0·3	34·0	24·6	19·5	23·2	45	0	1·9	—0·7	3·1	0	2	8	0	1	1	0	1	6	1	0	20	0
	1730	,,	994·4	976·4	..	39·4	25·9	18·5	22·1	35	..	2·9	..	5·5	0	0	19	0	4	0	1	1	7	1	5	11	0
Agra (Aerodrome)	0530	169	997·1	978·3	..	29·9	22·8	18·9	21·8	53	..	3·4	..	9·4	0	1	28	1	2	1	3	2	0	16	4	1	1
	0830	,,	998·4	979·7	..	33·4	24·5	19·9	23·5	47	..	3·9	..	14·3	0	6	24	2	1	1	3	1	0	12	10	0	0
	1130	,,	998·0	979·7	..	38·2	25·9	19·4	23·1	35	..	2·1	..	13·7	0	3	27	2	0	0	2	0	0	10	16	0	0
	1730	,,	994·4	976·2	..	39·2	25·9	18·9	22·2	34	..	2·7	..	16·4	0	5	24	4	1	2	2	1	0	8	11	1	0
	2330	,,	996·6	977·9	..	32·6	23·9	18·8	22.2	47	..	2·1	..	8·4	0	0	27	2	0	3	2	1	0	12	7	3	0
Orai (R)	0830	141																									
(R)	1730	,,																									
Jhansi	0830	251	999.3	972.1	+0.1	33.8	20.9	12.0	14.2	28	—22	3.6	+0.9	1.9	0	0	17	5	0	3	0	0	0	6	3	13	0
	1730	,,	995.2	968.7	..	38.7	24.3	15.5	17.6	30	..	4.7	..	3.0	0	0	29	5	3	2	1	1	2	12	3	1	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	996.6	962.2	..	27.6	20.3	15.3	17.8	49	..	2.5	..	3.6	0	2	8	1	3	3	1	1	0	0	1	20	0
	0830	,,	997.3	963.5	—0.5	31.9	21.7	15.1	17.6	39	+4	1.6	—1.0	5.9	0	0	22	1	7	6	6	1	0	0	1	8	0
	1130	,,	996.8	963.4	..	36.1	22.8	14.3	16.8	29	..	1.1	..	6.2	0	0	23	1	0	2	7	8	3	0	2	7	0
	1730	,,	993.4	960.3	..	38.8	22.7	12.9	14.5	22	..	1.4	..	7.3	0	0	28	0	1	0	2	3	7	10	5	2	0
Amritsar (Rajasansi)	0530	234	996.4	970.3	..	25.1	21.1	18.7	21.7	68	..	1.8	..	7.4	0	2	13	2	0	2	5	3	0	2	1	15	0
	0830	,,	997.4	971.8	—0.2	31.3	23.0	18.5	21.3	47	0	1.2	—0.4	11.4	0	6	19	0	7	2	4	4	4	3	1	5	0
	1130	,,	997.0	971.8	..	36.4	24.4	17.6	20.8	34	.	1.0	..	16.9	1	9	19	4	3	3	4	3	5	2	5	1	0
	1730	,,	993.4	968.5	..	38.8	24.6	16.6	19.3	28	..	0.9	..	10.5	0	11	18	2	3	1	3	4	5	4	7	1	0
Adampur (Aerodrome)	*0530	238																									
	0830	,,	996.2	970.4	..	30.8	22.8	18.2	21.1	49	..	3.0	..	11.6	0	6	20	4	2	3	5	3	5	2	2	4	0
	*1130	,,																									
	1730	,,	992.6	967.4	..	38.1	24.6	16.8	19.9	31	..	(b) 2.0	..	17.8	0	13	16	2	0	2	4	2	3	6	10	1	0
	*2330	,,																									
Ludhiana	0830	247	997.4	970.3	—1.0	29.9	22.3	17.6	20.8	51	+2	2.2	+0.3	1.2	0	0	11	1	2	0	3	0	3	1	1	19	0
	1730	,,	993.7	967.3	..	39.1	25.2	17.2	20.6	31	..	2.5	..	3.8	0	0	29	1	3	0	3	0	3	12	7	1	0
Ferozepur	0830	200	996.7	971.8	..	31.0	23.8	20.0	23.5	54	..	1.1	..	3.0	0	0	23	1	9	0	3	0	6	1	3	7	0
	1730	,,	992.7	971.4	..	38.9	25.8	18.8	22.4	33	..	1.4	..	3.9	0	0	24	1	3	1	2	1	6	0	10	6	0
Halwara (Aerodrome)	0830	242	998.3	972.0	..	32.0	22.7	17.1	20.0	45	..	1.9	..	15.9	0	7	23	1	3	2	6	2	6	4	6	0	0
	1730	,,	995.5	969.7	..	38.3	24.0	15.2	18.1	29	..	2.6	..	20.6	0	11	19	1	0	1	5	1	5	6	11	0	0
Chandigarh	0830	347	997.5	959.8	+0.3	31.7	23.4	18.6	22.1	50	+4	1.9	+0.5	8.2	0	5	19	0	1	0	8	0	2	0	13	6	0
	1730	,,	993.3	956.4	..	36.9	23.5	14.6	18.1	31	..	1.9	..	8.6	0	1	29	0	2	0	6	0	5	0	17	0	0
Ambala	0830	272	997.8	968.2	—0.5	31.7	22.9	17.3	20.6	46	—1	0.9	—1.3	2.8	0	0	18	0	5	0	10	0	0	2	1	12	0
	1730	,,	993.8	965.1	..	37.6	24.3	15.8	19.0	31	..	0.6	..	3.0	0	0	20	1	7	0	7	0	0	1	4	10	0
Ambala (P.B.O.)	0230	278	995.4	965.0	..	29.8	21.4	16.8	19.6	49	..	2.8	..	7.8	0	2	23	2	0	1	6	3	4	2	7	5	0
	0530	,,	996.0	965.5	..	28.5	21.0	16.9	18.8	53	..	3.4	..	6.9	0	1	27	4	2	6	4	0	3	5	4	2	0
	1130	,,	997.2	967.2	..	35.6	24.0	18.9	21.8	41	..	3.3	..	9.2	0	0	28	2	2	2	8	0	2	4	8	2	0
	2330	,,	995.4	965.2	..	31.9	22.0	17.1	19.5	43	..	(b) 2.2	..	8.4	0	2	27	2	2	2	5	0	3	4	11	1	0
Ambala (Aerodrome)	0530	274	996.2	965.9	..	27.8	21.5	16.9	20.5	57	..	3.4	..	..	0	0	24	0	4	3	4	0	2	1	9	6	1
	0830	,,	997.6	967.6	..	31.2	22.7	17.3	20.6	47	..	2.8	..	..	0	0	25	3	1	4	5	1	2	5	4	5	0
	1130	,,	997.1	976.5	..	35.5	23.7	16.2	19.7	36	..	2.1	..	..	0	0	29	1	0	5	4	1	1	5	10	1	2
	1730	,,	993.4	964.1	..	37.9	23.5	13.5	17.0	28	..	2.2	..	..	0	0	30	3	1	5	1	0	2	7	11	0	0
	2330	,,	995.5	965.5	..	30.5	21.9	15.7	19.0	44	..	(b) 1.8	..	..	0	0	21	0	1	7	0	0	2	4	6	9	1

(R) Register not received (b) Mean of 29 days (f) Mean of 25 days (d) Mean of 27 days *Data not available (e) Mean of 26 days.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*Contd.*																											
Patiala	0830	251	998.1	970.9	..	32.3	23.2	18.4	21.0	46	..	(d) 3.1	..	8.2	0	1	27	0	1	0	8	0	0	0	19	2	0
	1730	,,	993.6	966.9	..	38.0	24.0	15.5	18.4	29	..	(g) 2.5	..	12.8	0	3	24	0	0	0	5	0	0	0	22	3	0
Bhatinda	0830	211	997.7	974.5	..	33.5	25.7	22.0	26.6	52	..	(d) 1.4	..	9.2	0	5	22	1	1	1	5	1	11	0	7	3	0
	1730	,,	993.5	970.9	..	39.0	27.4	22.0	26.9	41	..	(d) 1.2	..	4.2	0	1	25	1	2	1	1	2	5	2	12	4	0
Karnal	0830	249	998.3	971.2	..	32.3	23.0	17.4	20.5	42	..	0.1	..														
	1730	,,	993.7	967.1	..	32.7	23.9	16.0	18.4	31	..	0	..														
Hissar	0530	221	996.8	972.4	..	30.1	22.0	17.9	19.9	52	..	1.2	..	9.3	0	3	27	2	0	3	2	4	13	5	1	0	0
	0830	,,	998.2	974.0	+0.1	31.9	23.8	19.4	22.8	49	+1	1.0	—0.5	12.7	0	7	23	3	1	1	4	0	13	8	0	0	0
	1130	,,	997.6	973.8	..	37.3	25.2	18.7	22.1	35	..	0.7	..	13.2	0	6	24	0	2	2	0	2	8	10	6	0	0
	1730	,,	994.4	970.6	..	38.9	24.5	16.3	18.4	29	..	2.0	..	9.9	0	2	27	4	0	1	0	1	9	12	2	1	0
	2330	,	996.0	972.1	..	32.2	22.8	17.4	20.1	43	..	1.4	..	9.0	0	1	27	2	1	0	3	4	11	4	3	2	0
New Delhi (Safdarjung)	0230	216	995.9	972.1	..	30.9	22.6	17.6	20.6	47	..	(c) 2.4	..	10.5	0	4	17	0	1	2	2	0	7	7	2	9	0
	0530	,,	996.7	972.9	..	29.8	22.2	17.6	20.5	50	..	(b) 2.1	..	11.2	0	19	5	1	2	3	1	2	3	10	2	6	0
	0830	,,	998.2	974.5	—0.7	32.2	23.5	18.4	21.1	46	0	2.1	—0.4	17.7	0	10	15	0	1	3	2	1	4	12	2	5	0
	1130	,,	997.8	974.4	..	36.7	24.7	18.1	21.1	36	..	1.6	..	18.3	0	13	14	0	1	2	2	0	0	8	14	3	0
	1730	,,	993.8	970.6	..	38.2	24.0	15.6	17.7	29	..	(b) 3.5	..	14.7	0	8	21	0	1	1	2	1	6	7	11	1	0
	2330	,,	996.4	972.7	..	32.5	23.1	17.7	20.5	43	..	2.9	..	11.0	0	5	19	1	1	3	2	0	9	6	2	6	0
Palam (Aerodrome)	0230	233	995.9	970.4	..	30.4	22.3	17.4	20.2	49	..	1.9	..	17.0	0	9	20	0	1	7	0	5	12	4	0	1	0
	0530	,,	996.7	971.0	..	29.2	22.2	17.9	21.0	53	..	1.9	..	13.8	0	7	21	1	3	3	2	2	8	6	3	2	0
	0830	,,	998.1	972.6	..	32.5	23.4	18.0	21.3	44	..	1.7	..	22.5	0	14	15	0	2	3	1	3	6	14	0	1	0
	1130	,,	997.6	972.6	..	37.7	24.5	16.9	20.0	31	..	1.3	..	24.0	0	18	12	1	0	2	2	1	2	15	7	0	0
	1430	,,	995.4	970.7	..	39.6	24.5	15.8	18.4	25	..	2.7	..	23.5	0	13	17	2	0	2	2	2	1	15	6	0	0
	1730	,,	993.7	968.7	..	38.9	23.7	15.1	16.9	28	..	3.0	..	21.6	0	14	16	2	0	0	3	5	2	13	5	0	0
	2030	,,	994.9	969.7	..	34.7	23.2	16.3	19.0	35	..	2.5	..	14.0	0	5	25	3	5	4	1	3	6	5	3	0	0
	2330	,,	996.3	970.9	..	32.2	22.6	16.7	19.6	42	..	2.2	..	14.9	0	7	22	1	3	6	1	4	9	4	1	1	0
Himachal Pradesh																											
Mandi	0830	761	998.2	916.5	—1.0	26.4	20.0	16.5	18.2	56	—1	(c) 2.3	+0.1	0.3	0	0	4	0	0	1	0	1	2	0	0	26	0
	1730	,,	993.2	913.5	..	33.8	22.4	15.8	17.8	38	..	(c) 2.8	..	0.5	0	0	5	0	1	0	1	0	1	0	2	25	0
Bilaspur	0830	493	999.2	935.5	..	28.3	22.4	19.2	22.8	60	..	1.1	..	0.9	0	0	8	0	2	0	0	0	2	0	4	22	0
	1730	,,	994.8	932.5	..	36.0	23.0	16.0	18.5	34	..	0.2	..	5.6	0	0	21	0	4	1	0	0	6	1	9	9	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3075.7	664.3	..	7.7	2.1	—5.8	3.8	38	..	2.0	..	7.5	0	0	28	8	17	1	1	1	0	0	0	2	0
	0830	,,	3075.5	664.9	—0.6	14.0	6.0	—3.4	4.8	31	—11	2.6	—0.5	3.9	0	0	17	0	0	1	2	7	5	2	0	13	0
	1730	,,	3027.4	662.0	..	20.0	9.4	—0.6	5.8	27	..	3.0	..	10.1	0	0	30	4	5	0	1	2	7	8	3	0	0
Srinagar	0830	1587	1445.9	836.4	+0.2	19.7	15.3	12.7	14.2	64	—11	2.5	+0.3	1.8	0	0	11	2	0	0	6	1	0	1	1	19	0
	1130	,,	1441.0	836.2	..	24.1	16.9	12.6	14.0	49	..	2.5	..	5.1	0	2	15	3	0	1	3	1	1	3	5	13	0
	1730	,,	1416.5	834.0	..	26.6	17.0	11.0	12.3	40	..	3.2	..	4.5	0	1	19	3	0	0	3	3	1	7	3	10	0
Srinagar (Aerodrome)	0530	1666	1430.7	827.5	..	14.8	11.7	9.4	11.8	71	..	2.2	..	5.1	0	0	28	0	1	1	1	6	5	9	5	2	0
	0830	,,	1439.3	828.6	..	19.7	14.7	11.3	13.2	60	..	2.6	..	4.0	0	1	15	3	2	4	2	1	0	0	4	14	0
	1130	,,	1435.5	828.2	..	23.7	15.8	10.7	13.2	45	..	3.0	..	7.2	0	1	24	7	2	5	0	3	2	1	5	5	0
	1730	,,	1411.7	826.5	..	25.9	15.4	7.8	10.9	35	..	4.0	..	12.6	0	5	24	4	1	1	1	7	0	3	12	1	0
	2330	,,	1428.7	827.6	..	18.6	13.9	10.6	12.9	61	..	1.5	..	4.2	0	0	17	1	0	1	2	2	1	9	1	13	0
Gulmarg	0830	2655	3086.3	737.0	—0.3	14.6	10.1	6.1	9.4	60	—8	2.8	+0.1	2.3	0	0	19	0	6	6	1	1	3	1	1	11	0
	1730	,,	3085.8	736.5	..	17.4	11.4	6.4	9.5	52	..	4.5	..	9.0	0	2	25	1	6	5	1	2	4	5	3	3	0
Banihal	0830	..	..	..	..	20.5	15.1	11.6	13.2	58	..	2.0	..	2.4	0	0	7	0	0	0	0	0	0	5	2	23	0
	1730	..	..	..	..	26.1	16.8	10.3	12.8	39	..	3.0	..	4.8	0	0	19	1	0	3	0	0	1	7	7	11	0
Jammu	0830	..	..	..	..	31.9	23.4	18.4	21.7	49	+5	..	..	3.9	0	0	30	8	8	4	5	2	0	0	3	0	0
Jammu (Aerodrome)	0530	292	996.2	963.9	..	27.9	18.4	10.9	13.5	36	..	2.6	..	4.9	0	1	11	2	6	1	0	1	0	0	2	18	0
	0830	,,	997.1	964.9	..	32.0	20.7	12.7	15.3	34	..	2.0	..	5.5	0	1	19	1	13	2	1	1	0	0	2	10	0

(a) Mean of 26 days. (R) Register not received (g) Mean of 24 days (b) Mean of 29 days (d) Mean of 27 days (c) Mean of 28 days

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—*contd.*																											
Jammu (Aerodrome)—contd.	1130	292	996.6	965.1	..	35.9	21.7	11.4	14.3	26	..	1.4	..	9.0	0	3	22	1	2	0	5	8	5	3	1	5	0
	1730	,,	993.4	962.3	..	38.2	22.0	10.2	13.2	21	..	1.8	..	10.6	0	3	27	1	2	0	4	2	8	11	2	0	0
	2330	,,	995.5	963.5	..	31.1	20.0	12.0	14.3	33	..	1.5	..	6.8	0	2	14	1	9	0	0	1	0	2	3	14	0
Rajasthan (West)																											
Ganganagar	0530	177	995.8	976.3	..	29.8	21.9	16.9	19.6	47	..	1.2	..	5.9	0	0	25	0	0	1	4	0	18	1	1	5	0
	0830	,,	997.1	977.1	−0.9	32.4	23.4	18.4	21.4	45	+2	0.7	−0.3	9.8	0	4	22	1	0	2	1	0	20	2	0	4	0
	1130	,,	996.8	977.8	..	38.0	24.7	17.3	20.2	31	..	1.1	..	9.3	0	3	27	1	4	0	1	0	17	5	2	0	0
	1730	,,	993.3	974.5	..	40.5	24.3	14.8	17.0	23	..	1.4	..	4.2	0	0	26	2	1	0	1	2	13	6	1	4	0
	2330	,,	995.4	976.1	..	33.1	22.7	16.8	19.1	38	..	0.9	..	4.1	0	0	21	2	2	0	2	3	9	2	1	9	0
Anupgarh (R)	0830																										
(R)	1730																										
Mahajan	0830	187	996.7	976.2	..	33.1	25.2	21.6	25.6		..	0.3	..	10.3	0	3	26	0	2	0	0	3	22	1	1	1	0
	1730	,,	992.0	972.1	..	40.9	24.7	15.5	17.8	24	..	1.1	..	(b) 8.6	0	0	28	1	2	0	0	6	15	4	0	1	0
Churu	0830	291	999.0	967.3	..	32.0	23.8	19.3	22.8	48	..	1.8	..	25.7	0	22	7	2	0	0	0	1	3	20	3	1	0
	1730	,,	994.4	963.5	..	40.3	24.2	14.6	16.9	23	..	1.7	..	18.3	0	10	20	5	0	0	0	2	4	17	2	0	0
Bikaner	0830	224	998.7	974.2	+0.2	31.8	23.5	19.6	22.2	49	−2	0.3	−1.0	14.5	0	8	22	0	0	0	2	0	11	14	3	0	0
	1730	,	994.3	970.5	..	40.4	23.5	12.8	15.1	23	..	0.7	..	12.2	0	2	28	2	1	0	1	0	17	4	5	0	0
Bikaner P.B.O.	0530	224	997.0	972.3	..	30.0	22.8	18.8	21.8	49	..	1.3	..	9.8	0	3	21	0	0	0	0	1	22	1	0	6	0
	1130	,,	998.0	973.8	..	36.7	24.3	17.3	20.2	34	..	0.4	..	11.5	0	4	25	0	0	1	0	5	17	5	1	1	0
	2330	,,	996.6	972.2	..	34.5	22.6	15.1	17.7	33	..	0.9	..	8.1	0	3	21	0	2	0	0	5	14	2	0	6	1
Nagaur	0830	298	999.6	966.9	..	30.3	24.1	21.1	25.6	57	..	0.8	..	22.8	0	20	10	0	0	0	1	10	17	2	0	0	0
	1730	,,	995.0	963.2	..	38.0	26.0	21.4	23.8	38	..	1.7	..	18.3	0	13	17	0	1	1	0	10	15	3	0	0	0
Phalodi	0830	234	999.9	974.0	..	30.0	25.5	23.9	28.9	69	..	1.3	..	34.6	0	27	3	0	0	0	0	7	20	3	0	0	0
	1730	,,	995.9	971.0	..	39.6	24.7	17.4	21.0	30	..	1.7	..	29.4	0	21	9	0	1	1	0	5	19	3	1	0	0
Jaisalmer	0830	242	998.1	972.0	..	29.0	24.7	22.2	27.6	63	..	1.1	..	30.9	0	21	9	0	0	0	1	15	14	0	0	0	0
	1730	,,	994.4	968.7	..	40.1	25.3	17.3	20.2	28	..	1.2	..	25.1	0	19	10	1	1	0	0	13	13	1	0	1	0
Jodhpur	0230	224	998.4	973.7	..	30.9	23.4	19.2	22.4	51	..	0.4	..	19.5	0	15	15	0	0	0	0	1	25	4	0	0	0
	0530	,,	999.1	974.3	..	28.8	23.3	20.5	24.1	62	..	1.4	..	17.4	0	10	19	0	0	0	1	0	24	4	0	1	0
	0830	,,	1000.7	975.9	+1.8	29.7	24.1	21.3	25.3	61	+1	2.8	0	23.0	0	19	11	0	0	0	0	1	25	4	0	0	0
	1130	,,	1000.2	975.8	.	34.1	24.3	19.3	22.4	42	..	2.5	..	23.1	0	22	8	0	0	0	0	1	22	7	0	0	0
	1730	,,	996.0	972.2	..	38.3	23.6	14.8	17.0	29	..	1.8	..	21.2	0	19	11	1	1	0	0	1	23	4	0	0	0
	2330	,,	998.6	974.1	..	33.7	23.2	17.4	19.7	41	..	0.9	..	15.6	0	10	19	0	0	0	1	4	21	3	0	1	0
Barmer (R)	0530	194																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Munabao	0830	80	1000.3	991.7	..	30.0	26.3	24.7	31.1	74	..	(c) 3.8	..	(c) 26.0	0	22	6	0	0	0	0	4	24	0	0	0	0
	1730	,,	996.0	987.4	..	39.2	26.0	19.2	22.8	33	..	(d) 1.6	..	(d) 25.8	0	20	7	0	0	0	0	2	24	0	0	0	1
Rajasthan (East)																											
Pilani	0830	301	998.6	965.9	..	32.8	22.0	14.5	17.6	35	..	0.7	..	30.0	0	19	11	0	1	2	1	1	7	18	0	0	0
	1730	,,	994.2	962.4	..	39.8	22.6	10.5	13.4	19	..	1.4	..	21.8	0	11	19	2	2	0	2	1	7	14	2	0	0
Sikar	0830	433	999.9	953.2	..	31.5	25.1	22.0	26.9	59	..	1.3	..	4.7	0	0	28	0	0	0	0	0	12	12	4	2	0
	1730	,,	994.8	949.2	..	38.2	26.5	20.8	25.3	38	..	1.6	..	5.3	0	0	30	1	1	0	0	2	5	21	0	0	0
Alwar	0830	271	997.2	967.8	..	33.5	26.9	24.0	30.0	59	..	(b) 1.9	..	2.9	0	0	17	0	0	0	0	0	5	12	0	13	0
	1730	,,	994.5	965.6	..	37.8	27.9	23.6	29.5	48	..	(e) 5.0	..	4.3	0	0	23	3	2	3	0	2	6	4	2	7	1
Jaipur (Sanganer)	0230	390	996.9	954.6	..	31.2	21.4	15.4	17.5	44	..	0.9	..	9.4	0	2	25	1	0	1	1	0	2	20	2	3	0
	0530	,,	997.9	955.3	..	29.4	22.0	17.8	20.4	49	..	2.8	..	10.9	0	5	21	2	0	3	0	0	1	14	6	4	0
	0830	,,	999.2	956.9	−0.5	31.5	23.1	18.5	21.4	47	−2	1.9	−0.3	18.1	0	13	16	0	0	2	0	0	2	17	8	1	0
	1130	,,	998.3	956.6	..	35.9	23.2	15.4	18.1	31	..	1.4	..	17.6	0	9	20	0	0	0	0	0	4	17	8	1	0
	1730	,,	994.3	953.1	..	38.1	22.7	12.5	15.0	23	..	2.7	..	13.8	0	6	24	0	0	0	2	1	3	19	5	0	0
	2330	,,	997.5	955.3	..	32.7	21.9	14.9	17.4	36	..	1.6	..	7.4	0	0	24	1	0	1	1	0	2	16	3	6	0
Dholpur	0830	176	998.0	978.9	..	34.9	24.8	19.5	23.1	42	..	2.7	..	16.5	0	12	18	2	0	1	2	0	1	17	7	0	0
	1730	,,	994.0	975.2	..	39.3	25.4	17.8	21.0	31	..	4.3	..	14.5	0	7	23	2	5	0	2	0	3	11	7	0	0
Ajmer	0830	486	1000.1	947.3	−0.3	29.2	22.5	19.2	21.8	56	0	2.0	−0.2	23.3	0	22	8	0	0	0	0	0	15	15	0	0	0
	1730	,,	995.3	944.0	..	36.5	22.1	13.3	14.9	27	..	1.9	..	12.1	0	2	28	2	1	0	0	0	11	15	1	0	0
Tonk	0830	272	998.8	969.1	..	32.6	27.1	24.5	31.3	64	..	1.7	..	14.8	0	8	22	1	1	0	1	0	4	20	3	0	0

(R) Register not received (b) Mean of 29 days (c) Mean of 28 days. (d) Mean of 27 days (e) Mean of 26 days

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Rajasthan (EAST) (*contd.*)																										
Tonk—(contd.)	1730	272	993.9	965.0	..	39.1	29.5	25.2	33.0	49	..	2.5	..	14.4	0	2	28	1	0	0	1	0	5	17	6	0
Bhilwara	0830	..	..	.	..	30.3	23.0	19.0	22.2	52	..	2.9	..	13.1	0	3	27	0	0	0	0	0	16	13	1	0
	1730	..	..	..	..	37.2	22.7	13.2	15.8	25	..	4.1	..	10.0	0	1	29	2	1	0	0	2	11	9	5	0
Kota (Aerodrome)	0530	274	999.4	969.4	..	30.9	23.7	19.8	23.4	53	..	3.0	..	16.9	0	15	13	0	0	0	0	0	7	21	0	2
	0830	,,	1000.6	970.7	..	32.6	25.0	21.3	25.5	53	..	2.2	..	26.7	0	26	4	0	0	0	0	1	9	19	1	0
	1130	,,	1000.0	970.5	..	36.5	24.9	18.7	22.0	36	..	3.0	..	21.3	0	20	9	0	0	1	0	1	9	13	5	1
	1730	,,	995.8	966.7	..	38.8	24.4	15.8	18.8	28	..	3.7	..	20.1	0	17	13	1	0	0	1	2	10	12	4	0
	2330	,,	991.1	969.4	..	34.0	23.7	17.9	20.9	40	..	1.8	..	15.2	0	12	16	2	0	0	1	0	8	17	0	2
Kota	0830	257	1000.2	972.2	+0.4	33.7	24.6	19.8	23.4	45	—2	3.3	+0.7	9.1	0	0	29	0	0	0	0	0	4	17	8	1
	1730	,,	995.8	968.4	..	38.3	23.8	15·1	17.6	27	..	4.6	..	5.2	0	0	26	0	1	0	0	1	8	12	4	4
Erinpura (Jawai Dam)	0830	295	1002.2	969.6	..	28.9	23.8	21.3	25.3	64	..	2.5	..	8.9	0	0	29	0	0	0	2	7	12	8	0	1
	1730	,,	997.2	965.7	..	36.2	24.2	18.2	20.4	39	..	2.2	..	11.2	0	3	25	0	0	1	2	3	11	10	1	2
Chambal (Rawat Bhatta Dam)	0830	351	1001.0	962.8	..	31.0	23.8	19.8	23.1	52	..	2.3	..	1.7	0	10	20	0	0	0	0	0	13	10	7	0
	1730	,,	995.9	958.6	..	37.8	23.3	14.2	16.7	26	..	4.3	..	1.7	0	9	21	4	1	1	0	0	10	7	7	0
Udaipur	0230	582	1000.4	937.2	..	27.1	21.9	19.5	22.1	63	..	0.5	..	4·8	0	0	16	0	1	0	0	2	12	1	0	14
	0530	,,	1001.1	937.4	..	25.9	21.9	19.8	22.8	68	..	2.8	..	5.3	0	0	19	0	0	0	0	3	11	4	1	11
	0830	,,	1002.0	938.9	+0.5	28.4	22.5	19.3	22.5	59	—4	2.5	+0.1	7.3	0	0	22	0	0	0	0	7	8	5	2	8
	1130	,,	1000.9	938.6	..	32.1	23.0	18.5	20.6	45	..	2.4	..	8.0	0	0	28	0	0	0	0	9	15	4	0	2
	1730	,,	997.5	935.8	..	33.7	23.2	17.9	19.9	40	..	3.1	..	6.3	0	0	27	0	0	0	0	4	17	3	3	3
	2330	,,	1000.6	937.7	..	29.3	22.3	18.8	21.3	54	..	0.3	..	6.2	0	0	21	0	1	0	0	3	14	3	0	9
Jhalwar	0830	321	1000.8	965.6	+0.4	30.3	23.7	20.1	23.8	55	—8	3.1	0	5.8	0	0	30	0	0	0	0	0	14	16	0	0
	1730	,,	995.9	961.7	..	38.4	23.1	13.2	15.7	24	..	2.8	..	8.1	0	0	30	0	0	0	1	0	12	12	5	0
Madhya Pradesh (West—Gwalior)	0230	207	996.3	973.7	..	32.4	22.4	16.4	18.9	40	..	3.1	..	9.0	0	2	23	1	0	1	2	1	9	11	0	5
	0530	,,	997.2	974.5	..	31.6	22.3	16.4	19.4	43	..	3.2	..	9.3	0	3	25	3	1	3	0	0	4	15	2	2
	0830	,,	998.5	976.0	0	34.4	23.7	17.6	20.1	39	—4	3.1	+0 6	16.8	0	11	19	1	0	1	1	1	1	17	8	0
	1130	,,	998.1	975.9	..	38.1	24.6	17.0	19.9	31	..	2.6	..	15.5	0	8	21	3	2	0	0	1	0	14	9	1
	1730	,,	994.7	972.5	..	38.3	34.0	14.9	16.9	31	..	4.1	..	10.1	0	4	25	4	1	2	3	1	3	7	8	1
	2330	,,	997.2	974.6	..	33.4	22.8	16.3	19.1	39	..	3.6	..	9.9	0	0	24	0	0	0	2	2	8	11	1	6
Sheopur	0830	235	999.9	974.3	+0.7	33.5	24.7	20.1	23.8	47	—5	2.1	—1.7	19.8	0	15	15	2	0	0	0	3	6	11	7	0
	1730	,,	995.5	970.1	..	39.4	24.3	15.4	18.1	27	..	3.8	..	17.7	0	13	17	1	0	0	1	2	8	11	6	0
Shivpuri	0830	464	999.4	949.3	..	31.9	22.6	17.4	20.5	44	..	2.9	..	18.8	0	12	18	0	2	0	0	3	10	11	4	0
	1730	,,	995.1	945.9	..	36.8	22.3	13.3	16.3	28	..	4.8	..	12.5	0	3	26	1	3	0	0	4	11	5	5	1
Nowgong	0830	229	999.1	974.2	—0.2	33.0	23.5	18.2	21.1	43	—11	3.6	—0.4	10.2	0	1	28	1	0	0	1	0	13	12	2	1
	1730	,,	994.7	970.3	..	38.5	24.1	15.2	18.1	29	..	4.6	..	12.0	0	5	24	2	3	0	1	1	8	7	7	1
Guna	0530	478	999.2	947.1	..	28.2	21.5	18.0	20.8	55	..	3.1	..	17.7	0	14	15	0	0	0	0	1	7	19	2	1
	0830	,,	1000.5	948.7	+0.3	30.9	23.2	19.4	22.5	51	—5	3.8	+1.2	18.0	0	13	17	0	0	0	0	0	3	25	2	0
	1130	,,	999.1	948.2	..	35.6	23.7	17.9	20.5	36	..	4.4	..	21.4	0	18	12	1	0	0	0	0	2	19	8	0
	1730	,,	995.3	944.7	..	36.6	22.6	14.6	16.8	30	..	5.6	..	19.1	0	12	18	3	0	1	1	0	4	14	7	0
	2330	,,	999.0	947.3	..	30.8	21.7	16.8	19.3	45	..	3.3	..	11.1	0	3	23	0	0	0	2	3	11	9	1	4
Nimach	0830	496	1002.1	948.0	+0.7	28.0	22.6	20.0	23.4	62	—5	3.4	+0.1	24.5	0	24	6	0	0	0	0	0	13	16	0	0
	1730	,,	997.3	944.7	..	35.5	22.0	14.3	16.5	29	..	3.3	..	21.9	0	20	10	0	1	0	1	0	13	13	2	0
Rajgarh	0830	382	1001.1	959.2	..	30.3	24.2	21.1	25.3	58	..	4.2	..	21.3	0	17	13	1	0	0	0	0	0	29	0	0
	1730	,,	995.9	955.3	..	37.0	24.0	16.4	19.1	31	.	4.6	..	17.2	0	10	20	1	0	1	0	0	0	28	0	0
Sagar	0830	551	1000.2	940.6	+0.4	29.2	22.7	19.5	22.8	57	—1	3.4	—0.4	17.6	0	14	16	0	0	0	0	0	2	15	13	0
	1730	,,	995.2	936.9	..	34.2	22.7	16.4	19.1	38	..	4.5	..	8.6	0	2	27	0	2	3	0	0	3	12	9	1
Ratlam	0830	486	1003.0	949.7	+1.1	27.6	23.8	22.2	26.7	73	—7	5.8	+0.3	20.7	0	21	9	0	0	0	0	0	7	22	1	0
	1730	,,	998.1	946.3	..	35.0	24.4	19.5	22.7	41	..	4.4	..	17.0	0	9	21	0	0	0	0	1	12	15	2	0
Bhopal (Bairagarh)	0230	523	999.4	942.6	..	28.6	21.3	17.4	20.0	51	..	3.3	..	23.7	0	18	11	1	0	1	0	0	5	16	6	1
	0530	,,	1000.5	943.4	..	27.1	21.4	18.4	21.3	59	..	5.1	..	25.7	0	23	7	2	0	0	0	0	0	20	8	0
	0830	,,	1001.8	945.1	+0.8	29.4	22.9	19.8	23.1	57	—6	4.4	+0.3	33.3	0	30	0	2	1	0	0	0	0	19	8	0
	1130	,,	1000.4	944.6	..	33.7	23.5	18.5	21.4	42	..	5.2	..	24.4	0	21	9	3	1	0	0	1	3	12	10	0
	1730	,,	996.4	941.0	..	35.4	22.2	14.8	17.0	32	..	6.1	..	23.2	0	20	10	5	1	1	2	1	2	12	6	0
	2330	,,	1000.0	943.5	..	30.1	21.2	16.3	18.6	45	..	4.4	..	17.3	0	9	20	1	0	1	1	1	5	16	4	1
Ujjain	0830	..	..	..	..	28.4	23.8	21.8	26.1	68	..	5.5	..	31.5	0	28	2	0	0	0	0	0	2	14	14	0
Narsinghpur	0830	356	1000.8	961.7	..	29.2	23.0	19.6	23.1	57	..	4.0	..	3.5	0	0	30	5	0	1	0	7	0	17	0	0

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Mlibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Mlibars: At station level	Mean pressure in Mlibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount Oktas: Mean amount	Cloud amount Oktas: Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd.*)																											
Narsinghpur—(*Contd.*)	1730	356	996.3	958.3	..	36.2	23.7	16.2	19.0	33	..	4.6	..	3.6	0	0	30	7	0	3	0	5	2	13	0	0	0
Hoshangabad	0830	302	1002.0	968.8	+0.4	30.0	23.9	20.9	24.7	58	—5	3.5	—0.9	8.7	0	0	30	0	0	0	0	1	17	11	1	0	0
	1730	,,	996.6	964.2	..	36.4	24.6	18.2	21.3	36	..	4.8	..	8.6	0	1	29	2	1	0	1	0	11	11	3	0	1
Indore	0530	567	1001.5	939.4	..	25.5	21.8	20.1	23.5	72	..	3.5	..	25.1	0	19	11	0	0	0	0	0	18	12	0	0	0
	0830	,,	1002.5	940.8	+0.5	27.5	22.6	20.3	23.8	65	—10	4.8	+0.2	35.9	0	28	2	1	0	0	0	0	9	19	1	0	0
	1130	,,	1001.3	940.5	..	32.1	22.8	18.2	20.8	44	..	3.5	..	30·7	0	26	4	0	0	0	0	1	8	20	1	0	0
	1730	,,	997.2	937.1	..	34.4	22.0	15.2	17.3	33	..	3.5	..	27.1	0	26	4	1	0	0	0	0	15	11	3	0	0
	2330	,,	1001.1	939.7	..	28.7	21.2	17.2	19.5	50	..	1.7	..	21.5	0	14	15	0	0	1	0	0	23	5	0	1	0
Rajpur (Jhabua)	0830	293	1004.4	971.9	..	27.9	24.2	22.4	27.1	72	..	6.8	..	22.7	0	22	8	0	0	0	0	1	9	20	0	0	0
	1730	,,	999.4	967.8	..	35.0	23.9	17.8	20.4	37	..	3.9	..	26.0	0	29	1	0	0	0	0	1	11	18	0	0	0
Chhindwara	0830	685	1001.1	927.4	+0.4	28.5	22.5	19.6	22.8	60	—5	5.2	+0.8	13.9	0	9	17	1	0	0	0	0	0	9	16	4	0
	1730	,,	996.9	924.2	..	31.6	22.9	18.5	21.3	49	..	6.2	..	10.1	0	3	26	2	4	1	2	2	3	6	9	1	0
Seoni	0830	619	1000.6	933.8	+0.1	28.4	23.6	21.5	25.6	67	+7	5.4	+1.1	4.3	0	0	29	1	1	0	0	2	8	9	8	1	0
	1730	,,	996.7	930.9	..	32.0	23.8	19.8	23.4	52	..	6.4	..	3.3	0	0	26	3	2	0	1	1	4	2	13	4	0
Betul	0830	653	1003.0	932.0	+1.0	26.6	22.1	19.8	23.2	67	—3	5.4	0	15.4	0	8	22	1	0	0	0	0	4	15	10	0	0
	1730	,,	997.3	928.0	..	32.9	22.4	16.7	19.4	41	..	6.8	..	10.2	0	0	30	1	1	0	1	0	6	8	13	0	0
Khandawa	0830	318	1003·5	968.5	+1.3	29.1	24.1	21.7	25.9	64	—1	5.5	+1.3	4.9	0	0	30	0	0	0	0	0	6	17	7	0	0
	1730	,,	998·0	963.8	..	35.7	24.5	18.6	21.6	38	..	6.2	..	4.9	0	0	30	0	0	0	0	1	12	12	5	0	0
Madhya Pradesh (East)																											
Satna	0530	317	997.5	962.7	..	29.2	22.5	18.7	21.7	55	..	3.4	..	4.6	0	0	23	1	0	0	0	1	4	15	2	7	0
	0830	,,	998.5	964.2	—0.3	32.9	24.0	19.3	22.7	47	—5	4.3	+0.3	3.7	0	0	28	0	0	0	0	0	1	26	1	2	0
	1130	,,	997.9	964.6	..	37.2	25.3	19.2	22.5	37	..	4.2	..	8.3	0	1	28	2	1	0	0	0	3	20	3	1	0
	1730	,,	994.6	960.8	..	37.1	24.6	17.6	20.8	35	..	4.9	..	6.2	0	1	28	7	0	1	1	2	1	15	2	1	0
	2330	,,	997.6	963.1	..	31.3	23.6	19.2	22.8	52	..	2.5	..	4.3	0	0	19	3	0	2	1	3	3	6	1	11	0
Sidhi	0830	272	997.8	968.2	..	32.4	23.8	18.9	22.4	48	..	1.1	..	0.5	0	0	5	0	0	0	0	1	4	0	0	25	0
	1730	,,	994.1	965.0	..	36.5	23.8	15.9	18.5	35	..	2.7	..	0.6	0	0	4	0	1	0	0	0	3	0	0	26	0
Umaria	0830	459	999.5	949.8	..	31.1	23.4	20.0	23.2	53	—5	4.8	—0.3	8.9	0	0	30	0	0	0	2	0	11	14	0	0	3
	1730	,,	994.9	946.3	..	36.1	23.8	17.5	20.5	36	..	6.2	..	9.9	0	4	26	1	1	1	1	1	8	6	10	0	1
Jabalpur	0530	393	998.9	956.0	..	28.2	22.4	19.1	22.4	60	..	5.1	..	5.3	0	0	27	0	0	0	1	11	10	5	0	3	0
	0830	,,	1000.4	957.7	+0.4	30.7	23.5	19.6	23.1	53	—2	5.3	+1.4	9.3	0	2	27	0	0	0	0	5	11	13	0	1	0
	1130	,,	999.3	957.2	..	35.1	24.3	18.6	21.6	39	..	5.4	..	8.6	0	0	30	2	1	0	1	1	9	13	3	0	0
	1730	,,	995.6	953.8	..	35.4	23.5	16.3	19.2	37	..	6.5	..	8.4	0	0	28	3	4	0	0	1	9	8	3	2	0
	2330	,,	999.1	956.3	..	31.7	22.8	18.5	20.5	52	..	4.8	..	5.1	0	0	22	0	0	0	2	7	8	4	1	8	0
Ambikapur	0830	611	1000.0	934.0	+0.3	28.0	22.7	20.1	23.2	64	+3	5.3	+1.7	5.5	0	0	27	0	1	0	0	2	13	10	1	3	0
	1730	,,	995.8	930.7	..	30.8	22.8	18.7	21.1	53	..	5.4	..	6.3	0	0	30	8	4	1	2	4	3	5	3	0	0
Pendra	0530	625	999.1	931.3	..	25.7	21.5	19.2	22.5	70	..	6.7	..	7.6	0	2	23	0	0	0	1	8	9	4	3	5	0
	0830	,,	999.7	932.5	—0.1	28.9	22.6	19.5	22.7	59	—3	6.3	+2.0	8.0	0	3	25	0	1	0	1	4	9	5	8	2	0
	1130	,,	998.5	932.2	..	33.1	23.1	17.8	23.1	43	..	6.8	..	9.8	0	4	25	7	1	1	0	2	1	8	9	1	0
	1730	,,	996.1	929.6	..	31.2	22.6	18.0	20.6	50	..	7.6	..	9.5	0	3	26	4	1	2	0	5	4	5	7	1	1
	2330	,,	999.6	932.1	..	27.4	22.0	19.1	22.5	64	..	6.6	..	9.8	0	6	23	1	0	0	1	8	11	5	3	1	0
Mandla	0830	443	1000.2	952.2	+0.2	30.3	24.0	20.7	24.7	58	—6	4.0	—0.5	4.8	0	2	16	7	0	0	1	3	1	4	2	12	0
	1730	,,	996.3	948.9	..	33.1	24.5	19.8	23.7	50	..	5.5	..	5.5	0	1	24	9	1	0	1	5	2	2	5	5	0
Champa	0830	245	1000.7	973.7	+0.5	29.2	24.4	22.1	26.7	68	+6	6.8	+1.4	4.9	0	0	27	2	0	1	0	2	3	17	2	3	0
	1730	,,	997.1	970.5	..	33.3	24.8	20.6	24.3	50	..	7.6	..	9.6	0	5	23	2	2	0	1	2	7	8	6	2	0
Raigarh	0830	220	1000.5	976.1	+0.3	29.4	25.1	23.2	28.3	71	+10	6.5	+1.0	2.3	0	0	24	0	4	0	2	1	8	4	5	6	0
	1730	,,	996.3	972.4	..	33.0	26.1	22.9	28.3	59	..	6.9	..	2.0	0	0	18	0	1	1	0	3	7	4	2	12	0
Raipur	0530	298	1000.3	967.3	..	26.4	23.6	22.0	26.7	77	..	7.0	..	4.6	0	0	21	0	0	0	0	4	12	5	0	9	0
	0830	,,	1001.4	968.5	+0.6	29.1	24.3	21.9	26.3	67	+ 6	6.0	+1.0	7.1	0	0	29	0	0	0	2	4	11	10	2	1	0
	1130	,,	1000.6	968.2	..	33.0	25.0	21.1	25.2	54	..	6.0	..	7.3	0	0	29	1	0	0	0	1	10	11	6	1	0
	1730	,,	997.3	965.0	..	32.9	24.9	20.9	24.7	52	..	7.0	..	9.2	0	1	28	1	0	2	3	4	12	4	3	1	0
	2330	,,	1000.7	967.7	..	27.7	24.1	22.3	27.1	75	..	6.0	..	8.5	0	0	27	2	1	2	1	10	9	2	0	3	0
Kanker	0830	402	1001.8	957.8	+0.4	28.3	23.6	21.1	25.0	66	+3	6.1	+0.1	3.3	0	0	21	0	0	0	0	3	12	4	2	9	0
	1730	,,	997.9	954.6	..	31.7	24.6	21.0	24.9	55	..	5.8	..	2.9	0	0	22	0	0	0	0	0	18	3	1	8	0
Jagdalpur	0530	553	1001.1	940.6	..	23.9	21.7	20.7	24.4	82	..	6.4	..	2.1	0	0	11	0	0	0	0	5	3	0	3	19	0
	0830	,,	1002.5	942.2	+0.3	26.5	22.7	21.0	24.9	74	+3	6.3	+1.3	5.5	0	0	22	0	0	0	2	7	8	2	3	8	0
	1130	,,	1001.4	941.8	..	29.5	23.6	20.9	24.7	62	..	6.5	..	9.1	0	0	28	0	0	0	0	1	14	6	7	2	0

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madhya Pradesh (East)—(*Contd.*)																										
Jagdalpur—*Contd.*	1730	553	999.2	939.5	..	28.7	23.2	20.5	24.3	64	..	7.2	..	7.9	0	3	26	0	0	2	1	3	10	9	4	1
	2330	,,	1002.1	941.5	..	25.1	22.5	21.3	25.3	81	..	6.5	..	4.0	0	0	13	0	1	0	0	5	7	0	0	17
Gujarat Region																										
Deesa	0830	136	1002.8	987.6	+0.8	28.9	25.4	23.9	29.7	74	..	3.8	..	13.6	0	5	25	0	0	0	1	8	18	3	0	0
	1730	,,	997.9	983.2	..	36.9	25.8	20.0	24.1	38	..	2.6	..	12.9	0	5	25	0	0	0	0	5	14	10	1	0
Radhanpur	0830	30	1002.6	999.3	..	30.1	27.1	25.9	33.8	79	..	4.1	..	20.1	0	13	17	0	0	0	0	1	21	8	0	0
	1730	,,	998.7	995.5	..	37.0	27.7	23.4	29.5	48	..	1.6	..	22.8	0	15	14	0	0	0	0	2	18	8	1	1
Idar	0830	219	1003.0	978.9	..	28.5	24.3	22.3	26.9	69	..	6.2	..	7.7	0	0	30	0	0	0	0	2	13	15	0	0
	1730	,,	998.1	974.5	..	36.9	23.7	16.1	18.4	31	..	3.7	..	7.8	0	1	29	1	0	0	0	0	12	17	0	0
Ahmadabad	0230	55	1002.1	995.8	..	28.9	24.8	22.9	27.9	70	..	2.2	..	17.0	0	10	20	0	0	0	0	1	12	16	1	0
	0530	,,	1002.5	996.2	..	27.5	24.6	23.0	28.6	75	..	2.3	..	13.3	0	2	28	0	0	0	0	3	15	12	0	0
	0830	,,	1003.8	997.6	+0.9	29.5	25.4	23.6	28.9	71	−8	3.6	−1.2	16.5	0	10	20	0	0	0	1	1	17	11	0	0
	1130	,,	1003.4	997.2	..	33.4	25.4	21.6	25.8	50	..	4.1	..	20.2	0	16	14	0	0	0	0	0	13	16	1	0
	1730	,,	998.9	992.9	..	37.2	25.2	19.4	22.2	36	..	3.6	..	22.9	0	22	8	0	0	0	0	6	12	11	1	0
	2330	,,	1002.5	996.3	..	29.8	24.8	22.5	27.3	66	..	3.0	..	16.9	0	10	19	0	0	0	0	4	11	14	0	1
Dohad	0830	333	1003.4	966.6	+0.6	27.8	23.6	21.5	25.6	69	−6	4.6	−0.8	33.5	0	28	2	0	0	0	0	1	14	15	0	0
	1730	,,	998.8	963.1	..	35.4	23.0	15.7	17.9	32	..	1.7	..	33.9	0	30	0	0	0	0	0	0	20	10	0	0
Baroda Aerodrome	0830	38	1004.3	1000.1	..	29.8	25.7	23.8	29.7	70	..	4.7	..	15.7	0	5	25	0	0	0	0	4	19	7	0	0
	*1130	,,	1004.6	1004.0	..	32.8	25.3	21.7	26.1	53	..	5.4	..	17.5	0	5	10	0	0	0	0	1	7	6	1	0
	1730	,,	1000.0	995.8	..	35.3	25.9	21.5	25.6	46	..	3.9	..	22.4	0	20	10	0	0	0	0	9	19	2	0	0
Baroda	0530	34	1003.1	999.2	..	28.0	25.1	23.8	29.5	79	..	2.0	..	3.0	0	0	19	0	0	0	0	0	15	4	0	11
	0830	,,	1004.6	1000.7	+1.6	30.0	25.7	23.9	29.7	70	−5	3.7	−0.7	4.8	0	0	30	0	0	0	1	0	19	10	0	0
	1130	,,	1004.1	1000.2	..	33.8	25.7	22.0	26.3	51	..	2.9	..	6.5	0	0	30	0	0	0	1	0	18	10	1	0
	1730	,,	1000.3	996.8	..	36.1	25.8	21.1	24.7	43	..	1.8	..	8.1	0	0	28	0	1	0	0	3	19	5	0	2
	2330	,,	1003.4	999.4	..	29.4	25.6	24.0	29.7	73	..	2.0	..	7.5	0	0	26	0	0	0	0	0	22	4	0	4
Broach	0830	17	1004.5	1002.5	+1.6	29.0	25.5	23.9	29.7	74	−5	4.6	−0.1	8.7	0	0	30	0	0	0	0	6	16	5	3	0
	1730	,,	1000.9	999.0	..	33.7	25.5	21.6	26.0	50	.	1.8	..	10.4	0	0	30	0	0	0	1	1	24	1	3	0
Surat	0530	12	1003.7	1002.4	..	27.9	26.1	25.3	32.2	86	..	5.8	..	10.2	0	0	29	0	0	0	2	1	25	1	0	1
	0830	,,	1005.2	1003.9	+1.7	29.8	26.8	25.5	32.8	78	+4	5.4	−0.3	8.4	0	0	30	0	0	0	2	1	24	3	0	0
	1130	,,	1005.3	1004.0	..	32.3	27.4	25.4	32.4	68	..	6.5	..	15.5	0	6	24	0	0	0	1	3	25	1	0	0
	1730	,,	1002.3	1001.0	..	31.8	27.3	25.4	32.6	69	..	3.6	..	14.9	0	4	26	0	0	0	0	2	28	0	0	0
	2330	,,	1004.6	1003.3	..	28.9	26.5	25.6	32.6	82	..	3.5	..	17.9	0	13	17	0	0	0	0	3	26	1	0	0
Saurashtra and Kutch																										
Bhutakia Bhimasar†	0830	47																								
	1730	,,																								
Naliya	0830	21	1002.5	999.8	..	29.5	26.3	24.9	31.5	77	..	4.9	..	23.1	0	22	8	0	0	0	0	0	23	7	0	0
	1730	,,	1000.0	997.6	..	31.3	26.6	24.5	30.9	67	..	4.7	..	27.7	0	26	4	0	0	0	0	3	22	5	0	0
Bhuj (Rudramata)	0230	80	1000.9	991.9	..	28.0	27.1	26.8	35.2	93	..	1.5	..	18.4	0	11	19	0	0	0	0	0	21	9	0	0
	0530	,,	1000.9	991.9	..	27.5	26.8	26.5	34.6	94	..	3.0	..	16.7	0	9	21	0	0	0	0	1	20	9	0	0
	0830	,,	1002.1	993.2	+0.9	30.0	28.0	27.2	36.0	85	+15	4.4	+0.3	22.5	0	17	13	0	0	0	0	0	17	13	0	0
	1130	,,	1001.9	993.7	..	34.5	29.2	27.2	36.1	67	..	4.6	..	24.7	0	24	6	0	0	0	0	0	15	14	1	0
	1730	,,	999.4	990.5	..	34.1	29.4	27.2	36.9	69	..	3.9	..	26.9	0	27	3	0	0	0	0	0	14	16	0	0
	2330	,,	1001.8	992.8	..	28.7	27.6	27.1	35.9	91	..	1.6	..	22.7	0	21	9	0	0	0	0	0	22	8	0	0
Kandla Aerodrome	0830	35	1002.8	998.9	..	30.2	26.3	24.6	30.9	72	..	3.8	..	33.9	0	4	26	0	0	0	0	4	23	3	0	0
	1130	,,	1002.5	998.5	..	34.1	26.8	23.7	29.3	55	..	3.7	..	39.8	1	27	2	0	0	0	0	4	25	1	0	0
	†† 1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
New Kandla	0830	14	1003.1	1001.5	..	29.9	26.3	24.8	31.3	74	..	3.8	..	30.0	0	24	6	0	0	0	0	1	14	15	0	0
	1730	,,	1000.5	998.9	..	33.0	26.7	23.9	29.8	59	..	1.7	..	44.1	0	30	0	0	0	0	0	0	15	15	0	0
Mandvi	0830	9	1003.2	1002.1	+1.1	29.9	27.3	26.5	34.2	80	−8	5.8	+1.5	37.0	1	26	3	0	0	0	0	0	27	3	0	0
	1730	,,	1001.0	999.9	..	31.1	27.7	26.4	34.4	76	..	4.7	..	41.7	0	30	0	0	0	0	0	0	26	4	0	0
Surendranagar	0830	74	1003.7	995.4	+1.3	29.9	25.9	24.1	30.2	72	−7	4.4 (b)	+0.5	19.5 (b)	0	15	15	0	0	0	0	3	12	13	2	0
	1730	,,	998.9	990.9	..	37.9	25.5	19.2	22.4	35	..	4.9	..	19.3	0	15	14	0	0	0	0	2	4	19	4	0
Jamnagar (Aerodrome)	0530	23	1002.0	999.5	..	27.6	25.3	24.2	30.4	82	..	1.9	..	21.8	0	20	10	0	0	0	0	0	15	15	0	0
	0830	,,	1003.3	1000.8	+1.5	30.1	25.8	24.0	29.7	70	+3	3.0	−0.8	31.1	0	29	1	0	0	0	0	1	16	13	0	0
	1130	,,	1003.1	1000.6	..	33.8	26.2	22.8	27.7	53	..	3.2	..	35.2	0	29	1	0	0	0	0	0	8	21	1	0
	1730	,,	1000.4	997.9	..	33.3	26.5	23.6	28.9	57	..	2.3	..	39.9	0	30	0	0	0	0	0	0	4	24	2	0
	2330	,,	1002.9	1000.4	..	29.1	25.4	23.9	29.3	73	..	1.3	..	31.6	0	29	1	0	0	0	0	0	13	16	1	0

*Observation for 15 days. †Data not reliable. ††Data not available. (b) Mean of 29 days.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean temperature in °C Dry bulb	Mean temperature in °C Wet bulb	Mean temperature in °C Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (K m.p.h.) 62 or more	Wind speed (K m.p.h.) 20 to 61	Wind speed (K m.p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch (*Contd*)																												
Dwarka	0830	11	1003.4	1002.1	+1.1	29.2	27.4	26.7	35.0	86	+4	3.4	−0.9	26.8	0	26	4	0	0	0	0	0	14	16	0	0	0
	1730	,,	1001.4	1000.2	..	30.7	27.9	26.9	35.2	82	..	3.3	..	29.9	0	29	1	0	0	0	0	0	13	17	0	0	0
Rajkot	0830	138	1003.6	988.2	+1.1	29.2	25.9	24.4	30.5	76	−4	2.4	−1.5	27.8	0	26	4	0	0	0	0	0	23	7	0	0	0
	1130	,,	1002.9	987.8	..	33.9	26.2	22.7	27.6	52	..	1.9	..	31.1	0	26	4	0	0	0	0	0	23	7	0	0	0
	1730	,,	999.8	984.8	..	35.2	26.1	21.8	26.3	47	..	2.7	..	31.5	0	26	4	1	0	0	0	0	20	9	0	0	0
Bhaunagar Aerodrome	0830	11	1004.6	1003.4	+1.5	30.5	25.9	23.8	29.7	68	+5	2.6	−2.4	30.0	0	25	5	0	0	0	0	4	20	5	1	0	0
	1130	,,	1004.1	1002.9	..	34.3	25.8	21.8	26.1	49	..	4.3	..	27.7	0	7	23	0	0	0	0	6	18	6	0	0	0
	1730	,,	1000.2	999.0	..	34.6	26.1	22.2	26.9	51	..	3.5	..	48.4	0	28	2	0	0	0	2	11	13	4	0	0	0
Porbander Aerodrome	0830	7	1004.1	1003.3	..	29.9	26.9	25.6	33.0	78	..	2.8	..	24.7	0	25	5	0	0	0	0	6	20	10	0	0	0
	1130	,,	1004.3	1003.5	..	31.3	27.4	25.8	33.4	73	..	3.0	..	29.0	0	29	1	0	0	0	0	6	24	6	0	0	0
	1730	,,	1002.0	1001.2	..	30.9	27.3	25.9	33.4	75	..	2.9	..	29.9	0	30	0	0	0	0	0	0	17	13	0	0	0
Porbander	0830	7	1004·2	1003·4	+1·7	29·5	27·0	26·0	33·6	81	−3	6·2	+1·3	16·3	0	8	22	0	0	0	0	0	20	10	0	0	0
	1730	,,	1002·4	1001·6	..	31·5	28·1	26·8	35·2	76	..	6·7	..	17·8	0	11	19	0	0	0	0	0	19	11	0	0	0
Keshod	0830	51	1004·6	998·8	..	29·4	25·7	24·1	30·0	74	..	3·3	..	30·0	0	25	5	0	0	0	0	1	15	14	0	0	0
	1130	,,	1004·6	998·9	..	32·3	25·6	22·5	27·3	57	..	3·9	..	36·0	0	30	0	0	0	0	0	0	15	15	0	0	0
	1730	,,	1002·3	996·6	..	32·0	25·7	22·8	27·9	59	..	2·8	..	38·6	0	30	0	0	0	0	0	0	17	13	0	0	0
Mohuva	0830	9	1004·2	1003·2	..	29·4	27·5	26·6	35·0	85	..	3·9	..	7·9	0	0	30	0	0	0	0	1	16	13	0	0	0
	1730	,,	1001·2	1000·2	..	31·2	26·2	24·1	29·8	67	..	2·4	..	14·3	0	2	28	0	0	0	0	5	25	0	0	0	0
Veraval	0230	8	1003·3	1002·4	..	28·6	26·6	25·7	33·4	85	..	3·5	..	30·7	0	29	1	0	0	0	0	0	10	20	0	0	0
	0530	,,	1003·2	1002·3	..	28·5	26·4	25·4	32·6	84	..	5·0	..	28·7	0	27	3	0	0	0	0	1	11	18	0	0	0
	0830	,,	1004·8	1003·9	+1·4	29·3	26·8	25·8	33·0	82	0	3·8	−0·9	29·2	0	28	2	0	0	0	0	0	7	22	1	0	0
	1130	,,	1005·2	1004·3	..	30·8	27·5	26·2	33·8	76	..	3·2	..	29·6	0	29	1	0	0	0	0	0	12	17	1	0	0
	1730	,,	1002·8	1001·9	..	30·2	27·5	26·4	34·6	80	..	5·0	..	30·8	0	29	1	0	0	0	0	0	13	17	0	0	0
	2330	,,	1004·4	1003·5	..	28·8	26·8	26·1	33·6	85	..	4·0	..	29·7	0	29	1	0	0	0	0	1	13	16	0	0	0
Konkan																												
Dahanu	0830	5	1005·5	1005·1	+1·7	29·0	26·3	25·2	32·1	80	−4	(c) 6·8	+0·7	(c) 18·9	0	14	14	0	0	0	5	2	15	5	1	0	0
	1730	,,	1003·5	1003·0	..	31·2	27·0	25·2	32·2	71	..	(c) 6·5	..	(c) 27·0	0	24	4	0	0	0	0	1	20	7	0	0	0
Bombay (Santa Cruz)	0230	14	1004·8	1003·1	..	27·7	25·0	23·9	29·3	80	..	4·0	..	13·1	0	6	21	0	0	1	1	2	8	14	1	3	0
	0530	,,	1004·7	1003·1	..	27·5	24·9	23·8	29·3	81	..	4·7	..	12·5	0	5	24	0	0	1	2	3	5	16	2	1	0
	0830	,,	1006·2	1004·6	+1·1	29·1	25·6	24·1	30·0	75	−2	5·1	−0·7	15·3	0	9	19	0	0	0	2	1	8	15	2	2	0
	1130	,,	1006·4	1004·8	..	30·9	26·2	24·2	30·0	68	..	5·1	..	20·7	0	18	11	0	0	0	0	0	10	18	1	1	0
	1730	,,	1004·3	1002·7	..	30·3	26·0	24·1	30·0	70	..	5·3	..	22·2	0	21	9	0	0	0	0	1	7	21	1	0	0
	2330	,,	1006·0	1004·4	..	28·2	25·4	24·1	30·2	79	..	3·6		14·1	0	5	25	0	0	1	2	2	13	12	0	0	0
Bombay	0830	11	1006·4	1005·3	+1·3	29·4	26·4	25·1	31·9	78	−1	5·8	0	6·7	0	0	30	0	0	0	4	0	7	18	1	0	0
	1130	,,	1006·6	1005·4	..	31·0	27·0	25·3	32·4	72	..	5·3	..	7·0	0	0	28	0	0	0	1	0	10	15	1	2	1
	1730	,,	1004·5	1003·3	..	30·7	26·9	25·3	32·2	73	..	5·0	..	7·1	0	0	29	0	0	0	1	1	11	13	3	1	0
Alibag	0830	7	1006·5	1005·7	+1·0	28·5	26·4	25·5	32·6	85	+5	4·6	−1·8	21·2	0	17	13	0	0	3	2	1	12	7	5	0	0
Bhira*	0830	96	1006·7	995·8	..	26·4	24·9	24·3	30·4	88	..	5·3	..	1·9	0	0	12	1	0	0	1	2	3	3	2	10	0
	1730	,,	1004·7	994·0	..	29·8	25·1	23·1	27·9	69	..	5·4	..	5·5	0	0	17	1	0	0	0	0	8	5	3	5	0
Harnai	0830	20	1006·7	1004·4	+1·6	28·1	26·0	25·0	31·9	83	−2	5·8	−0·4	12·9	0	6	24	1	1	2	4	4	7	9	2	0	0
	1730	,,	1004·9	1002·7	..	29·0	26·3	24·9	31·9	79	..	5·8	..	19·1	0	14	16	1	1	1	1	1	9	14	2	0	0
Ratnagiri	0830	35	1007·2	1003·2	+1·2	27·6	25·4	24·3	30·5	83	..	5·8	..	12·5	0	3	27	0	0	6	7	1	2	5	9	0	0
	1730	,,	1005·3	1001·4	..	29·5	25·9	24·4	30·4	75	..	5·5	..	13·4	0	4	26	1	2	2	1	0	4	14	6	0	0
Devgarh	0830	36	1007·3	1003·3	+1·4	27·7	25·7	24·8	31·3	85	−1	5·9	−0·5	16·2	0	9	20	0	0	6	3	0	3	5	12	1	0
	1730	,,	1005·5	1001·5	..	29·4	26·4	25·2	31·9	79	..	5·8	..	19·5	0	14	16	0	2	0	0	1	4	13	10	0	0
Vengurla	0230	9	1006·2	1005·2	..	25·5	24·5	24·1	29·8	92	..	5·1	..	2·6	0	1	7	2	0	0	0	0	0	3	3	22	0
	0530	,,	1006·2	1005·2	..	25·2	24·4	24·0	29·8	94	..	6·0	..	3·1	0	0	15	4	2	1	1	0	1	3	3	15	0
	0830	,,	1007·8	1006·8	+1·3	26·6	25·2	24·5	30·9	88	+2	5·9	−0·8	3·9	0	0	17	3	2	2	0	1	2	5	2	13	0
	1130	,,	1007·9	1006·9	..	29·0	26·0	24·8	31·1	79	..	5·5	..	7·0	0	0	26	0	0	2	0	5	5	12	2	4	0
	1730	,,	1005·9	1004·9	..	28·8	24·5	24·5	30·7	78	..	6·6	..	7·3	0	0	28	4	1	0	0	0	8	12	3	2	0
	2330	,,	1007·7	1006·7	..	26·2	24·9	24·3	30·4	90	..	6·0	..	3·7	0	0	14	4	0	0	0	0	2	5	3	16	0
Madhya Maharashtra																												
Nandurbar	0830	206	1004·3	981·4	..	28·9	25·3	23·6	29·3	74	..	4·7	..	21·2	0	22	8	0	0	0	0	0	10	20	0	0	0
	1730	,,	1000·3	977·8	..	33·7	25·7	21·9	26·4	51	..	2·0	..	22·1	0	23	7	0	0	0	0	0	13	17	0	0	0
Jalgaon	0830	201	1004·4	982·0	+1·5	28·8	23·9	21·6	25·6	65	−7	4·1	+0·2	29·5	0	25	5	0	0	0	0	0	1	21	8	0	0
	1730	,,	1000·2	978·4	..	36·6	23·8	16·6	19·0	31	..	4·2	..	34·9	0	29	1	3	0	1	0	0	0	23	3	0	0

(c) Mean of 28 days.

*Observations for 22 days since the Observatory started from 9-6-1962.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in milibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in milibars: At station level	Mean pressure in milibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madhya Maharashtra (*Contd.*)																										
Malegaon	0830	437	1004·4	956·4	+1·1	27·6	22·9	20·5	24·1	65	—3	3·2	—1·3	16·0	0	9	21	0	0	0	0	0	5	21	4	0
	1730	,,	999·5	952·6	..	33·6	23·4	17·7	20·4	39	..	4·5	..	21·1	0	15	15	1	0	0	0	0	6	21	2	0
Deolali (Aerodrome)	0830	571	1006·2	943·3	..	25·4	22·2	20·7	24·4	75	..	4.7	..	23·2	0	20	10	0	0	0	0	0	12	18	0	0
	1730	,,	1003·3	941·3	..	28·7	22·6	19·6	22·9	59	..	4·3	..	26·3	0	23	7	0	0	0	0	0	16	13	1	0
Ahmednagar	0830	657	1005·2	933·4	+1·7	24·9	21·1	19·2	22·2	71	0	4·6	+0·1	9·0	0	0	27	0	0	0	0	0	1	20	6	3
	1730	,,	999·9	929·8	..	31·9	21·8	16·3	18·8	41	..	5·6	..	10·2	0	1	29	1	0	0	0	0	4	7	18	0
Poona (Aerodrome)	0230	593									..	2·3	..	8·5	0	5	24	0	0	0	0	0	2	25	2	1
	0530	,,	1005·0	939·3	..	22·4	20·4	19·4	22·5	83	..	3·2	..	13·7	0	1	29	0	0	0	0	0	2	25	3	0
	0830	,,	1005·7	940·6	..	25·5	21·7	19·8	23·2	72	..	4·9	..	19·0	0	12	18	0	0	0	0	0	1	26	3	0
	1130	,,	1004·9	940·9	..	29·3	22·3	18·8	21·8	54	..	5·2	..	26·5	0	23	7	0	0	0	0	0	2	26	2	0
	1730	,,	1002·4	938·3	..	29·0	22·4	19·1	21·8	56	..	4·7	..	38·6	1	28	1	0	0	0	0	0	2	24	4	0
	2330	,,	..	..		..	..	..	..	..	..	2·8	..	19·6	0	13	17	0	0	0	0	0	2	27	1	0
Poona	0530	559	1004·9	943·0	..	23·6	21·0	19·7	22·9	79	..	3·3	..	0·7	0	0	6	0	0	0	0	0	2	3	1	24
	0830	,,	1005·6	944·3	+1·0	26·4	22·2	20·1	23·7	69	—4	4·7	—0·7	3·7	0	0	23	0	0	0	0	1	12	7	3	7
	1130	,,	1004·7	944·2	..	30·3	22·8	19·1	22·1	52	..	5·2	..	7·4	0	0	29	0	0	0	0	0	11	15	3	1
	1730	,,	1002·5	942·0	..	29·8	22·8	19·4	22·7	55	..	5·3	..	8·1	0	0	30	0	0	0	0	0	10	20	0	0
	2330	,,	1005·9	944·2	..	24·7	21·5	19·9	23·2	75	..	2·0	..	4·0	0	0	23	0	0	0	0	0	10	13	0	7
Jeur	0830	521	1005·3	948·0	..	25·7	21·9	19·9	23·7	70	—5	4·3	—0·2	16·8	0	9	21	0	0	0	0	0	0	27	3	0
	1730	,,	1000·0	944·1	..	32·5	22·1	16·5	19·0	41	..	5.8	..	24·4	0	19	11	1	0	0	0	1	3	15	10	0
Baramati	0830	551	1005·3	945·0	+1·1	26·5	22·6	21.1	25·0	72	—4	3·1	—1·6	14·1	0	6	24	1	0	0	0	0	5	18	6	0
	1730	,,	1001·1	941·9	..	31·1	23·8	20·4	24·0	55	..	4·6	..	26·7	0	25	5	0	0	0	0	1	5	18	6	0
Sholapur	0530	479	1005·1	951·9	..	23·7	21·0	20·0	22·9	78	..	4·8	..	7·1	0	0	30	0	0	0	0	0	13	14	3	0
	0830	,,	1006·1	953·3	+1·2	26·5	22·2	20·3	23·5	70	+2	4·1	—0·9	10·0	0	2	28	2	0	0	0	0	9	15	4	0
	1130	,,	1004·7	952·7	..	31·0	23·1	19·4	22·4	51	..	5·0	..	12·3	0	3	27	5	0	0	0	0	5	12	8	0
	1730	,,	1000·4	948·9	..	32·6	22·7	17·6	20·2	44	..	5·8	..	10·1	0	1	29	1	0	0	1	0	10	10	8	0
	2330	,,	1005·3	952·5	..	26·3	21·7	19·3	22·7	66	..	5·1	..	11·4	0	3	26	0	0	0	1	0	11	16	1	1
Miraj	0830	554	1006·7	945·7	+0·7	25·2	22·4	21·2	25·0	79	—1	5·8	—0·5	..	..	..	..	0	0	0	0	0	4	17	7	2
	1730	,,	1002·9	943·2	..	29·7	22·7	19·2	22·2	53	..	6·0	..	..	..	..	..	0	0	0	0	0	6	19	5	0
Kolhapur	0530	570	1005·8	942·6	..	22·2	21·1	20·6	24·1	91	..	4·6	..	5·8	0	0	26	0	0	0	0	0	2	24	0	4
	0830	,,	1006·8	944·0	+1·3	24·4	22·1	21·5	25·0	82	+1	6·0	+0·6	13·1	0	6	24	0	0	0	0	0	C	23	1	0
	1130	,,	1005·8	943·8	..	28·5	22·8	20·1	23·5	61	..	6·0	..	21·9	0	20	10	0	0	0	0	0	4	25	1	0
	1730	,,	1003·7	941·8	..	27·4	22·2	19·7	22·9	64	..	5·6	..	24·9	0	25	5	0	0	0	0	0	0	30	0	0
	2330	,,	1007·0	944·0	..	23·3	21·6	20·8	24·4	86	..	3·7	..	13·1	0	2	27	0	0	0	0	0	1	28	0	1
Marathwada																										
Aurangabad	0830	581	1005·4	941·8	+1·0	26·3	21·7	19·4	22·5	66	—6	4·8	—0·7	28·9	0	26	4	0	0	0	0	0	1	29	0	0
	1730	,,	999·5	937·6	..	33·1	21·9	15·8	17·9	37	..	5.5	..	29·9	0	26	4	0	0	0	0	0	1	24	5	0
Aurangabad (Chikalthan)	0230	579	1003·5	939·7	..	24·0	21·1	19·6	22·8	77	..	2·4	..	25·7	0	23	7	0	0	0	0	0	0	27	3	0
	0530	,,	1003·8	939·8	..	23·0	20·8	19·6	22·9	81	..	3·5	..	24·9	0	23	7	0	0	0	0	0	4	23	3	0
	0830	,,	1004·7	941·3	..	26·2	22·4	20·5	24·3	71	..	3·3	..	28·7	0	24	6	0	0	0	0	0	0	26	4	0
	1130	,,	1003·2	940·9	..	31·0	23·4	19·8	23·2	52	..	3·3	..	30·6	0	28	2	0	0	0	0	0	0	24	6	0
	1730	,,	999·1	937·3	..	32·9	23·1	18·1	21·0	44	..	5·0	..	28·1	0	25	5	0	0	0	0	0	1	20	9	0
	2330	,,	1004·3	940·8	..	25·9	21·8	19·8	23·1	69	..	3·3	..	28·6	0	25	5	0	0	0	0	0	4	23	3	0
Parbhani	0830	423	1004·9	958·3	+1·8	27·3	22·1	19·2	22·4	62	—9	4·2	—0·5	23·4	0	25	5	0	0	0	0	0	0	19	11	0
	1730	,,	998·8	953·5	..	34·9	22·6	14·8	17·4	33	..	6·0	..	16·8	0	11	18	1	2	0	0	0	1	16	9	1
Nander	0830	358	1004·7	965·1	..	28·4	22·7	19·7	22·9	60	..	3·8	..	14·1	0	5	23	1	0	0	0	0	9	7	11	2
	1730	,,	999·8	961·4	..	35·7	23·4	16·0	18·8	33	..	4·8	..	11·9	0	1	28	1	0	0	0	0	7	11	10	1
Bir	0830	519	1005·9	948·2	..	27·0	22·7	20·7	24·4	69	..	4·7	..	8·2	0	1	29	0	0	0	0	0	1	23	6	0
	1730	,,	999·1	940·9	..	33·9	23·2	18·0	20·5	41	..	(b) 5·8	..	(b) 13·4	0	5	24	0	0	0	0	1	3	7	18	0
Vidarbha																										
Gondia	0830	313	1001.9	967.6	+1.0	29.7	23.6	20.4	24.1	59	— 7	6.3	+1.7	7.7	0	0	30	1	0	0	1	6	12	6	4	0
	1730	,,	997.4	963.7	..	33.8	23.8	18.0	21.3	44	..	6.1	..	6.5	0	0	28	1	3	0	3	0	12	4	4	2
Nagpur (Sonegaon)	0230	310	999.7	965.5	..	28.0	22.5	19.5	22.7	62	..	5.1	..	7·8	0	1	23	0	0	0	1	2	6	8	7	6
	0530	,,	1000.6	966.3	..	27.2	22.4	19.8	23.2	66	..	5.9	..	8·5	0	2	20	0	0	0	0	0	4	11	7	8
	0830	,,	1001.8	967.7	+0.3	29.9	23.2	19.6	22.8	56	—3	5.7	+0.9	16.3	0	9	20	1	0	0	0	0	4	12	12	1
	1130	,,	1000.8	967.3	..	34.6	24.2	18.7	21.7	40	..	5.9	..	16.1	0	11	18	1	0	0	1	0	1	11	15	1
	1730	,,	997.5	964.0	..	33.9	23.3	17.0	19.4	42	..	6.9	..	17.3	0	14	15	2	1	1	2	2	2	11	8	1
	2330	,,	1000.6	966.5		29.2	22.5	18.7	21.8	57	..	5.5	..	7.3	0	3	21	0	0	0	0	0	8	7	9	6

(b) Mean of 29 days

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind Speed in Kms per hour	Wind speed (K.m.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*Contd.*)																											
Amraoti	0830	370	1002.7	962.1	+0.5	29.1	22.9	19.7	22.9	58	—7	5.1	+0.5	12.5	0	3	27	0	0	0	0	1	1	25	3	0	0
	1730	,,	997.3	957.8	..	35.7	23.2	15.8	18.3	33	..	4.8	..	10.1	0	3	27	2	0	1	0	2	7	11	7	0	0
Akola Aerodrome	0530	309	1001.6	967.2	..	25.8	21.2	18.5	21.4	64	..	4.1	..	8.9	0	1	24	0	0	1	0	1	2	20	1	5	0
	2330	,,	1000.9	966.9	..	30.5	22.8	18.6	21.6	51	..	3.7	..	11.9	0	2	26	0	0	1	0	0	1	21	5	2	0
Akola	0830	282	1003.6	972.5	+1.0	28.8	23.6	21.0	25.0	63	—1	3.2	—1.5	10.5	1	1	29	0	0	0	0	0	1	29	0	0	0
	1130	,,	1002.0	971.4	..	33.2	24.6	20.2	23.8	47	..	4.7	..	12.6	0	3	25	1	0	0	0	0	0	25	2	2	0
	1730	,,	997.8	967.6	..	36.3	23.8	16.9	19.2	34	..	5.0	..	8.7	0	3	27	0	1	1	1		4	21	2	0	0
Brahmapuri	0830	229	1002.5	977.1	..	29.1	23.8	21.0	25.0	64	..	4.8	..	9.8	0	0	30	1	1	0	1	6	6	13	2	0	0
	1730	,,	998.0	973.2	..	34.6	24·5	19.1	22.4	43	..	5·4	..	7.9	0	0	28	2	1	0	1	4	6	9	5	2	0
Buldana	0830	650	1004.2	933.1	+1.4	24.7	21.3	19.3	22.4	72	—2	3.4	—1.6	2.9	0	0	30	0	1	0	0	0	0	0	29	0	0
	1730	,,	998.5	929.4	..	32.2	22.1	16.4	18.6	42	..	5.9	..	2.8	0	0	29	0	4	0	0	0	0	0	25	1	0
Yeotmal	0830	451	1002.5	953.3	+1.1	28.9	22.5	19.0	22.0	56	—13	6.2	+1.0	40.5	3	24	3	1	0	0	0	0	1	19	9	0	0
	1730	,,	997.4	949.4	..	34.8	22.7	14.9	17.7	35	..	6.6	..	28.5	1	25	4	2	1	0	0	2	7	10	8	0	0
Chanda	0830	193	1002.8	981.5	+0.6	30.0	23.7	20.4	24.1	59	0	5.9	+1.2	16.0	0	12	18	0	0	1	0	2	4	17	6	0	0
	1730	,,	998.4	977.5	..	34.9	24.5	18.9	22.1	42	..	6.4	..	11.9	0	6	24	1	1	2	2	5	6	7	6	0	0
Pusad	0830	334	1004·2	967·5	..	29·5	23·8	20·8	24·6	60	..	2·3	..	10·8	0	2	28	0	0	0	0	0	9	6	15	0	0
	1730	,,	998.7	962.9	..	36.1	25.1	19.3	22.4	41	..	3.9	..	15.0	0	8	22	1	1	1	0	1	8	11	7	0	0
Sironcha	0830	123	1003.5	989.7	+0.9	29.9	24.6	22.1	26.6	65	—1	5.8	+0.5	6.5	0	0	30	4	1	2	1	2	7	7	6	0	0
	1730	,,	999.3	985.9	..	34.6	25.5	21.0	25.6	48	..	6.3	..	8.8	0	2	28	2	1	2	5	2	6	4	7	0	1
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1001.9	1001.2	+0.3	29.5	27.0	25.9	33.6	81	+6	5.7	+0.7	7.9	0	1	28	0	0	0	0		17	7	4	1	0
	1730	,,	999.2	998.6	..	30.2	27.6	26.6	34.8	82	..	5.3	..	11.9	0	3	27	0	0	0	0	5	22	2	1	0	0
Vishakhapatnam	0230	3	1000.6	1000.2	..	28.4	25.1	23.7	28.9	76	..	5.1	..	8.5	0	0	20	1	0	1	0	4	10	3	1	10	0
	0530	,,	1001.1	1000.7	..	28.1	25.1	23.7	29.3	77	..	6.3	..	6.6	0	0	19	0	0	0	0	0	15	3	1	11	0
	0830	,,	1002.3	1001.9	+0.1	31.0	25.9	23.5	29.5	66	—15	6.3	+0.1	12.3	0	2	23	0	0	0	0	1	15	7	2	5	0
	1130	,,	1001.7	1001.3	..	33.4	26.7	23.5	29.3	57	..	6.2	..	14.1	0	0	30	1	0	0	2	4	15	5	3	0	0
	1730	,,	999.9	999.5	..	31.4	25.8	23.2	28.6	64	..	7.0	..	14.8	0	7	21	2	0	0	1	3	14	5	3	2	0
	2330	,,	1002.0	1001.6	..	28.9	25.5	24.0	30.0	76	..	5.0	..	8.0	0	0	22	0	1	1	3	2	11	1	3	8	0
Kakinada	0830	8	1003.2	1002.3	+0.2	30.2	25.6	23.5	29.1	68	—4	4.1	—1.5	13.4	0	0	30	0	0	0	0	0	30	0	0	0	0
	1730	,,	999.9	999.0	..	33.4	25.9	22.3	27.3	55	..	5.4	..	13.6	0	0	30	0	1	0	2	0	25	0	2	0	0
Nidadavole	0830	12	1003.5	1002.1	..	28.9	25.4	23.8	29.7	75	..	6.9	..	6.8	0	0	30	0	0	1	0	2	17	7	3	0	0
	1730	,,	1000.0	998.6	..	33.3	26.1	22.9	27.9	56	..	7.4	..	6.4	0	0	30	0	2	1	2	1	14	8	2	0	0
Rentachintala	0830	106	1004.6	992.8	..	30.3	24.5	21.7	25.9	61	—2	6.4	—0.2	3.8	0	0	30	0	0	0	0	0	1	29	0	0	0
	1730	,,	1000.3	988.7	..	34.8	24.3	18.6	21.8	42	..	6.4	..	3.7	0	0	30	2	0	0	0	2	3	22	1	0	0
Gannavaram	0230	24	1001.9	999.2	..	27.7	25.2	24.0	30.0	81	..	6.1	..	10.8	0	2	27	1	1	0	1	4	11	10	1	1	0
	0530	,,	1002.5	999.8	..	27.3	24.6	23.3	28.6	81	..	6.6	..	12.1	0	7	21	0	0	0	0	3	12	11	2	2	0
	0830	,,	1004.0	1001.3	+1.0	29.4	24.9	22.8	28.1	70	+7	6.6	+0.7	17.4	0	12	16	0	1	0	0	0	6	17	4	2	0
	1130	,,	1003.5	1000.8	..	32.7	26.0	22.8	28.1	58	..	6.7	..	22.8	0	19	11	1	0	0	1	1	1	20	6	0	0
	1730	,,	1000.2	997.6	..	34.2	25.9	21.8	26.9	52	..	7.2	..	16.1	0	11	17	1	1	1	1	1	3	13	7	2	0
	2330	,,	1002.9	1000.2	..	28.8	25.4	23.8	29.7	76	..	6.2	..	9.4	0	2	25	0	0	1	3	7	11	4	1	3	0
Nagarjuna Konda	0830	126	..	..	..	30.5	24.0	20.7	24.4	57	..	5.5	..	27.5	0	25	5	0	0	0	0	0	2	19	9	0	0
	1730	,,	..	..	..	34.5	24.0	18.4	21.3	41	..	5.5	..	25.7	0	23	7	0	0	0	0	1	1	19	9	0	0
Masulipatam	0830	3	1004.1	1003.8	+0.5	29.7	25.0	22.8	27.7	68	—3	6.8	+2.0	5.9	0	0	30	0	0	1	0	3	12	11	3	0	0
	1730	,,	1000.5	1000.2	..	33.7	26.1	22.5	27.3	56	..	7.5	..	5.3	0	0	29	1	0	1	1	0	11	14	1	1	0
Ongole	0830	12	1004.6	1003.3	..	31.5	25.4	22.5	27.6	60	..	6.7	..	7.5	0	0	30	3	0	0	0	0	5	20	2	0	0
	1730	,,	1000.9	999.6	..	35.0	26.5	22.6	27.6	52	..	7.0	..	6.0	0	0	30	1	2	3	4	0	5	12	3	0	0
Nellore	0530	20	1003.4	1001.2	..	28.1	23.6	21.4	25.3	68	..	6.4	..	0.9	0	0	7	0	0	0	0	0	1	5	1	23	0
	0830	,,	1005.4	1003.2	+0.8	30.3	24.3	21.4	25.6	61	+5	6.5	+0.9	5.7	0	0	27	0	0	0	0	0	1	25	1	3	0
	1130	,,	1004.6	1002.4	..	33.5	24.8	20.5	24.1	48	..	6.0	..	4.9	0	0	29	0	0	0	0	0	0	28	1	1	0
	1730	,,	1001.6	999.4	..	34.7	25.1	20.2	23.8	44	..	6.8	..	3.5	0	0	22	0	0	1	0	0	2	19	0	8	0
	2330	,,	1003.8	1001.6	..	29.5	25.2	23.2	28.6	70	..	5.0	..	0.4	0	0	3	0	0	0	0	0	1	2	0	27	0
Telangana																											
Ramgundam	0830	156	1003.2	985.8	+0.8	29.7	23.7	20.4	24.4	60	0	4.5	—1.0	6.2	0	1	24	1	0	0	1	2	5	13	3	5	0
	1730	,,	999.1	982.1	..	35.8	24.6	18.6	21.7	40	..	5.2	..	4.3	0	1	16	1	1	0	0	1	4	9	1	13	0
Nizamabad	0830	381	1004.4	962.4	+0.7	28.2	23.7	21.5	25.6	68	+2	4.0	—0.6	2.3	0	0	25	0	0	0	0	2	12	9	2	5	0
	1730	,,	999.0	958.1	..	34.8	28.8	26.6	34.6	64	..	4.6	..	1.3	0	0	20	0	2	0	1	0	15	1	1	10	0

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Telangana—(*Contd.*)																										
Hanamkonda	0830	269	1003.5	973.9	+0.3	29.2	23.1	19.2	23.2	59	0	5.0	—0.1	3.5	0	0	30	5	0	0	0	0	1	10	14	0
	1730	,,	1000.0	971.1	..	34.1	24.0	18.7	21.6	43	..	5.3	..	3.4	0	0	30	5	0	1	0	1	0	12	11	0
Hakimpet (Aerodrome)	0530	613	1003.4	936.2	..	24.3	21.2	19.7	22.7	75	..	6.1	..	19.4	0	13	16	1	0	0	0	0	0	22	6	1
	0830	,,	1004.3	937.4	..	26.0	22.1	20.2	23.8	71	..	6.2	..	24.9	0	22	8	0	0	0	0	0	1	19	10	0
	1130	,,	1003.4	937.2	..	29.9	23.2	19.9	22.9	56	..	5.9	..	24.5	0	20	10	1	0	0	0	0	0	16	13	0
	1730	,,	1000.3	934.9	..	31.5	23.5	19.7	23.1	51	..	6.4	..	18.5	0	11	19	2	1	0	0	0	2	18	7	0
Bhadrachalam	0830	111	1003.4	991.1	+0.4	29.9	24.2	21.3	25.5	65	+1	6.8	+0.8	6.4	0	0	30	0	2	14	1	3	3	4	3	0
	1730	,,	999.6	987.4	..	34.2	25.1	20.6	24.4	50	..	6.8	..	5.1	0	0	30	2	6	5	2	0	2	1	12	0
Hyderabad (Begampet)	0230	545	1002.7	943.0	..	25.7	20.7	18.0	20.6	65	..	5.8	..	18.6	0	15	13	0	0	0	0	0	3	21	4	2
	0530	,,	1003.5	943.6	..	24.6	20.5	18.3	21.0	70	..	6.5	..	18.1	0	16	12	0	0	0	0	0	2	18	8	2
	0830	,,	1004.8	945.2	+1.1	26.4	21.3	18.6	21.6	64	—7	6.1	+0.7	23.1	0	24	6	0	0	0	0	0	0	14	16	0
	1130	,,	1003.5	944.8	..	30.7	22.2	17.7	20.5	47	..	6.1	..	24.3	0	24	6	1	0	0	0	0	0	11	18	0
	1730	,,	999.9	941.5	..	31.9	22.1	16.8	19.5	43	..	6.7	..	19.3	0	15	15	2	1	0	0	0	5	11	11	0
	2330	,,	1003.5	944.1	..	27.2	21.1	17.9	20.5	59	..	6.5	..	17.9	0	14	15	0	0	0	0	1	9	15	4	1
Khammam	0830	112	1003.9	991.5	..	29.3	26.0	24.5	30.7	76	..	6.6	..	11.8	0	0	27	1	0	1	0	1	0	24	0	3
	1730	,,	999.3	988.5	..	34.5	27.5	24.3	30.9	58	..	7.1	..	9.2	0	2	25	1	0	1	0	0	0	25	0	3
Mahbubnagar	0830	505	1005.6	950.0	..	25.9	22.0	20.1	23.5	71	..	6.2	..	11.7	0	0	30	0	0	0	0	0	7	12	11	0
	1730	,,	1000.7	946.3	..	31.6	22.6	17.6	20.8	48	..	6.9	..	5.5	0	0	30	0	0	0	0	0	5	21	4	0
Rayalaseema																										
Kurnool	0830	281	1006.6	975.3	+1.2	27.2	23.6	21.9	26.1	73	+7	6.5	+1.2	9.5	0	2	28	1	0	0	0	0	1	18	10	0
	1730	,,	1001.4	970.8	..	33.5	24.7	20.1	23.8	48	..	5.7	..	7.1	0	2	27	0	1	0	0	0	0	19	9	1
Nandyal (R)	0830																									
(R)	1730																									
Anantapur	0530	350	1005.3	966.4	..	24.9	21.7	19.9	23.4	74	..	6.3	.	14.0	0	8	20	0	0	0	0	0	0	27	1	2
	0830	,,	1006.7	967.9	+1.2	26.9	22.6	20.3	23·8	68	0	6.2	+0.9	19.1	0	14	16	0	0	0	0	0	1	23	6	0
	1130	,,	1005.5	967.3	..	30.8	23.2	19.0	22.2	51	..	6.5	..	21.1	0	19	11	1	1	0	0	0	0	16	12	0
	1730	,,	1001.7	963.8	..	32.5	23.0	17.3	20.2	44	..	7.0	..	16.4	0	8	22	0	1	0	0	0	0	21	8	0
	2330	,,	1005.5	966.8	..	27.5	22.3	19.4	22.7	63	..	5.9	..	22.7	0	21	9	1	0	0	0	1	0	26	2	0
Cuddppah	0830	130	1006.7	992.2	+1.0	29.2	23.8	21.1	25.0	63	+4	4.2	—0.9	5.1	0	0	29	0	0	0	0	0	0	29	0	1
	1730	,,	1001.9	987.7	..	33.9	24.9	20.4	24.1	48	..	5.3	..	5.7	0	0	26	0	0	1	0	0	0	19	6	4
Arogyavaram	0830	701	1006.5	930.1	..	25.2	20.4	17.8	20.5	64	..	5.6	..	5.9	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1001.9	927.1	..	30.2	21.5	16.8	19.3	46	..	6.0	..	6.1	..	..	..	..	..	..	..	..	..	..	..	..
Madras State																										
Madras	0830	6	1006.0	1005.3	..	29.3	25.0	22.9	28.3	69	..	6.2	..	9.1	0	1	28	0	0	0	0	2	8	17	2	1
Madras (Minambakkam)	0230	16	1004.1	1002.3	..	27.3	24.9	23.8	29.5	83	..	4.8	..	10.3	0	3	23	1	0	0	0	15	3	7	0	4
	0530	,,	1004.6	1002.9	..	26.7	24.3	23.2	28.4	81	..	6.1	..	6.9	0	2	20	0	0	1	0	9	3	7	2	8
	0830	,,	1006.1	1004.4	+0.8	29.1	24.9	22.9	29.8	70	+14	6.2	+1.4	12.9	0	4	26	0	0	0	0	4	11	15	0	0
	1130	,,	1005.5	1003.8	..	32.5	25.5	22.1	26.9	55	..	5.6	..	19.4	0	17	13	0	1	0	0	0	5	22	2	0
	1730	,,	1002.7	1001.0	..	32.0	26.4	23.9	29.8	63	..	6.5	..	11.7	0	2	27	1	1	4	4	10	2	6	0	1
	2330	,,	1005.2	1003.5	..	27.7	25.5	24.6	30.7	84	..	5.2	..	11.4	0	2	26	0	0	0	5	18	2	2	1	2
Vellore	0530	214	1005.2	981.2	..	26.2	23.0	21.3	25.5	76	..	5.8	..	2.7	0	0	17	0	0	0	0	1	2	13	0	13
	0830	,,	1006.5	982.7	+0.7	28.3	23.9	21.8	25.9	69	+6	6.1	+2.1	7.0	0	0	28	0	0	0	0	0	3	24	1	2
	1130	,,	1005.5	982.0	..	32.6	25.1	22.5	25.6	53	..	5.8	..	10.6	0	2	27	0	0	0	0	0	1	23	5	1
	1730	,,	1002.1	978.7	..	32.9	24.9	21.1	24.9	52	..	7.1	..	5.7	0	0	24	3	4	1	0	4	5	6	1	6
	2330	,,	1005.7	981.9	..	28.2	23.9	21.8	26.1	69	..	5.7	..	3.5	0	0	15	0	0	1	0	0	5	6	0	15
Tambaram (Aerodrome)	0830	29	1005.9	1002.6	..	29.1	25.2	23.4	28.9	72	..	6.1	..	15.7	0	5	25	1	0	0	0	1	8	16	4	0
	1730	,,	1002.6	999.4	..	32.5	27.1	24.7	31.3	65	..	6.3	..	19.1	0	7	22	0	0	1	9	11	3	4	1	1
Tiruppattur	0830	390	1007.2	964.0	..	26.4	22.7	20.6	24.6	71	..	5.4	..	5.4	0	0	29	15	4	1	0	2	0	5	2	1
	1730	,,	1002.0	960.0	..	32.7	23.8	19.1	22.1	46	..	6.3	..	13.1	0	4	26	14	2	1	0	3	1	7	2	0
Cuddalore	0530	12	1004.7	1003.4	..	27.4	23.8	22.0	26.6	73	..	6.1	..	5.0	0	0	24	0	0	0	1	5	17	1	0	6
	0830	,,	1006.6	1005.3	+0.5	30.0	24.6	22.0	26.4	63	—1	6.2	+1.9	7.0	0	0	28	0	0	0	1	3	19	5	0	2
	1130	,,	1005.6	1004.3	..	34.8	25.1	20.2	23.8	43	..	5.8	..	9.5	0	0	28	0	0	0	2	0	20	3	3	2
	1730	,,	1002.9	1001.7	..	32.1	25.9	22.9	28.3	61	..	6.5	..	10.7	0	1	28	0	0	2	14	5	6	2	0	1
	2330	,,	1005.3	1004.0	..	34.8	25.1	23.6	29.1	73	..	6.2	..	12.2	0	3	26	0	0	0	4	11	14	0	0	1
Kallakkurichchi	0830	127	1006.4	992.3	..	29.5	24.6	22.3	26.9	66	..	4.7	..	4.9	0	0	16	0	0	1	2	13	0	0	0	14
	1730	,,	1001.9	988.1	..	34.6	25.8	21.5	25.9	48	..	5.0	..	9.5	0	1	26	2	0	1	0	0	21	0	3	3

(R) Register not received.

Division & Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*)																											
Salem	0530	278	1005.9	974.7	..	24.8	23.8	21.0	24.9	79	..	6.6	..	1.7	0	0	14	0	0	0	0	2	5	7	0	16	0
	0830	,,	1007.4	976.5	+0.5	27.2	23.1	21.1	25.0	69	—5	6.9	+2.0	3.7	0	0	27	0	0	0	0	7	6	14	0	3	0
	1130	,,	1006.1	975.6	..	31.4	23.8	19.9	23.2	51	..	5.8	..	7.1	0	0	30	0	1	0	0	3	15	11	0	0	0
	1730	,,	1002.5	972.3	..	32.9	23.7	18.8	21.7	45	..	6.8	..	5.1	0	0	26	0	1	2	0	0	5	15	3	4	0
	2330	,,	1006.3	975.1	..	27.1	22.6	20.3	23.8	67	..	4.7	..	6.5	0	0	27	0	0	0	1	8	9	9	0	3	0
Coimbatore (Pilamedu)	0530	399	1006.7	962.1	..	23.1	22.1	21.5	25.8	91	..	5.4	..	20.7	0	17	13	0	0	0	0	16	14	0	0	0	0
	0830	,,	1007.8	963.5	..	26.2	23.0	21.3	25.5	75	..	5.6	..	23.9	0	23	7	0	0	0	0	10	20	0	0	0	0
	1130	,,	1006.6	962.9	..	30.1	23.3	19.7	22.9	54	..	5.3	..	29.9	0	22	8	0	0	0	0	9	20	1	0	0	0
	1730	,,	1004.3	960.6	..	28.6	23.0	20.1	23.5	61	..	5.6	..	40.2	0	30	0	0	1	0	0	4	25	0	0	0	0
	2330	,,	1007.5	963.0	..	24.3	22.5	21.6	25.8	85	..	4.0	..	29.5	0	30	0	0	0	0	0	4	26	0	0	0	0
Coimbatore	0830	409	1008.1	962.8	+0.9	25.9	22.5	20.7	24.4	73	—5	6.4	+1.9	24.4	0	27	3	0	3	4	0	11	11	1	0	0	0
	1730	,,	1004.5	949.7	..	28.7	23.3	20.4	24.1	61	..	6.4	..	26.1	0	29	1	0	1	1	0	8	14	6	0	0	0
Nagapattinam	0830	9	1007.4	1006.3	+0.7	29.8	24.5	21.9	26.3	63	0	6.5	+2.6	14.7	0	11	19	0	1	0	1	1	13	14	0	0	0
	1730	,,	1003.7	1002.6	..	31.4	26.4	24.2	30.4	66	..	5.9	..	19.9	0	16	14	0	0	0	5	18	6	1	0	0	0
Tiruchchirappalli	0230	88	1005.4	995.5	..	27.1	23.3	21.3	25.5	71	..	2.8	..	15.8	0	10	18	0	0	0	0	1	0	23	4	2	0
	0530	,,	1005.8	995.9	..	26.5	22.9	21.1	25.0	73	..	5.2	..	14.9	0	7	23	0	0	0	0	1	1	26	2	0	0
	0830	,,	1007.4	997.5	+0.5	29.5	24.1	21.4	25.6	62	+4	4.9	+0.6	23.3	0	22	8	0	0	0	0	0	0	29	1	0	0
	1130	,,	1006.3	996.6	..	33.6	24.8	20.5	24.1	47	..	4.7	..	25.6	0	26	4	0	0	0	0	0	3	24	3	0	0
	1730	,,	1003.1	993.5	..	34.2	24.7	19.9	23.2	44	..	6.0	..	24.7	0	22	8	0	0	0	2	5	0	16	7	0	0
	2330	,,	1006.7	996.8	..	28.1	23.6	21.2	25.3	68	..	3.2	..	20.7	0	14	16	0	0	0	0	2	7	19	2	0	0
Vedaranniyan	0830	4	1007.4	1006.9	..	29.8	25.8	24.0	30.0	72	..	4.8	..	9.7	0	1	29	0	0	0	0	6	18	4	2	0	0
	1730	,,	1004.1	1003.6	..	30.1	26.5	24.9	31.7	74	..	4.4	..	13.5	0	1	29	0	0	0	5	14	11	0	0	0	0
Atirampattinam	0830	6	1007.2	1006.5	..	29.5	24.6	22.1	26.9	65	..	5·7	..	8.4	0	1	27	1	0	0	0	0	15	6	6	2	0
	1730	,,	1003.9	1003.3	..	30.1	26.5	25.0	31.7	74	..	5.5	..	30·3	0	29	1	0	0	0	0	18	11	0	0	0	0
Madurai	0830	133	1007.2	992.3	+0.1	28.9	24.0	21.7	25.9	65	+8	4.5	—0.7	5.7	0	0	30	2	1	0	0	0	1	10	13	0	3
	1730	,,	1003.4	988.8	..	34.5	25.9	21·8	26.3	49	..	5.1	..	11.6	0	3	27	1	1	2	3	2	11	5	5	0	0
Madurai Aerodrome.	0530	131	1005.9	991.1	..	26.2	22.7	20.9	24.7	73	..	5.3	..	7.9	0	1	24	10	1	0	0	3	0	5	6	5	0
	0830	,,	1007.4	992.7	..	29.5	23.6	20.6	24.4	59	..	5.9	..	11.3	0	1	26	9	1	0	0	0	2	5	9	3	1
	1130	,,	1006.3	991.9	..	33.6	24.7	20.2	23.8	46	..	5.9	..	13.1	0	7	22	3	0	0	0	2	2	14	8	1	0
	1730	,,	1003.2	988.8	..	33.9	24.7	20.1	23.5	46	..	6.5	..	23.5	0	18	12	1	0	1	3	3	1	15	5	0	1
Tondi	0830	5	1007·8	1007·2	..	30·2	25·7	23·6	29·3	68	..	5·9	..	4·6	0	0	13	0	0	1	0	4	8	0	0	17	0
	1730	,,	1004·4	1003·8	..	29·8	27·0	25·8	33·4	79	..	5·4	..	36·7	0	27	2	0	0	0	7	17	5	0	0	1	0
Pamban	0830	11	1007·4	1006·1	+0·2	28·9	25·9	24·7	30·9	79	+4	3·6	+0·7	11·7	0	1	25	0	0	0	2	3	21	0	0	4	0
	1730	,,	1004·7	1003·4	..	29·3	26·6	25·4	32·6	80	..	3·3	..	17·5	0	11	19	0	0	0	4	8	18	0	0	0	0
Tuticorin	0830	4	1008·1	1007·7	+0·5	30·3	24·5	21·8	25·9	61	+1	3·7	—0·5	12·5	0	5	25	0	1	0	1	0	8	20	0	0	0
	*1730	,,	1004·3	1003·9	..	32·8	25·5	22·0	25·9	55	..	5·4	..	21·3	0	19	10	1	0	0	1	7	0	20	0	0	0
Palayankottai	0830	51	1007·9	1002·3	+0·8	30·7	24·1	20·8	24·6	56	—1	5·0	+0·1	5·1	0	1	19	1	0	0	0	0	1	16	2	10	0
	1730	,,	1004·5	998·8	..	32·7	24·2	19·9	23·2	48	..	5·5	..	16·7	0	6	23	0	0	0	0	0	3	18	8	1	0
Kanniya Kumari	0830	37	1008·6	1004·5	..	27·8	25·0	23·7	29·3	79	..	5·7	..	15·8	0	9	21	0	0	0	0	0	1	27	2	0	0
	1730	,,	1006·3	1002·2	..	28·4	25·3	23·9	29·7	77	..	5·3	..	18·1	0	12	18	0	0	0	0	0	2	27	1	0	0
Coastal Mysore																											
Karwar	0830	4	1007·5	1007·0	+0·6	27·4	25·9	25·1	32·2	88	0	6·2	—0·8	7·5	0	6	10	1	1	2	2	0	0	5	0	14	5
	1730	,,	1006·0	1005·5	..	28·8	26·0	24·9	31·5	80	..	6·6	..	11·5	0	7	16	0	1	0	1	0	1	5	8	7	7
Honawar	0830	26	1008·3	1005·4	+0·4	25·9	24·5	23·9	29·7	89	0	7·6	+0·8	4·5	0	0	29	5	4	9	0	4	4	2	1	1	0
	1730	,,	1006·4	1003·6	..	28·2	25·5	24·4	30·4	80	..	7·0	..	9·3	0	2	28	0	1	1	0	5	11	9	3	0	0
Mangalore (Bajpe)	0230	102	1007·0	995·5	..	24·9	24·1	23·7	29·3	93	..	6·1	..	6·3	0	0	22	1	2	9	4	0	0	4	2	8	0
	0530	,,	1007·1	995·5	..	24·5	23·8	23·5	28·9	94	..	6·8	..	6·5	0	1	25	0	3	14	4	1	2	2	0	4	0
	0830	,,	1008·7	997·2	..	25·9	24·5	23·9	29·7	89	..	6·4	..	5·4	0	0	30	0	3	19	2	0	1	3	2	0	0
	1130	,,	1008·5	997·1	..	28·3	25·3	23·9	29·8	77	..	6·4	..	11·1	0	1	29	0	0	1	2	6	5	14	2	0	0
	1730	,,	1006·5	995·1	..	27·8	24·9	23·5	28·9	78	..	6·7	..	12·4	0	1	29	1	0	0	0	2	3	19	5	0	0
	2330	,,	1008·4	996·9	..	25·3	24·2	23·6	29·3	91	..	5·9	..	7·2	0	0	28	1	3	9	3	2	0	5	5	2	0
Mangalore	0830	22	1008·6	1006·1	+0·3	27·6	25·2	24·3	30·0	83	—4	6·0	—0·8	2·9	0	0	30	2	4	11	2	0	5	5	1	0	0
	1730	,,	1006·6	1004·2	..	29·1	25·9	24·6	30·7	77		6·8	..	4·3	0	0	30	4	0	0	1	1	5	14	5	0	0
Interior Mysore North																											
Bidar	0830	664	1005·3	932·5	..	24·5	21·8	20·6	24·1	80	+9	5·2	+0·6	22·0	0	22	8	0	0	0	0	1	9	13	7	0	0
	1730	,,	1000·6	929·6	..	29·9	22·8	19·0	22·7	55	..	5·6	..	15·5	0	9	21	0	0	0	1	1	13	11	4	0	0

*Observations for 29 days.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madras State —(*Contd.*)																										
Gulbarga	0830	458	1005·9	955·2	+0·9	25·8	22·3	20·6	24·1	74	+3	6·1	+1·3	12·8	0	1	28	0	0	0	0	0	3	21	5	1
	1730	,,	1000·6	951·2	..	31·9	22·6	17·7	19·7	47	..	7·3	..	11·5	0	3	24	1	0	1	0	1	8	13	3	3
Bijapur	0830	594	1006·2	940·8	+0·8	25·0	22·0	20·7	24·3	78	+5	6·1	+1·1	6·1	0	0	30	1	0	0	0	0	0	29	0	0
	1730	,,	1001·0	937·3	..	30·5	22·7	18·9	21·8	53	..	7·2	..	7·1	0	0	28	2	0	0	0	1	3	22	0	2
Raichur	0830	400	1006·4	962·2	+1·1	26·9	23·1	21·2	25·2	72	+3	6·6	+2·6	7·7	0	0	29	0	0	0	0	0	16	3	8	1
	1730	,,	1000·9	957·9	..	33·0	24·3	19·8	23·2	49	..	6·8	..	7·8	0	1	28	0	2	0	0	2	12	3	10	1
Belgaum	0830	753	1007·8	925·3	+1·3	23·2	21·3	20·5	23·8	85	+2	7·0	+0·6	7·9	0	0	30	0	0	0	0	0	0	29	1	0
	1730	,,	1004·5	923·1	..	25·6	21·9	20·1	23·5	72	..	6·8	..	9·6	0	0	30	0	0	0	0	0	0	23	6	0
Belgaum (Samra) (R)	0530	747																								
(R)	0830																									
(R)	1130																									
(R)	1730																									
Gadag	0530	650	1006·6	934·7	..	21·7	20·8	20·3	23·8	92	..	5·7	..	9·2	0	0	28	0	0	0	0	0	5	22	1	2
	0830	,,	1007·6	936·1	+0·9	23·9	21·7	20·7	24·4	83	+2	6·4	+1·0	12·9	0	1	29	0	0	0	0	0	5	24	1	0
	1130	,,	1006·1	935·7	..	28·2	22·2	19·1	22·4	58	..	6·4	..	9·8	0	1	29	0	0	0	0	0	1	26	3	0
	1730	,,	1003·5	933·2	..	27·9	22·1	19·1	22·4	61	..	7·2	..	12.4	0	2	28	0	0	0	0	0	3	26	1	0
	2330	,,	1007·2	935·6	..	22·9	21·3	20·6	24·1	87	..	6·6	..	11·6	0	2	28	0	0	0	0	0	6	24	0	0
Interior Mysore South																										
Bellary	0830	449	1006·6	957·1	+0·9	26·5	22·9	21·1	25·0	72	+11	4·8	—0·5	11·9	0	2	28	0	30	0	0	0	0	0	0	0
	1730	,,	1001·9	953·4	..	31·6	23·6	19·1	22·5	50	..	6·0	..	12·9	0	3	27	0	0	0	0	0	0	1	29	0
Chitradurga	0830	733	1007·4	927·1	+1·0	23·3	20·7	19·4	22·5	79	+2	6·3	+0·1	11·9	0	1	29	0	0	0	0	1	5	24	0	0
	1730	,,	1003·1	924·4	..	28·0	21·1	17·4	20·0	55	..	7·0	..	10·1	0	0	28	0	0	0	0	0	0	28	0	2
Shimoga	0830	571	1007·5	944·6	+0·7	24·5	21·7	20·4	24·0	78	—5	8·0	+1·5	5·4	0	0	27	0	0	0	0	4	16	6	1	3
	1730	,,	1004·1	941·9	..	27·3	22·6	20·7	23·8	67	..	8·0	..	5·8	0	0	26	0	0	0	0	2	19	3	2	4
Agumbe	0830	..	..	..	..	22·7	22·2	21·7	26·3	94	..	7·8	..	6·3	0	0	3	0	0	0	0	0	0	3	0	27
Balehonnor	0830	..	..	..	..	20·6	19·9	19·5	22·7	94	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1490·0	903·9	..	21·2	19·7	18·9	21·8	87	+5	6·4	+0·2	4·2	0	0	29	1	0	0	0	0	7	20	1	1
	1730	,,	1475·4	901·8	..	24·6	20·4	18·2	20·9	68	..	6·6	..	6·5	0	0	29	0	0	0	0	0	7	22	0	1
Bangalore.	0230	921	1470·0	906·0	..	21·1	19·5	18·6	21·6	86	..	5·3	..	9·6	0	0	29	0	0	0	0	1	8	20	0	1
	0830	,,	1487·7	907·7	+0·6	22·1	19·8	18·6	21·3	81	+1	6·9	+0·6	13·2	0	4	26	1	0	0	0	0	5	20	4	0
	1130	,,	1493·0	907·4	..	26·5	20·8	17·8	26·4	59	..	6·7	..	19·0	0	15	15	0	0	0	0	0	7	14	9	0
	1730	,,	1471·3	904·8	..	28·4	20·7	16·5	18·8	49	..	6·9	..	14·1	0	6	24	0	0	0	0	0	6	14	10	0
Bangalore Aerodrome	0530	897	1471·3	908·8	..	20·4	19·4	18·8	21·8	91	..	6·0	..	14·7	0	1	29	0	0	0	0	0	7	23	0	0
	0830	,,	1487·8	910·2	..	22·6	20·1	18·7	21·7	79	..	6·6	..	19·3	0	12	18	0	0	0	0	0	3	25	2	0
	1130	,,	1491·6	909·8	..	26·9	20·9	17·7	20·2	58	..	6·3	..	20·8	0	16	14	0	0	0	0	0	3	25	2	0
	1730	,,	1471·1	907·1	..	28·5	20·8	16·6	19·0	50	..	6·8	..	17·7	0	9	21	0	0	0	0	0	7	21	2	0
	2330	,,	1483·5	909·7	..	22·7	20·2	18·8	21·8	79	..	5·3	..	15·0	0	2	26	0	0	0	0	0	5	23	0	2
Mysore	0830	767	1008·1	924·3	+0·6	22·8	20·4	19·2	22·2	80	+2	5·0	—1·2	6·1	0	0	30	0	0	0	0	0	14	11	5	0
	1730	,,	1004·9	922·2	..	26·9	21·1	18·1	20·8	60	..	5·6	..	10·8	0	6	24	0	0	0	0	1	13	10	6	0
Kerala																										
Calicut	0530	5	1008.1	1007.5	..	25.1	24.1	23.6	29.1	92	..	5.2	..	9.0	0	2	26	3	10	8	1	0	1	1	4	2
	0830	,,	1009.3	1008.7	+0.4	26.7	24.8	23.9	29.5	85	—4	6.1	—0.7	8.8	0	3	24	1	5	11	1	1	3	2	3	3
	1130	,,	1009.6	1009.0	..	28.9	25.4	23.9	29·7	75	..	5.9	..	11.0	0	1	28	1	0	0	0	1	7	1	11	1
	1730	,,	1007.4	1006.8	..	28.7	25.7	24.3	30.5	77	..	6.7	..	14.0	0	4	26	1	0	1	0	0	5	12	11	0
	2330	,,	1009.3	1008.7	..	26.4	24.9	24.2	30.4	88	..	3.9	..	10.0	0	3	20	1	4	5	0	0	0	9	4	7
Palghat	0830	97	1009.0	997.9	..	25.9	24.3	23.5	28.9	87	..	6.1	..	10.5	0	0	30	0	0	0	0	0	1	28	1	0
	1730	,,	1006.1	995.3	..	27.8	24.5	23.0	28.1	76	..	6.4	..	14.3	0	2	28	1	0	0	0	1	3	23	2	0
Fort Cochin	0830	3	1009.3	1009.0	—0.5	27.2	25.3	24.4	30.7	85	—1	7.2	+0.8	4.4	0	0	21	4	6	3	2	0	0	4	2	9
	1730	,,	1006.9	1006.6	..	28.3	25.5	24.2	30.4	78	..	7.0	..	7.5	0	0	29	1	1	0	0	0	0	9	18	1
Cochin (Naval Air Stations).	0230	3	1008.5	1008.2	..	25.8	24.5	24.0	29.8	90	..	6.0	..	3.9	0	1	10	0	1	3	0	0	1	5	1	19
	0530	,,	1008.5	1008.2	..	25.1	24.3	23.9	29.7	93	..	6.3	..	5.4	0	2	14	1	2	8	1	0	0	2	2	14
	0830	,,	1009.6	1009.3	..	27.1	25.0	24.1	29.8	84	..	6.1	..	5.4	0	1	18	0	4	8	3	1	0	1	2	11
	1130	,,	1009.6	1009.3	..	29.3	25.5	23.9	29.5	73	..	6.2	..	10.2	0	0	29	0	1	0	0	0	6	14	6	1
	1730	,,	1007.7	1007.4	..	28.9	25.3	23.7	29.3	74	..	7.0	..	11.4	0	0	27	0	0	0	0	0	3	15	9	3
	2330	,,	1009.5	1009.2	..	26.6	25.0	24.2	30.4	87	..	6.6	..	4.9	0	1	14	0	2	2	1	0	0	4	6	15
Alleppey	0830	4	1009.5	1009.1	+0.3	27.1	25.6	24.9	31.5	88	—1	6.3	—0.8	7.7	0	2	24	1	7	4	6	0	1	3	4	4
	1730	,,	1007.4	1007.0	..	29.2	26.0	24.6	30.9	76	..	6.6	..	18.0	0	12	18	2	0	0	0	0	0	5	23	0

(R) Register not received.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	(K m.p.h.): 62 or more	(K m.p.h.): 20 to 61	(K m.p.h.): 1 to 19	No. of observations, Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala (*Contd.*)																											
Punalur	0830	34	1009.2	1005.4	..	25.7	24.6	24.1	30.0	91	..	6.5	..	0.6	0	0	5	1	1	1	1	0	1	0	0	25	0
	1730	,,	1006.6	1002.8	..	29.2	25.2	23.2	28.8	69	..	6.7	..	4.3	0	0	30	3	0	0	0	4	5	8	10	0	0
Trivandrum	0230	64	1007.9	1000.6	..	25.0	24.1	23.7	29.3	93	..	3.9	..	6.4	0	1	25	11	2	0	0	0	0	1	12	4	0
	0530	,,	1008.0	1000.7	..	24.6	23.9	23.5	28.9	93	..	5.3	..	6.5	0	1	27	16	3	0	0	0	0	2	7	2	0
	0830	,,	1009.6	1002.3	+0.1	26.4	24.7	23.9	29.7	86	0	5.2	—1.4	6.2	0	1	26	9	1	0	1	0	0	2	14	3	0
	1130	,,	1009.1	1001.9	..	29.0	25.1	23.2	28.6	71	..	6.0	..	13.8	0	7	23	1	0	0	0	0	1	9	19	0	0
	1730	,,	1007.0	999.8	..	28.5	25.0	23.5	28.9	75	..	5.8	..	11.3	0	3	27	1	0	0	0	0	2	7	20	0	0
	2330	,,	1009.4	1002.1	..	25.6	24.5	24.0	29.8	91	..	4.6	..	8.6	0	1	29	11	0	0	0	0	0	2	17	0	0
Trivandrum Aerodrome	0830	8	1009.4	1008.5	..	27.4	25.2	24.2	30.2	83	..	5.2	..	4.1	0	0	17	9	1	0	0	0	0	0	7	13	0
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir.																											
Dalhousie	0830	1959	1380.3	796.1	+0.6	20.7	14.6	10.1	11.7	53	—10	2.4	+0.7	3.5	0	0	30	1	6	0	9	0	7	0	3	0	4
	1730	,,	1367.8	795.6	..	25.9	17.7	12.5	13.6	40	..	2.4	..	2.7	0	0	27	0	4	1	3	2	9	2	5	3	1
Dharmsala	0830	1211	1551.1	883.8	+7.2	27.6	18.7	12.5	15.0	43	—6	3.2	+1.3	0.6	0	0	17	0	16	1	0	0	0	0	0	13	0
	1730	,,	1550.9	883.3	..	30.2	19.6	12.6	15.1	38	..	4.3	..	2.0	0	0	30	0	0	0	0	0	29	0	1	0	0
Simla	0830	2202	1426.3	777.6	—0.6	20.3	13.7	8.7	11.4	51	—4	3.0	—0.5	2.0	0	0	30	2	2	1	14	1	5	0	5	0	0
	1730	,,	1415.5	777.2	..	22.5	15.5	10.3	13.2	49	..	3.3	..	2.0	0	0	30	1	1	0	4	1	16	0	7	0	0
Lokpal	0830	,,	..	..	..	2.6	1.4	0.5	6.1	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830																										
Joshimath	0830	..	..	..	..	20.5	16.3	13.6	15.7	67	..	4.1	..	3.4	0	0	28	8	5	7	1	0	0	2	5	2	0
	1730	..	..	..	..	23.9	17.0	12.5	14.8	52	..	(c) 5.9	..	3.8	0	0	22	3	1	3	3	1	5	4	0	8	2
Mussoorie	0830	2042	1418.7	791.5	—1.9	20.5	15.0	10.9	13.3	57	—11	3.4	—0.6	2.3	0	0	18	3	2	0	4	6	2	0	1	12	0
	1730	,,	1399.9	790.0	..	21.8	16.1	12.1	14.6	59	..	4.1	..	4.2	0	0	25	4	2	0	6	9	3	0	1	5	0
Mukteswar (Kumaun)	0830	2311	3104.2	768.6	—0.5	18.6	14.2	11.0	13.2	64	—4	2.9	—1.2	15.3	0	10	19	0	2	2	0	0	0	12	13	1	0
	1730	,,	3094.2	767.0	..	21.7	16.6	13.5	15.9	62	..	3.2	..	19.9	0	15	15	0	0	0	0	0	1	16	13	0	0
Nainital	0830	1953	1420.8	799.8	—0.4	20.8	15.7	12.2	14.2	61	—2	3.8	—0.3	4.9	0	0	16	3	3	1	1	0	0	4	4	14	0
	1730	,,	1395.8	797.7	..	22.1	16.8	13.4	15.9	60	..	3.0	..	6.8	0	0	30	10	1	2	2	3	3	7	2	0	0
Kalimpong	0830	1209	1467.8	875.9	+2.6	22.2	20.1	19.0	22.0	82	—6	2.0	—4.2	3.0	0	0	30	0	0	0	0	0	0	0	30	0	0
	1730	,,	1463.6	875.5	..	22.6	20.4	19.3	22.4	82	..	2.1	..	3.0	0	0	30	0	0	0	29	0	0	0	1	0	0
Darjeeling	0830	2126	1404.7	782.0	—3.1	17.5	16.7	16.4	18.6	92	+4	5.5	—1.4	0.9	0	0	7	4	1	0	1	0	1	0	0	23	0
	1730	,,	1384.5	780.2	..	17.3	16.7	16.2	18.4	94	..	6.1	..	1.0	0	0	6	0	0	0	1	0	1	2	1	24	1
Kohima	0830	140.6	1501.0	858.5	..	21.3	19.0	18.3	22.0	82	..	7.0	..	2.0	0	0	30	5	1	0	3	0	2	0	19	0	0
	1730	,,	1460.7	854.5	..	21.5	20.2	19.5	23.7	89	..	7.2	..	2.0	0	0	30	2	2	0	0	0	0	2	24	0	0
Shillong	0830	1500	1446.9	845.0	+0.1	21.6	19.4	18.2	20.9	82	+4	7.5	+0.9	1.0	0	0	9	0	1	1	1	2	4	0	0	21	0
	1730	,,	1424.5	842.9	..	21.3	19.6	18.7	21.6	85	..	7.8	..	0.3	0	0	6	0	1	0	0	0	1	0	1	27	0
Cherrapunji	0830	1313	1429.0	861.6	—2.0	19.4	18.7	18.3	21.0	93	+5	4.5	—2.7	3.0	0	0	30	0	9	6	4	1	10	0	0	0	0
	1730	,,	1403.0	859.0	..	19.6	18.8	18.4	21.1	93	..	5.3	..	3.0	0	0	30	0	6	1	4	1	17	1	0	0	0
Abu	0830	1195	1454.8	876.2	+1.2	21.1	18.9	17.7	20.2	82	+11	4.0	—0.5	2.9	0	0	23	0	0	0	0	7	12	4	0	7	0
	1730	,,	1439.3	873.9	..	27.6	20.0	15.5	17.8	49	..	1.6	..	2.7	0	0	23	0	0	0	0	5	14	3	0	7	1
Aijal	0830	..	..	..	..	21.9	20.8	20.2	23.7	91	..	7.6	..	2.3	0	0	30	1	1	12	0	5	3	8	0	0	0
	1730	..	..	..	..	22.6	21.1	20.3	23.8	87	..	7.7	..	2.0	0	0	30	0	0	4	0	8	3	15	0	0	0
Pachmarhi	0830	1075	1467.3	889.1	+1.6	24.7	20.4	18.1	20.8	67	—1	5.2	+0.3	7.8	0	0	30	0	0	0	0	0	0	17	13	0	0
	1730	,,	1438.9	885.5	..	31.0	21.6	16.4	18.6	43	..	5.3	..	5.6	0	0	26	0	0	0	0	0	0	15	11	4	0
Mahabaleshwar	0830	1382	1479.6	860.0	+0.5	18.0	17.8	17.7	20.2	98	+4	7.8	+0.7	11.8	0	0	30	0	0	0	0	0	14	11	5	0	0
	1730	,,	1463.3	858.3	..	19.3	18.6	18.3	21.0	94	..	7.5	..	11.0	0	0	30	1	0	0	0	0	11	11	7	0	0
Mercara	0830	1152	1492.4	884.5	+1.0	19.6	18.6	18.1	20.6	91	—2	5.5	—1.5	10.6	0	1	29	1	0	0	0	0	0	19	10	0	0
	1730	,,	1478.6	882.3	..	20.8	19.6	18.9	22.0	89	..	6.3	..	10.7	0	1	29	0	0	0	0	0	0	19	11	0	0
Ootacamund	0830	2249	1491.1	778.3	+0.7	14.1	12.6	11.6	13.7	84	0	5.7	—0.5	3.8	0	0	16	0	1	0	0	0	12	3	0	14	0
Coonoor (R)	1730 0830	,,	1471.8	776.9	..	15.6	13.5	12.1	14.1	80	..	6.1	..	3.5	0	0	16	0	1	0	0	0	4	11	1	14	0

*Data given as addenda in December 1962 issue. (R) Register not received. (c) Mean of 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1962 (JYAISTHA 11—ASADHA 9, 1884 SAKA)

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Km per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
Hill Stations Excluding Kashmir (*Contd.*)																											
Kodaikanal	0830	2343	3144.2	770.3	+1.2	15.4	12.4	10.2	12.4	72	0	6.0	+0.8	6.1	0	0	26	2	0	0	3	2	5	5	9	4	0
	1130	,,	3152.4	770.3	..	18.1	14.4	12.0	14.0	68	..	6.6	..	9.0	0	1	26	2	1	0	7	3	0	1	13	3	0
	1730	,,	3127.7	768.7	..	15.5	13.7	12.5	14.5	83	..	7.2	..	8.1	0	0	28	2	0	2	4	1	2	5	12	2	0
Nepal																											
Katmandu	0830	1324	1427.4	860.3	..	22.2	20.0	18.8	21.8	82	..	6.5	..	0.2	0	0	2	0	1	0	1	0	0	0	0	26	0
	1130	,,	1423.2	859.8	..	25.7	21.1	18.7	21.7	66	..	6.2	..	1.4	0	0	12	0	1	2	1	2	2	3	1	18	0
	1730	,,	1402.0	857.8	..	24.4	21.2	19.5	22.8	76	..	6.1	..	0.3	0	0	3	1	0	0	0	0	0	0	2	27	0
Sikkim																											
Lachen	0830	..	..	..	..	15.6	13.8	12.8	14.8	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories.																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	30 6	25.0	22.3	27.1	62	..	5.8	..	12.7	0	4	26	1	2	7	4	0	0	10	6	0	0
	1730	..	..	..	..	32.2	24.8	24.0	25.0	56	..	7.0	..	11.6	0	0	30	3	3	7	2	4	0	9	1	0	1
Hazaribagh	0830	615	998.4	932.1	..	28.5	23.7	21.3	25.9	67	..	5.5	..	6.1	0	0	27	0	1	0	1	0	5	11	9	3	0
	1730	,,	995.8	929.7	..	28.8	23.2	20.5	24.4	64	..	7.1	..	5.5	0	0	26	3	0	7	2	2	3	5	4	4	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	5.4	..	..	0	3	26	0	0	6	3	0	0	16	4	1	0
	1730	..	..	..	..	..	..	..	..	..	..	6.5	..	..	0	0	29	0	0	10	2	0	0	13	4	1	0
Bokaro	0830	242	999.5	973.1	..	31.1	25.5	22.7	28.1	61	..	5.7	..	4.7	0	0	30	0	4	0	8	0	15	0	3	0	0
	1730	,,	997.2	971.1	..	33.5	27.5	21.7	31.9	62	..	4.9	..	4.3	0	0	30	0	7	0	10	0	3	2	8	0	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	5.7	..	..	0	0	29	0	0	14	3	3	1	8	0	1	0
	1730	..	..	..	..	..	..	..	..	..	..	5.3	..	..	0	0	30	0	1	9	13	3	2	1	1	0	0
Ramgarh	0830	..	..	..	..	30.6	25.3	22.7	27.9	64	..	6.0	..	3.0	0	0	29	0	12	0	5	0	4	4	4	1	0
	1730	..	..	..	..	31.1	25.1	22.5	26.7	63	..	5.8	..	3.1	0	0	28	1	12	1	5	0	4	1	4	2	0
Panchet Hill	0830	..	..	..	..	30.2	26.2	24.3	31.0	72	..	7.7	..	6.5	0	0	29	1	5	5	4	1	7	5	1	1	0
	1730	..	..	..	..	30.6	26.2	23.9	30.6	69	..	8.0	..	4.7	0	1	19	0	0	5	7	1	2	4	1	10	0
Durgapur	0830	..	..	..	..	29.1	26.5	25.5	32.6	81	..	5.8	..	6.3	0	0	30	3	2	1	6	11	4	1	2	0	0
	1730	..	..	..	..	30.3	26.6	25.1	31.7	75	..	5.5	..	5.6	0	0	30	3	1	1	13	5	4	1	2	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	28·3	23·7	21·4	25·5	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1000·7	993·1	..	29·5	25·1	23·0	28·1	69	..	5·9	..	3·3	0	0	28	0	1	1	0	3	9	10	4	2	0
	1130	,,	1000·2	982·7	..	31·6	25·0	21·9	26·3	57	..	5·5	..	3·3	0	0	28	1	0	1	1	0	9	8	8	2	0
	1730	,,	997·1	979·7	..	32·9	25·8	22·4	27·1	57	..	6·4	..	4·0	0	0	27	1	3	1	1	2	8	4	7	3	0
Bhimkund	0830	..	..	..	..	28·3	24·5	22·7	27·6	72	..	6·4	..	3·1	0	0	21	4	8	1	4	0	0	0	4	9	0
	1730	..	..	..	..	29·5	24·6	22·3	26·9	67	..	6·9	..	3·2	0	0	19	2	2	0	1	2	6	1	5	11	0
Sonepur	0830	..	.	..	..	29·3	25·1	23·2	28·9	68	..	..	..	6·0	0	0	30	0	0	1	0	4	14	11	0	0	0
Khijrawan	0830	..	..	..	..	28·9	23·8	21·1	25·0	62	..	5·1	..	13·3	0	3	27	0	0	0	1	3	10	16	0	0	0
	1730	..	..	..	..	30·5	24·1	20·7	24·4	58	..	5·1	..	11·7	0	3	25	0	0	0	1	2	9	13	3	2	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	30·9	23·6	20·0	23·4	52	..	(d) 4·4	..	(d) 12·6	0	0	27	0	0	0	0	0	13	11	3	0	0
	1730	..	..	..	..	36·2	23·5	16·1	18·3	32	..	(b) 4·7	..	(b) 9·1	0	0	26	0	0	0	2	0	9	8	4	3	3
Punasa	0830	..	..	..	..	30·0	25·3	23·0	28·6	67	..	..	..	14·2	0	6	21	1	1	0	0	0	12	12	1	3	0
	1730	..	..	..	..	36·8	26·1	20·9	24·3	40	..	..	..	12·1	0	3	24	1	0	0	0	2	9	13	2	3	0
Thikri	0830	..	..	..	..	30·3	26·3	24·2	30·2	70	..	2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	30·0	21·9	17·1	19·6	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	38·6	24·5	16·6	19·3	28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..		..	19·2	14·4	11·6	13·7	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·0	14·3	11·6	13·7	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	24·4	22·2	21·4	25·5	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·7	23·2	22·3	26·9	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinure	0830	..	..	..	..	21·4	17·9	16·1	18·3	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·9	18·6	16·9	19·3	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	24·3	22·2	21·3	25·3	84	..	5·2	..	3·1	0	0	16	1	0	0	6	6	3	0	0	14	
	*1130																										
	1730	..	..	..	..	26·0	23·1	21·7	26·3	79	..	5·3	..	3·7	0	0	22	0	2	2	13	2	1	0	2	8	

*Data not available. (b) Mean of 29 days. (d) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(Contd.) **Gandak Catchment**—contd.																											
Gorkha††	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	24·3	22·4	21·5	25·6	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·4	22·4	20·5	24·1	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh	0830	..	..	..	..	22·9	20·1	18·6	21·4	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·2	20·6	18·7	21·6	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	..	20·8	17·1	14·9	17·1	71	..	3·6	..	..	..	..	..	1	1	3	1	0	3	1	4	2	0
	1730	..	..	..	..	22·5	17·9	15·4	17·5	66	..	3·7	..	..	..	..	..	1	0	1	1	1	6	0	5	1	0
Sallayana	0830	..	..	..	..	23·0	19·7	17·9	20·5	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·1	19·2	17·1	19·5	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	29·4	25·7	24·1	30·0	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	29·9	26·5	25·1	31·9	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhatmati Catchment																											
Katmandu*	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chautara	0830	..	..	..	..	20·4	19·3	18·7	21·6	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·4	20·2	19·2	22·2	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepna	0830	..	..	..	..	18·8	17·4	16·9	19·3	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·2	17·9	17·5	20·0	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	13·1	12·1	11·5	13·6	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·1	11·8	11·7	13·7	97	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	21·8	19·8	18·7	21·6	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·0	19·9	19·3	22·4	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	20·0	19·0	18·5	21·3	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·0	19·3	18·9	21·8	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	20·0	18·6	18·3	21·0	91	..	7·3	..	..	..	..	..	0	0	0	0	2	0	0	0	28	0
	1130	..	..	..	..	22·0	19·9	19·0	21·8	84	..	7·0	..	..	..	..	..	3	0	0	0	2	4	5	5	11	0
	1730	..	..	..	..	20·6	19·0	18·3	20·9	87	..	7·2	..	..	..	..	..	0	1	0	0	5	4	3	1	16	0
Okhaldhunga	0830	..	..	..	..	19·3	18·5	18·1	20·8	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	††1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·2	18·4	18·0	20·6	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	22·3	20·8	20·1	23·5	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22.8	21·0	20·1	23·5	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	23·1	21·8	21·1	25·0	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·1	21·1	19·6	22·8	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1000·6	984·3	..	27·3	25·2	24·3	30·4	85	..	6·6	..	3·3	0	0	28	0	4	1	0	3	11	1	8	2	0
	1130	,,	1000·0	983·8	..	29·1	26·0	24·6	31·1	77	..	6·	..	4·1	0		29	2	1	4	1	2	17	1	1	1	0
	1730	,,	997·3	981·1	..	28·8	26·2	25·1	31·9	82	..	6·6	..	3·2	0	0	28	2	2	1	2		13	4	3	2	0
Tista Catchment																											
Gangtok	0830	1812	1432·3	813·7	..	18·7	18·1	17·7	20·4	92	..	7·0	..	2·0	0	0		5	2	0			1	0	4	7	0
	1130	,,	1426·5	813·4	..	21·5	19·6	18·8	21·6	85	..	7·1	..	3·5	0	0	29	1	3	0	2	0	8	5	0	1	0
	1730	,,	1409·4	811·7	..	20·0	18·8	18·2	20·9	89	..	7·	..	2·1	0		22	2	1	1	7	8	2	0	1	8	0
Gezing	0830	..	..	..	..	20·7	19·7	19·2	22·2	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·9	19·6	18·9	21·8	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data included under Nepal.

††Data not available.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radio wind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Table IV and V :

n—represents the number of observations;

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

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

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

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

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1, 16·2, 18·0, 21·0, 24.0, 27·0 and 30·0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	lst April, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February,1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81 36′	134	lst October, 1961	0530		1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	lst September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1130	1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1130	1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530		1730	
21.	Dehra Dun	30°19′	78°03′	692	lst October, 1958	0530		1730	
22.	Dibrugarh/Mohanbari	27°29′	95°01′	112	lst June, 1948	0530	1130	1730	2330
23.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur.	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
34.	Jharsuguda	21°55′	84°05′	240	lst May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1130	1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1130	1730	2330
47.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
48.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
49.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
50.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
51.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
52.	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
53.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

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

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	AGARTALA																AHMADABAD						
Time in I.S.T.	0530				1130				1730				2330				0530*				1130		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface . . .	30	2·5	1·7	146	15	1·9	1·2	142	30	2·5	1·8	172	30	3·0	2·5	148	30	3·5	3·1	234	30	5·2	4·7
0·15 a.g. . . .	25	6·6	5·1	147	14	3·4	2·3	145	26	5·7	4·3	170	26	7·7	7·2	162	30	7·1	6·7	240	30	7·2	6·9
0·3 a. m. s. l. . .	25	7·9	6·2	167	14	3·9	2·3	158	26	6·4	5·2	178	26	9·1	8·4	173	30	7·5	7·3	243	30	7·3	7·0
0·6 „ . . .	24	9·2	6·8	176	13	4·5	2·9	170	25	7·7	6·8	185	26	9·4	8·6	183	30	9·7	9·5	251	30	7·9	7·6
0·9 „ . . .	23	9·1	6·3	186	11	5·9	3·6	173	24	8·7	7·5	190	24	8·7	7·5	192	30	10·1	9·9	261	30	9·2	8·8
1·5 „ . . .	15	6·5	3·3	177	5	10·6	5·3	205	17	5·6	3·5	198	18	7·2	5·7	197	30	8·7	8·1	258	24	8·8	7·9
2·1 „ . . .	12	7·4	2·1	166	4	10·2	6·5	263	14	5·9	1·3	195	13	5·2	2·7	182	30	8·0	6·1	256	14	8·5	6·9
3·0 „ . . .	8	5·3	1·7	155	3	15·3	15·3	287	11	6·0	0·4	150	7	4·1	0·7	222	30	6·1	4·0	274	8	4·4	1·8
3·6 „ . . .	5	4·4	0·7	328					8	6·5	0·8	288	3	3·5	1·8	232	30	4·9	2·7	284	6	6·1	2·5
4·5 „ . . .	4	5·0	0·6	037					7	6·9	2·7	306	2	1·5	1·3	288	30	5·0	1·6	006	5	3·9	2·1
5·4 „ . . .	4	5·9	1·5	131					5	4·9	1·4	084	1	3·0	3·0	285	29	5·8	1·6	018	5	6·8	2·2
6·0 „ . . .	3	5·2	5·1	129					2	4·5	4·1	134					29	6·2	1·0	304	5	5·0	1·1
7·2 „ . . .	3	7·2	6·9	130													27	5·6	0·4	295	3	3·5	1·3
9·0 „ . . .	1	3·5	3·5	125													23	5·2	1·3	136	1	6·0	6·0

Station	AHMADABAD								ALLAHABAD/BAMHRAULI														
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface . . .	30	6·2	5·3	236	30	4·8	3·7	243	30	1·5	0·6	295	30	2·8	2·2	309	30	3·0	1·9	313	30	1·2	0·1
0·15 a. g. . . .	30	9·3	8·0	231	30	8·1	6·8	246	30	6·3	2·9	260	30	4·9	3·5	308	30	6·1	3·8	317	30	6·8	0·8
0·3 a. m. s. l. . .	30	9·4	8·2	231	30	9·1	7·8	247	30	6·4	3·2	260	30	5·2	3·7	310	30	6·1	3·7	317	30	7·4	0·7
0·6 „ . .	30	9·0	8·0	232	30	11·3	10·4	253	30	7·6	4·5	280	30	5·9	4·7	300	30	5·9	3·6	324	30	7·5	1·5
0·9 „ . . .	30	8·4	7·9	239	30	12·0	11·4	253	30	7·4	4·8	287	29	6·5	5·2	305	30	6·4	4·3	317	30	6·7	2·8
1·5 „ . . .	30	8·1	7·8	253	30	9·9	9·4	248	29	6·7	5·5	295	26	8·0	7·2	305	30	6·6	5·7	310	29	6·5	4·6
2·1 „ . . .	30	8·4	8·0	261	20	6·9	5·4	269	28	8·1	7·3	307	24	9·3	8·5	305	30	7·8	6·9	307	20	6·8	5·6
3·0 „ . . .	30	7·0	5·7	284	13	3·2	1·9	337	28	8·8	7·8	312	17	7·7	5·3	295	30	8·6	7·8	305	11	5·8	5·1
3·6 „ . . .	30	5·4	4·1	289	1	6·5	6·5	065	28	8·2	6·9	315	14	8·0	6·6	310	30	9·0	8·1	303	3	7·7	7·1
4·5 „ . . .	29	5·2	2·3	300					28	6·3	5·4	318	7	7·1	5·6	335	29	8·7	7·5	303			
5·4 „ . . .	29	6·2	1·5	303					26	4·5	3·0	298	3	9·5	8·3	355	29	7·0	4·9	291			
6·0 „ . . .	29	6·3	3·3	286					26	4·3	1·4	258	1	2·5	2·5	210	29	7·2	5·4	282			
7·2 „ . . .	27	6·8	2·3	311					26	6·0	1·3	234					28	6·1	3·6	285			
9·0 „ . . .	21	5·6	1·3	036					18	5·9	1·3	237					22	6·7	2·5	289			

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	AMBALA																ANANTAPUR							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·8	0·9	060	30	1·9	0·7	141	30	3·2	1·6	331	30	2·1	0·6	320	30	3·9	3·9	270	30	4·3	3·9	287
0·15 a.g.	30	8·1	1·5	330	30	4·6	1·0	326	28	7·3	4·2	327	29	10·4	6·0	305	30	7·3	7·3	262	29	6·7	6·4	285
0·3 a.m.s.l. . .	30	3·6	0·5	336	30	3·2	0·8	308	28	4·8	2·6	323	29	4·7	2·2	329								
0·6 ,, ...	30	8·4	2·4	306	30	6·0	1·6	303	28	8·2	5·1	326	29	11·1	6·9	318	30	8·4	8·4	265	29	7·0	6·6	279
0·9 ,, ...	30	8·7	3·7	304	30	6·9	2·3	286	28	9·1	5·5	323	29	10·7	7·1	313	30	10·7	10·5	277	29	7·6	7·3	279
1·5 ,, ...	30	8·3	6·5	298	29	7·5	3·9	301	28	8·3	6·0	301	29	10·4	8·1	300	30	10·2	9·9	285	29	7·5	7·4	279
2·1 ,, ...	27	9·4	4·7	310	27	9·5	7·3	304	24	9·4	8·1	293	22	10·4	9·3	304	29	6·6	5·7	287	27	7·7	7·3	277
3·0 ,, ...	24	8·8	8·1	310	19	8·4	7·4	309	19	9·2	8·2	298	12	9·6	7·5	306	24	4·6	3·2	279	22	6·3	5·7	277
3·6 ,, ...	13	7·5	5·7	312	13	8·0	6·3	314	12	9·2	8·0	304					20	4·8	3·6	267	19	6·2	5·8	281
4·5 ,, ...	7	7·6	6·0	288	5	7·9	4·9	336	9	8·4	7·1	311					14	5·8	4·6	284	15	7·0	6·7	286
5·4 ,, ...	6	11·0	9·8	278	4	6·2	5·7	319	5	8·5	7·6	317					9	5·7	4·0	301	11	5·6	5·2	284
6·0 ,, ...	5	9·0	7·6	255	4	6·5	4·7	305	4	8·3	7·1	299					8	4·7	2·8	297	7	3·8	3·6	273
7·2 ,, ...	1	14·0	14·0	275	4	14·6	12·4	275	2	13·7	8·5	253					5	3·9	0·9	303	4	4·6	2·1	205
9·0 ,, ...					1	21·0	21·0	250	1	19·5	19·5	195					2	7·0	6·6	100	4	7·6	5·3	093

Station	ANANTAPUR				ASANSOL																AURANGABAD/ CHIKALTHAN			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·9	5·6	268	30	0·9	0·4	154	15	1·7	1·1	094	30	1·9	1·0	109	30	1·2	0·8	180	30	6·5	6·2	271
0·15 a.g. . .	29	9·3	9·0	265	30	4·0	1·1	196	15	3·3	1·7	018	28	4·9	2·4	113	30	5·4	2·7	194	30	11·9	11·4	267
0·3 a.m.s.l. . .					30	4·1	1·3	225	15	3·4	1·9	014	28	4·9	2·3	110	30	5·5	2·8	202				
0·6 ,, ...	29	9·9	9·7	262	30	6·4	3·1	261	15	4·4	2·1	069	28	5·2	1·9	106	29	7·4	3·3	209				
0·9 ,, ...	29	10·9	10·8	267	29	6·5	3·6	275	15	4·0	1·7	026	27	5·2	1·1	030	27	7·0	2·8	221	30	14·6	14·0	275
1·5 ,, ...	29	8·7	8·6	273	28	6·2	2·6	306	11	6·5	4·6	340	26	5·8	3·3	328	27	7·4	2·7	279	30	15·3	14·0	284
2·1 ,, ...	29	5·4	5·0	282	27	6·9	3·8	319	9	9·8	7·7	223	24	7·2	5·0	318	25	7·3	4·0	314	29	8·2	6·4	286
3·0 ,, ...	26	4·6	3·5	302	21	7·4	4·7	326	2	7·5	4·5	311	22	7·5	5·3	307	18	5·6	2·0	353	18	6·5	4·5	268
3·6 ,, ...	19	4·7	3·2	301	16	5·4	2·5	337					12	6·2	3·8	304	14	4·9	2·3	005	8	5·6	3·7	269
4·5 ,, ...	11	4·8	4·3	284	11	5·3	2·1	009					7	7·0	5·1	303	9	6·0	2·8	029				
5·4 ,, ...	6	3·4	3·1	274	1	4·0	4·0	110					3	6·0	3·8	302	4	5·3	5·0	098				
6·0 ,, ...	3	1·8	0·7	056	1	6·5	6·5	135					1	7·0	7·0	245	3	5·2	4·9	101				
7·2 ,, ...	1	3·5	3·5	140	1	7·5	7·5	150									1	5·0	5·0	090				
9·0 ,, ...					1	9·0	9·0	120																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884, Saka)

Station	AURANGABAD/CHIKALTHAN								BAHRAICH								BANGALORE							
Time in I. S. T.	1730				2330				0530				1730				0530@				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	7·0	6·6	279	30	7·4	7·0	267	30	1·8	1·4	099	30	2·1	0·5	008	30	3·5	3·2	251	30	4·3	3·8	2
0·15 a.g.	30	9·5	8·9	281	29	12·3	11·6	267	29	7·1	3·9	107	30	4·6	0·6	008	22	7·3	7·2	261	30	7·0	6·9	2
0·3 a.m.s.l.									29	7·6	4·5	118	30	4·6	0·8	358								
0·6 ,,									29	8·7	2·9	158	30	5·1	1·1	290								
0·9 ,,	30	10·7	10·2	287	29	14·1	13·1	275	28	8·1	2·5	236	30	5·3	2·6	283								
1·5 ,,	30	9·4	9·2	285	29	13·2	12·4	281	25	7·3	5·1	290	29	7·1	5·7	287	22	10·9	10·4	276	30	8·0	7·2	2
2·1 ,,	24	8·4	8·0	290	28	7·7	6·3	286	23	7·8	7·1	302	27	8·5	7·7	294	22	8·7	8·2	281	23	7·5	6·5	2
3·0 ,,	9	6·9	5·9	302	18	5·2	1·8	282	18	9·4	8·8	307	23	9·9	9·3	300	21	7·0	6·4	286	14	4·9	3·9	2
3·6 ,,	7	5·5	3·7	310	14	5·0	2·0	228	13	7·3	6·6	302	22	10·9	10·5	300	20	7·3	7·0	282	12	5·0	4·0	2
4·5 ,,	4	3·6	2·4	213	4	3·4	1·9	147	10	4·5	3·3	282	17	9·1	8·5	307	18	7·3	6·8	286	11	5·9	5·3	2
5·4 ,,	2	3·5	1·2	097	1	4·0	4·0	110	8	4·8	4·5	270	15	9·3	8·3	296	18	5·8	5·1	274	9	5·4	4·8	2
6·0 ,,	1	2·0	2·0	135	1	6·5	6·5	135	4	4·9	4·3	252	14	8·6	7·8	283	18	5·6	4·8	278	7	4·4	3·3	2
7·2 ,,									3	7·2	5·9	226	11	10·6	9·5	270	17	3·9	1·5	290	6	5·5	3·3	3
9·0 ,,									1	3·5	3·5	140	6	10·0	9·5	229	12	5·7	4·0	097	2	10·0	5·9	0

Station	BANGALORE								BAREILLY								BEGAMPET						
Time in I.S.T.	1730@				2330				0530				1730				0530				1730		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface	30	3·7	3·1	267	30	3·9	3·3	258	30	2·0	1·4	095	30	2·0	0·7	315	30	3·8	3·5	273	30	4·3	3·5	2
0·15 a.g.	29	6·9	6·6	071	27	8·1	8·0	258	29	6·8	1·4	098	30	5·0	2·2	309	29	8·2	8·0	276	30	6·5	5·5	2
0·3 a.m.s.l.									29	6·2	1·5	089	30	4·8	2·0	314								
0·6 ,,									29	7·7	1·8	282	30	5·5	3·0	306	29	5·7	5·5	275	30	6·7	5·6	2
0·9 ,,									29	7·0	4·2	289	29	5·6	3·8	301	29	11·3	10·9	296	30	6·9	6·1	2
1·5 ,,	29	7·3	7·3	269	27	10·1	9·9	271	26	6·7	5·6	299	27	6·5	5·9	294	29	10·6	10·0	300	30	7·3	6·7	2
2·1 ,,	27	8·0	7·2	275	27	7·0	6·4	281	23	8·8	8·3	299	24	8·0	7·5	296	28	8·2	7·5	300	30	7·6	6·8	2
3·0 ,,	22	7·4	7·2	279	27	6·7	5·9	288	18	9·3	8·8	302	18	9·3	8·5	303	28	4·7	3·2	284	26	7·4	5·9	2
3·6 ,,	20	7·3	7·0	278	22	6·8	6·4	285	11	7·4	6·7	294	16	10·1	9·5	305	26	4·9	2·2	284	19	6·4	5·5	2
4·5 ,,	19	7·2	6·8	278	13	6·0	5·8	275	6	7·1	6·2	307	12	10·0	9·4	307	21	4·6	2·3	296	12	7·4	5·7	2
5·4 ,,	19	5·5	4·6	277	8	5·6	3·2	275	2	4·0	3·7	254	10	8·4	6·9	302	9	4·9	3·1	359	5	8·3	6·1	2
6·0 ,,	19	5·0	3·8	275	5	4·7	2·4	254	2	7·3	6·5	266	10	7·9	6·7	284	7	4·9	3·1	281	2	3·7	3·6	2
7·2 ,,	16	5·0	2·2	282					1	9·0	9·0	220	7	11·1	8·9	252	1	8·5	8·5	025	2	3·7	1·5	0
9·0 ,,	12	6·5	4·6	107									3	7·7	6·5	259	1	8·0	8·0	030				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884, Saka)

Station	BEGAMPET				BHAGALPUR												BHOPAL/BAIRAGARH							
Time in I. S. T.	2330				0530				1130				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	4·1	3·5	256	30	1·5	1·0	087	15	2·1	1·9	072	30	2·2	1·7	082	30	6·1	5·8	277	30	5·1	4·1	271
0·15 a. g. . . .	29	8·5	7·7	257	29	4·5	2·8	110	15	4·1	3·6	077	29	4·7	2·7	092	30	10·5	10·2	269	30	7·0	6·2	271
0·3 a. m. s. l. . .					29	4·7	2·7	130	15	4·5	4·0	080	29	4·7	2·8	087								
0·6 „ . .	29	6·3	5·8	257	29	4·5	1·7	169	15	4·8	4·1	082	29	4·8	2·3	096	30	9·1	8·9	270	29	6·6	5·8	270
0·9 „ . .	29	9·5	9·0	266	29	5·2	1·1	200	15	4·7	3·7	084	29	4·9	1·1	120	30	13·3	12·9	281	29	7·8	6·8	275
1·5 „ . .	29	10·2	9·7	275	27	5·9	1·4	286	10	5·1	1·2	013	29	5·8	2·1	272	30	12·1	11·4	290	29	7·9	7·2	277
2·1 „ .	29	9·3	8·8	289	26	6·1	2·8	294	9	6·7	2·2	305	28	6·9	4·5	291	28	6·7	4·4	298	27	7·7	6·9	279
3·0 „ . .	24	6·5	5·4	305	23	5·9	3·5	230	4	5·1	3·1	289	25	7·7	6·0	295	17	4·9	1·4	297	19	6·7	4·9	275
3·6 „ . .	13	6·0	4·9	308	16	4·8	2·0	330					20	7·1	5·8	295	9	4·1	0·6	207	7	5·6	2·7	297
4·5 „ . .	3	2·8	1·0	010	12	4·5	0·4	247					13	5·4	2·9	298	3	4·5	1·7	097	3	7·8	4·5	315
5·4 „ . .	1	3·0	3·0	130	10	3·3	0·8	142					12	5·0	0·9	303	2	8·5	6·3	356	1	5·0	5·0	335
6·0 „ . .	1	3·0	3·0	145	8	3·3	1·9	158					9	4·8	0·4	022	1	3·0	3·0	030	1	3·5	3·5	295
7·2 „ . .					8	5·5	4·4	135					5	3·7	3·1	110								
9·0 „ . .					5	3·9	2·9	111					2	4·5	3·7	095								

Station	BHOPAL/ BAIRAGARH				BHUBANESHWAR																BHUJ/ RUDRAMATA			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	4·9	3·9	265	30	1·9	0·9	253	15	3·6	1·6	202	30	4·3	3·6	205	30	3·9	2·5	242	30	4·7	4·5	229
0·15 a. g. . . .	30	10·2	8·8	265	26	5·9	3·3	265	14	5·0	2·8	233	27	6·0	5·4	207	27	7·4	5·7	231	30	8·6	8·4	237
0·3 a. m. s. l. . .					25	6·5	4·8	271	14	4·7	2·9	254	27	6·0	5·1	233	27	7·8	6·1	242	30	9·7	9·5	238
0·6 „ . .	30	8·8	7·4	259	25	7·4	5·7	279	14	5·5	3·8	278	27	6·6	4·9	248	27	8·0	5·9	256	29	12·8	12·5	245
0·9 „ . .	30	11·1	10·0	275	25	7·8	6·7	290	14	7·3	5·7	295	27	7·0	5·4	279	27	7·9	5·6	275	25	12·6	12·1	252
1·5 „ . .	30	10·9	10·0	279	21	6·9	5·7	302	13	8·4	7·4	302	24	7·2	5·9	313	26	6·5	4·4	308	18	9·8	8·4	252
2·1 „ . .	29	7·6	5·8	287	19	6·6	5·1	298	6	4·9	3·6	316	21	6·9	5·0	311	18	6·5	3·7	316	13	6·0	3·9	270
3·0 „ . .	18	5·4	2·5	307	16	5·3	2·8	302	1	10·0	10·0	330	14	5·7	3·0	335	12	5·7	1·4	303	6	5·5	3·5	355
3·6 „ . .	5	4·7	3·7	310	11	5·2	2·0	312					9	5·1	0·5	347	2	3·0	1·9	175	5	6·8	6·0	329
4·5 „ . .					6	4·6	2·6	280					6	5·0	3·5	030	1	2·0	2·0	295	2	10·0	9·7	043
5·4 „ . .					3	3·6	1·2	027					4	4·0	3·6	344	1	2·0	2·0	295	2	6·0	6·0	023
6·0 „ . .					2	3·2	0·8	050					2	4·0	3·3	355					2	4·3	3·1	006
7·2 „ . .													1	1·0	1·0	300					2	3·5	3·5	275
9·0 „ . .																					1	9·0	9·0	215

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	BHUJ/RUDRAMATA								BIKANER												BOMBAY/ SANTACRUZ		
Time in I. S. T.	1730				2330				0530				1730				2330				0530*		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface . . .	30	7·6	7·3	238	30	6·3	6·1	229	30	2·7	2·4	225	30	2·4	1·9	230	30	1·6	1·3	218	30	3·5	2·7
0·15 a.g. . . .	30	10·9	10·8	238	30	9·6	9·5	235	30	10·2	9·3	232	30	7·3	5·6	232	30	10·8	9·2	224	30	5·5	4·5
0·3 a. m. s. l. . .	30	10·9	10·7	238	30	10·1	9·9	234	30	7·7	7·2	228	30	6·3	4·9	224	30	7·5	5·8	218	30	5·7	5·1
0·6 „ . .	30	10·8	10·6	243	30	12·3	12·0	240	30	12·9	9·3	230	30	7·9	6·3	235	30	12·4	10·8	228	30	6·2	5·8
0·9 „ . .	30	11·6	11·3	246	29	12·0	11·6	247	30	13·7	12·7	239	30	8·4	7·0	240	29	12·2	11·2	235	30	6·8	6·3
1·5 „ . .	22	10·8	9·9	259	23	7·7	6·6	246	28	10·3	8·6	245	26	7·4	6·1	238	20	7·0	5·8	245	29	6·6	6·3
2·1 „ . .	13	8·6	5·8	292	18	5·3	3·3	255	20	5·5	2·3	260	20	6·3	5·3	238	14	4·7	2·9	254	29	6·5	5·4
3·0 „ . .	11	8·1	4·2	297	11	5·3	1·7	311	14	5·3	1·5	113	12	5·0	2·5	269	13	4·9	1·1	260	29	6·5	4·5
3·6 „ . .	9	7·2	4·0	323	4	6·4	5·9	035	12	5·7	2·5	105	12	4·4	1·9	297	2	3·0	1·3	156	29	6·2	3·3
4·5 „ . .	9	8·7	6·1	351	3	9·2	9·0	043	8	5·2	2·9	012	10	3·9	2·3	311					29	5·6	2·5
5·4 „ . .	9	8·3	6·2	352	1	5·5	5·4	030	3	8·2	7·9	020	10	7·3	5·1	280					28	5·8	2·6
6·0 „ . .	8	9·9	6·5	343					1	5·5	5·5	225	8	8·1	4·3	290					28	5·4	2·3
7·2 „ . .	6	8·3	6·7	323									4	8·6	5·5	333					28	5·3	0·8
9·0 „ . .	4	5·0	3·0	277																	28	7·0	5·9

Station	BOMBAY/SANTACRUZ												CALCUTTA/DUM DUM										
Time in I. S. T. . .	1130				1730*				2330				0530*				1130				1730*		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface . . .	30	4·5	4·1	240	30	5·4	5·0	260	30	4·4	3·8	233	30	1·3	0·7	173	30	1·9	1·1	176	28	1·4	1·2
0·15 a. g. . . .	30	5·9	5·5	241	30	6·7	6·2	251	30	6·4	5·8	232	30	5·5	2·3	207	29	4·1	2·1	179	28	5·5	3·6
0·3 a. m. s. l. . .	30	6·5	6·1	245	30	6·9	6·5	251	30	6·8	6·5	234	30	5·5	2·3	213	29	4·5	2·2	190	28	5·5	3·3
0·6 „ . .	29	7·1	6·6	249	30	7·2	6·9	252	30	7·5	7·3	241	30	5·9	2·5	230	28	5·0	2·2	214	28	5·6	3·6
0·9 „ . .	27	7·0	6·5	250	30	7·1	6·8	255	27	7·6	7·3	243	30	5·9	2·7	254	26	5·7	2·0	253	28	5·8	3·0
1·5 „ . .	15	6·5	6·1	249	29	6·5	5·8	251	20	6·5	6·2	246	30	6·5	2·6	274	20	7·1	3·7	290	28	5·5	1·5
2·1 „ . .	10	7·5	7·3	247	29	5·5	4·7	260	16	5·5	4·5	255	30	6·5	2·4	294	12	8·5	5·2	312	28	5·5	1·6
3·0 „ . .	7	5·6	5·1	245	28	5·9	4·3	288	12	5·1	3·0	296	30	7·2	2·2	329	5	10·4	6·6	309	28	6·3	1·2
3·6 „ . .	5	6·2	3·5	227	28	6·0	4·0	299	6	4·6	1·4	235	30	7·5	2·1	331	3	9·2	5·3	010	28	6·5	1·9
4·5 „ . .	3	7·2	7·0	231	28	5·7	3·2	279	4	5·2	2·4	108	30	7·2	1·5	327					27	6·6	1·2
5·4 „ . .	2	11·0	11·0	247	28	5·7	2·3	275					30	6·9	1·1	322					27	6·9	0·8
6·0 „ . .	2	9·3	8·9	252	28	5·6	2·8	272					29	6·6	1·7	090					27	7·5	0·9
7·2 „ . .	2	6·7	5·7	291	27	5·2	1·3	070					29	6·9	1·7	147					26	7·3	1·1
9·0 „ . .	2	9·7	5·1	003	27	7·0	5·9	080					21	8·0	6·1	117					24	7·4	4·5

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	CALCUTTA/DUM DUM				COCHIN/WILLINGDON												DARJEELING							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	1·6	1·1	185	30	1·5	0·5	356	30	2·7	2·4	291	30	1·3	0·9	320	30	CALM			30	0·3	0·1	208
0·15 a. g. . . .	29	6·5	4·7	192	28	2·9	0·7	074	30	4·3	4·1	295	28	3·1	1·9	298	7	3·0	0·8	132	4	2·6	1·4	098
0·3 a. m. s. l. . .	29	7·0	5·0	203	28	3·6	1·6	295	30	4·9	4·6	292	28	3·6	2·9	301								
0·6 ,, . .	29	7·0	4·8	211	28	5·1	4·3	286	30	6·2	5·9	296	28	5·2	4·8	296								
0·9 ,, .	29	6·8	3·5	222	28	6·2	5·5	287	30	7·0	6·7	297	27	5·9	5·5	293								
1·5 ,, . .	26	6·2	1·9	274	27	7·3	6·9	284	29	7·3	6·9	294	23	6·6	6·2	293								
2·1 ,, . .	22	7·0	2·8	297	24	7·9	7·4	283	27	7·0	6·4	292	16	7·1	7·0	286								
3·0 ,, . .	15	5·5	1·3	317	17	6·3	5·3	290	17	6·1	5·5	289	10	6·8	5·9	286	7	3·6	2·2	080	4	3·9	3·4	095
3·6 ,, . .	7	5·9	2·8	034	13	4·9	3·2	290	12	5·5	4·7	281	3	3·8	2·8	281	5	3·3	1·2	076	4	4·7	4·6	108
4·5 ,, . .	3	3·3	2·9	336	7	3·8	1·9	222	2	2·3	2·2	270	1	2·0	2·0	180	4	0·9	0·6	032	1	4·0	4·0	180
5·4 ,, . .	2	3·3	1·0	135	4	5·0	4·1	250	1	3·0	3·0	220					3	2·7	2·5	232	1	4·5	4·5	190
6·0 ,, . .					1	2·0	2·0	095									3	2·8	2·6	227	1	6·0	6·0	185
7·2 ,, . .																	3	2·2	1·7	198	1	5·0	5·0	195
9·0 ,, . .																	1	6·0	6·0	215	1	6·5	6·5	230

Station	DEHRA DUN								DIBRUGARH/MOHANBARI															
Time in I.S.T.	0530				1730				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	0·7	0·4	048	30	1·2	0·3	268	30	0·8	0·5	070	30	1·0	0·7	042	30	1·1	0·9	058	30	1·1	0·8	053
0·15 a. g. . . .	30	2·7	1·5	070	29	2·2	2·1	273	20	4·5	0·3	060	24	2·4	1·3	047	24	2·9	1·3	064	20	4·7	3·0	060
0·3 a. m. s. l. . .									20	4·8	3·3	061	24	2·4	1·3	050	24	3·1	1·4	071	20	4·9	3·0	067
0·6 ,, . .									20	4·6	2·3	079	23	2·1	0·5	066	22	3·3	1·4	093	20	4·4	2·7	067
0·9 ,, . .	30	2·7	1·3	099	29	4·1	2·3	274	19	4·3	0·9	067	23	2·7	0·8	219	22	2·8	1·3	124	19	3·8	1·0	089
·5 ,, . .	30	3·5	1·1	253	29	4·6	4·0	275	15	4·4	2·1	223	17	4·1	2·1	190	18	3·5	2·1	212	16	3·0	0·9	179
·1 ,, . .	27	4·8	1·4	331	26	5·6	5·3	287	13	5·3	2·3	178	11	4·7	3·5	194	18	4·9	3·8	205	15	2·9	1·9	215
·0 ,, . .	22	6·6	5·6	302	23	7·7	7·3	292	10	3·3	2·0	127	9	4·2	2·2	183	15	4·7	3·4	186	10	3·2	2·5	206
·6 ,, . .	18	6·1	4·6	305	22	8·0	7·2	3·4	7	2·8	1·7	167	4	3·0	2·4	130	13	4·4	3·3	188	3	4·0	2·9	226
·5 ,, . .	14	6·5	4·7	308	19	5·6	3·6	318	1	4·5	4·5	250	4	2·5	1·4	195	11	4·7	3·4	209				
·4 ,, . .	4	3·9	2·6	211	16	6·3	3·5	270	1	7·0	7·0	225	2	3·2	3·1	231	9	6·2	5·7	240				
0 ,, . .	2	6·3	5·3	237	16	9·3	6·7	271	1	7·5	7·5	240	2	5·2	5·2	229	7	6·4	5·9	243				
2 ,, . .	1	18·0	18·0	240	9	14·2	5·7	269	1	5·5	5·5	230					5	7·1	6·7	249				
·0 ,, . .					2	31·0	31·0	268									3	7·3	3·3	311				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	GADAG												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	4·0	3·8	260	30	4·8	4·5	262	30	5·1	4·8	259	30	0·8	0·7	049	30	2·3	1·6	020	30	0·9	0·3	10
0·15 a. g. . . .	29	9·3	8·8	255	25	10·7	10·4	257	29	10·8	10·7	254	29	3·1	2·1	066	29	3·9	2·9	045	30	2·9	0·8	07
0·3 a. m. s. l. . .													29	3·1	2·1	069	29	4·1	2·9	052	30	3·0	0·7	06
0·6 ,, . .													29	4·4	2·8	070	27	3·9	1·8	057	30	3·5	0·5	09
0·9 ,, . .	28	11·6	11·2	268	25	10·7	10·5	261	29	12·4	12·1	263	29	4·6	2·0	096	23	5·0	0·9	124	30	4·1	0·4	19
1·5 ,, . .	23	12·9	12·5	280	25	9·8	9·4	272	28	13.5	13·0	284	29	6·1	2·7	178	19	7·0	0·8	123	30	5·5	2·0	18
2·1 ,, . .	23	7·5	6·7	289	20	8·0	7·2	282	24	7·2	5·9	291	29	6·7	2·4	196	14	6·4	3·1	100	30	6·5	2·0	20
3·0 ,, . .	21	4·6	2·3	286	15	5·2	4·4	299	20	4·3	1·2	291	29	6·3	1·8	232	10	7·3	3·5	089	30	6·9	2·0	23
3·6 ,, . .	16	4·6	2·5	279	10	4·1	2·8	280	14	4·8	1·2	323	29	5·4	1·5	239	6	5·9	1·0	324	30	6·7	2·2	22
4·5 ,, . .	11	4·6	3·0	273	9	6·6	3·8	261	7	5·2	3·0	290	29	5·9	2·9	240	3	9·0	4·9	288	29	6·3	2·8	24
5·4 ,, . .	7	5·0	4·1	278	3	6·0	5·2	284	6	6·2	3·7	279	29	5·7	3·6	234	1	14·0	14·0	265	29	6·1	3·4	24
6·0 ,, . .	6	5·8	3·9	270	2	6·5	6·5	262	2	7·3	3·9	303	28	5·6	3·1	240					29	6·1	3·7	23
7·2 ,, . .													27	6·0	2·8	239					29	5·8	2·9	23
9·0 ,, . .													20	5·5	2·6	209					23	5·4	3·0	23

Station	GAUHATI				GAYA																GOPALPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	1·3	0·4	048	30	1·3	0·6	172	15	1·4	0·4	077	30	3·2	0·7	102	30	2·2	1·5	126	30	2·4	1·9	2
0·15 a. g. . . .	29	3·2	0·7	060	30	5·0	2·9	205	15	2·7	1·0	049	28	5·6	0·7	032	30	5·9	2·8	148	28	6·0	5·1	2
0·3 a. m. s. l. . .	29	3·2	0·7	043	30	5·1	3·2	215	15	2·7	0·8	065	28	5·7	0·9	038	30	6·1	2·8	155	28	5·7	4·5	2
0·6 ,, . .	29	3·5	1·0	049	30	5·8	4·0	257	15	3·4	0·7	031	28	5·2	1·3	335	30	6·3	2·4	169	28	5·2	4·1	2
0·9 ,, . .	26	3·8	0·7	087	29	6·8	4·9	277	15	4·2	0·8	322	28	5·6	2·0	320	30	6·1	1·6	206	27	6·5	5·8	2
1·5 ,, . .	22	5·2	0·9	150	28	7·7	5·7	295	13	6·4	1·2	347	28	5·7	3·5	303	30	6·9	3·5	290	26	8·0	7·3	2
2·1 ,, . .	16	5·1	0·7	125	26	8·4	6·9	313	9	8·4	5·5	319	25	12·2	9·8	302	25	7·9	6·4	304	20	6·8	5·1	3
3·0 ,, . .	12	5·7	0·3	205	20	8·1	6·9	337	2	3·7	1·2	060	17	6·7	5·3	310	13	7·4	6·6	320	15	5·7	3·3	3
3·6 ,, . .	7	4·5	0·9	220	13	8·7	7·0	337					11	5·7	4·9	298	3	11·7	11·5	310	10	4·7	1·3	3
4·5 ,, . .	3	6·5	1·0	224	5	2·8	1·5	087					6	6·3	5·8	295					5	2·8	1·3	0
5·4 ,, . .	2	6·7	6·0	246	3	4·5	4·4	088					2	9·3	8·8	245					3	3·3	1·7	3
6·0 ,, . .	1	3·5	3·5	225	2	4·0	3·9	100					2	7·5	5·5	237					3	4·3	1·9	0
7·2 ,, . .	1	4·5	4·5	255	2	6·0	5·6	127					2	5·7	4·9	258					1	7·0	7·0	1
9·0 ,, . .	1	1·5	1·5	205																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time I.S.T.	1730				2330				0530				1730				0530				1130			
Ht. in Km.	n	v	v	D	n	v	v	D	n	v	v	D	n	v	v	D	n	V	v	D	n	V	v	D
Surface	30	4·6	3·9	213	30	3·8	2·1	237	30	1·5	1·1	064	30	1·3	0·6	948	30	3·5	3·0	272	30	3·9	3·6	282
0·15 a. g.	28	8·4	7·2	211	30	7·3	4·9	259	28	6·4	4·8	085	30	4·1	1·6	056	30	8·1	6·5	279	30	5·9	5·1	284
0·3 a. m. s. l. . . .	28	7·6	5·9	217	30	6·5	4·7	265	28	7·4	5·2	095	30	4·3	1·9	064	30	6·7	5·3	279	30	5·3	4·4	287
0·6 „	28	5·8	3·7	242	30	5·7	4·5	275	27	7·2	3·2	127	30	4·3	1·0	075	30	10·5	9·1	288	30	6·9	6·1	286
0·9 „	28	6·0	3·9	280	29	6·6	5·1	284	27	6·9	1·6	190	29	4·5	0·8	314	30	10·9	10·0	290	30	7·4	6·8	286
1·5 „	28	7·1	6·0	313	28	6·3	4·7	307	27	7·4	4·4	295	28	6·7	5·3	289	29	8·8	8·1	295	30	6·8	6·0	295
2·1 „	28	6·5	5·5	322	26	5·6	3·4	308	24	8·0	6·5	298	27	9·0	8·6	295	28	6·2	5·0	311	26	5·8	4·5	298
3·0 „	18	5·3	3·2	305	16	5·0	1·2	278	18	10·3	8·3	300	24	10·0	9·6	295	26	5·0	3·7	316	24	5·4	3·6	273
3·6 „	12	5·7	2·3	302	2	3·0	2·3	207	14	10·1	8·1	318	23	9·1	8·6	295	25	5·3	3·7	308	21	5·7	3·9	273
4·5 „	8	5·7	1·8	319					9	5·0	3·9	306	22	7·4	6·8	294	16	5·7	3·8	256	19	6·2	4·7	266
5·4 „	5	4·8	3·6	093					7	5·2	3·7	245	18	5·8	4·2	275	15	6·4	4·4	269	17	7·0	5·5	258
6·0 „	4	5·6	5·0	073					6	6·3	5·3	248	17	6·1	4·3	269	15	7·0	4·9	261	16	7·4	5·8	246
7·2 „	2	6·3	5·9	090					2	5·7	5·4	239	13	5·2	4·1	265	14	8·0	6·0	259	15	7·8	5·9	235
9·0 „	1	11·0	11·0	115									9	5·3	2·2	295	12	7·6	4·6	243	10	7·9	4·6	263

Station	GWALIOR								IMPHAL/TULIHAL															
Time I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	D	D	n	V	v	D
Surface	30	3·3	1·5	297	30	3·0	2·2	240	30	0·7	0·4	076	30	2·0	0·8	183	30	2·4	0·4	272	30	1·1	0·4	140
0·15 a.g.	29	5·9	3·1	291	30	6·5	4·1	246	27	2·0	0·9	080	26	2·5	1·0	190	17	3·9	1·1	189	25	2·2	0·6	187
0·3 a.m.s.l. . . .	29	5·4	2·9	295	30	5·6	3·5	242																
0·6 „	29	6·1	3·3	299	30	8·0	5·4	258																
0·9 „	29	6·3	3·8	298	30	7·7	5·6	268	27	1·9	1·1	077	26	2·4	0·9	190	27	3·7	0·8	212	25	2·2	0·5	150
1·5 „	29	5·9	4·6	293	28	6·0	5·0	281	26	3·9	1·7	191	25	3·8	2·4	195	27	4·7	2·5	203	24	4·3	1·7	218
2·1 „	27	6·6	5·5	291	25	5·3	4·6	295	17	6·1	3·9	236	21	6·1	2·8	199	23	6·2	3·0	206	17	6·4	2·3	209
3·0 „	25	6·8	5·6	285	21	4·9	3·5	316	9	5·2	2·9	236	4	5·7	1·8	170	7	6·1	3·4	270	7	6·5	3·9	150
3·6 „	21	6·1	4·8	276	10	4·7	2·5	319	5	5·0	2·4	212	3	5·2	4·1	149	3	7·0	4·1	242	2	5·5	5·5	142
4·5 „	18	7·7	5·9	290					1	3·5	3·5	115	1	5·0	5·0	130								
5·4 „	15	9.2	7·3	281																				
6·0 „	11	10·2	7·2	276																				
7·2 „	9	8·2	5·3	277																				
9·0 „	8	10·3	5·9	277																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	JABALPUR												JAGDALPUR											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·8	1·5	247	30	2·4	1·4	262	30	1·7	1·2	219	30	1·0	0·7	220	30	2·2	1·4	254	30	0·8	0·6	1
0·15 a.g.	30	8·1	7·3	246	30	6·4	3·7	273	30	7·4	5·3	237	27	5·8	4·9	234	27	5·0	3·6	262	25	5·4	4·3	2
0.3 a. m. s.l.																								
0·6 „	30	9·1	8·4	254	30	6·8	4·2	275	30	7·7	5·5	240	27	2·8	2·4	232	27	3·7	2·6	263	25	3·6	2·8	2
0·9 „	30	11·6	11·3	280	30	7·0	5·0	279	30	8·6	6·7	261	26	7·7	6·7	259	27	5·7	4·7	267	25	6·7	5·2	2
1·5 „	30	11·6	10·9	300	29	7·2	6·0	293	30	8·6	7·4	282	24	9·0	8·5	284	25	6·2	5·4	285	24	7·2	6·2	2
2·1 „	29	8·7	7·5	312	26	6·7	6·0	297	30	7·4	6·2	302	20	6·7	6·1	298	22	6·6	5·5	304	22	7·2	6·6	2
3·0 „	15	5·7	4·2	318	16	6·5	5·4	313	21	5·5	3·5	330	20	4·9	4·1	323	20	7·9	6·4	322	18	4·9	3·5	3
3·6 „	11	4·7	1·7	348	12	5·8	4·3	318	10	5·5	2·7	336	17	4·1	2·6	320	17	6·4	4·9	315	2	6·0	0·3	1
4·5 „	7	4·0	2·1	213	8	4·7	3·2	311	2	4·5	3·7	295	9	3·9	1·0	125	8	6·3	5·4	300				
5·4 „	3	4·2	1·9	188	4	7·9	5·3	288					6	4·2	0·2	111	1	3·5	3·5	130				
6·0 „	1	4·5	4·5	125	3	7·3	6·9	268					6	4·0	1·6	107	1	2·0	2·0	115				
7·2 „					1	10·5	10·5	305																
9·0 „																								

Station	JAIPUR												JAMSHEDPUR											
Time in I.S.T.	0530				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·0	2·4	288	30	3·7	2·8	275	30	2·3	1·9	272	30	1·5	0·9	242	15	1·6	0·6	206	30	2·8	1·6	1
0·15 a.g.	30	8·6	7·5	271	29	6·6	4·7	257	30	9·6	8·3	266	30	4·4	3·1	251	15	3·0	0·8	233	25	5·4	0·6	2
0·3 a.m. s. l.													30	4·6	3·4	252	15	2·9	0·7	222	25	5·5	0·9	2
0·6 „	30	9·5	8·2	271	29	6·9	4·8	260	30	10·1	8·7	265	30	6·4	5·4	267	15	3·4	0·9	296	25	5·7	1·3	2
0·9 „	29	12·0	11·0	274	29	6·3	5·0	262	29	10·7	9·5	267	30	7·3	5·9	277	15	4·3	2·2	331	24	5·3	2·0	3
1·5 „	26	10·4	9·7	276	27	6·5	5·4	261	29	9·0	8·1	269	28	7·8	5·6	303	14	7·2	5·3	331	24	5·9	3·8	3
2·1 „	18	7·6	6·0	261	25	6·1	4·8	264	26	6·8	5·3	265	24	7·9	5·4	322	11	6·4	4·5	306	17	6·9	5·1	3
3·0 „	11	4·7	0·3	197	19	5·3	2·7	283	20	5·0	1·8	300	20	7·6	4·9	336	3	3·8	3·0	228	9	6·3	4·1	3
3·6 „	8	5·9	0·9	219	18	5·1	2·9	299	16	4·7	1·0	028	17	6·6	4·2	353					5	5·9	5·5	2
4·5 „	2	4·7	4·7	158	18	6·3	3·6	310	5	5·7	2·4	307	9	4·9	2·5	337					5	8·3	7·1	2
5·4 „	1	1·5	1·5	135	14	6·5	4·9	276	1	6·0	6·0	220	2	2·0	1·2	072					2	9·5	9·3	2
6·0 „					10	7·3	5·8	284					2	3·8	1·5	115					1	9·5	9·5	2
7·2 „					6	6·8	5·4	317					1	7·0	7·0	070								
9·0 „					5	6·6	5·5	338																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	JHARSUGUDA												JODHPUR											
Time in I.S T	0530				1730				2330				0530*				1130				1730*			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	1·4	0·9	230	30	2·4	1·5	239	30	2·0	1·1	197	30	4·6	4·4	237	30	6·0	5·9	227	30	6·0	4·0	225
0·15 a. g. . .	28	4·6	3·2	240	27	5·3	3·1	229	21	6·1	4·3	210	30	9·7	9·5	234	30	8·2	8·1	231	30	8·3	5·9	235
0·3 a. m. s. l. . .	28	3·6	2·5	238	27	5·0	3·4	235	21	4·9	3·1	199	30	7·2	6·9	236	30	7·4	7·3	233	30	7·7	5·4	231
0·6 ,, . .	28	7·5	6·6	276	26	5·5	3·9	256	21	7·3	5·9	239	30	10·5	9·5	233	30	8·5	8·4	230	30	8·0	6·1	224
0·9 ,, . .	28	9·2	8·4	281	26	5·8	4·5	265	21	8·0	6·1	259	30	10·9	10·6	230	30	8·8	8·6	231	30	8·2	6·5	219
1·5 ,, . .	25	9·1	8·4	295	24	6·2	4·9	295	18	7·7	5·9	344	30	10·9	8·9	235	20	7·7	6·9	241	30	8·0	6·8	220
2·1 ,, . .	22	8·3	7·2	311	20	6·6	5·6	317	11	5·2	3·0	327	30	8·5	6·4	230	15	5·2	2·9	217	30	6·4	5·9	219
3·0 ,, . .	9	6·2	5·2	303	12	6·0	4·3	309	6	8·6	6·1	010	29	5·5	1·1	285	13	4·2	1·6	146	30	4·7	2·7	243
3·6 ,, . .	3	6·3	3·8	347	6	3·7	3·1	352	1	4·5	4·5	335	29	5·2	1·5	021	12	5·4	2·3	122	29	4·9	1·9	250
4·5 ,, . .					2	5·5	5·5	289					28	6·3	3·1	001	8	7·5	3·7	091	27	5·2	1·2	341
5·4 ,, . .													27	7·2	1·2	310	6	6·1	3·8	054	26	8·0	2·3	255
6·0 ,, . .													27	7·2	2·6	255	5	5·4	1·8	036	24	6·6	3·1	275
7·2 ,, . .													24	8·5	4·0	258	5	8·6	2·9	275	24	7·2	4·1	274
9·0 ,, . .													13	10·7	6·1	266	3	8·3	5·0	258	14	8·6	4·0	266

Station	JODHPUR				LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I.S.T.	2330				0530				1730				2230				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	4·0	3·5	217	30	2·1	0·6	081	30	3·0	1·1	320	30	1·8	0·1	094	30	3·7	3·1	258	30	4·8	4·6	269
0·15 a. g. . .	30	9·7	8·8	219	28	7·4	1·1	076	30	4·9	2·1	308	28	6·8	0·5	170	30	9·1	8·1	253	30	6·5	6·3	275
0·3 a. m. s. l. . .	30	7·7	5·0	205	28	7·8	0·2	260	30	5·3	2·4	306	28	7·0	0·8	183	30	9·7	8·9	254	30	6·6	6·4	274
0·6 ,, . .	30	11·0	10·2	227	28	8·1	2·9	276	30	6·4	3·6	302	29	6·5	2·0	265	30	10·5	9·7	261	30	7·5	7·2	283
0·9 ,, . .	30	11·3	10·3	232	27	8·2	4·6	274	30	6·5	5·1	299	29	6·0	3·0	276	30	10·4	9·7	267	30	8·6	8·1	286
1·5 ,, . .	28	9·0	8·4	239	26	7·8	6·4	287	26	6·5	5·8	300	28	6·5	6·2	286	30	8·5	8·1	273	30	7·9	7·4	258
2·1 ,, . .	21	6·5	5·2	246	24	9·1	8·4	297	23	8·0	7·5	300	23	8·1	7·1	287	30	7·0	5·6	277	27	7·4	7·1	276
3·0 ,, . .	12	4·5	1·6	318	19	9·3	8·6	312	16	9·6	9·2	307	14	8·0	7·3	300	30	6·7	5·3	283	24	7·4	6·9	268
3·6 ,, . .	7	5·0	3·2	340	10	8·5	7·9	306	15	10·2	9·6	308	5	9·8	6·4	334	30	7·1	6·0	277	22	7·3	6·9	268
4·5 ,, . .	3	4·0	4·0	026	4	9·7	9·0	315	10	7·8	7·3	310	1	8·0	8·0	280	30	6·7	5·9	267	19	7·9	7·2	091
5·4 ,, . .					2	4·3	3·6	271	6	6·5	6·0	287	1	14·0	14·0	240	30	5·9	5·0	265	16	6·8	5·2	283
6·0 ,, . .					2	5·3	4·7	223	4	5·3	5·1	282	1	11·5	11·5	230	29	5·6	4·2	262	15	6·0	3·4	277
7·2 ,, . .					1	12·5	12·5	235	3	5·3	5·3	244					29	5·5	2·2	295	11	5·7	2·2	246
9·0 ,, . .					1	11·0	11·0	240	1	10·0	10·0	225					26	6·8	4·1	078	7	5·4	2·7	098

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY		
Time in I.S.T.	1730*				2330				0530				1730				2330				0530		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface . . .	30	3·3	1·8	158	30	4·0	3·1	186	30	1·7	1·1	097	30	3·3	2·7	274	30	1·9	0·2	005	30	3·1	2·8
0·15 a. g. . .	29	5·9	2·9	171	29	7·5	6·0	193	29	3·9	1·0	196	29	5·9	5·1	265	29	4·4	2·6	277	29	7·0	6·4
0·3 a. m. s. l. . .	29	5·4	2·6	185	29	8·4	6·4	205	29	4·0	1·6	236	29	6·3	5·5	269	29	4·7	3·5	277	29	6·5	6·1
0·6 ,, . .	29	4·5	2·7	235	29	7·7	6·1	226	29	5·7	4·3	266	29	6·7	5·9	273	29	6·5	5·5	278	29	7·3	6·8
0·9 ,, . .	30	5·6	4·5	260	29	6·7	5·9	246	27	6·4	5·5	273	26	7·1	6·3	279	28	7·0	6·4	282	29	8·1	7·7
1·5 ,, . .	30	8·1	7·6	271	28	7·0	6·4	263	22	7·0	6·1	280	19	6·5	5·7	285	26	7·6	6·9	284	29	8·1	7·7
2·1 ,, . .	30	8·7	8·2	269	27	7·8	7·4	278	20	7·3	6·4	279	9	6·2	5·6	280	21	7·2	6·5	287	28	8·0	7·5
3·0 ,, . .	30	8·0	6·8	274	24	7·2	6·7	291	16	6·8	5·5	293	5	5·3	4·1	267	9	6·8	5·5	275	23	8·1	7·5
3·6 ,, . .	30	8·3	7·4	275	15	5·2	4·5	305	8	6·6	4·8	281	3	2·5	1·9	269	6	4·7	3·9	242	13	7·7	6·6
4·5 ,, . .	30	8·0	7·5	274	10	5·1	4·1	297	7	6·4	5·3	267	2	5·0	5·0	265	3	2·8	2·1	236	8	7·4	5·9
5·4 ,, . .	30	6·8	6·1	275	4	4·9	3·7	319	2	3·5	3·1	296	2	4·7	4·7	231	1	2·5	2·5	120	3	5·5	3·4
6·0 ,, . .	30	5·6	4·1	282	4	6·0	5·5	313	2	4·5	3·8	277	1	2·0	2·0	210	1	2·5	2·5	360	2	4·0	3·0
7·2 ,, . .	29	5·0	2·1	262					2	2·7	2·0	262											
9·0 ,, . .	24	6·2	2·3	081					2	2·0	1·8	090											

Station	MINICOY								NAGPUR/SONEGAON														
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface . . .	30	4·5	3·9	290	30	3·8	3·3	292	29	2·2	2·0	273	30	4·1	3·7	291	30	4·5	2·7	265	30	2·1	1·5
0·15 a. g. . .	29	7·5	7·1	285	29	6·3	5·9	282	29	7·7	6·2	278	30	5·7	5·2	290	30	6·7	3·9	282	29	6·9	4·4
0·3 a. m. s. l. . .	29	7·6	7·3	285	29	6·7	6·0	283															
0·6 ,, . .	29	8·3	8·0	288	29	6·7	6·4	288	29	8·2	6·7	282	30	5·6	5·1	294	30	6·5	3·9	277	29	7·0	4·9
0·9 ,, . .	29	8·8	8·4	292	29	7·3	7·1	290	29	8·8	8·3	300	30	6·0	5·6	300	30	5·9	3·9	272	29	6·5	4·5
1·5 ,, . .	29	9·2	8·8	292	28	7·5	7·2	286	29	7·7	7·2	312	30	6·4	5·2	307	30	5·3	3·9	284	29	5·6	4·6
2·1 ,, . .	24	8·7	8·5	288	25	7·5	7·1	282	29	6·3	5·2	318	30	6·3	4·3	294	30	5·9	4·7	288	28	5·0	4·4
3·0 ,, . .	19	9·3	8·9	282	16	7·1	6·6	258	29	5·8	3·0	327	21	6·7	3·8	279	30	6·2	4·3	306	18	4·3	2·1
3·6 ,, . .	10	9·9	9·5	291	9	6·3	5·3	265	29	5·2	2·1	336	18	5·9	2·2	303	29	5·4	3·4	311	9	3·1	0·8
4·5 ,, . .	5	6·9	5·7	290	5	5·7	3·9	315	29	4·9	1·4	018	13	5·2	1·3	246	29	5·4	3·3	300	3	4·0	1·2
5·4 ,, . .	3	6·0	3·8	270	1	2·5	2·5	315	29	4·4	1·4	020	10	6·3	3·6	244	29	5·4	3·3	303	1	3·0	3·0
6·0 ,, . .	3	5·0	2·8	288	1	6·0	6·0	315	29	5·0	0·6	355	9	6·0	3·5	253	29	5·3	2·8	317			
7·2 ,, . .	1	6·0	6·0	075					29	5·4	1·3	096	8	5·2	0·7	009	29	5·4	1·8	018			
9·0 ,, . .									28	7·1	5·7	078	5	6·4	5·0	070	29	6·1	4·4	069			

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	NEW DELHI/SAFDARJUNG																POONA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
urface . . .	30	3·3	1·8	274	30	5·9	4·6	291	30	4·0	1·8	263	30	3·5	1·6	244	30	1·2	1·1	260	30	3·5	3·4	268
·15 a.g. . . .	30	12·2	6·3	271	29	6·6	4·9	291	30	8·4	4·9	277	30	9·5	4·3	274	30	6·0	5·9	258	30	8·5	8·3	263
·3 a.m.s.l. . .	30	4·8	3·1	268	29	6·4	4·6	294	30	4·5	1·9	265	30	6·9	3·1	275								
·6 ,, . .	30	13·6	6·9	277	29	6·7	4·9	289	30	9·1	5·2	282	30	10·3	5·3	282	30	3·2	3·1	261	30	5·8	5·6	269
·9 ,, . .	30	14·1	9·4	280	27	7·1	5·9	292	30	9·2	5·6	290	28	8·8	5·7	288	30	7·9	7·7	261	30	8·7	8·6	265
·5 ,, . .	30	10·1	7·6	293	25	8·4	7·7	299	30	8·6	5·5	297	22	8·3	6·4	298	27	10·6	9·1	272	30	8·7	8·6	268
·1 ,, . .	30	9·1	8·0	300	20	8·5	7·5	303	30	8·2	6·6	299	15	8·3	7·6	285	26	7·4	6·2	292	24	7·8	7·5	274
·0 ,, . .	30	7·7	6·7	309	18	10·3	8·4	308	29	8·0	7·4	295	11	7·6	7·2	290	23	4·9	2·8	229	12	4·2	2·8	267
·6 ,, . .	30	6·7	6·0	311	13	11·9	10·0	316	28	8·1	7·7	299	2	7·5	6·6	300	20	5·5	2·1	302	8	4·4	2·5	282
·5 ,, . .	30	7·5	6·0	312	10	8·5	6·8	298	28	9·1	8·3	306	1	5·0	5·0	290	13	5·0	1·6	299	8	5·8	3·6	265
·4 ,, . .	30	8·0	5·5	299	8	8·0	4·2	287	28	9·1	7·3	301					5	4·6	3·4	281	7	5·1	3·0	241
·0 ,, . .	30	7·0	3·9	286	6	8·2	4·7	284	28	10·1	6·8	288					4	3·1	0·3	341	7	5·0	2·3	200
·2 ,, . .	29	9·9	5·6	250					30	11·1	8·3	264					2	4·5	2·3	008	6	5·4	3·2	109
·0 ,, . .	27	12·0	8·9	260					29	13·3	10·8	260					2	6·5	5·3	044	4	8·9	8·5	091

tation	POONA				PORT BLAIR																RAIPUR			
ime in I.S.T.	2330				0530*				1130				1730*				2330				0530			
t. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
urface . . .	30	1·9	1·8	262	30	4·8	4·6	231	30	7·8	7·7	227	30	5·9	5·7	232	30	6·0	5·7	229	30	1·7	1·5	224
·15 a.g. . .	30	6·8	6·7	259	30	9·8	9·5	244	27	10·3	10·1	234	30	10·1	9·9	241	27	9·4	9·3	237	28	8·8	7·7	240
·3 a.m.s.l. . .					30	10·4	10·1	244	27	10·5	10·3	236	30	10·0	9·8	242	27	10·4	10·3	235				
·6 ,, . .	30	3·8	3·7	263	30	12·2	12·1	248	27	11·6	11·4	241	30	10·7	10·5	246	27	12·0	11·9	240	28	10·9	10·3	281
·9 ,, . .	30	8·0	7·9	259	30	13·4	13·1	250	20	12·9	12·7	244	30	12·8	12·7	250	26	12·6	12·5	246	28	11·0	10·5	270
·5 ,, . .	30	11·2	10·9	268	29	11·9	11·7	254	8	11·6	11·2	249	30	12·0	11·8	255	18	10·5	10·3	249	28	9·3	8·6	299
·1 ,, . .	28	7·7	6·9	276	29	10·5	10·2	256	3	11·8	11·3	243	30	11·2	10·8	259	7	6·6	6·0	252	24	7·7	6·7	314
·0 ,, . .	25	4·3	1·5	301	29	10·9	10·4	263					30	11·5	10·9	263	4	7·5	7·3	267	17	7·0	5·6	333
·6 ,, . .	19	4·5	1·7	285	27	9·4	9·0	263					30	11·2	9·6	262	1	2·5	2·5	325	9	6·3	4·2	338
·5 ,, . .	8	4·8	2·4	330	27	8·7	7·1	264					30	9·1	7·7	262	1	3·5	3·5	045	4	7·1	4·2	009
·4 ,, . .	3	3·3	1·0	234	27	8·1	5·5	261					30	8·9	6·7	249	1	7·5	7·5	070	2	3·7	3·0	098
0 ,, . .	3	1·8	0·5	203	27	7·7	4·2	250					29	8·0	4·2	246	1	7·0	7·0	055	2	4·5	3·9	116
2 ,, . .	2	4·5	4·5	099	25	6·8	1·8	205					28	7·9	2·6	217					1	7·0	7·0	125
0 ,, . .	1	11·5	11·5	100	22	7·5	5·4	090					24	9·0	6·0	088					1	4·0	4·0	150

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	RAIPUR								RAXAUL												SILIGURI/BAGH. DOGRA			
Time in I.S.T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	2·9	1·6	238	30	2·3	1·7	200	30	1·1	1·0	081	15	2·0	2·0	105	30	1·0	0·9	085	30	1·7	1·3	051
0·15 a.g. . . .	28	6·6	4·3	244	23	8·3	6·9	224	26	6·1	5·0	080	15	7·2	7·0	107	30	5·4	4·2	083	22	4·4	3·7	068
0·3 a.m.s.l. . .									26	7·1	5·9	092	15	6·7	6·6	110	30	5·3	4·1	082	22	4·4	3·9	082
0·6 ,, . .	28	7·4	5·6	258	23	9·4	7·9	235	26	7·2	5·8	110	14	6·8	6·7	107	30	5·3	3·6	093	22	4·6	4·1	084
0·9 ,, . .	28	7·3	6·0	266	23	9·0	7·9	247	23	6·7	5·1	120	12	6·0	6·0	112	30	4·6	2·3	111	21	4·3	3·9	085
1·5 ,, . .	26	7·2	6·3	275	23	7·8	7·1	276	20	5·2	1·8	150	10	4·4	1·7	123	30	5·9	1·7	237	18	4·4	2·9	090
2·1 ,, . .	23	7·3	5·8	294	20	7·0	6·2	300	20	6·5	2·1	283	5	6·7	5·5	283	27	8·4	3·1	280	13	6·3	1·4	118
3·0 ,, . .	14	8·6	6·7	310	13	6·8	4·5	320	15	7·4	3·0	306	3	7·3	5·0	295	19	6·6	3·9	286	9	7·4	1·5	034
3·6 ,, . . .	9	8·1	7·1	312	3	3·8	1·9	107	10	5·3	0·3	039					17	6·3	4·2	283	4	7·2	4·4	086
4·5 ,, . .	4	7·4	6·2	339	1	2·0	2·0	180	9	9·1	2·3	143					13	5·1	2·1	271	2	7·2	6·8	270
5·4 ,, . .	2	3·5	3·5	295	1	3·0	3·0	155	5	5·0	2·6	179					9	6·4	2·5	272	1	5·0	5·0	230
6·0 ,, . .	1	0·5	0·5	340	1	2·0	2·0	140	5	6·7	3·6	182					4	7·3	3·1	255				
7·2 ,, .									3	2·7	2·6	160					2	10·3	9·1	253				
9·0 ,, .									1	4·5	4·5	110												

Station	SILIGURI/BAGHDOGRA												TIRUCHCHIRAPPALLI											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	15	3·3	2·8	106	30	2·2	1·5	094	30	2·3	1·9	062	30	4·6	4·5	271	30	5·7	4·7	269	30	5·8	5·1	261
0·15 a.g. . .	14	3·8	3·6	103	29	3·7	2·9	106	24	4·6	4·1	079	30	8·3	8·2	274	30	7·3	5·9	267	29	9·1	7·9	259
0·3 a.m.s.l. . .	14	3·7	3·4	107	29	3·7	3·0	107	24	4·6	4·2	083	30	10·4	10·3	273	30	7·4	6·1	269	29	9·7	8·5	260
0·6 ,, . .	14	4·2	3·9	103	29	3·6	2·9	107	24	4·7	4·2	093	30	13·6	13·4	273	30	7·9	7·1	271	29	12·7	11·8	263
0·9 ,, . .	12	5·0	4·4	099	26	4·2	3·0	103	23	4·1	3·5	098	30	12·4	12·1	273	30	7·9	7·4	270	29	11·7	11·3	267
1·5 ,, . .	8	6·3	4·5	099	18	3·7	2·3	099	19	4·6	2·6	106	30	9·5	8·6	269	30	8·6	8·4	263	29	8·4	8·2	275
2·1 ,, . .	6	8·2	5·5	115	13	4·6	2·8	103	12	4·1	2·5	110	30	7·1	6·5	264	28	7·8	7·3	260	28	6·6	6·3	274
3·0 ,, . .	1	6·0	6·0	090	8	4·8	4·4	108	6	3·6	2·3	159	28	6·4	5·5	271	25	7·1	6·6	273	28	6·8	5·6	282
3·6 ,, . .					2	3·5	2·5	134	2	4·3	1·5	162	26	6·4	5·8	269	20	6·9	6·3	280	15	6·0	4·9	270
4·5 ,, . .					1	5·0	5·0	260					22	5·6	4·5	278	16	7·3	6·3	274	6	4·1	2·0	258
5·4 ,, . .					1	4·5	4·5	210					17	4·4	2·9	270	10	3·7	2·3	250	1	1·0	1·0	205
6·0 ,, . .													14	3·1	0·8	230	9	3·3	1·8	211	1	2·0	2·0	270
7·2 ,, . .													10	4·9	2·2	097	4	2·9	0·8	268				
9·0 ,, . .													3	8·5	8·1	099	3	7·3	7·3	108				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	TRIVANDRUM																UDAIPUR							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·8	1·6	331	30	3·2	2·8	298	30	3·9	3·6	296	30	2·3	2·0	322	30	2·1	1·9	246	30	2·7	2·4	246
0·15 a.g.	30	6·4	5·9	323	30	5·9	5·3	286	30	8·1	7·9	300	30	6·1	5·7	318	30	4·7	4·5	244	30	6·8	5·4	248
3 a. m.s.l.	30	6·5	6·0	320	30	6·7	6·1	290	30	8·2	8·1	300	30	6·8	6·5	309								
6 ,,	30	8·5	8·0	306	30	7·7	7·3	297	30	8·9	8·7	301	30	8·7	8·4	299								
9 ,,	30	9·8	9·4	300	28	7·7	7·2	299	30	10·2	9·9	302	29	9·1	8·8	299	30	5·8	5·6	252	30	7·1	4·4	241
5 ,,	30	10·0	9·7	287	17	9·3	8·8	292	30	10·0	9·7	298	24	9·2	8·9	298	27	8·4	7·5	257	30	6·2	5·8	252
1 ,,	30	9·9	9·4	278	10	8·5	7·9	279	30	10·5	10·1	290	24	9·2	8·7	290	26	7·5	4·7	249	30	5·6	4·8	255
0 ,,	30	9·6	8·7	270	3	2·5	2·2	262	30	9·7	9·2	276	20	8·5	7·9	281	24	6·4	2·6	250	25	4·7	3·0	255
5 ,,	30	8·5	7·6	269	3	2·7	2·5	278	30	9·0	8·3	271	16	7·6	6·4	266	17	5·5	1·1	205	22	4·1	2·1	255
0 ,,	30	6·4	4·9	269	2	2·5	1·9	286	30	7·9	6·0	269	12	6·3	5·4	272	14	6·0	1·3	250	17	4·4	1·7	265
4 ,,	30	5·7	3·3	256	2	3·5	2·5	117	30	6·6	4·6	271	9	3·7	1·4	263	10	6·8	3·1	279	15	6·3	3·0	292
0 ,,	30	5·0	2·1	268	2	4·7	4·7	100	30	5·3	2·6	257	8	3·0	1·6	151	8	8·6	5·6	284	15	7·1	3·5	303
,,	30	6·2	0·8	040	2	6·0	4·1	112	30	5·8	0·9	077	3	5·0	4·3	081					8	5·1	2·4	292
,,	29	9·5	7·9	098	1	4·5	4·5	085	26	7·7	6·5	097												

Station	UDAIPUR				VENGURLA												VERAVAL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·3	1·9	233	30	0·9	0·5	330	30	2·5	2·0	269	30	0·9	0·5	283	30	7·6	7·0	246	30	8·0	7·4	248
0·15 a.g.	30	6·1	5·3	236	29	3·9	1·8	283	30	6·0	5·2	270	28	4·4	3·1	277	29	8·4	8·3	246	30	8·6	8·5	245
3 a. m.s.l.					29	5·2	4·1	267	30	5·9	5·5	272	28	5·3	4·7	270	29	8·8	8·7	248	30	9·1	9·0	248
,,					29	6·9	6·3	271	30	7·0	6·6	276	28	6·3	5·9	274	29	9·6	9·4	250	30	9·7	9·5	252
,,	30	9·3	5·6	243	18	8·1	7·8	271	24	7·9	7·5	283	21	6·6	6·2	274	27	10·0	9·8	253	27	9·4	9·3	253
,,	30	8·3	8·0	252	3	7·5	7·5	256	12	6·5	6·1	284	16	6·9	6·4	274	21	9·0	8·6	253	20	7·6	7·0	259
,,	29	7·2	6·0	258	1	7·0	7·0	275	9	5·8	5·1	298	8	6·6	5·9	278	8	6·7	5·3	260	15	6·3	5·2	268
,,	22	5·8	3·4	251					6	4·9	4·3	297	5	8·5	7·1	297	5	6·2	1·8	227	13	6·9	4·6	289
,,	6	5·0	2·6	300					4	4·5	3·4	287	1	5·0	5·0	260	2	5·7	3·9	257	12	8·2	3·6	303
,,	1	2·0	2·0	255					2	5·3	5·1	287									12	7·3	1·6	297
,,																					12	7·7	1·8	295
,,																					12	6·8	2·6	291
,,																					11	5·6	2·5	293
,,																					9	6·4	5·2	077

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Station	VERAVAL				VIJAYWADA/GANNAVARAM												VISHAKHAPATNAM						
Time in I.S.T.	2330				0530				1730				2330				0530*				1130		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface . . .	30	8·3	7·6	247	30	3·5	3·1	248	30	4·9	4·1	289	30	2·7	2·0	210	30	2·4	2·2	277	30	5·1	3·8
0·15 a.g. . . .	29	8·9	8·6	246	28	7·3	6·5	263	30	6·5	5·6	284	26	7·5	6·2	229	30	6·7	6·3	288	29	5·7	4·8
0·3 a.m.s.l. . .	29	9·4	9·2	247	28	9·4	8·8	272	30	6·8	6·1	284	26	8·1	6·6	242	30	7·3	6·9	276	29	5·3	4·7
0·6 ,, . . .	29	10·2	9·9	250	28	11·7	11·1	278	30	7·0	6·5	284	26	8·4	7·3	261	30	8·5	7·9	262	29	5·8	5·3
0·9 ,, . . .	27	10·1	9·9	250	27	12·4	11·7	287	30	6·9	6·7	287	26	8·3	7·7	272	30	9·5	9·0	270	29	7·1	6·6
1·5 ,, . . .	22	8·4	8·1	248	26	8·4	8·1	290	30	7·4	7·1	295	26	8·6	8·0	283	30	8·0	7·4	285	28	7·7	6·9
2·1 ,, . . .	13	6·1	4·9	233	25	6·6	6·1	297	30	7·7	7·2	294	26	7·8	7·2	295	30	7·4	6·1	303	25	6·3	5·0
3·0 ,, . . .	7	3·8	2·5	077	22	5·9	4·7	316	27	6·9	5·7	294	24	6·7	5·6	303	30	6·6	4·7	319	22	5·3	3·7
3·6 ,, . . .	6	4·2	2·9	059	11	3·5	1·8	340	19	6·5	5·9	286	16	4·9	3·9	301	30	6·1	3·8	319	18	5·1	3·3
4·5 ,, . . .	1	1·5	1·5	330	8	3·9	1·7	287	15	6·4	4·7	290	13	5·3	4·3	308	30	5·0	2·9	326	16	6·3	3·6
5·4 ,, . . .					5	4·5	0·8	314	11	7·7	5·1	288	8	5·3	2·7	295	30	5·5	2·0	328	9	6·3	1·6
6·0 ,, . . .					4	5·1	1·1	358	8	6·7	3·9	290	6	4·1	0·9	182	28	6·1	2·1	319	8	4·8	1·6
7·2 ,, . . .					2	2·7	2·5	211	6	6·3	2·5	331	2	6·7	4·7	132	28	5·6	2·0	052	5	5·4	1·1
9·0 ,, . . .					2	6·7	5·9	106	3	4·3	2·8	344					23	6·9	3·7	092	4	8·1	6·6

Station	VISHAKHAPATNAM							
Time in I.S.T.	1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface . . .	30	2·6	2·2	269	30	2·1	1·4	217
0·15 a.g. . . .	30	5·0	3·7	290	30	4·5	3·5	234
0·3 a.m.s.l. . .	30	5·3	4·1	280	30	5·9	4·8	246
0·6 ,, . . .	30	6·4	5·3	267	30	6·7	5·7	261
0·9 ,, . . .	30	6·8	5·8	275	30	7·3	6·4	275
1·5 ,, . . .	30	6·3	4·8	296	30	7·7	6·8	287
2·1 ,, . . .	30	6·4	4·8	309	29	7·4	6·1	301
3·0 ,, . . .	30	6·1	3·8	300	22	7·6	5·5	299
3·6 ,, . . .	28	6·2	3·7	302	9	5·4	2·2	310
4·5 ,, . . .	28	6·6	3·8	315	8	5·6	1·6	247
5·4 ,, . . .	28	6·0	2·1	303	3	4·8	2·7	118
6·0 ,, . . .	27	7·2	2·3	040	2	4·5	4·1	089
7·2 ,, . . .	27	6·2	2·1	011	1	5·0	5·0	100
9·0 ,, . . .	21	7·2	4·3	062				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10·5	18	7·0	4·9	108
12·0	16	7·6	4·7	110
14·1	11	10·1	7·2	122
16·2	7	12·7	11·0	082
18·0	1	14·5	14·5	110
	1730 hr.*			
10·5	16	7·7	5·2	079
12·0	11	9·0	7·4	103
14·1	8	14·1	12·3	130
16·2	3	20·0	18·5	142
18·0	2	18·3	18·1	110
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	11	7·5	4·4	233
12·0	6	8·8	4·0	160
14·1	2	6·0	4·7	127
16·2	1	14·0	14·0	135
	1730 hr.*			
10·5	12	6·5	1·5	205
12·0	5	9·4	6·2	170
14·1	2	16·2	10·4	107
16·2	2	18·7	10·6	110
18·0	1	10·5	10·5	075
21·0	1	9·5	9·5	085
24·0	1	19·0	19·0	105

Ht. in Km.	n	V	v	D
	AMBALA			
	1130 hr.			
10·5	1	25·5	25·5	250
	ANANTAPUR			
	0530 hr.			
10·5	1	20·0	20·0	080
	1730 hr.			
10·5	2	17·3	17·1	093
12·0	1	23·0	23·0	085
	BAHARAICH			
	0530 hr.			
10·5	1	8·5	8·5	130
12·0	1	7·5	7·5	130
	1730 hr.			
10·5	1	18·0	18·0	235
	BANGALORE			
	0530 hr.@			
10·5	10	11·7	11·3	088
12·0	8	16·6	16·4	094
14·1	6	34·4	33·3	090
16·2	5	28·7	28·5	096
18·0	3	13·0	12·7	085
	1130 hr.			
10·5	1	18·0	18·0	090
12·0	1	25·0	25·0	080
14·1	1	37·5	37·5	085

Ht. in Km.	n	V	v	D
	1730 Hr.@			
10·5	8	10·0	9·7	087
12·6	6	20·7	20·6	098
14·1	5	33·8	33·5	090
16·2	3	35·0	35·0	097
18·0	2	30·3	29·6	090
	BHAGALPUR			
	0530 hr.			
10·5	1	6·5	6·5	115
	1730 hr.			
10·5	2	5·3	5·1	127
12·0	2	9·7	7·7	121
	BHUJ/ RUDRAMATA			
	0530 hr.			
10·5	1	6·0	6·0	205
12·0	1	12·5	12·5	200
	1730 hr.			
10·5	3	6·7	2·8	120
12·0	3	5·5	3·0	106
14·1	3	13·2	11·1	124
16·2	3	14·8	14·7	096
18·0	2	22·3	22·3	107
	BOMBAY/ SANTA CRUZ			
	0530 hr.*			
10·5	27	9·0	8·2	089

Ht. in Km.	n	V	v	D
12·0	26	11·7	10·8	098
14·1	14	17·1	16·4	102
16·2	4	22·1	21·9	111
	1130 hr.			
10·5	2	11·3	11·1	058
12·0	1	11·0	11·0	110
	1730 hr.*			
10·5	26	9·0	8·0	086
12·0	26	12·4	10·5	092
14·1	16	19·2	17·0	103
16·2	10	22·7	20·5	100
18·0	1	27·0	27·0	090
	CALCUTTA/ DUM DUM			
	0530 hr.*			
10·5	20	8·0	6·6	112
12·0	16	11·2	10·6	109
14·1	12	13·5	11·6	091
16·2	3	23·0	21·8	087
18·0	1	8·5	8·5	080
	1730 hr.*			
10·5	22	8·2	5·7	097
12·0	16	9·2	7·3	089
14·1	10	11·8	10·4	072
16·2	6	19·2	18·7	077
18·0	3	14·8	14·8	072

Ht. in Km.	n	V	v	D
	DARJEELING			
	0530 hr.			
10·5	1	6·5	6·5	215
12·0	1	2·5	2·5	255
14·1	1	3·0	3·0	180
	DIBRUGARH/ MOHANBARI			
	1730 hr.			
10·5	1	5·5	5·5	335
	GAUHATI			
	0530 hr.*			
10·5	17	6·0	1·3	314
12·0	13	8·8	2·8	244
14·1	4	8·0	4·8	278
	1730 hr.*			
10·5	16	4·8	1·0	298
12·0	12	4·9	2·9	299
14·1	3	13·0	2·5	235
16·2	1	2·5	2·5	035
	GOPALPUR			
	1730 hr.			
10·5	1	12·0	12·0	120
12·0	1	18·5	18·5	100

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Ht. in Km.	n	V	v	D
	GORAKHPUR			
	1730 hr.			
10·5	4	5·0	1·3	215
12·0	2	6·5	6·5	230
14·1	2	11·5	11·3	183
16·2	2	12·5	12·3	163
18·0	1	2·0	2·0	085
	GWALIOR			
	0530 hr.			
10·5	9	6·7	3·1	232
12·0	5	8·4	1·4	175
14·1	3	8·2	3·9	272
16·2	2	10·0	10·0	091
18·0	1	12·0	12·0	080
	1130 hr.			
10·5	6	7·3	3·2	292
12·0	4	4·9	3·5	113
14·1	1	14·0	14·0	130
	1730 hr.			
10·5	7	8·6	3·8	220
12·0	4	9·8	9·3	175
14·1	1	20·5	20·5	155
16·2	1	8·5	8·5	120
	JAIPUR			
	1730 hr.			
10·5	1	3·5	3·5	330
12·0	1	4·0	4·0	105

Ht. in Km.	n	V	v	D
	JODHPUR			
	0530 hr.*			
10·5	8	11·4	8·1	255
12·0	1	14·5	14·5	200
14·1	1	5·5	5·5	215
	1130 hr.			
10·5	3	11·5	4·9	284
12·0	2	11·5	5·8	030
	1730 hr.*			
10·5	6	6·4	1·7	230
12·0	2	4·0	2·3	175
14·1	1	2·5	2·5	190
	MADRAS/MINAMBAKKAM			
	0530 hr.*			
10·5	23	11·6	11·1	088
12·0	19	22·9	22·4	080
14·1	13	31·6	31·2	082
16·2	5	39·0	38·4	094
18·0	5	18·9	18·9	085
	1130 hr.			
10·5	6	10·3	9·4	084
12·0	4	19·9	19·7	088
14·1	2	31·0	31·0	088
16·2	2	36·3	36·3	093
	1730 hr *			
10·5	18	11·3	8·9	078
12·0	12	17·8	17·4	084

Ht. in Km.	n	V	v	D
14·1	10	33·3	32·9	082
16·2	7	33·6	32·9	083
18·0	3	24·7	24·4	078
21·0	1	21·5	21·5	080
	NAGPUR/SONEGAON			
	0530 hr.*			
10·5	28	7·3	6·2	090
12·0	28	10·7	10·0	095
14·1	28	17·2	16·2	092
16·2	25	20·2	19·2	095
18·0	17	15·7	15·4	089
21·0	9	15·5	15·1	080
	1130 hr.			
10·5	3	6·5	5·1	071
12·0	2	9·7	9·0	073
	1730 hr.*			
10·5	29	8·6	7·3	090
12·0	29	12·3	11·1	101
14·1	25	19·9	18·2	097
16·2	21	22·9	22·3	087
18·0	14	21·4	20·9	090
21·0	2	19·7	19·7	088
	NEW DELHI/SAFDARJUNG			
	0530 hr *			
10·5	27	12·4	9·5	260

Ht. in Km.	n	V	v	D
12·0	28	13·4	9·9	252
14·1	28	10·9	8·5	244
16·2	27	9·4	5·1	238
18·0	26	6·5	4·0	080
21·0	16	14·2	13·9	090
24·0	13	15·4	15·2	087
27·0	5	12·8	12·6	087
	1730 hr.*			
10·5	29	12·4	10·0	264
12·0	28	12·8	9·8	257
14·1	25	12·5	9·1	244
16·2	23	9·3	3·5	203
18·0	20	9·2	7·3	112
21·0	13	13·0	12·6	084
24·0	10	13·1	12·9	096
21·0	1	17·0	17·0	075
	POONA			
	0530 hr.			
10·5	2	8·0	6·7	073
12·0	1	16·5	16·5	110
	1730 hr.			
10·5	3	13·0	12·2	088
12·0	1	15·5	15·5	085
14·1	1	22·0	22·0	085
	PORT-BLAIR			
	0530 hr.*			
10·5	17	13·5	11·6	093

Ht. in Km.	n	V	v	D
12·0	14	19·7	19·1	08
14·1	9	30·5	30·0	08
	1730 hr.*			
10·5	22	12·6	11·5	06
12·0	17	19·6	19·2	07
14·1	13	30·9	30·8	08
16·2	7	37·3	36·6	08
18·0	3	34·6	34·4	08
21·0	1	27·0	27·0	07
	TIRUCHIRAPPALI			
	1730 hr.			
10·5	2	11·7	11·7	09
12·0	1	9·0	9·0	08
14·1	1	24·5	24·5	10
	TRIVANDRUM			
	0530 hr.*			
10·5	29	17·2	16·0	09
12·0	25	28·2	27·2	08
14·1	21	37·9	37·2	08
16·2	17	23·4	22·5	08
18·0	12	19·5	17·7	08
21·0	1	7·5	7·5	09
	1130 hr.			
10·5	1	6·0	6·0	10

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 km. above mean sea level

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

Ht. in Km.	n	V	v	D
		TRIVANDRUM		
		1730*		
10·5	25	16·8	16·0	098
12·0	22	25·4	24·9	085
14·1	22	40·3	39·7	087
16·2	18	28·9	28·5	089
18·0	11	16·7	15·8	093
21·0	1	19·0	19·0	045
		VERAVAL		
		1730 hr.		
10·5	7	11·2	10·4	092
12·0	4	12·0	10·5	096
14·1	1	20·5	20·5	115
		VIJAYWADA/GANNAVARAM		
		0530 hr.		
10·5	1	17·5	17·5	110
		1730 hr.		
10·5	1	6·5	6·5	060
12·0	1	9·5	9·5	100
14·1	1	30·0	30·0	100
		VISHAKHAPATNAM		
		0530 hr.*		
10·5	22	8·7	7·5	094
12·0	18	13·8	13·3	097
14·1	12	25·0	24·6	089
16·2	9	29·5	28·5	096
18·0	7	23·1	22·4	093
21·0	2	19·0	19·0	097
		1130 hrs.		
10·5	2	10·0	9·5	083
12·0	2	16·0	15·9	098
14·1	2	25·7	25·7	103
16·2	1	39·0	39·0	095
18·0	1	25·0	25·0	090
		1730 hrs.*		
10·5	19	10·2	9·1	095
12·0	18	13·0	12·6	086
14·1	15	22·0	20·1	089
16·2	13	24·2	24·0	087
18·0	7	24·1	22·1	081
21·0	1	36·0	36·0	105

RADIOSONDE DATA

During the month, observations of upper air temperatures, pressure and humidity were made at 13 stations in India as given in the list below.

For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

List of Radiosonde stations in India

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

RADIOSONDE DATA

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

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

(A) From Ascent at 00 Hour G. M. T.

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (996 mb.)						ALLAHABAD/BAMHRAULI (986 mb.)						BANGALORE (907 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	301·0	303	299	296·4	30	098	303·4	309	298	294·0	30	921	293·2	296	292	291·7
1000	30	022	..	..	..	..	30	−028	..	..	..	..	30	074	..	..	..	..
900	28	949	294·8	301	292	291·0	30	928	302·1	307	296	289·3	28	985	292·6	295	291	291·1
850	28	1444	292·4	297	288	285·1	30	1435	298·9	304	293	285·9	28	1479	289·9	292	287	287·2
800	28	1965	290·4	295	285	281·0	30	1955	295·1	300	290	283·6	28	1994	288·1	291	285	284·5
700	28	3091	283·8	289	275	273·2	30	3098	286·4	289	283	277·3	28	3118	282·3	287	278	275·6
600	28	4357	274·9	281	268	265·0	30	4375	277·4	280	274	267·9	28	4382	275·4	281	270	267·3
500	28	5798	267·1	274	257	..	29	5839	271·0	275	267	..	28	5837	267·3	273	263	..
400	27	7532	258·2	264	249	..	29	7587	262·5	266	256	..	28	7550	256·0	261	251	..
300	24	9643	242·7	250	234	..	25	9752	249·2	253	245	..	28	9647	240·8	249	233	..
250	21	10926	233·2	241	223	..	23	11062	240·7	245	235	..	28	10908	230·9	237	226	..
200	19	12429	222·5	234	214	..	21	12599	228·7	234	222	..	28	12380	217·7	227	211	..
175	16	13253	214·7	220	209	..	21	13482	222·9	229	213	..	28	13221	211·9	221	206	..
150	15	14253	208·7	223	201	..	21	14476	215·4	224	208	..	28	14167	205·5	215	198	..
125	13	15344	202·0	218	193	..	21	15600	212·8	216	196	..	28	15231	198·8	209	190	..
100	12	16613	194·0	204	186	..	15	16934	201·0	209	190	..	28	16535	195·2	205	191	..
80	8	17864	197·1	206	191	..	8	18313	201·6	210	189	..	27	17868	198·8	208	189	..
70	5	18626	197·0	204	191	..	7	19084	205·0	214	196	..	27	18656	202·9	214	191	..
60	..	..	..	..	..	..	6	20017	209·8	221	205	..	25	19561	205·5	214	195	..
50	..	..	..	..	..	..	6	21152	214·4	227	211	..	24	20653	209·7	219	199	..
40	..	..	..	..	..	..	..	..	..	..	..	..	9	21935	211·2	218	203	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTA CRUZ (1003 mb.)						CALCUTTA/DUM DUM (998 mb.)						GAUHATII (994 mb.)					
Surface	30	013	300·0	302	297	297·1	30	006	300·3	304	298	289·8	28	049	299·1	301	297	297·7
1000	29	040	..	..	..	..	30	−008	..	..	..	..	29	050	..	..	..	..
900	29	963	294·5	297	292	290·1	30	920	296·3	301	293	292·9	29	927	295·4	299	293	293·5
850	29	1461	291·6	295	289	285·9	30	1402	294·1	301	290	290·0	29	1423	293·1	297	291	290·9
800	29	1979	288·9	293	285	279·4	30	1943	290·9	296	287	286·4	29	1945	290·6	294	288	287·6
700	29	3105	283·9	287	282	269·9	30	3074	285·3	291	281	280·5	29	3077	284·6	289	282	281·6
600	29	4372	276·0	279	273	262·3	30	4351	277·2	283	275	273·0	29	4353	278·1	281	270	274·8
500	28	5832	269·9	273	267	..	29	5820	270·7	273	266	..	28	5826	271·1	273	269	..
400	28	7568	260·3	264	257	..	29	7555	260·6	264	257	..	28	7573	262·4	266	260	..
300	28	9712	246·7	251	244	..	25	9700	247·8	252	244	..	21	9723	249·0	254	244	..
250	28	11040	236·9	242	234	..	23	11000	238·5	243	236	..	18	11024	239·5	245	235	..
200	28	12524	226·1	234	221	..	21	12525	227·2	232	224	..	14	12547	228·6	235	223	..
175	25	18394	218·8	227	213	..	20	13396	220·6	224	217	..	12	13435	222·6	229	217	..
150	24	14373	212·0	217	204	..	18	14371	213·1	218	209	..	8	14459	217·3	224	211	..
125	19	15502	205·0	212	199	..	13	15483	204·7	210	189	..	..	..	..	..	..	..
100	10	16796	197·5	204	192	..	11	16820	199·7	204	194	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	18131	199·0	201	197	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

During the month, observations of upper air temperatures, pressure and humidity were made at 13 stations in India as given in the list below.

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1	Ahmedabad	Fan Type	20th July, 1961	00 and 12	
2	Allahabad/Bamhrauli . .	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santa Cruz . .	Clock type	7th September, 1954	00 and 12	
5	Calcutta/Dum Dum . .	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam. .	Fan type	29th June, 1946	00 and 12	
9	Nagpur/Sonegaon .	Fan type	1st October, 1946	00 and 12	
10	New Delhi/Safdarjung .	Clock type	3rd December, 1943	00 and 12	
11	Port Blair	Fan type	4th December, 1949	00 and 12	
12	Trivandrum . . .	Fan type	1st, July, 1947	00 and 12	
13	Vishakhapatnam . . .	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

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

June 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

(A) From Ascent at 00 Hour G. M. T.

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (996 mb.)						ALLAHABAD/BAMHRAULI (986 mb.)						BANGALORE (907 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	301·0	303	299	296·4	30	098	303·4	309	298	294·0	30	921	293·2	296	292	291·7
1000	30	022	..	..	..	..	30	−028	..	..	..	..	30	074	..	..	..	..
900	28	949	294·8	301	292	291·0	30	928	302·1	307	296	289·3	28	985	292·6	295	291	291·1
850	28	1444	292·4	297	288	285·1	30	1435	298·9	304	293	285·9	28	1479	289·9	292	287	287·2
800	28	1965	290·4	295	285	281·0	30	1955	295·1	300	290	283·6	28	1994	288·1	291	285	284·5
700	28	3091	283·8	289	275	273·2	30	3098	286·4	289	283	277·3	28	3118	282·3	287	278	275·6
600	28	4357	274·9	281	268	265·0	30	4375	277·4	280	274	267·9	28	4382	275·4	281	270	267·3
500	28	5798	267·1	274	257	..	29	5839	271·0	275	267	..	28	5837	267·3	273	263	..
400	27	7532	258·2	264	249	..	29	7587	262·5	266	256	..	28	7550	256·0	261	251	..
300	24	9643	242·7	250	234	..	25	9752	249·2	253	245	..	28	9647	240·8	249	233	..
250	21	10926	233·2	241	223	..	23	11062	240·7	245	235	..	28	10908	230·9	237	226	..
200	19	12429	222·5	234	214	..	21	12599	228·7	234	222	..	28	12380	217·7	227	211	..
175	16	13253	214·7	220	209	..	21	13482	222·9	229	213	..	28	13221	211·9	221	206	..
150	15	14253	208·7	223	201	..	21	14476	215·4	224	208	..	28	14167	205·5	215	198	..
125	13	15344	202·0	218	193	..	21	15600	212·8	216	196	..	28	15231	198·8	209	190	..
100	12	16613	194·0	204	186	..	15	16934	201·0	209	190	..	28	16535	195·2	205	191	..
80	8	17864	197·1	206	191	..	8	18313	201·6	210	189	..	27	17868	198·8	208	189	..
70	5	18626	197·0	204	191	..	7	19084	205·0	214	196	..	27	18656	202·9	214	191	..
60	..	..	..	..	..	..	6	20017	209·8	221	205	..	25	19561	205·5	214	195	..
50	..	..	..	..	..	..	6	21152	214·4	227	211	..	24	20653	209·7	219	199	..
40	..	..	..	..	..	..	..	..	..	..	..	..	9	21935	211·2	218	203	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ (1003 mb.)						CALCUTTA/DUM DUM (998 mb.)						GAUHATI (994 mb.)					
Surface	30	013	300·0	302	297	297·1	30	006	300·3	304	298	289·8	28	049	299·1	301	297	297·7
1000	29	040	..	..	..	..	30	−008	..	..	..	..	29	050	..	..	..	..
900	29	963	294·5	297	292	290·1	30	920	296·3	301	293	292·9	29	927	295·4	299	293	293·5
850	29	1461	291·6	295	289	285·9	30	1402	294·1	301	290	290·0	29	1423	293·1	297	291	290·9
800	29	1979	288·9	293	285	279·4	30	1943	290·9	296	287	286·4	29	1945	290·6	294	288	287·6
700	29	3105	283·9	287	282	269·9	30	3074	285·3	291	281	280·5	29	3077	284·6	289	282	281·6
600	29	4372	276·0	279	273	262·3	30	4351	277·2	283	275	273·0	29	4353	278·1	281	270	274·8
500	28	5832	269·9	273	267	..	29	5820	270·7	273	266	..	28	5826	271·1	273	269	..
400	28	7568	260·3	264	257	..	29	7555	260·6	264	257	..	28	7573	262·4	266	260	..
300	28	9712	246·7	251	244	..	25	9700	247 8	252	244	..	21	9723	249·0	254	244	..
250	28	11040	236·9	242	234	..	23	11000	238·5	243	236	..	18	11024	239·5	245	235	..
200	28	12524	226·1	234	221	..	21	12525	227·2	232	224	..	14	12547	228·6	235	223	..
175	25	18394	218·8	227	213	..	20	13396	220·6	224	217	..	12	13435	222·6	229	217	..
150	24	14373	212·0	217	204	..	18	14371	213·1	218	209	..	8	14459	217·3	224	211	..
125	19	15502	205·0	212	199	..	13	15483	204·7	210	189	..	..	..	..	..	..	..
100	10	16796	197·5	204	192	..	11	16820	199·7	204	194	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	18131	199·0	201	197	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

June, 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

(A) From Ascent at 00 Hour G. M. T.

Standard Pressure Survace mb.	JODHPUR Surf. Pr. (976 mb.)						MADRAS/MINAMBAKKAM (1003 mb.)						NAGPUR/SONEGAON (966 mb.)					
	No. of Obs.	Ht. gpm.	Tempersature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	300·5	305	299	293·7	30	015	300·4	304	297	296·4	29	316	300·4	305	296	293·1
1000	30	–008	..	..	..	..	30	038	..	..	..	..	29	055	..	..	..	..
900	30	925	298·2	304	294	288·9	30	964	296·6	301	292	288·2	29	939	298·5	303	295	288·1
850	30	1427	296·2	303	292	284·5	30	1461	293.5	297	289	285·7	29	1440	295·4	299	293	285·7
800	30	1951	294·0	300	290	280·8	30	1981	289·7	295	285	282·9	29	1965	291·6	297	287	282·6
700	30	3091	287·6	293	282	272·9	30	3104	282·3	287	279	276·1	29	2095	283·1	287	278	276·2
600	29	4372	277·2	282	271	265·2	30	4364	274·3	278	267	266·9	29	4363	274·9	279	267	269·0
500	29	5830	268·8	274	266	..	30	5807	264·6	271	256	..	29	5811	266·8	271	261	..
400	28	7569	262·5	268	254	..	30	7508	254·3	259	247	..	29	7528	257·2	262	252	..
300	15	9738	249·0	252	242	..	26	9592	240·0	246	231	..	29	9639	243·0	249	235	..
250	7	11061	241·4	244	239	..	22	10854	230·6	240	219	..	29	10914	232·5	241	225	..
200	5	12609	230·6	232	230	..	10	12324	219·2	228	210	..	29	12395	221·2	230	213	..
175	..	..	..	..	..	..	16	13188	214·5	233	207	..	29	13288	214·7	224	207	..
150	..	..	..	..	..	..	15	14220	208·1	215	201	..	29	14211	207·9	218	198	..
125	..	..	..	..	..	..	10	15209	199·4	204	193	..	29	15285	202·7	209	196	..
100	..	..	..	..	..	..	7	16546	198·5	206	193	..	26	16615	196·7	205	190	..
80	..	..	..	..	..	..	6	17798	201·6	209	192	..	17	17943	198·2	206	193	..
70	..	..	..	..	..	..	6	18656	203·2	211	193	..	12	18745	199·5	207	195	..
60	..	..	..	..	..	..	5	19582	208·6	217	197	..	13	19708	204·9	214	197	..
50	..	..	..	..	..	..	..	..	..	..	..	..	12	20765	208·7	214	199	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Survace mb.	NEW DELHI/SAFDARJUNG (974 mb.)						PORT BLAIR (998 mb.)						TRIVANDRUM (1000 mb.)					
Surface	30	209	302·4	307	297	292·5	30	079	298·6	300	296	297·0	30	064	298·4	299	297	296·2
1000	30	—028	..	..	..	..	30	059	..	..	..	..	30	078	..	..	..	..
900	30	913	302·8	307	297	285·9	30	981	293·7	295	287	292·4	30	989	292·4	295	288	289·5
850	30	1421	299·7	304	295	284·0	30	1471	291·0	293	289	289·3	30	1480	290·0	294	285	285·6
800	30	1952	295·8	300	292	281·9	30	1992	288·3	291	285	282·7	30	1996	287·3	291	283	282·1
700	30	3096	287·3	292	284	273·5	30	3111	282·4	287	277	278·4	30	3114	281·9	288	276	273·9
600	30	4375	277·4	280	273	263·0	30	4375	274·9	279	268	269·9	30	4375	274·4	279	271	267·4
500	30	5833	268·9	273	263	..	29	5831	267·1	272	262	..	30	5820	266·0	272	261	..
400	29	7570	261·2	265	253	..	29	7528	256·7	263	251	..	30	7524	254·6	261	247	..
300	26	9727	248·9	252	245	..	27	9670	242·6	251	235	..	29	9606	239·2	250	231	..
250	25	10440	239·9	243	234	..	26	10943	232·5	242	222	..	29	10860	228·8	239	223	..
200	25	12579	229·0	233	224	..	26	12388	220·4	231	209	..	27	12316	217·3	230	210	..
175	24	13460	222·6	227	218	..	24	13233	213·4	225	204	..	26	13175	210·3	217	202	..
150	23	14449	215·9	222	211	..	22	14199	207·5	221	198	..	26	14090	203·7	218	193	..
125	20	1590	208·4	214	202	..	13	15253	199·7	213	188	..	26	15152	198·3	209	187	..
100	19	16913	201·7	207	196	..	9	16574	198·3	201	189	..	22	16443	196·5	205	188	..
80	16	18225	203·0	208	197	..	..	..	..	..	..	..	18	17738	200·2	213	191	..
70	14	19064	206·3	213	198	..	..	..	..	..	..	..	17	18585	202·8	116	191	..
60	13	20008	210·1	218	199	..	..	..	..	..	..	..	11	19595	208·2	219	194	..
50	12	21130	215·2	223	208	..	..	..	..	..	..	..	11	20718	211·6	223	199	..
40	11	22537	220·0	227	214	..	..	..	..	..	..	..	..	..	..	..	..	..
30	6	24458	225·5	230	219	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

June, 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

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

Standard pressure surface mb.	VISHAKHAPATNAM Surf. Pr. (996 mb.)					
	No. o obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	301·6	304	299	296·7
1000	80	009	..	..	..	..
900	29	943	298·0	303	294	290·0
850	29	1445	295·0	299	291	286·8
800	29	1968	291·1	296	286	283·8
700	29	3097	282·3	287	277	277·9
600	29	4358	274·1	279	271	271·4
500	29	5806	266·7	273	263	..
400	29	7521	257·3	262	250	..
300	24	9638	242·9	247	236	..
250	23	10915	232·8	239	225	..
200	19	12395	220·7	229	211	..
175	17	13245	213·8	222	206	..
150	14	14221	206·7	215	201	..
125	13	15276	198·5	208	192	..
100	12	16581	194·7	206	187	..
80	9	17906	196·0	207	187	..
70	7	18657	197·6	213	190	..
60	5	19646	201·8	215	193	..
50						
40						
30						
20						
10						

RADIOSONDE DATA

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

June, 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

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

Standard Pressure Surface mb.	AHMADABAD Suf. Pr. (993 mb.)						ALLAHABAD/BAMHRAULI (984 mb.)						BANGALORE (905 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew poin
Surface	30	055	309.6	314	304	295.5	30	098	311.4	316	304	292.7	29	921	300.8	303	297	290
1000	30	—005	..	..	..	..	30	—051	..	..	..	..	29	033	..	..	..	
900	30	944	301.4	306	293	290.5	30	910	305.2	310	297	288·9	29	968	300.2	303	294	290
850	30	1447	296.7	301	290	288.1	30	1421	301.2	305	294	286.1	29	1470	295.7	298	291	287
800	30	1972	291.4	299	285	286.3	30	1955	296.9	301	291	284.5	29	1992	290.2	293	284	286
700	30	3101	283.4	292	276	276.7	30	3104	287.8	291	285	277.0	28	3116	282.6	287	278	277
600	28	4362	275.5	280	270	264.9	29	4385	278.5	282	274	267.6	28	4378	275.4	281	270	269
500	28	5817	268.7	273	262	..	29	5856	271.3	274	267	257.4	28	5832	267.9	272	264	
400	28	7545	259.3	265	248	..	28	7607	263.5	268	259	..	28	7549	256.9	260	253	
300	23	9674	243.7	252	235	..	26	9773	250.0	253	245	..	26	9652	241.6	250	232	
250	20	10964	234.7	242	226	..	25	11083	240.7	245	234	..	23	10916	231.4	241	223	
200	17	12451	222.9	228	214	..	23	12627	229.7	235	221	..	22	12398	220.4	228	212	
175	13	13314	217.1	223	207	..	22	13510	223.9	230	218	..	22	13248	213.7	222	205	
150	11	14268	207.6	218	197	..	19	14505	216.0	223	205	..	21	14209	207.4	216	201	
125	5	15279	197.8	206	188	..	15	15630	207.4	213	199	..	19	15299	201.3	208	194	
100	..	..	..	..	..	..	11	17008	201.3	207	191	..	18	16623	197.1	203	194	
80	..	..	..	..	..	..	9	18359	201.3	209	196	..	14	17952	200.4	209	194	
70	..	..	..	..	..	..	7	19144	203.7	219	192	..	13	18759	202.2	213	192	
60	..	..	..	..	..	..	5	20027	208.8	215	205	..	13	19761	205.7	215	194	
50	..	..	..	..	..	..	..	..	..	..	..	..	12	20720	209.5	216	202	
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

	BOMBAY/SANTACRUZ (1003 mb.)						CALCUTTA/DUM DUM (997 mb.)						GAUHATI (992 mb.)					
Surface	28	013	303.7	305	298	297.3	28	006	301.8	306	296	298.5	30	049	301.8	305	297	298.
1000	28	039	..	..	..	..	28	—022	..	..	..	..	30	—020	..	..	..	..
900	28	969	295.7	298	291	290.6	28	912	297.3	301	294	292.4	30	912	296.7	300	295	293.
950	28	1465	292.8	295	288	286.0	28	1411	294.5	298	291	289.4	30	1411	293.9	297	290	270.
800	28	1986	290.1	293	287	281.3	28	1934	291.6	296	289	286.6	30	1944	291.4	295	289	287.
700	28	3115	284.5	289	280	270.9	28	3069	285.3	290	283	278.9	30	3068	285.4	289	283	281.
600	28	4387	277.3	280	273	263.5	27	4346	278.0	284	275	271.6	30	4348	279.1	283	276	274.
500	28	5853	270.9	274	266	..	27	5814	270.1	276	266	..	29	5825	271.8	275	269	266.
400	27	7597	261.2	265	257	..	27	7552	260.8	266	255	..	28	7573	262.6	266	260	.
300	27	9745	247.1	253	240	..	25	9697	247.1	252	242	..	20	9727	248.8	253	244	.
250	27	11037	237.5	243	235	..	23	10992	237.8	244	231	..	15	11043	239.8	246	235	.
200	27	12561	226.4	231	218	..	19	12495	225.6	233	219	..	15	12576	228.7	234	223	.
175	25	13436	220.2	228	211		15	13365	218.9	226	211	..	8	13444	222.6	228	215	.
150	22	14414	212.9	222	205	..	13	14347	211.8	217	205	..	..	..	..	..	..	..
125	18	15512	204.4	215	197	..	10	15496	205.7	214	199	..	..	..	..	..	..	..
100	16	16836	198.4	204	190	..	8	16844	199.1	206	192	..	..	..	..	..	..	..
80	7	18142	199.7	206	194	..	5	18162	178.8	201	196	..	..	..	..	..	..	..
70	5	18954	204.6	207	203	..	..	..	..	..	..	..	..	..	..	..	..	..
60	5	19889	209.6	215	206	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

June, 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

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

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (974 mb.)						MADRAS/MINAMBAKKAM (1001 mb.)						NAGPUR/SONEGAON (964 mb.)					
	No. of obs.	Ht. gpm.	Temperature°A				No. of obs.	Ht. gpm.	Temperature°A				No. of obs.	Ht. gpm.	Temperature°A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	311.3	318	301	289.9	30	015	305.1	310	300	296.9	30	311	306.7	313	298	291.5
1000	30	—020	..	..	..	..	30	023	..	..	..	..	30	—022	..	..	..	..
900	30	933	305.2	311	300	289.3	30	958	297.8	301	295	290.3	30	928	302.4	308	294	288.5
850	30	1440	300.7	306	295	285.6	30	1457	294.0	298	290	287.6	30	1435	297.6	303	291	285.9
800	30	1970	296.4	301	292	282.5	30	1978	290.1	295	285	284.7	30	1962	293.4	299	288	283.6
700	30	3114	288.4	293	285	273.3	30	3103	282.6	289	278	276.7	30	3099	284.0	289	279	277.9
600	28	4401	279.3	284	272	263.5	30	4365	275.1	281	271	267.5	29	4366	274.8	277	271	271.1
500	25	5872	270.5	276	263	..	30	5816	266.9	271	262	..	29	5816	267.6	276	260	..
400	25	7620	262.7	268	254	..	30	7526	255.6	261	251	..	29	7541	258.6	264	251	..
300	16	9807	251.1	255	245	..	24	9611	240.6	249	232	..	29	9666	244.8	253	237	..
250	11	11135	241.5	246	234	..	20	10871	230.2	237	221	..	29	10947	234.7	242	227	..
200	10	12776	230.3	234	226	..	14	12334	218.8	226	213	..	29	12441	223.1	232	216	..
175	8	13568	224.5	229	221	..	13	13156	212.5	221	207	..	27	13287	216.7	226	211	..
150	6	14585	218.8	224	213	..	12	14119	205.8	215	197	..	27	14279	209.6	220	199	..
125	..	..	..	..	..	..	8	15206	199.3	207	193	..	26	15377	203.6	210	197	..
100	..	..	..	..	..	..	8	16514	194.7	199	187	..	22	16719	197.2	207	190	..
80	..	..	..	..	..	..	6	17771	197.3	202	189	..	16	18089	201.4	213	194	..
70	..	..	..	..	..	..	6	18550	199.2	205	191	..	10	18882	203.3	210	197	..
60	..	..	..	..	..	..	5	19434	200.1	205	192	..	7	19759	205.4	211	201	..
50	..	..	..	..	..	..	5	20487	202.8	207	193	..	5	20792	207.4	210	204	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (972 mb.)						PORT BLAIR (997 mb.)						TRIVANDRUM (1000 mb.)					
Surface	28	209	311.7	315	301	291.9	30	079	300.5	301	299	297.8	30	064	301.7	303	299	296.7
1000	28	051	..	..	..	..	30	049	..	..	..	..	30	062	..	..	..	..
900	28	908	306.3	312	303	285.7	30	973	294.4	297	291	292.4	30	989	294.1	297	291	289.2
850	28	1420	301.9	308	299	283.3	30	1467	291.8	294	288	288.8	30	1482	291.0	294	289	286.0
800	28	1954	296.7	303	291	282.3	30	1987	289.1	293	285	285.5	30	2000	288.2	293	283	282.0
700	28	3099	286.8	291	283	276.5	30	3112	283.6	289	279	277.2	30	3123	283.1	285	281	273.9
600	27	4379	277.4	281	273	267.7	30	4379	276.5	283	273	270.1	30	4389	275.7	282	271	266.4
500	27	5836	268.4	274	263	..	30	5838	268.9	274	263	..	30	5842	267.5	275	262	..
400	27	7569	261.3	267	254	..	29	7562	258.2	268	250	..	30	7556	256.0	265	249	..
300	27	9723	248.3	252	240	..	29	9677	243.1	251	236	..	27	9649	240.3	246	234	..
250	27	11025	238.8	243	233	..	26	10875	232.4	241	225	..	25	10908	230.6	237	224	..
200	23	12560	228.4	231	225	..	25	12421	220.9	235	212	..	23	12375	219.0	227	211	..
175	22	13439	222.0	225	219	..	23	13280	214.1	228	205	..	23	13206	212.5	219	204	..
150	22	14425	214.7	218	211	..	23	14248	207.0	220	196	..	23	14167	205.4	211	196	..
125	22	15548	207.1	212	202	..	15	15317	201.3	209	193	..	22	15242	200.4	206	192	..
100	19	16899	202.1	208	198	..	7	16683	194.3	201	189	..	21	16555	195.6	201	192	..
80	16	18228	203.4	209	199	..	..	..	..	..	..	..	16	17842	198.6	204	194	..
70	15	19042	207.4	211	204	..	..	..	..	..	..	..	14	18635	201.1	206	194	..
60	14	19978	212.6	216	209	..	..	..	..	..	..	..	10	19572	204.3	209	198	..
50	13	21128	217.9	222	215	..	..	..	..	..	..	..	7	20680	206.3	213	199	..
40	7	22520	220.0	225	219	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

June, 1962 (Jyaistha 11—Asadha 9, 1884 Saka)

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

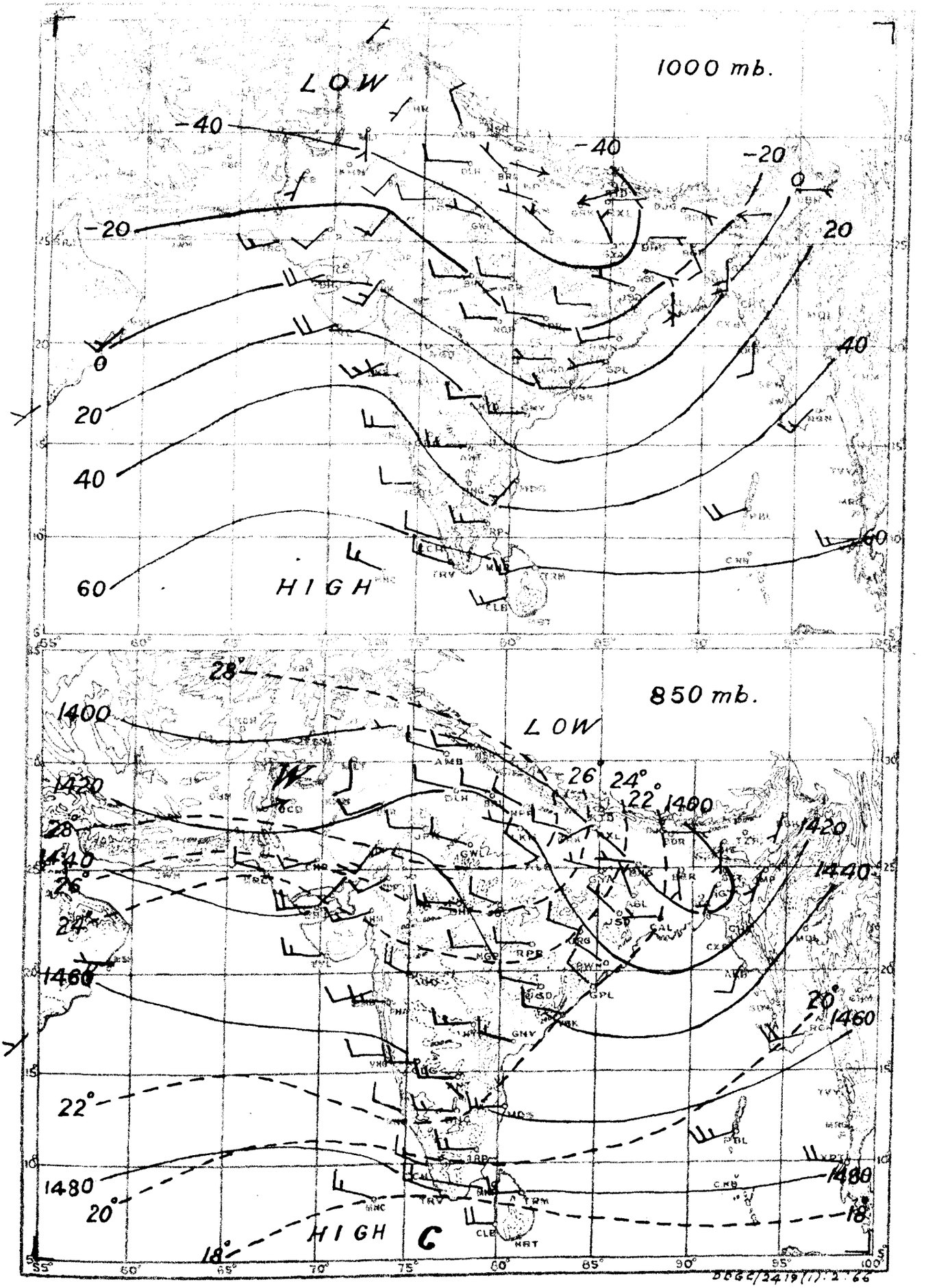
Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (995 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	041	303.6	307	298	297.7
1000	30	—002	..	..	..	..
900	30	937	298.5	305	294	290.5
850	30	1438	295.2	301	291	287.9
800	30	1963	291.5	297	286	284.9
700	30	3092	282.8	288	276	278.1
600	30	4357	275.2	280	271	271.3
500	30	5809	267.3	272	261	..
400	29	7530	256.9	263	249	..
300	23	9640	242.4	248	235	..
250	21	10926	232.9	240	224	..
200	20	12415	221.9	230	209	..
175	19	13250	215.3	221	204	..
150	19	14221	208.0	215	198	..
125	18	15299	202.0	210	192	..
100	17	16664	198.5	206	189	..
80	12	18010	199.7	207	193	..
70	12	18797	202.2	208	192	..
60	8	19709	205.9	213	194	..
50	6	20792	209.2	223	197	..
40						
30						
20						
10						

GIPN—S6—14 D. D.G. Obs.P./66—28-2-67—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JUNE 1962

I



DGGC/2419(1).2.66

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

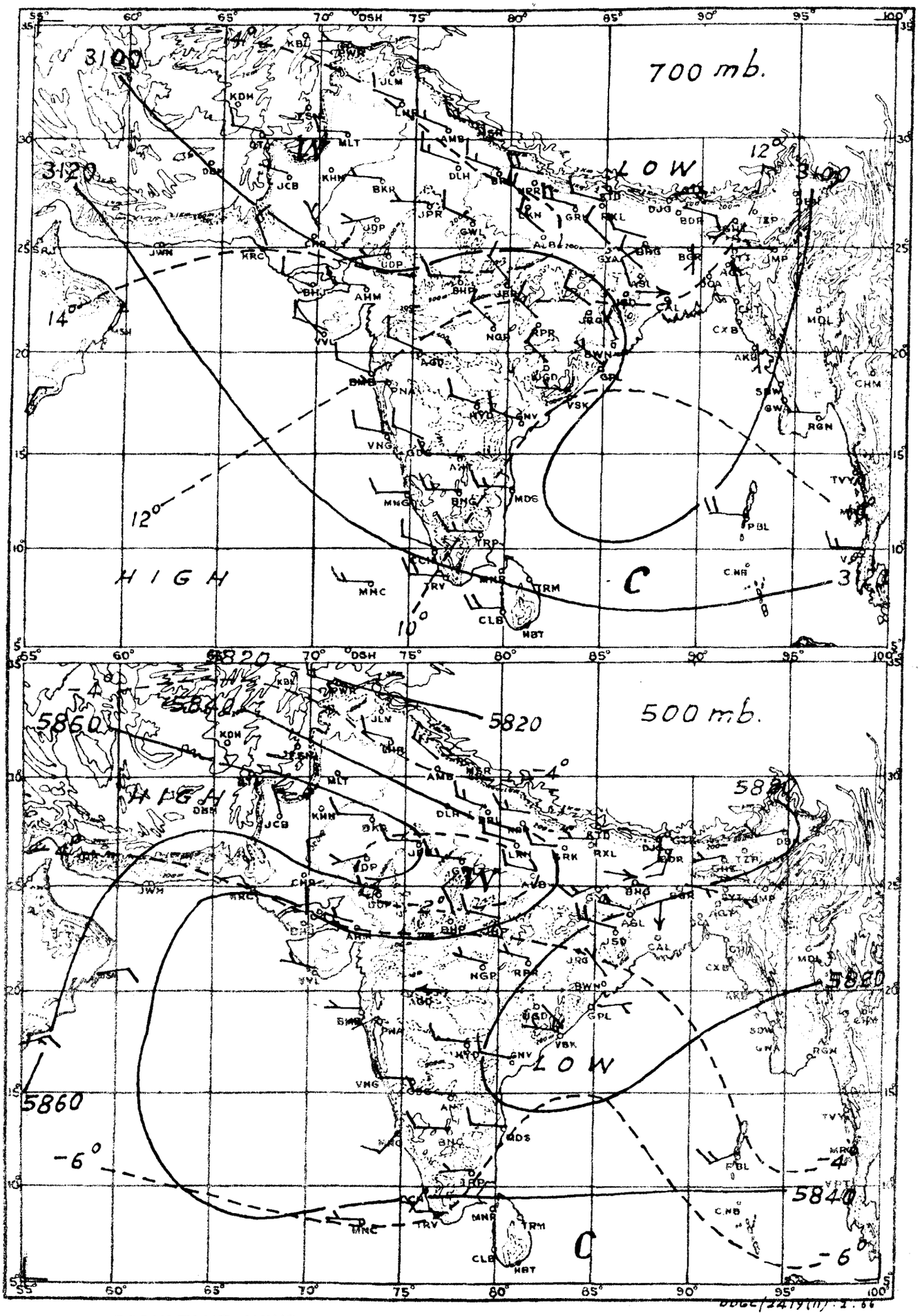
--------- Isotherms in degrees centigrade ——— Contours in geopotential metres.

G.P.O. POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JUNE 1962

I.Met.D. Plate II



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

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

Registered No. MH-75

INDIA WEATHER REVIEW, 1962

Monthly Weather Report

JULY

Published by authority of the Government of India

Chief features :

(i) Generally active monsoon conditions over the entire country;

(ii) A prolonged spell of heavy to very heavy rains in Kerala during the first half of the month leading to heavy floods;

(iii) Formation and movement of two depressions, one in the Arabian Sea and the other in the Bay of Bengal.

In association with an upper air cyclonic circulation that lay over coastal Andhra Pradesh and neighbourhood at the beginning of the month with a trough extending into east central Arabian Sea, the monsoon strengthened considerably in the Peninsula and central parts of the country. Some of the important amounts of rainfall recorded were : Sholapur 7 cm on 1st, Devgad 22 cm on 3rd and Mangalore 16cm on 4th.

An upper air cyclonic circulation which developed over east central Arabian Sea on 5th shifted northwards and intensified into a depression by 8th with its centre close to Porbandar. It became fairly deep by 9th morning when it was centred close to Dwarka. Thereafter, the depression persisted over Saurashtra and Kutch. During this period a low pressure area formed over the north and adjoining central Bay of Bengal on 8th and intensified into a deep depression by 11th morning with centre about 250 km east of Kalingapatam. Moving westnorthwestwards, it crossed coast near Gopalpur on 12th and progressively weakened. Continuing to move in the same direction it merged into the depression which was persisting over Saurashtra and Kutch by 14th. The system them moved westwards, weakened and became unimportant over northeast Arabian Sea by 15th.

Under the combined influence of the above two depressions, there was a revival and marked strengthening of the monsoon over the entire country. The monsoon continued to be active or vigorous along the west coast till 17th. Some of the noteworthy amounts of rainfall were : Veraval 16 cm on 8th, Fort Cochin 14 cm on 11th, Porbandar 29 cm on 12th, Dahanu 16 cm and Veraval 15 cm on 13th, Naliya 13 cm on 14th and Alleppey 15 cm on 15th. The Ghat section received some exceptionally heavy rains. Khandala recorded 36 cm of rain on 11th and 28 cm on 12th, Mahabaleshwar 25 cm on 13th and Mercara 14 cm on 9th. The prolonged spell of very heavy rains caused most of the rivers in Kerala to rise in spate and this resulted in serious floods there. According to official estimates, 24 persons lost their lives, nearly 20,000 acres of land under cultivation were affected and over 20,500 houses were damaged or destroyed. A good spell of monsoon rains also occurred in Uttar Pradesh and the Punjab(I) during the period 5th to 9th, Roorkee recording 11 cm of rain on 8th.

The active or vigorous monsoon conditions of last month over Assam and Sub-Himalayan West Bengal continued during the first week of this month also. Cherrapunji recorded an exceptionally heavy rainfall of 36 cm on 1st. The flood situation, therefore, remained unabated in the first week but began to improve in the second week. The monsoon activity was normal or sub-normal over the area for the rest of the month.

Under the influence of a low pressure wave from the east a well marked low pressure area formed over northeast Bay of Bengal on 14th. It moved westnorthwestwards and was over northwest Madhya Pradesh and neighbourhood on 17th. Later it took a more northerly course and moved to the Punjabs where it persisted until it merged with the seasonal low on 22nd. This caused well distributed rain over north India with some heavy or very heavy falls particularly in Rajasthan and the Punjab(I), the water level in some rivers in these areas was reported to have risen considerably causing floods. Some of the noteworthy amounts of rainfall were : Hoshangabad 20 cm on 18th, Abu 31 cm, Erinpura Road 23 cm, Ahmedabad 18 cm and Pilani 14 cm on 19th.

Another low pressure area formed over northeast Bay of Bengal on 20th. It moved initially westnorthwestwards and was practically stationary over north Madhya Pradesh and neighbourhood on 23rd and 24th. Later it moved northeastwards under the influence of a deep westerly trough moving eastwards across the northern parts of the country. The low was over Bihar State and neighbourhood on 25th. It persisted there till 29th but weakened progressively. However, again it revived under the influence of a western disturbance which was over West Pakistan and adjoining Punjab(I) on 26th as an upper air trough and which moved eastwards across Western Himalayas on 28th. Thereafter, the low pressure area persisted over east Uttar Pradesh and neighbourhood until it merged with the seasonal trough on 31st. In

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association with these developments the monsoon was fairly active in northeast India, Uttar Pradesh, the central parts of the country and in Western Himalayas. Some of the very heavy amounts of rainfall reported were : Kalimpong 19 cm and Sambalpur 13 cm on 22nd, Mandi 12 cm on 25th, Ambikapur 14 cm on 26th, Dehra Dun 15 cm on 27th, Allahabad 16 cm on 28th, Banda 15 cm on 30th and Jhansi 14 cm on 31st.

The monsoon became feeble in the Peninsula and in Gujarat and Rajasthan States in the last week of the month.

Rainfall for the month was in large excess in Kerala, in moderate excess in Rajasthan, Madhya Maharashtra, Telangana and south Interior Mysore and in slight excess in the Bay Islands, Orissa, west Uttar Pradesh, the Konkan, coastal Andhra Pradesh and north Interior Mysore. It was normal in west Madhya Pradesh, Saurashtra and Kutch, Vidarbha and coastal Mysore, in slight defect in Bihar Plateau, the Punjab(I), Jammu and Kashmir, east Madhya Pradesh, Gujarat Region and the Arabian Sea Islands, and in large defect in the Madras State. It was in moderate defect over the rest of the country outside Himachal Pradesh.l

Mean maximum temperature was above normal in Assam, Bihar State, Uttar Pradesh and west Madhya Pradesh and below normal in Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh. Mean minimum temperature was normal over the country outside Himachal Pradesh.

Mean relative humidity in the morning was above normal in north Interior Mysore and below normal in Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh.

Mean cloud amount in the morning was above normal in the Madras State, north Interior Mysore and the Arabian Sea Islands and was normal over the rest of the country outside Himachal Pradesh.

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

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

Poona 5;
The 16th February 1963;

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

Errata to M.W.R. for July - September 1962.

July 1962

Page No.	Station	Hour	Column	For	Read
Table I Sub-division					
351	18. Saurashtra and Kutch	-	4	Not clear	+0.4
351	20. Madnya Maharashtra	-	4	0.4	+0.4
351	24. Telangana	-	3	Blank	141
Table II					
352	Nancowry	-	10	102.3	102.2
352	Sibsagar	-	20(b)	3	23
355	Bhilwara	-	14,15	12,8	18,9
355	Kota (Aerodrome)	-	5	4	5
356	Champa	-	5	2,4	2,3
356	Keshod	-	11	444.5	344.5
358	Mangalore	-	12	149.2	+149.2
358	Calicut	-	5	,2	1,2
359	Maithon		20(b)	0	16
359	Maithon		22	16	0
Table III					
361	Foot Note	-	-	-	(k) Mean of 20 days.
364	Chandbali	1730	13	0.1	6.1
364	Puri	1730	3	4	6
364	Daltonganj	1730	3	211	221
364	Ranchi Aerodrome	0830	3	522	652
369	Kota (Aerodrome)	2330	23	10	0
369	Kota (Aerodrome)	2330	25	13	12
370	Guna	0830	12	3	-3
370	Nimach	1730	24	15	10
372	Jamnagar (Aerodrome)	1730	11	61	71
376	Mettur Dam R.S.	1730	15	8.	8.3
376	Mettur Dam R.S.	1730	27	Blank	1

Page	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
Table IV			July 1962			
384	Agartala	2330	0.3	n	30	28
385	Anantapur	1730	2.1	v	13.2	13.4
387	Bhubaneshwar	2330	3.6	V	4.7	4.8
387	Bikaner	0530	9.0	V	4.9	4.0
392	3rd line heading			Year	1862	1962
393	Madras	0530	4.5	n	3	30
393	Mangalore	2330	0.6	n	22	26
396	Trivandrum	2330	2.1	n	7	17
396	Vengurla	0530	0.15	v	8	8.8
397	Vijaywada	2330	0.9	v	13.6	12.6
397	Vishakhapatnam	1730	4.5	v	5.3	4.3
399	Trivandrum	0530	14.1	V	26.2	36.2
399	Trivandrum	0530	14.1	v	26.2	36.2
399	Vishakhapatnam	1730	16.2	V	32.3	32.2
399	Vishakhapatnam	1730	21.0	V	27.4	27.5

...2

Page	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
Radiosonde Data			July 1962			
400	First line of heading				14 stations	13 stations
402	Madras	00 hr	400 mb	Ht	7575	7475
402	Nagpur	00 hr	300 mb	Ht	9622	9622
402	Nagpur	00 hr	150 mb.	Ht	14189	14187
402	Nagpur	00 hr	70 mb.	Mean	206.6	201.6
405	Port Blair	12 hr	200 mb.	Mean	220.1	220.1
405	Trivandrum	12 hr	250 mb.	Mean	229.6	229.5

August 1962

Page No.	Station	Hour	Column	For	Read
Table I Division					
409	10 Gujarat State	-	8	-0.3	+0.3
409	12 Andhra Pradesh	-	5	0.3	-0.3
409	14 Mysore	-	4	+0.5	-0.5
Table I Sub-division					
409	1 Bay Islands	-	5	+0.3	-0.3
409	4 Gangetic West Bengal	-	7	81	82
Table II					
410	North Lakhimpur	-	9	2	20
410	Majbat	-	11	570.3	570.3
412	Lucknow	-	11	361.9	361.9
412	Lucknow (Amausi)	-	11	329.6	329.6
412	Varanasi (Babatpur)	-	11	132.3	432.3
412	Agra	-	4	375.5	37.5
412	Agra	-	12	+36.5	+36.4
413	Alwar	-	10	155.0	150.0
413	Nimach	-	11	210.9	210.8
413	Sagar	-	12	-463.6	+463.6
415	Khandala	-	10	1	delete
415	Khandala	-	11	452.4	1452.4
415	Chanda	-	11	75.4	275.4
415	Nizamabad	-	16	+1.3	+1.2
415	Foot Note	-	-	(b) Mean of 30 days	(b) Mean of 29 days
415	Foot Note	-	-	(c) Mean of 29 days	(delete.
416	Mahbubnagar	-	5	7,9	7
416	Madras (Nungambakkam)	-	22 and 23	7 and 0	0 and 7
416	Chitradurga	-	16	+26	+2.6
418	Ramgarh	-	6	24.	24.9
418	Ramgarh	-	18	234	2.4
418	Panchet Hills	-	6	25	25.8
418	Panchet Hills	-	18	6.	6.3
418	Dailek	-	14	7	3
418	Foot Note	-	-	-	(a) Mean of 30 days

Page No.	Station	Hour	Column	For	Read

Table III

Page No.	Station	Hour	Column	For	Read
419	Long Island	0830	25	1	6
421	Jharsuguda	1730	20;21	Blank	0;2
425	Jhansi	1730	5	971.	971.5
428	Kota (Aerodrome)	2330	17	blank	3
428	Kota	1730	18	8	18
428	Erinpura (Jawai Dam)	0830	13	1	18
428	Shivpuri	0830	15	1.5	12.5
429	Pendra	1730	25	blank	5
430	Surat	0830	22 to 27	2;20;6;0;3;0	0;2;20;6;0;3
435	Palayankottai	0830	11	52	57
439	Angbung	1730	10	23.5	23.3

Page	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry

Table IV — August 1962

Page	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
441	Allahabad	0530	Approximate times		0530	0530*
441	Allahabad	1130	-do-		1130*	1130
441	Anantapur		Latitude		14°14'	14°41'
445	Bhopal	2330	2.1	n	19	18
445	Bhubaneshwar	0530	6.0	v	0.5	5.5
445	Bhubaneshwar	1730	0.9	D	245	243
445	Bhuj/Rudramata	2330	4.5	V	3.0	6.0
448	Gauhati	1130	4.5	n	7	6
452	Poona	0530	1.5	V	0.3	10.3
455	Visakhapatnam	0530	-	Time in IST	0530	0530*
458	Visakhapatnam	1730	24.0	v	9.7	19.7

Radiosonde Data

Page	Station	Time	Height	Entry under column	Existing entry	Correct entry
460	Allahabad/Bamrauli	00 GMT	80 mb.	Ht. in gpm	18214	18274
464	Allahabad/Bamrauli	12 GMT	-	-	00 GMT	12 GMT
464	Madras/Minambakkam	12	100 mb.	Min.	182	185

September 1962

Page No.	Station	Hour	Column	For	Read

Table I - Division

Page No.	Station	Hour	Column	For	Read
469	2 West Bengal	-	5	54.4	25.4

Table I Sub-division

Page No.	Station	Hour	Column	For	Read
469	3 Sub-Himalayan West Bengal	-	2	177.1	-177.1

Table II

Page No.	Station	Hour	Column	For	Read
471	Dhanbad	-	21	—	0
472	Faizabad	-	13	5.77	57.7

Page No.	Station	Hour	Column	For	Read
Table II (contd.)			September 1962		
472	Sultanpur	-	10	20.6	200.6
472	Allahabad (Bamhrauli)	-	13	872.	87.2
472	Halwara Aerodrome	-	26	1	0
472	Patiala	-	13	1224.6	124.6
472	Foot note	-	-	-	(a) Mean of 30 days
473	Srinagar	-	12	+.5	+66.5
473	Jodhpur	-	19	3.4	-3.4
473	Dholpur	-	18	46	4.6
473	Nowgong	-	7	-0.7	-0.8
473	Rajgarh	-	15	2	12
474	Jagdalpur	-	12	-76.	-76.0
474	Jagdalpur	-	16	+0.	+0.4
474	Radhanpur	-	11	63.	63.3
474	Idar	-	28	2	0
474	Ahmadabad	-	28	0	2
474	Rajkot	-	21	Blank	0
474	Bhaunagar Aerodrome	-	23	0	6
474	Porbander	-	16	+.2	+1.2
474	Mahuva	-	11	21.32	213.2
475	Nander	-	11	17.0	317.0
475	Kakinada	-	3	-0.4	-0.1
477	Foot Note	-	-	(a) Mean of 27 days	(d) Mean of 27 days
478	Sonepur	-	11	58.8	50.8
478	Butwal	-	8	21.3	21.9
Table III					
479	Pasighat	1730	14	3.2	delete
479	Gohpur	1730	12	1.0	..
479	Gohpur	1730	13	blank	1.0
480	Kailashahar	1730	25;26	0;0	3;1
480	Jalpaiguri	0830	6	+0.5	-0.5
480	Jalpaiguri	0830	12	1	-1
482	Phulbani	1730	20	blank	0
482	Foot note	-	-	-	(b) Mean of 29 days. (g) Mean of 25 days. (p) Mean of 15 days.
483	Gaya	1730	5	998.4	988.4
484	Azamgarh	1730	23	0	1
484	Roorkee	1730	5	97.3	973.1
484	Aligarh	0830	14	+13	+1.3
485	Ambala (Aerodrome)	0830	10	28.9	28.1
485	Bhatinda	0830	5	81.09	981.0
486	Mandi	0830	14	+0.4	+0.1
488	Indore	0830	5	942.7	942.6
494	Cuddapah	1730	5	988.6	988.5
494	Salem	0830	14	1.1	+1.1
495	Honavar	1730	11	48	84
495	Belgaum	0830	15	4.	4.6

...5

Page No.	Station	Hour	Column	For	Read
Table III (contd.)			September 1962		
495					
Belgaum		1730	15	8.	8.9
495	Belgaum (Sarna)	0530	7	19.4	19.9
495	Belgaum (Sarna)	0530	11	9	95
496	Calicut	0830	6	+0.6	-0.6
497	Mukteswar (Kumaun)	1730	18	04	24
497	Mahabaleshwar	1730	2	13.1	18.1
498	Shiwai	0830	18 to 23	all zeroes	Dashes
499	Baramaqastra	0830	24	3	8

Page	Station	Time in G.M.T	Height in Km.	Entry under column	Existing entry	Correct entry
Table IV			September 1962			
501	Ahmedabad	2330	Approximate times of Height (I.S.T.)		-	2330
501	Bhubaneshwar	-	-	Lat. N	20°16'	20°15'
501	Dehra Dun	-	-	Date of opening	1948	1958
501	Jaipur	0530	Appr. times of flight		0530*	0530
506	Bombay	2330	5.4	D	233	210
506	Cochin	0530	2.1	D	29	293
509	Jabalpur	0530	3.0	V	4.7	5.7
511	Madras	0530	0.6	V	6.	6.7
512	Nagpur	2330	0.9	D	325	326
514	Tiruchirapalli	1730	6.0	D	01	042
515	Vishakhapatnam	0530	0.0	n	-	38
516	Vishakhapatnam	2330	3.0	n	1	19
517	Bombay/Santacruz	1730	16.2	V	10.9	20.9
517	Bombay/Santacruz	1730	11.2	v	28.0	18.0
518	Madras	0530	1.1	v	25.0	25.0
Radiosonde Data						
521	Ahmedabad	00 GMT	-	Sur. Pr.	997	998
521	Bangalore	00 GMT	700 mb.	Mean	282.7	282.6
521	Bangalore	00 GMT	600 mb.	Dew Point	271.1	271.2
522	Jodhpur	00 GMT	800 mb.	Mean	298.8	290.7
522	Madras	00 GMT	300 mb.	Ht. gpm.	1986	1987
522	Madras	00 GMT	600 mb.	Mean	275.3	275.8
522	Madras	00 GMT	400 mb.	Ht. gpm.	7599	7549
522	Madras	00 GMT	400 mb.	Mean	257.9	257.7
523	Nagpur	00 GMT	250 mb.	Ht. gpm.	10933	10983
522	New Delhi	00 GMT	900 mb.	-do-	953	957
522	New Delhi	00 GMT	70 mb.	-do-	19887	18987
522	Port Blair	00 GMT	350 mb.	Max.	298	293
522	Port Blair	00 GMT	200 mb.	Max.	241	231
523	Visakhapatnam	00 GMT	500 mb.	Ht. gpm.	5346	5846
523	Visakhapatnam	00 GMT	125 mb.	No. of Obs.	13	18
524	Allahabad	12 GMT	200 mb.	Mean	222.0	227.0
525	Nagpur	12 GMT	500 mb.	Ht. gpm.	5853	5835
525	Port Blair	12 GMT	600 mb.	Mean	274.3	275.3
525	Port Blair	12 GMT	800 mb.	Dew Point	271.1	272.1
525	Srinagar	12 GMT	125 mb.	Ht. gpm.	14541	15451
526	Trivandrum	12 GMT	900 mb.	Dew Point	293.7	289.7
526	Trivandrum	12 GMT	700 mb.	Min.	286	276
526	Trivandrum	12 GMT	175 mb.	Mean	212.9	213.9

Division	Rainfall (millimetres)	P	Mean maximum temperature °C.	Mean minimum temperature °C	Relative Humidity % 0830 hrs. IST.	Relative Humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
1. Assam (Including Manipur, Tripura).	278·5	72	32·4	25·5	84	78	6·4	5·5
	—110·2		+1·1	+0·7	—1		—0·2	
2. West Bengal	305·6	73	32·5	26·0	84	79	6·1	5·7
	—115·0		+0·8	+0·2	0		—0·4	
3. Orissa	400·1	113	30·5	25·2	86	83	7·1	6·9
	+46·6		—0·1	+0·1	+2		+0·7	
4. Bihar	241·0	75	33·3	25·9	80	74	6·5	6·1
	—80·5		+1·4	+0·4	—2		+0·2	
5. Uttar Pradesh	254·0	86	35·5	26·7	77	64	5·0	5·3
	—42·7		+2·1	+0·5	—3		—0·4	
6. Punjab(India)(Including Himachal Pradesh and Delhi)*.	194·1	81	36·3	26·2	73	57	3·9	3·7
	—45·2		+1·0	+0·2	—1		—0·5	
7. Jammu and Kashmir.	91·3	89	25·3	15·3	63	48	3·5	3·9
	—11·7		—2·8	—1·0	—7		—0·1	
8. Rajasthan	211·6	137	35·4	25·9	72	55	5·0	5·3
	+57·4		+0·4	—0·4	0		+0·2	
Sub-Division								
1. Bay Islands	449·6	115	28·9	24·5	86	89	7·6	7·5
	+57·7		+0·1	+0·6	+2		+1·0	
2. Assam(including Manipur, Tripura).	278·5	72	32·4	25·5	84	78	6·4	5·5
	—110·2		+1·1	+0·7	—1		—0·2	
3. Sub-Himalayan. West Bengal.	497·5	72	31·9	25·5	85	78	6·1	5·7
	—188·8		+0·4	+0·2	—1		0	
4. Gangetic. West Bengal.	235·8	73	32·7	26·2	83	79	6·1	5·7
	—88·1		+0·9	+0·2	0		—0·6	
5. Orissa	400·1	113	30·5	25·2	86	83	7·1	6·9
	+46·6		—0·1	+0·1	+2		+0·7	
6. Bihar Plateau	278·5	80	32·6	25·1	81	77	7·0	6·6
	—68·5		+1·4	+0·4	—1		+0·6	
7. Bihar Plains.	218·5	71	33·9	26·7	80	72	6·0	5·6
	—87·7		+1·4	+0·5	—2		—0·2	
8. Uttar Pradesh, East	222·5	69	35·5	26·8	78	64	5·5	5·2
	—98·5		+2·2	+0·4	—2		—0·1	
9. Uttar Pradesh, West	297·5	113	35·5	26·5	74	64	4·4	5·3
	+34·1		+1·9	+0·6	—4		—0·9	
10. Punjab (India) (including Delhi).	194·1	81	36·3	26·2	73	57	3·9	3·7
	—45·2		+1·0	+0·2	—1		—0·5	
11. Himachal Pradesh	406·1		32·5	23·3	81	65	4·3	3·6
	..		..	..	..		..	
12. Jammu and kashmir	91·3	89	25·3	15·3	63	48	3·5	3·9
	—11·7		—2·8	—1·0	—7		—0·1	
13. Rajasthan, West	103·8	126	37·7	27·2	70	48	3·9	4·0
	+21·6		+0·5	—0·1	+1		—0·2	
14. Rajasthan, East	319·3	141	33·6	24·8	74	62	6·0	6·4
	+93·1		+0·3	—0·6	—1		+0·6	
15. Madhya Pradesh	360·1	104	31·8	23·9	82	71	6·7	7·2
	+15·0		+1·2	+0·1	—2		+0·2	

Division	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C.	Relative humidity % 0830 hrs. IST.	Relative humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
9. Madhya Pradesh	354·1	93	31·5	23·9	83	74	6·9	7·2
	—25·8		+1·1	+0·1	—1		+0·3	
10. Gujarat State	238·7	88	32·8	25·9	85	72	6·6	6·7
	—32·7		+0·7	+0·1	+1		+0·2	
11. Maharashtra State	507·6	112	30·3	23·3	85	73	7·0	7·1
	+54·2		+0·3	+0·1	+2		+0·3	
12. Andhra Pradesh	206·1	124	32·4	24·9	78	66	6·8	6.9
	+40·4		—0·4	0	+2		+0·4	
13. Madras State	36·6	29	34·4	25·2	68	60	6·4	6·7
	—91·7		0	—0·1	+2		+1·5	
14. Mysore	411·4	115	28·1	21·7	87	76	7·4	7·4
	+52·6		—0·3	+0·4	+4		+0·9	
15. Kerala	819·5	152	28·6	23·3	91	86	6·8	6·9
	+280·1		+0·1	—0·1	+2		—0·1	
Sub-Division								
16. Madhya Pradesh (East)	346·3	82	31·1	23·8	85	77	7·1	7·3
	—77·6		+1·0	+0·1	+1		+0·4	
17. Gujarat Region	282·7	82	32·6	25·4	85	70	6·9	6·8
	—60·7		+0·8	+0·2	—1		+0·2	
18. Saurashtra and Kutch	214·2	93	32·9	26·2	85	73	6·4	6·6
	—17·1		+0·7	+0·1	+2		+0·2	
19. Konkan	913·5	111	29·2	24·7	89	86	7·4	7·5
	+93·8		0	+0·1	+2		+0·2	
20. Madhya Maharashtra	391·3	127	30·2	22·3	83	69	6·7	7·0
	+82·7		·4	+0·1	+3		+0·4	
21. Marathawada	138·4	74	31·2	22·3	82	60	6·9	6·9
	—49·6		+0·3	+0·1	+1		+0·1	
22. Vidarbha	339·3	101	31·3	23·6	84	70	7·0	7·1
	+4·8		+0·5	0	+1		+0·4	
23. Coastal Andhra Pradesh	179·5	122	32·8	25·6	77	67	6·8	7·0
	+32·1		—0·6	—0·2	+1		+0·5	
24. Telangana	330·8		31·1	23·9	82	67	6·9	7·0
	+95·6		—0·4	0	+3		+0·5	
25. Rayalaseema	60·4	65	33·7	24·8	73	59	6·5	6·8
	—32·1		0	+0·3	+3		+0·2	
26. Madras State	36·6	29	34·4	25·2	68	60	6·4	6·7
	—91·7		0	—0·1	+2		+1·5	
27. Coastal Mysore	1107·2	106	28·6	24·5	89	87	7·7	7·5
	+66·7		+0·3	+0·8	—1		+0·5	
28. Interior Mysore, North.	200·1	117	29·1	21·6	87	73	7·5	7·3
	+28·5		—0·5	+0·3	+7		+1·5	
29. Interior Mysore, South	294·4	130	26·9	20·5	86	73	7·2	7·3
	+67·2		—0·4	+0·4	+3		+0·4	
30. Kerala	819·5	152	28·6	23·3	91	86	6·8	6·9
	+280·1		+0·1	—0·1	+2		—0·1	
31. Arabian Sea Islands	204·5	78	30·1	25·1	83	81	7·5	7·7
	—58·0		+0·5	0	+2		+1·7	

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3 mm. or mor)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Ice squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar*	29·4	..	32	2	23·5	..	22.2	8	137·6	396·4	..	112·0	19	23	..	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Long Island	29·9	..	31·7	30	24·7	..	22·6	8	193·0	420·4	..	146·4	19	17	..	8·6	6·7	..	1	20	0	0	5	0	0	0	0	3	0
Port Blair	28·9	+0·1	30·5	17	24·5	+0·6	22·2	20	190·7	449·6	+57·7	80·1	7	17	—3·5	27·5	23·4	—2·2	3	24	0	0	4	0	0	0	0	9	0
Car Nicobar	30·1	..	31·4	16	25·3	..	22·2	7	92·3	396·8	..	129·3	7	14	..	9·1	6·5	..	1	21	0	0	3	0	0	0	0	0	0
Nancowry	29·8	..	31·4	27	25·2	..	21·7	8	102·3	256·0	..	55·6	19	15	..	9·8	9·2	..	0	21	0	0	9	0	0	0	0	0	0
Kondul	29·3	..	30·0	16,26	24·7	..	22·6	18,21	53·6	318·3	..	44·4	18	18	..	..	..	..	2	25	0	0	13	0	0	0	0	0	0
Assam including Manipur and Tripura).																													
Pasighat	31·9	..	37·1	15	24·0	..	21·9	3	150·2	758·1	..	138.6	17	19	..	4·3	4·3	..	0	20	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari).	32·2	+1·8	35·4	10	25·0	+0·9	23·4	1	63·6	335·2	—201·3	67·7	29	18	—3·3	5·5	3·6	—0·3	0	21	0	0	10	0	0	0	0	0	0
Digboi	(R)																												
North Lakhimpur.	32·2	+1·2	36·3	15	25·1	+0·5	23·6	15	48·9	633·9	+18·1	82·0	29	16	—6·1	6·5	4·5	..	0	22	0	0	8	0	0	0	0	0	0
Sibsagar	33·2	+1·4	36·0	15	26·0	+0·6	24·3	29	62·3	305·3	—151·6	74·0	11	15	—4·7	3·2	2·6	—0·9	0	3	0	0	17	0	0	0	0	0	0
Gohpur	33·4	..	36·6	15	23·1	..	21·1	6,8	32·8	250·1	..	52·2	29	12	..	4·8	3·2	..	0	13	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	0	272·3	..	47.2	2	12	..	5·0	2·5	..	0	13	0	0	1	0	0	0	0	0	0
Jorhat (Aerodrome)	33·1	..	35·7	15	25·8	..	24·1	29	23·4	208·1	..	41·4	29	12	..	..	..	..	0	13	0	0	17	0	0	0	0	0	0
Tangla	34·1	..	37·2	15	25·7	..	23·1	2	24·5	138·6	..	40·5	26	10	..	0·5	0·6	..	0	10	0	0	0	0	0	0	0	0	0
Tezpur	33·0	+1·1	36·7	16	23·3	—2·0	21·2	2,3	4·8	241·9	105·2	47·6	22	11	—5·9	3·6	2·5	0·2	0	17	0	0	10	0	0	0	0	0	0
Golaghat	34·2	..	..	..	25·4	..	23·9	12	(o) 29·4	(d) 286·4	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Rangia	34·2	..	37·3	15	24·9	..	22·2	2	116·0	310·2	..	145.0	26	9	..	..	2·7	..	0	9	0	0	0	0	0	0	0	0	0
Chaparmukh	34·2	..	37·8	15	26·4	..	24·4	2	16·0	300·5	..	60·6	8	12	..	6·4	5·2	..	0	12	0	0	0	0	0	0	0	0	0
Goalpara	33·0	..	36·7	15	25·4	..	23·0	3	40·8	335·2	..	98·8	28	13	..	4·1	1·9	..	0	15	0	0	0	0	0	0	0	0	0
Gauhati	33·6	+1·5	37·2	15	27·0	+1·3	23·9	2	57·0	165·3	—146·6	38·8	15	9	—6·3	..	..	..	0	17	0	0	1	0	0	0	0	0	0
Gauhati(Bhorjor)	32·9	+1·3	36·0	15	26·2	+1·0	22·6	2	63·1	180·7	—131·2	36·5	30	8	—7·3	8·6	5·8	..	3	10	0	0	14	0	0	0	0	0	0
Dhubri (Rupsi)	32·5	..	36·2	15	25·7	..	22·8	3	175·7	293·9	..	82·0	3	12	..	6·6	4·5	..	1	15	0	0	15	0	0	0	0	0	0
Dhubri	31.4	+1.4	33.9	12	26.7	+1.0	22.8	3	131.3	193.8	—242.3	65.6	3	11	—5.1	6.2	5.5	—0.5	0	13	0	0	7	0	0	0	0	0	0
Lumding	34.7	+1.8	37.9	15	27.5	+2.8	26.1	19	10.6	75.7	—117.1	16.1	29	9	—2.5	5.6	1.7	..	0	9	0	0	1	0	0	0	0	0	0
Tura	29.9	..	33.3	15	21.7	..	19.7	19	134.8	249.0	..	39.5	3	19	..	6.1	5.5	..	1	24	0	0	0	0	0	0	0	0	0
Haflong	29.5	..	32.7	12	22.3	..	20.3	3	30.2	250.1	—50.4	39.4	1	15	—3.9	..	..	..	0	21	0	0	4	0	0	0	0	0	0
Silchar (Kumbhirgram)	33.2	..	37.2	11	24.9	..	23.5	8	45.3	452.6	..	78.0	31	16	..	5.3	4.7	..	1	20	0	0	11	0	0	0	0	0	0
Silchar	31.3	—1.0	34.8	15	25.7	+0.6	24.4	8	69.8	399.0	—122.2	64.0	28	19	—3.7	2.9	1.7	—1.0	0	24	0	0	14	0	0	0	0	0	0
Imphal(Tulihal)	29.3	+0.9	32.0	13	22.2	+0.4	21.1	8,23	69.1	293.9	+41.4	71.6	23	16	—1.7	6.2	4.4	—2.1	0	24	0	0	6	0	0	0	0	0	0
Kailashahar	32.9	..	37.1	15	25.1	..	23.3	18	131.5	342.2	..	63.0	18	16	..	4.5	3.0	..	2	20	0	0	18	0	0	0	0	0	0
Agartala	32.2	+1.0	36.4	15	25.4	+0.6	24.2	18	78.4	267.1	—113.4	86.7	18	14	—2.6	10.7	9.1	—0.4	1	22	0	0	11	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	32.1	+1.1	40.4	14	24.7	0	21.9	19	137.0	568.5	—280.0	153.8	6	19	—3.9	14.4	12.0	+4.5	0	21	0	0	11	0	0	0	0	0	0
Jalpaiguri	30.3	—1.1	36.1	15	25.5	+0.3	23.4	3	145.6	517.9	—300.5	139.4	2	16	—6.3	10.1	7.2	+4.0	1	20	0	0	4	0	0	0	0	0	0
Cooch Behar	32.4	..	36.5	15	25.7	..	23.4	2,3	166.1	511.2	—275.4	153.0	2	18	—2.5	6.5	4.2	..	0	21	0	0	13	0	0	0	0	0	0
Balurghat	33.2	..	37.7	15	24.9	..	22.4	17	68.4	165.4	..	35.8	28	12	..	11.8	6.6	..	0	18	0	0	0	0	0	0	0	0	0
Malda	33.3	+1.2	38.3	15	26.3	+0.2	23.3	1	95.2	392.4	+100.8	98.6	18	15	+0.2	8.0	7.1	—1.4	0	19	0	0	7	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore	33.1	+1.0	35.7	15	24.2	—1.9	21.1	27	28.5	187.1	—89.0	45.0	18	16	—0.1	6.5	4.7	—0.8	0	19	0	0	0	0	0	0	0	0	0
Suri	33.3	..	37.7	15	26.0	..	22.6	3	..	148.0	..	37.2	16	12	..	..	..	..	0	17	0	0	7	0	0	0	0	0	0
Asansol	32.8	+0.7	37.1	15	26.1	+0.7	23.7	3	81.5	237.7	—110.0	54.0	29	15	—2.7	10.7	8.0	+0.1	2	17	0	0	10	0	0	0	0	0	0
Shanti Niketan	33.1	..	35.8	15	25.8	..	23.2	3	127.9	326.7	..	43.1	28	18	..	6.2	5.1	..	0	22	0	0	14	0	0	0	0	0	0
Krishnanagar	33.3	+1.1	35.0	14,15 21	26.7	+0.8	25.0	17	59.9	161.7	—124.0	31.5	1	13	—3.3	5.3	4.4	—1.4	0	17	0	0	5	0	0	0	0	0	0
Purulia	32.8	+1.1	36.7	1	25.7	+0.7	23.7	19	80.8	296.8	—42.0	52.6	16	14	—4.3	7.3	5.6	—0.4	0	16	0	0	2	0	0	0	0	0	0
Bankura	31.0	..	37.0	15	..	..	..	..	136.7	321.1	—8.6	115.2	28	16	+0.3	3.3	3.3	..	1	20	0	0	0	0	0	0	0	0	0
Burdwan	34.1	+1.8	36.6	1	26.1	0	23.8	2	132.1	220.9	—104.2	88.0	29	11	—5.0	15.8	(a) 10.4	+6.2	0	12	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome).	32.8	..	34.4	9	26.2	..	24.6	16	135.1	242.3	..	57.8	16	13	..	..	..	..	0	18	0	0	14	0	0	0	0	0	0
Calcutta (Dum Dum).	32.9	+1.1	34.5	11	26.3	+0.2	24.3	19	91.5	151.9	—164.0	29.4	30	12	—6.1	11.9	8.9	—2.9	2	13	0	0	7	0	0	0	0	0	0
Calcutta	33.3	+1.4	36.4	1	26.7	+0.8	24.1	19	135.3	257.2	—68.2	60.0	16	13	—4.5	6.1	4.3	—1.7	0	22	0	0	11	0	0	0	0	3	0
Midnapore	32.6	+0.5	35.7	5	26.2	+0.1	23.3	15	178.2	253.4	—70.2	43.9	19	14	—2.3	8.0	6.2	+2.2	0	16	0	0	0	0	0	0	0	0	0
Contai	31.4	+0.6	33.3	15	26.5	+0.2	24.5	15	12.7	244.5	—58.5	68.6	21	12	—2.8	14.6	12.2	—0.3	0	15	0	0	0	0	0	0	0	0	0

(a)—Mean of 30 dyas. (o) Total for 16 days. * Data prepared daily telegrams. (d) Total for 27 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*Contd.*)																													
Sagar Island	30.8	0	32.1	15	27.2	+0.5	24.6	21	39.0	261.6	—130.6	28.2	15	16	—0.5	24.2	24.0	+4.5	1	20	0	0	9	0	0	0	0	0	0
Sandheads	30.7	..	32.7	10	27.1	..	25.0	15	49.9	229.9	—48.2	40.8	19	13	+0.3	..	..	..	2	18	0	0	3	0	0	0	0	0	0
Orissa																													
Baripada	32.9	..	35.1	1	26.0	..	23.3	15	96.2	206.4	..	35.8	29	17	..	3.3	2.3	..	0	21	0	0	16	0	0	0	0	0	0
Jharsuguda	30.8	—0.1	34.9	5	24.8	+0.2	22.8	16	173.2	378.7	—55.6	59.0	7	16	—2.8	11.0	9.5	—0.1	1	22	0	0	13	0	0	0	0	2	0
Keonjhargarh	29.8	..	34.3	1,5	23.6	..	22.7	16	174.9	293.8	..	47.6	16	16	..	8.9	7.1	..	0	21	0	0	2	0	0	0	0	0	0
Balasore	31.9	+0.2	33.9	15	26.3	+0.5	23.9	16	68.5	140.3	—159.4	32.5	22	14	—0.1	12.4	9.7	+2.8	0	18	0	0	16	0	0	0	0	0	0
Sambalpur	31.7	+1.0	35.6	3	24.6	—0.5	22.6	16	118.1	511.1	—11.1	131.0	22	21	+1.4	9.0	8.3	+2.0	0	24	0	0	4	0	0	0	0	0	0
Angul	..	..	..	..	..	..	..	..	115.5	245.3	—71.4	37.0	22	14	—1.2	10.9	7.9	—0.1	0	17	0	0	11	0	0	0	0	0	0
Cuttack	32.5	+0.6	36.7	3	25.9	+0.2	24.8	16	204.8	317.4	—10.0	62.0	11	15	—0.9	9.4	7.6	+3.4	0	19	0	0	9	0	0	0	0	0	0
Chandbali	32.0	+0.8	35.0	1	26.7	+1.1	24.4	20	190.0	251.4	—173.8	82.2	22	12	—4.8	14.1	10.6	—0.8	0	15	0	0	0	0	0	0	0	0	0
Bolangir	31.8	..	36.8	12	24.5	..	22.6	10	258.6	493.8	..	152.0	26	15	..	7.3	9.5	..	0	19	0	0	0	0	0	0	0	0	0
Phulbani	29.1	..	33.4	3	23.2	..	22.1	26,31	89.3	264.7	..	42.2	8	16	..	5.3	4.8	..	0	25	0	0	1	0	0	0	0	0	0
Titlagarh	31.9	..	40.1	4,5	23.7	..	22.3	26, 29, 30	255.8	510.1	..	131.0	16	20	..	5.8	4.5	..	0	21	0	0	0	0	0	0	0	0	0
Bhubaneswar	31.4	—0.1	34.6	2	25.3	—0.2	23.2	8	304.0	456.1	+154.6	77.4	8	19	+4.1	13.6	9.1	6.8	1	21	0	0	17	0	0	0	0	0	0
Puri	30.7	0	32.5	4	26.7	+0.1	23.9	29	342.8	536.7	+274.6	151.3	9	12	0	22.2	20.6	+2.4	0	14	0	0	0	0	0	0	0	0	0
Gopalpur	30.6	—0.3	32.9	8	26.1	—0.1	23.7	16	200.4	294.1	+112.2	76.0	16	11	+1.3	19.8	16.0	+1.7	3	13	0	0	8	0	0	0	0	2	0
Koraput	22.6	—2.9	26.1	1	20.0	—0.4	18.3	4	245.2	870.3	+405.7	187.6	12	25	+5.1	..	..	..	0	25	0	0	6	0	0	0	0	0	0
Bihar Plateau																													
Dumka	33.1	+1.2	37.8	15	25.8	+0.2	23.5	3	101.2	223.3	127.2	39.4	1	17	1.0	9.3	7.0	+3.3	0	21	0	0	3	0	0	0	0	0	0
Daltonganj	34.3	+1.5	39.7	3	26.5	+0.9	23.2	16	163.0	282.4	58.0	85.4	16	12	3.6	10.4	6.9	+1.1	0	18	0	0	0	0	1	0	0	0	0
Hazaribagh	30.7	+1.1	36.2	3	23.7	+0.4	21.8	20	157.0	320.0	—11.0	59.7	16	14	3.8	11.3	9.2	—0.6	0	21	0	0	9	0	0	0	0	0	0
Dhanbad	33.1	..	44.0	22	25.2	..	22.9	19	121.6	231.2	..	56.2	19	15	..	10.0	8.0	..	0	19	0	0	4	0	0	0	0	0	0
Ranchi	31.3	+2.2	35.4	3	23.0	+0.1	21.9	16	221.3	367.6	—24.8	75.5	19	14	—4.5	8.8	6.3	—1.7	0	14	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	29.8	..	34.6	1	23.4	..	22.1	16,20	..	204.4	..	39.3	17	14	..	..	11.2	..	1	15	0	0	6	0	0	0	0	0	0
Jamshedpur	33.5	+1.7	37.3	1	26.3	+0.4	24.6	19	128.5	223.4	—110.9	43.8	16	14	—3.4	10.9	8.1	+1.3	0	17	0	0	5	0	0	0	0	0	0
Jamshedpur (P. B.O.)	33.0	..	36.2	1,3	25.8	..	23.9	19	120.3	222.1	..	42.4	16	13	..	10.3	8.2	..	3	16	0	0	15	0	0	0	0	0	0
Chaibasa	32.7	+0.8	37.2	3	25.5	+0.2	23.6	19	115.4	253.3	—79.2	48.6	16	12	—4.2	6.2	4.5	+0.5	0	18	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	31.4	—0.9	35.6	10	26.1	+0.2	22.2	5	(c) 200.6	(a) 439.4	..	..	..	..	..	(f) 5.4	(g) 5.2	—2.0	..	..	..	..	..	..	..	..	..	..	..
Forbesganj	33.5	..	38.1	15	25.7	..	23.8	3	99.8	292.2	..	80.0	7	18	..	9.7	7.2	..	0	24	0	0	11	0	0	0	0	0	0
Darbhanga	33.7	+1.6	39.1	15	25.7	—0.6	21.0	5	50.8	228.8	—79.1	50.8	27	11	—2.9	10.9	9.7	+4.1	0	11	0	0	1	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	179.7	—144.9	43.1	13	9	—5.0	..	..	..	0	11	0	0	0	0	0	0	0	0	0
Chapra	34.7	..	40.2	2	26.8	..	24.6	6	157.2	315.2	+8.6	82.4	26	12	—1.8	12.0	7.6	..	0	14	0	0	8	0	0	0	0	0	0
Purnea	32.6	+0.6	37.4	15	26.5	+0.6	24.6	3	95.4	152.3	—211.4	43.6	27	13	—3.6	8.4	5.5	+1.3	0	15	0	0	6	0	0	0	0	0	0
Patna	35.0	+2.4	40.6	2	27.6	+1.0	25.3	18,20	87.4	141.2	—152.9	26.2	30	10	—3.7	9.1	8.7	+1.8	0	13	0	0	3	0	0	0	0	0	0
Patna Aerodrome	34.9	..	40.0	1	27.3	..	25.1	20	171.7	273.2	..	90.5	26	11	..	11.1	8.7	..	1	14	0	0	11	0	0	0	0	1	0
Arrah	..	..	..	..	..	..	..	..	..	199.0	—131.7	87.8	26	9	—5.5	..	..	..	0	13	0	0	0	0	0	0	0	0	0
Bhagalpur	33.8	+1.3	39.0	15	26.8	+0.6	24.4	17,19	80.7	229.1	—23.9	55.0	19	13	—0.3	9.3	7.3	+0.7	1	14	0	0	16	0	0	0	0	0	0
Sabaur	33.6	+1.2	37.7	2	26.9	+0.6	24.3	19	97.1	273.3	+20.3	130.8	19	12	—3.1	12.1	9.2	—0.5	0	15	0	0	11	0	0	0	0	0	0
Jamui	35.1	..	40.2	17	27.5	..	24.6	18,19	69.8	238.3	..	62.6	19	11	..	8.9	6.5	..	1	16	0	0	0	0	0	0	0	0	0
Dehri	35.7	..	42.2	1	27.5	..	24.3	19	75.4	262.2	—30.4	58.4	18	8	—6.2	8.4	7.7	..	0	9	0	0	4	0	0	0	0	0	0
Gaya	34.9	+1.5	40.4	3	26.5	+0.6	17.2	22	72.7	203.7	—131.8	43.4	26	11	—4.8	14.5	11.6	+2.4	0	14	0	0	13	0	0	0	0	2	0
Uttar Pradesh (East)																													
Kheri	(R)																												
Bahraich	34.6	+1.3	41.5	3	23.7	—2.5	21.1	5	77.3	312.1	+1.2	69.0	5,16	11	0.9	12.5	9.5	+5.0	0	13	0	0	2	0	0	0	0	0	0
Nautanwa	..	..	..	..	..	..	..	..	137.3	456.6	..	191.2	5	11	..	11.4	8.2	..	0	11	0	0	0	0	0	0	0	0	0
Hardoi	36.1	+2.5	42.0	3	27.3	+0.7	24.3	30	120.8	162.6	—172.1	62.0	30	9	—2.5	11.6	8.4	+1.3	0	15	0	0	1	0	0	0	0	0	0
Gond	34.7	+1.8	41.2	3	27.4	+1.1	23.4	5	104.2	222.6	—150.0	63.6	19	12	—2.0	8.1	7.0	+1.0	0	13	0	0	2	0	0	0	0	0	0
Lucknow	35.6	+2.0	41.0	3	26.2	—0.2	23.2	16	42.5	183.0	—121.8	95.6	25	11	—2.4	5.8	4.2	+0.7	0	12	0	0	3	0	0	0	0	0	0
Lucknow (Amausi)	35.5	+1.9	41.4	3	26.5	+0.6	24.1	16,25	44.6	127.1	—177.7	27.6	25	9	—4.4	16.0	11.8	..	0	11	0	0	9	0	2	0	0	1	0
Faizabad	33.8	..	40.3	3	26.7	..	23.2	6	158.6	417.4	..	104.5	25	13	..	5.6	4.1	..	0	15	0	0	6	0	0	0	0	0	0
Gorakhpur	34.1	+1.4	39.6	3	25.3	—0.9	21.7	5	113.6	376.9	+30.7	127.3	6	15	+0.7	..	..	..	0	18	0	0	0	0	0	0	0	0	0
Kanpur	36.5	+2.9	42.9	3	27.7	+1.1	24.9	19	55.8	91.8	—181.3	22.2	31	10	—2.5	15.6	12.8	+1.1	0	11	0	0	1	0	0	0	0	0	0
Kanpur (Aerodrome)	36.7	..	43.3	3	28.2	..	25.3	18	67.2	68.4	..	19.1	17	7	..	..	..	..	0	12	0	0	9	0	3	0	0	0	0

(a) Total Mean of 30 days. (c) Total Mean of 28 days. (f) Mean of 25 days. (g) Mean of 24 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed m. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 4 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or mor)	snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(*Contd.*)																													
Sultanpur	34.7	..	41.7	2,3	26.8	..	23.6	8	98.2	189.2	..	52.2	29	7	..	10·1	7.0	..	0	8	0	0	3	0	0	0	0	0	0
Ajamgarh	35.1	..	41.1	2,3	24.4	..	22.1	6,15	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	36.7	+2.8	44.0	4	27.7	+1.2	24.6	18	35.5	64.1	—254.2	18.8	18	7	—6.9	10.0	7.2	+1.4	1	9	0	0	3	0	0	0	0	0	0
Ballia	36.2	..	43.0	3	26.0	..	24.0	19,26, 31	114.6	274.0	..	119.2	26	9	..	2.3	2.2	..	0	9	0	0	0	0	0	0	0	0	0
Banda	37.8	..	44.2	3	26.2	..	23.0	20	200.1	330.2	..	48.6	17	10	..	5.0	4.9	..	0	14	0	0	0	0	0	0	0	0	0
Allahabad (Bamhranil).	36.3	+2.9	43.5	3,4	27.5	+0.9	24.4	28	100.4	326.9	+7.9	155.8	28	8	—7.2	9.0	7.5	—0.2	1	15	0	0	13	0	0	0	0	1	0
Varanasi (Babatpur).	35.3	+2.3	42.8	3	27.4	+1.0	24.1	20	67.9	324.0	—21.8	103.9	28	13	—2.1	16.0	13.6	+2.3	1	15	0	0	10	0	0	0	0	0	0
Varanasi	35.6	+2.2	41.7	2	27.6	+1.1	23.9	28,29	68.2	256.0	—44.0	79.8	28	12	—2.3	9.2	7.5	+1.9	0	13	0	0	2	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mu Khim (R)																													
Tehri (R)																													
Dehra Dun	31.5	+1.2	38.5	3	23.2	0	20.4	6	259.7	650.3	—17.7	152·1	27	19	—1.3	5.0	3.7	+1.1	0	23	0	0	14	0	0	0	0	0	0
Roorkee	34.6	+1.2	42.8	3	25.9	+0.3	23.6	17	150.6	387.1	+74.7	152.4	16	13	+1.1	9.0	6.4	+2.4	0	18	0	0	11	0	0	0	0	0	0
Mansiari (R)																													
Najibabad	34.9	..	41.2	4	25.3	..	22.3	6	76.6	404.6	..	83.6	27	12	..	6.0	5.0	..	0	18	0	0	24	0	0	0	0	0	0
Meerut	35.2	+1.1	41.7	4,5,6	26.2	—0.2	23.8	9	..	115.5	—102.7	47.0	19	4	—6.3	..	16.1	..	1	11	0	0	0	0	0	0	0	0	0
Barlilly	35.7	+2.3	42.0	3	27.2	+1.1	24.8	28	72.2	163.9	—165.3	45.0	29	11	—1.8	11.3	82	+4.7	0	13	0	0	6	0	0	0	0	0	0
Aligarh	36.5	+1.9	43.4	6	27.0	+0.3	23.4	6	44.7	216.8	6.0	80.8	22	10	0.3	16.7	15.5	+8.1	0	10	0	0	1	0	2	0	0	0	0
Mainpuri	37.3	+2.2	44.5	5	28.2	+1.4	25.3	18,19, 21	93.4	176.2	—15.3	47.6	21	9	—1.4	2.6	2.6	—0.9	0	11	0	0	2	0	0	0	0	0	0
Agra	37.0	+2.7	43.4	6	27.6	+0.7	17.0	23	97.2	215.4	—1.8	53.0	22	11	0	9.8	6.5	—0.6	0	11	0	0	0	0	1	0	0	0	0
Agra (Aerodrame).	37.1	..	43.6	6	27.8	..	23.9	25	43.1	242.8	..	83.0	30	9	..	..	..	..	0	14	0	0	16	0	1	0	0	0	0
Orai (R)																													
Jhansi	36.2	+2.5	42.6	4	27.0	+1.1	24.0	8	240.4	454.5	+154.5	137.3	31	12	—1.8	4.4	3.5	—3.3	0	13	0	0	0	0	0	0	0	0	0
Punjab (India) Including Delhi																													
Pathankot	35.2	+1.1	43.1	6	24.7	—0.3	20.6	7	108.5	263.5	—180.4	39.4	7	13	—0.6	9.3	8.3	—0.7	0	16	0	0	13	0	0	0	1	0	0
Amritsar (Rajasansi)	36.3	+0.8	43.1	6	25.9	0	21.4	12	102.4	130.4	—83.6	49.0	20	5	—3.8	14.0	11.7	+0.8	1	6	0	0	9	0	3	0	0	0	0
Adampur (Aerodrome)	35.3	..	41.9	6	25.6	..	21.7	20	133.7	423.6	..	141.7	19	10	..	..	..	..	0	10	0	0	11	4	0	0	0	1	0
Ludhiana	38.0	+1.7	44.6	6	26.9	+0.1	21.4	13	227.1	359.6	+154.6	86.2	13	10	+1.6	9.6	5.9	+2.7	0	10	0	0	4	0	1	0	0	0	0
Ferozepur	37.0	..	42.5	6	27.4	..	24.0	21	44.2	79.2	..	55.8	20	5	..	5.0	3.5	..	0	5	0	0	1	0	2	1	0	0	0
Halwara (Aerodrame).	36.5	..	43.1	6	26.1	..	21.6	13	127.9	319.7	..	89.2	18	6	..	..	..	..	0	7	0	0	4	0	1	0	0	0	0
Chandigarh	35.4	+1.6	41.4	4	26.1	+1.7	21.9	7	47.9	138.7	—137.8	43.1	7	10	—0.6	12.0	8.2	..	0	11	0	0	0	0	0	0	0	0	0
Ambala	36.1	+0.8	43.2	5	26.4	+0.2	22.4	7,8	107.9	243.3	—0.8	73.6	7	8	—2.6	3.1	2.6	—2.4	1	9	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome).	34.8	..	42.4	4	26.0	..	21.1	19	148.8	269.2	..	109.0	24	8	..	..	..	..	1	10	0	0	7	0	0	0	0	0	0
Patiala	36.0	..	42.8	5,6	26.8	..	23.2	10	59.8	90.3	—153.0	32.0	10	7	—0.7	10.4	8.6	..	0	9	0	0	2	0	0	0	0	0	0
Bhatinda	38.9	..	43.3	5,6	27.3	..	23.3	19,20	34.4	148.0	..	94.5	20	5	..	8.8	6.0	..	0	6	0	0	1	0	0	0	0	0	0
Karnal	36.6	..	42.5	4	25.6	..	22.0	8	83.0	202.6	..	54.0	10, 19	6	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Hissar	37.6	0	43.7	30	26.6	—0.7	23.0	20	100.6	126.2	+17.5	40.4	20	7	+1.0	10.7	+9.6	+0.7	0	8	0	0	6	0	0	0	1	0	0
New Delhi Safdarjung	35.8	+0.7	42.0	6	27.0	+0.1	23.5	8	177.2	200.7	+22.1	57.6	9	10	+1.0	12.4	10.9	+0.6	0	11	0	0	8	0	1	0	0	5	0
Palam (Aerodrom).	36.0	..	42.8	5	27.0	..	24.4	8,9,20	269.6	299.6	..	119.3	9	10	..	..	..	..	0	11	0	0	12	0	2	0	0	1	0
Himachal Pradesh																													
Mandi	32·0	+0·8	39·5	6	22·4	+0·5	21·0	1	82·0	533·8	—13·3	122·0	25	19	—1·3	4·4	3.1	+0·5	0	21	0	0	4	2	0	0	0	0	0
Bilaspur	33·0	..	40·2	6	24·1	..	21·0	7	83·4	278·5	..	55·0	29	14	..	3·8	2·5	..	0	17	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	1·4	—14·6	1·0	20	0	—1·6	..	..	..	0	2	0	0	0	0	1	0	0	0	0
Sonemerg†																													
Leh	24·9	—0·2	29·3	24	10·2	0	4·7	20	0·5	2·4	—9·5	0·8	19	0	—1·4	6·5	6·5	+3·4	0	4	0	0	1	0	0	0	0	0	0
Srinagar	20·3	—10·7	35·0	17	18·7	+0·8	12·6	1	24·0	48·2	—11·0	15·8	18	5	+0·1	4·9	5·2	+1·2	0	10	0	0	4	0	0	0	0	0	0
Srinagar (Aerodrome).	29·9	..	35·6	27	18·1	..	11·9	1	8·6	13·9	..	8·1	21	2	..	..	..	..	0	4	0	0	7	0	0	0	0	3	0

(R)—Register not received. †Date not available.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir—*Contd*																														
Gulmarg	21·0	—0·5	25·6	7	9·7	—1·2	4·7	3	54·9	85·5	—17·6	35·8	21	8	—0·9	8·1	5·2	+0·1	1	14	0	2	9	3	0	0	0	0	0
Qazigund (R)																														
Banihal	29·1	..	32·9	7	17·9	..	14·3	2,5	24·6	95·5	..	49·6	20	7	..	..	..	..	0	9	0	0	9	0	0	0	0	0	0
Jammu	35·0	—0·2	36·8	10	22·8	—3·5	21·1	6,8,31	..	319·0	—5·9	100·4	28	5	6·5	..	5·2	..	0	5	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome).	36·3	..	43·3	6	26·4	..	21·1	28	9·4	269·5	..	66·1	29	9	..	..	..	..	0	11	0	0	14	0	1	0	0	0	0
Rajasthan (West)																														
Ganganagar	39·1	+9·5	44·2	6	(c) 28·3	0·1	..	..	38·6	73·2	—1·1	38·5	17	4	0	7·6	6·0	—1·8	0	5	0	0	3	0	4	0	0	0	0
Anupgar																														
Mahajan	39·7	..	43·5	5	..	..	..	..	17·1	100·3	..	60·7	18	5	..	8·1	7·0	..	0	5	0	0	0	0	0	0	0	0	0
Churu	37·8	..	41·9	3	27·1	..	22·4	20	47·0	173·6	..	59·5	20	10	..	15·7	13·6	..	0	11	0	0	13	0	0	0	0	0	0
Bikaner	38·6	+0·1	42·8	12	27·6	—0·4	23·7	21	36·3	101·3	+16·5	28·9	19	5	+0·1	10·7	9·9	—1·4	0	8	0	0	5	0	0	0	0	0	0
Nagaur	34·5	..	40·4	5	26·7	..	22·8	19	119·2	233·7	..	77·1	18	7	..	15·5	14·3	..	1	7	0	0	0	0	1	0	0	0	0
Phalodi	37·8	..	41·6	6	27·1	..	21·3	20	51·4	147·4	+78·6	41·5	12	6	+2·2	23·3	20.8	..	0	6	0	0	7	0	1	0	0	0	0
Jaisalmer	38·1	..	42·8	6,7	26·4	..	23·3	18	0	69·4	..	33·2	18	3	..	19·9	19·5	..	2	3	0	0	0	0	0	0	0	0	0
Jodhpur	36·0	—0·1	43·3	5	26·6	—0·2	22·4	20	80·7	182·9	+82·1	50·8	13	8	+2·5	16·1	14·5	—5·0	0	9	0	0	11	0	2	0	0	7	0
Barmer	37·3	+1·5	42·5	5	26·2	+0·1	24·4	30	0·2	14·4	—68·1	7·0	14	3	—1·0	10·9	10·7	..	1	3	0	0	2	0	0	0	0	0	0
Munabao	(l) 35·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(c) 22·1	..	..	..	..	..	..	..	..	..	..	..	..	..
Rajasthan (East)																														
Pilani	36·9	..	41·9	3	27·4	..	24·7	20	90·3	283·0	..	139·6	19	7	..	18·5	15·6	..	0	10	0	0	0	0	0	0	0	0	0
Sikar	36·2	..	40·3	3,4,5	25·4	..	20·6	19	50·9	244·3	..	63·5	19	9	..	14·5	11·1	..	0	9	0	0	0	0	0	0	0	0	0
Alwar	35·8	..	42·2	6	28·7	..	24·8	19	378·0	416·5	..	144·0	17	10	..	4·5	3·3	..	2	13	0	0	2	0	1	0	0	0	0
Jaipur (Sanganer)	34·7	+0·1	40·8	6	26·1	+0·4	23·0	8	109·5	264·6	+68·0	84·3	8	7	—3·3	..	..	..	1	13	0	0	13	0	3	0	0	1	0
Dholpur	36·3	..	43·2	3	27·6	..	24·1	25	68·4	202·8	..	42·4	25	14	..	9·8	7·9	..	0	18	0	0	14	0	2	0	0	0	0
Ajmer	33·4	+0·2	40·5	5	25·2	—0·6	21·7	19	105·0	393·8	+231·0	165·6	18	12	+3·1	14·9	14·0	+4·3	0	13	0	0	8	0	0	0	0	0	0
Tonk	35·2	..	42·3	6	26·9	..	23·3	19	208·4	244·8	..	87·2	19	10	..	14·0	11·3	..	0	13	0	0	3	0	0	0	0	0	0
Bhilwara	33·5	..	39·2	3,5	24·9	..	22·8	18,19	43·9	140·9	..	44·3	19	8	..	8·1	7·1	..	0	9	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	34·8	..	41·4	4	25·8	..	23·1	17	230·7	398·5	..	139·2	18	11	..	17·2	15·8	..	0	15	0	0	12	0	0	0	0	0	0
Kota	34·8	+0·4	42·0	5	22·8	—3·8	19·4	19	189·3	348·3	+90·7	138·6	18	12	+0·9	12·5	9·2	+2·8	1	14	0	0	4	0	0	0	0	0	0
Eri Spura (Jawali Dam).	33·7	..	40·0	5,12	25·2	..	21·3	20	62·4	396·4	..	228·8	19	11	..	6·5	6·1	..	0	15	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	34·2	..	46·1	2	25·7	..	22·6	19	144·4	408·7	..	134·1	17	15	..	9·7	..	9·0	..	18	0	0	11	0	0	0	0	0	0
Udaipur	31·9	+0·1	37·2	6	24·3	0	21·8	20	39·1	161·8	—55·4	43·2	12	10	—0·4	6·4	5·4	..	2	14	0	0	6	0	0	0	0	0	0
Jhalawar	33·1	+0·9	39·7	5	25·7	+0·9	22·7	18	229·4	428·1	+131·4	151·5	23	14	+0·5	11·4	9·7	+1·8	1	18	0	0	5	0	0	0	0	0	0
Madhya Pradesh (West)																														
Gwalior	36·1	+2·2	42·3	2,5	27·4	+0·8	24·5	20	49·5	237·8	—60·7	76·0	20	12	—2·8	11·2	8·7	..	0	15	0	0	14	0	0	0	0	0	0
Sheopur	35·1	+1·3	41·8	2	26·5	+0·6	23·4	20	161·2	239·1	—66·4	43·9	23	11	—1.6	12·8	10.3	+2.0	0	14	0	0	11	0	0	0	0	0	0
Shivpuri	32·9	..	39·9	5	25·2	..	22·8	19	139·4	228·4	..	75·6	17	14	..	12·3	10·3	..	0	15	0	0	0	0	0	0	0	0	0
Nawgong	34·8	+2·0	42·1	5	25·5	—0·4	22·3	20	166·1	328·7	—22·1	66·4	20	13	—1·1	9·4	7·8	+2·8	1	16	0	0	8	0	0	0	0	0	0
Guna	32·9	+1·8	40·1	5	24·5	+0·5	21·7	31	129·3	376·4	+11·9	83·4	16	17	+1·5	17·5	14·3	..	0	18	0	0	11	0	0	0	0	0	0
Nimach	31·7	+0·6	38·3	6,12	24·1	+0·4	21·6	22	178·2	270·8	+30·3	82·4	18	13	+2·4	15·7	14·8	+0·6	0	15	0	0	11	0	0	0	1	0	0
Rajgarh	33·0	..	39·9	1	24·6	..	22·4	25	141·9	271·0	..	108·0	24	8	..	18·0	14·3	..	1	13	0	0	4	0	0	0	0	0	0
Sagar	30·7	+0·8	38·8	2	22·5	—0·3	19·8	31	283·0	388·0	—7·5	85·0	17	16	—0·5	12·5	12·0	..	0	20	0	0	13	0	0	0	0	0	0
Ratlam	30·7	+0·6	37·5	2	22·8	—0·5	21·1	25	231·8	462·1	+112·5	133·2	24	15	+0·3	13·8	12·7	+1·0	1	20	0	0	5	0	0	0	0	0	0
Bhopal (Bairagarh).	31·2	+1·4	37·6	5	23·4	0	1·6	18	209·8	339·9	—161·2	54·6	22	19	+2·6	22·3	18·2	+2·1	0	23	0	0	12	0	0	0	0	1	0
Ujjain	31·0	..	38·8	2	23·8	..	21·8	17,18	..	259·2	..	72·0	13	14	..	..	19·7	..	0	18	0	0	3	0	0	0	0	0	0
Narsinghpur	..	..	..	..	..	..	..	..	105·6	219·2	..	66·2	17	12	..	9·2	5·8	..	0	18	0	0	0	0	0	0	0	0	0
Hoshangabad	32·1	+2·0	38·6	1,7	22·7	—1·2	21·1	19	247·0	490·9	+66·5	203·6	17	15	—0·7	9·4	8·2	+2·4	0	21	0	0	3	0	0	0	0	0	0
Indore	30·4	+0·5	36·9	5	22·7	+0·2	20·8	17,18	176·2	393·6	+111·1	95·1	24	16	+2·7	25·8	23·4	..	0	18	0	0	10	0	0	0	0	0	0
Rajpur (Jhabua)	31·9	..	39·4	6	23·7	..	20·4	18	99·4	333·2	..	69·8	20	14	..	14·7	13·9	..	0	19	0	0	2	0	0	0	0	0	0
Chhindwara	29·4	+1·1	35·3	1	22·6	+0·3	21·3	18	142·3	314·2	—9·2	50·9	15	19	+1·9	9·2	6·1	—2·1	0	28	0	0	8	0	0	0	0	0	0
Seoni	30·3	+1·4	36·2	1	23·0	+0·6	21·1	6	118·2	271·4	—140·6	40·2	14	13	—5·3	11·8	7·8	+0·6	2	18	0	0	7	0	0	0	0	0	0
Betul	29·2	+1·1	35·1	2	22·5	+0·2	20·8	17	90·0	436·8	+98·3	80·8	22	17	—0·3	11·8	8·5	+0·1	0	24	0	0	4	0	0	0	0	0	0
Khandwa	30·8	—0·3	37·7	5	24·2	+0·1	22·5	17	78·4	492·0	+246·6	157·0	13	12	—0·1	17·0	14·4	+2·5	1	17	0	0	1	0	0	0	0	0	0
Madhya Pradesh (East)																														
Satna	34·0	+2·4	41·6	4	25·6	+0·4	22·9	29	103·2	430·1	+68·2	72·0	29	14	—1·4	9·9	8·0	—0·2	1	18	0	0	11	0	0	0	0	0	0

(R) Register not received (c) Mean of 28 days (f) Mean of 21 days, g—mean of 20 days (l) Mean for of 19 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or mor)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (East)—*Contd.*																														
Sidhi	34·8	..	41·1	4	26·2	..	23·5	29	80·5	172·8	..	51·4	25	10	..	11·1	8·2	..	0	12	0	0	0	0	0	0	0	0	0
Umaria	31·9	+1·6	39·3	1	24·5	+0·5	22·7	30	108·1	320·9	—130·0	63·2	22	18	—2·1	9·1	8·0	+1·9	2	20	0	0	5	0	0	0	0	0	0
Jabalpur	32·0	+1·8	38·1	7	24·4	+0·7	23·0	23,31	120·0	252·2	240·1	72·1	23	16	—2·1	10·0	8·1	+2·6	0	24	0	0	12	0	0	0	0	0	0
Ambikapur	30·9	+1·4	36·8	1	23·3	+0·1	21·0	30	168·1	506·2	+71·4	144·2	26	19	+1·3	11·4	9·5	+0·2	0	24	0	0	9	0	0	0	0	0	0
Pendra	30·3	+1·7	36·0	3	23·0	+0·6	21·9	9	98·1	236·2	157·4	39·3	16	16	—2·9	10·5	9·5	..	1	21	0	0	11	0	0	0	0	0	0
Mandla	30·7	+0·6	36·4	1	23·0	—0·3	21·2	30	100·4	262·6	—235·8	30·8	24	18	2·5	7·0	4·5	+0·6	1	24	0	0	9	0	0	0	0	0	0
Champa	31·6	+0·3	37·5	2,4	24·0	—0·9	22·4	30	168·2	443·2	+29·2	95·8	23	20	+1·2	11·6	9·5	+0·3	1	24	0	0	11	0	0	0	0	0	0
Raigarh	31·8	+0·3	36·5	1	24·2	—0·8	22·5	1	137·8	403·6	—71·6	46·8	1	19	+0·4	5·8	4·4	—2·6	0	23	0	0	0	0	0	0	0	0	0
Raipur	31·1	+0·7	36·4	1	23·8	—0·1	21·5	3	192·2	332·2	—48·5	50·6	16	19	+3·0	14·3	11·8	—2·2	1	26	0	0	9	0	0	0	0	0	0
Kanker	29·8	+0·9	35·7	1	23·9	+0·6	22·0	19	90·2	259·9	—139·4	63·7	3	13	—4·9	15·1	11·5	+1·8	0	17	0	0	5	0	0	0	0	0	0
Jagdalpur	27·6	—0·7	31·9	2	22·3	+0·1	21·2	19	178·7	362·7	—21·6	50·8	11	19	—0·4	10·1	7·5	..	1	27	0	0	8	0	0	0	0	0	0
Gujarat Region																														
Deesa	34·6	..	40·8	5	25·9	..	24·2	19	31·2	77·2	..	22·6	19	6	..	15·0	13·8	..	0	12	0	0	0	0	0	0	0	0	0
Radhanpur	34·9	..	41·0	5	25·7	..	23·5	7	117·0	153·9	..	85·6	19	6	..	14·2	12·5	..	0	9	0	0	1	0	0	0	0	0	0
Idar	32·9	..	39·4	5	25·0	..	21·5	20	110·2	292·6	..	80·4	19	8	..	12·5	10·4	..	0	15	0	0	4	0	0	0	0	0	0
Ahmadabad	33·3	—0·6	40·5	5	25·7	0	23·2	19	61·9	310·8	+0·4	182·6	19	9	—3·6	10·4	9·3	—2·0	2	13	0	0	5	0	1	0	0	2	0
Dohad	32·3	+1·9	38·5	8	23·5	—0·4	21·5	19,20	99·2	250·4	—12·6	80·4	13	9	—3·7	23·3	24·2	—2·1	1	15	0	0	8	0	0	0	0	0	0
Baroda Arodrome	33·1	..	38·6	6	26·0	..	22·9	18	114·4	310·1	..	83·8	17	12	..	15·5	14·6	..	0	17	0	0	3	0	0	0	0	2	0
Baroda	33·9	+1·6	40·6	5	26·2	+0·8	22·9	18	82·5	280·4	—88·7	91·0	17	12	—3·9	6·3	4·4	—3·8	0	16	0	0	3	0	0	0	0	0	0
Broach	32·0	0	38·4	5	25·8	+0·1	23·0	18	130·4	210·5	—122·3	48·4	19	10	—4·6	15·3	13·2	+2·0	1	13	0	0	1	0	0	0	0	0	0
Surat	31·6	+0·9	37·6	5	26·0	+0·6	24·2	18	156·5	361·4	—81·1	57·4	20	17	+0·7	15·1	14·8	+3·1	0	23	0	0	3	0	0	0	0	0	0
Saurashtra and Kutch																														
Bhutakia Bhimasar*																														
Naliya	32·8	..	38·2	13	26·1	..	23·5	7	47·2	206·1	..	132·6	14	8	..	24·6	19·3	..	0	9	0	0	6	0	0	0	0	0	0
Bhuj (Rudramata)	34·7	+1·5	40·3	5	26·3	+0·4	23·2	7	3·1	38·2	—122·6	16·6	7	4	2·0	25·4	20·7	1·0	3	11	0	0	8	0	0	0	0	0	0
Kandla	34·6	..	38·4	5	25·8	..	23·1	19	50·3	79·2	..	29·2	14	3	..	34·0	28·3	..	2	7	0	0	5	0	0	0	4	0	0
New Kandla	33·0	..	36·7	2	26·7	..	24·1	19	74·8	119·8	..	40·0	20	4	..	31·4	27·4	..	2	11	0	0	2	0	0	0	2	0	0
Mandri	31·7	+0·6	34·0	11,13	27·0	+0·1	24·8	31	3·4	104·0	—108·0	60·0	11	4	—5·2	35·7	35·4	—0·9	0	5	0	0	0	0	0	0	5	0	0
Surendranagar	34·3	+0·2	39·7	5	26·1	+0·2	23·3	5	69·8	140·8	—37·9	32·0	5	7	—0·9	21·4	19·6	—0·7	0	8	0	0	3	0	0	0	0	0	0
Jamnagar (Aerodrome)	33·3	+0·7	36·8	5	26·1	—0·3	24·2	12	60·7	88·9	—137·9	45·5	7	4	—3·9	..	..	..	0	12	0	0	4	1	0	0	0	0	0
Dwarka	31·0	+0·6	33·2	9	26·4	—0·7	24·4	18	126·0	246·3	+69·8	88·4	11	9	+3·0	27·8	27·2	+3·2	0	11	0	0	0	0	0	0	0	0	0
Rajkot	33·5	+1·0	33·8	4	25·0	+0·4	23·2	31	108·9	148·7	—223·4	67·6	14	11	—1·7	35·5	28·8	+0·5	1	14	0	0	7	0	1	0	2	0	0
Bhavnagar Arodrome	34·0	+0·2	37·8	5	26·3	+0·2	24·6	20	110·5	133·1	—45·0	68·0	12	7	—2·3	30·9	26·4	+6·2	0	13	0	0	2	0	0	0	0	0	0
Porbander Aerodrome	30·5	..	33·8	5	26·3	..	24·7	12	159·1	610·8	..	205·4	12	9	..	(b) 21·8	(b) 22·1	..	0	18	0	0	5	0	0	0	0	0	0
Porbander	30·5	+0·4	33·3	5	26·6	+0·1	24·7	12	194·7	530·0	+150·6	29·3	12	10	—1·4	21·4	21·5	—1·6	0	19	0	0	6	0	0	0	0	0	0
Keshod	31·3	..	36·0	5	25·2	..	23·8	11	75·0	144·5	..	134·4	12	15	..	34·5	27·2	..	1	17	0	0	3	0	0	0	0	0	0
Mahuva	31·7	..	34·9	5	..	..	..	..	174·3	258·2	..	153·6	12	7	..	22·4	18·0	..	0	13	0	0	1	0	0	0	0	0	0
Veraval	29·9	..	32·2	5	26·1	..	24·5	17	193·0	498·2	+300·6	158·2	8	13	+3·8	34·7	34·2	..	3	20	0	0	4	0	0	0	9	0	0
Konkan																														
Dahanu	29·8	0	34·1	5	25·5	+0·2	24·4	8	516·7	1031·6	+144·7	156·1	13	27	+3·5	29·4	25·1	—1·0	0	31	0	0	1	0	0	0	1	0	0
Bombay (Santa-Cruz).	29·6	—0·1	31·7	5	24·6	—0·2	23·1	23	487·1	858·3	+116·1	129·4	13	26	+1·3	23·6	21·3	..	0	31	0	0	4	0	0	0	0	2	0
Bombay	29·6	—0·1	31·9	4	25·0	+0·2	23·6	7	313·3	751·0	+134·5	126·0	7	27	+4·9	11·8	11·4	—7·3	0	31	0	0	5	0	0	0	0	4	0
Alibag	29·0	—0·1	31·3	3	24·8	—0·5	22·0	29	..	901·9	+306·5	123·8	8	25	+1·7	..	31·5	+3·0	0	30	0	0	0	0	0	0	2	0	0
Bhira	27·5	..	32·8	5	..	..	..	..	978·2	2547·2	..	328·6	11	29	..	4·9	4·2	..	0	31	0	0	2	0	0	0	0	0	0
Harnai	28·7	+0·2	30·0	2, 3	24·4	+1·6	19·9	8	300·0	833·6	—83·5	162·0	8	26	—1·0	23·3	24·1	+2·0	0	27	0	0	2	0	0	0	0	0	0
Ratnagiri	28·8	..	30·6	1	..	..	..	..	281·6	820·0	—39·8	132·2	6	26	0	25·6	26·9	..	1	30	0	0	1	0	0	0	0	0	0
Devgarh	28·7	+0·1	30·5	1, 2	24·4	—0·5	22·0	11	413·0	974·6	+183·2	215·2	3	29	+2·9	32·4	32·8	+4·0	0	29	0	0	0	0	0	0	0	0	0
Vengurla	28·9	+0·2	30·3	1, 2	24·0	0	22·6	8	461·0	1136·6	—11·3	131·7	4	30	+2·0	13·3	11·9	..	0	31	0	0	3	0	0	0	1	0	0
Madhya Maharashtra																														
Nandurbar	32·2	..	38·2	3	24·3	..	22·6	18, 21	216·5	331·9	..	103·0	21	9	..	(a) 14·6	(b) 12·3	..	1	14	0	0	0	0	0	0	0	0	0
Jalgaon	33·8	+1·8	39·9	2, 6	24·3	+0·3	22·6	17	72·3	239·4	—2·6	58·4	7	10	—4·5	24·8	18·5	+2·9	0	17	0	0	9	0	0	0	0	0	0
Malegaon	31·8	+0·6	37·0	2	23·5	+0·4	22·0	20	55·7	90·7	—21·6	28·2	4	10	+2·6	19·2	15·3	—0·1	0	12	0	0	1	0	0	0	0	0	0

*Date not reliable. (a) —Mean of 30 days. (b) Mean of 29 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Madhya Maharashtra—(*Contd.*)																													
Deolali (Aerodrome)	28·0	..	34·1	3	22·3	..	21·6	16, 31	61·5	134·8	..	23·1	21	14	..	23·5	20·1	..	0	19	0	0	3	0	0	0	0	0	0
Ahmadnagar	30·8	+1·2	35·4	3	21·7	+0·3	20·0	14	18·8	33·7	62·3	9·4	17	5	−1·8	16·6	11·9	−3·7	0	9	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	245·6	+707·9	360·2	11	30	0	..	..	..	0	30	..	.	..	..	..	..	.	..	..
Poona (Aerodrome)	27·8	..	33·4	3	21·6		20·6	8	61·0	197·8	..	35·5	21	19	..	..	..	..	0	21	0	0	2	0	0	0	0	0	0
Poona	28·4	+0·5	34·7	3	21·5	0·6	20·1	13	50·9	224·1	+57·5	31·2	21	17	+4·3	9·0	7·1	−9·3	1	26	0	0	2	0	0	0	0	0	0
Jeur	31·3	0	35·2	1	22·0	+0·2	18·9	18	43·3	85·3	−22·1	45·9	6	6	−1·9	24·9	17·0	0	0	12	0	0	1	0	0	0	0	0	0
Baramati	30·4	+0·7	35·2	3	22·3	+0·2	21·0	14	15·8	40·6	−18·9	29·3	3	3	−2·7	25·6	18·9	+1·7	2	6	0	0	0	0	0	0	0	0	0
Sholapur	30·7	−1·1	34·6	1	22·4	+0·1	21·1	31	42·0	168·5	+62·3	65·0	1	12	+4·3	16·2	12·0	−4·3	1	16	0	0	0	0	0	0	0	0	0
Miraj	28·1	+0·4	32·0	4	21·6	0	20·1	14	59·4	112·6	+7·7	18·6	13	13	+3·9	..	..	..	0	20	0	0	0	0	0	0	0	0	0
Kolhapur	26·3	−0·2	31·3	3, 5	21·3	+0·1	19·7	9	151·5	472·0	+118·7	60·3	12	22	+3·3	26·3	20·9	+2·2	2	25	0	0	0	0	0	0	0	0	0
Marathwad																													
Aurangabad	30·3	+0·3	35·4	1	22·0	+0·4	20·8	18, 19	71·8	109·2	−62·0	27·4	17	12	+0·7	24·0	19·1	+1·4	0	23	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	30·2	..	35·1	1	20·8	..	18·9	19	78·0	115·2	..	34·8	17	11	..	24·1	18·5	..	1	22	0	0	0	0	0	0	0	0	0
Parbhani	32·1	+0·4	36·3	11	22·6	−0·2	20·9	18	20·0	167·6	−37·2	50·0	16	11	−1·1	19·0	14·3	+0·3	0	14	0	0	0	0	0	0	0	0	0
Nander	31·6	..	35·2	11	22·7	..	21·6	18, 19	18·9	230·2	..	29·8	8	15	..	12·4	10·8	..	2	17	0	0	0	0	0	0	0	0	0
Bir	31·1	..	35·3	1	23·2	..	21·4	18	23·6	106·8	..	30·3	1	10	..	14·5	11·2	..	0	15	0	0	7	0	0	0	0	0	0
Vidarbha																													
Gondia	31·0	+0·8	37·7	1	24·3	0	22·4	3	351·0	581·4	+151·8	151·4	16	17	−0·9	9·0	6·9	+0·4	0	22	0	0	7	0	0	0	0	0	0
Nagpur (Sonegaon)	31·4	+0·1	37·3	2	23·9	−0·2	21·0	12	74·5	307·0	−63·8	102·0	12	17	+0·5	20·2	14·6	..	3	18	0	0	7	1	0	0	0	5	0
Amraoti	31·4	+0·6	37·2	7	22·6	−0·7	20·6	16	88·3	324·3	+85·3	61·4	13	16	+3·2	21·5	16·2	+4·0	0	20	0	0	3	0	0	0	0	0	0
Akola	32·2	+0·5	37·4	1, 2	24·4	+0·6	23·2	4	105·1	276·1	+27·4	72·8	17	14	+1·6	17·5	12·3	+1·2	0	17	0	0	0	0	0	0	0	0	0
Bramhapuri	31·3	..	36·8	1	24·1	..	20·5	12	205·3	576·3	..	96·0	13	18	..	12·3	9·6	..	0	22	0	0	6	0	0	0	0	0	0
Buldana	30·3	+1·6	34·2	1	21·3	−0·6	19·6	18	75·0	127·0	−97·2	31·4	8	10	−3·1	15·6	12·3	−3·0	0	17	0	0	0	0	0	0	0	0	0
Yeotmal	30·5	+0·3	35·9	11	22·8	+0·1	20·8	16	86·9	335·1	+24·3	114·8	12	13	−3·7	24·4	19·8	+2·4	0	17	0	0	4	0	0	0	0	0	0
Chanda	31·5	+0·2	36·0	2	24·8	+0·5	23·1	21	138·4	358·4	−55·9	55·2	4	17	+0·1	16·2 (a)	11·0 (b)	+2·6	1	22	0	0	7	0	0	0	0	0	0
Pusad	32.2	..	38.1	1	25.1	..	20.3	4	85.0	262.1	..	64.1	16	13	..	15.9	13.1	..	0	17	0	0	0	0	0	0	0	0	0
Sironcha	31·8	+0·3	36·4	2	25·0	+0·1	22·6	21	141·7	405·4	−33·6	121·2	13	15	−3·4	10·1	7·4	+1·7	0	19	0	0	2	0	0	0	0	0	0
Costal Andhra Pradesh																													
Kalingapatnam	31·1	−1·0	35·2	1	25·7	−0·4	23·6	16	84·5	256·2	+115·5	130·3	12	8	−0·6	20·0	15·0	+2·9	0	9	0	0	9	0	0	0	0	0	0
Vishakhapatnam	32·4	−0·7	36·8	6	25·8	−0·1	24·3	21, 24, 25	24·3	131·7	+19·4	74·4	12	6	−2·5	22·9	17·6	+2·3	−	12	0	0	4	0	0	0	0	0	0
Kakinada	31·7	−0·7	36·8	2	25·1	−0·7	21·2	11	57·6	246·5	+80·1	36·6	12	13	+1·9	17·0	13·7	+4·4	0	17	0	0	1	0	0	0	0	0	0
Nidadavole	31·0	..	36·4	1	24·9	..	23·4	6	49·2	312·2	..	55·0	21	19	..	18·1	14·1	..	0	22	0	0	0	0	0	0	0	0	0
Rentachintala	34·7	+0·8	37·8	19	26·1	+0·2	23·5	9	10·6	37·6	−84·3	10·6	9	4	−5·0	19·6	14·5	−0·6	0	5	0	0	0	0	0	0	0	0	0
Gannavaram	32·1	−0·5	35·2	1	25·1	−0·2	23·5	6	33·3	245·1	−13·2	57·0	6	18	+3·9	20·2	24·8	−1·4	0	21	0	0	10	0	0	0	0	0	0
Nagarjunakonda	33·2	..	36·3	25	26·0	..	23·4	2	7·8	51·9	..	19·8	2	6	..	32·3	26·3	..	0	10	0	0	0	0	0	0	0	0	0
Masulipatam	32·2	−1·4	36·4	27	24·8	−0·8	22·2	2	24·3	292·5	+130·2	58·8	6	18	+7·3	5·7	4·6	−6·0	0	21	0	0	10	0	0	0	0	0	0
Ongole	33·4	..	37·5	29	26·8	..	24·4	22	8·2	50·2	..	13·8	6	8	..	17·9	11·4	..	1	11	0	0	0	0	0	0	0	0	0
Nellore	35·2	−0·9	37·4	19	26·9	+0·3	24·0	6	4·1	47·2	−22·7	9·2	23	6	+0·5	10·7	8·0	−1·3	0	11	0	0	1	0	0	0	0	0	0
Telangana																													
Ramagundam	32·3	−0·1	38·4	8	25·0	+0·3	22·9	21	43·8	418·2	+123·4	75·0	7	17	+0·6	11·6	8·8	+1·8	0	18	0	0	2	0	0	0	0	0	0
Nizamabad	30·1	−1·1	33·4	6	23·2	−0·1	22·0	3	52·8	337·4	+79·6	59·0	2	14	−1·0	13·4	10·3	+1·4	0	16	0	0	4	0	0	0	0	0	0
Hanmkonda	31·3	+0·1	34·6	6	23·8	−0·5	22·4	8	73·0	356·2	+124·0	128·0	2	14	+0·6	17·1	12·5	+1·7	0	19	0	0	2	0	0	0	0	0	0
Hakimpet (Aerodrome)	28·8	..	31·7	15	21·7	..	20·9	2, 16, 18	34·2	221·5	..	45·8	16	14	..	..	..	..	0	21	0	0	4	0	0	0	0	0	0
Bhadrachalam	31·5	−0·4	34·0	1, 2, 29	24·8	−0·1	23·0	2	99·5	385·4	+146·3	42·0	13	18	+4·2	8·9	(d) 7·6	−1·1	0	21	0	0	1	0	0	0	0	0	0
Hyderabad (Begampet)	30·1	−0·3	33·1	15	22·6	+0·4	21·6	2	37·3	156·6	+4·5	46·1	16	11	−0·1	30·1	26·8	+6·4	1	16	0	0	3	0	0	0	0	6	0
Kharmmam	31·6	..	33·4	1	24·6	..	22·4	24	35·0	194·6	..	30·0	21	15	..	13·2	8·1	..	0	16	0	0	0	0	0	0	0	0	0
Mahbubnagar	30·0	..	32·6	15	22·4	..	21·3	22	97·2	172·6	..	25·4	13	17	..	15·5	13·8	..	1	25	0	0	2	0	0	0	0	0	0
Rayala Seema																													
Kurnool	32·4	−0·7	34·7	7	23·7	−0·2	21·8	21	42·2	71·9	−40·4	14·6	17	10	+0·7	29·4	23·2	+6·5	0	19	0	0	12	0	0	0	0	0	0
Nandyal*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Anantapur	33·5	+0·8	35·2	6	24·4	+0·5	22·2	30	41·8	75·1	+13·4	59·4	30	3	−1·0	28·6	22·2	+3·1	1	7	0	0	1	0	0	0	0	0	0
Cuddapah	35·1	−0·2	37·3	7	26·3	+0·7	23·5	2	7·0	34·2	−69·2	14·8	3	3	−3·7	17·0	12·0	+0·1	0	4	0	0	0	0	0	0	0	0	0
Arogyavaram	30·7	..	33·0	28	22·3	..	20·5	3	3·6	70·0	..	60·0	3	2	..	20·2	16·1	..	2	7	0	0	0	0	0	0	0	0	0

*Data not reliable.

(a) Mean of 30 days. (b)—Mean of 29 days. (d) Mean of 27 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20a	21	22	23	24	25	26	27	28	29
Madras State																													
Madras	34·5	..	36·7	30	25·7	..	22·6	3	..	104·4	..	31·8	3	10	..	..	10·3	..	1	15	0	0	1	0	0	0	0	0	0
Madras (Minarbakkam)	34·7	—1·0	37·4	30	25·7	—0·6	22·6	3	6·7	93·8	+2·4	25·5	3	11	+4·2	15·4	12·4	—3·4	1	15	0	0	18	0	0	0	0	5	0
Vellore	35·1	+0·6	36·8	11, 20	25·5	+0·4	23·0	3	17·8	59·5	—56·1	21·4	28	6	—0·3	16·0	12·2	+4·2	1	8	0	0	4	0	0	0	0	0	0
Tambaram (Aerodrome)	34·8	..	36·8	18	25·4	..	22·5	3	19·8	97·0	..	19·8	3	11	..	..	..	..	0	14	0	0	7	0	0	0	0	0	0
Tiruppattur	33·1	..	35·8	28	23·0	..	20·7	29	26·2	41·3	..	17·3	6	3	..	15·5	10·4	.	0	3	0	0	0	0	0	0	0	0	0
Mattur Dam	34·1	..	37·4	1	24·9	..	22·9	8	7·1	11·7	..	3·3	6	3	..	9·0	6·6	..	0	5	0	0	2	0	0	0	0	0	0
Cuddalore R.S.	36·3	+0·7	38·4	16	25·6	—0·3	23·0	30	6·4	77·0	+11·0	26·9	30	6	+0·7	13·0	12·0	+4·6	1	12	0	0	2	0	0	0	0	0	0
Kallakkurichchi	35·1	..	37·6	29	25·4	..	23·3	8	5·0	41·0	—30·6	24·0	29	4	—1·0	13·0	11·5	..	0	5	0	0	2	0	0	0	0	0	0
Salem	33·9	0	36·0	1	24·0	+0·7	22·0	8	46·4	58·8	—37·5	24·2	6	6	—1·1	10·7	9·0	+2·2	2	13	0	0	5	0	0	0	0	0	0
Coimbatore (Pilamedu)	30·6	..	33·1	1, 3	21·8	..	20·3	4, 8	21·5	54·9	..	12·7	8	7	..	39·6	32·1	..	1	13	0	0	0	0	0	0	5	0	0
Coimbatore	29·7	—0·7	32·6	2	20·9	—0·8	19·3	4, 8	39·6	83·8	+41·9	24·3	8	7	+2·3	20·3	17·1	+6·5	0	11	0	0	1	0	0	0	0	0	0
Nagappattinam	35·6	0	37·6	20	26·6	+0·5	24·1	6	11·0	18·6	—24·6	9·0	2	2	—0·9	16·1	13·1	+3·4	0	4	0	0	3	0	2	0	0	0	0
Tiruchchirapalli	35·9	—0·6	37·8	18	26·2	+0·5	23·9	4	0·2	2·2	—32·1	1·8	1	0	—2·1	34·5	30·3	+0·2	2	1	0	0	1	0	0	0	1	0	0
Vedaranniyam	33·8	..	37·3	20	25·7	..	22·1	6	6·9	37·4	..	17·4	26	3	..	12·6	9·5	.	0	4	0	0	3	0	0	0	0	0	0
Atirampattinam	34·1	..	37·8	20	26·1	..	23·6	17	12·2	22·4	..	6·8	6	4	..	18·4	12·8	..	0	6	0	0	9	0	0	0	0	0	0
Madurai	36·1	+0·6	38·4	26	25·9	+0·7	24·7	8, 12	0	0	—949·5	0	..	0	—2·7	10·9	7·9	0	0	0	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	35·4	..	38·0	26	26·1	..	24·1	12	0	0	..	0	.	0	..	24·5	20·3	.	0	0	0	0	1	0	0	0	0	0	0
Tondi	34·1	..	38·2	14	26·0	..	24·7	8	0	0·3	..	0·3	29	0	..	21·8	15·8	..	0	1	0	0	1	0	0	0	0	0	0
Pamban	32·0	+0·2	33·7	20	26·1	—0·2	24·2	15	0	0	—11·9	0	..	0	—0·8	12·1	18·1	+2·8	0	0	0	0	0	0	0	0	0	0	0
Tuticorin	35·0	+0·6	37·0	4 days	25·7	—0·8	23·0	8	0	0	—10·4	0	..	0	—0·8	(a) 23·0	(b) 21·8	+2·1	0	0	0	0	0	0	0	0	0	0	0
Palayancottai	34·5	+0·1	36·9	2	25·5	—0·9	23·2	9	0	4·2	—3·8	2·8	7	1	+0·4	19·4	14·9	—2·6	1	2	0	0	0	0	0	0	0	0	0
Kaniyakumari	29·7	..	33·0	31	24·5	..	22·2	3	36·8	102·8	..	21·8	3	12	..	21·0	19·0	..	0	18	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar*	28·8	+0·8	30·1	7	25·9	+1·9	..	..	277·9	925·0	—80·4	120·0	3	28	+0·4	21·2	19·3	..	0	29	0	0	1	0	0	0	0	0	0
Honavar	28·1	—0·2	30·4	7	23·0	—0·6	21·4	12	380·6	1259·3	+131·3	131·8	3	29	—0·6	15·2	15·2	+8·9	0	31	0	0	8	0	0	0	0	0	0
Mangalore (Bajpe)	28·1	..	30·2	1	22·8	..	21·7	4	482·6	1382·4	..	142·9	15	31	..	13·3	10·8	..	0	31	0	0	4	0	0	0	0	2	0
Mangalore	29·0	+0·3	31·5	9	24·7	+1·2	23·2	9, 24	419·4	1137·3	149·2	132·4	16	30	+2·5	11·0	10·2	+1·2	0	31	0	0	5	0	0	0	0	0	0
Interior Mysore North																													
Bidar	28·9	—0·3	31·4	15	21·0	—0·1	19·4	9	30·2	170·9	—35·1	38·0	1	11	—0·6	28·2	23·8	+1·6	0	16	0	0	0	0	0	0	0	0	0
Gulbarga	30·6	—1·3	33·0	1, 15	22·2	0	21·2	14, 18,	61·6	245·0	+101·2	64·6	1	15	+5·9	23·5	18·2	+1·1	0	16	0	0	2	0	0	0	0	0	0
Bijapur	30·3	0	34·0	1	22·1	+0·5	21·4	17, 18 19	13·6	38·6	—21·6	7·6	1	5	+0·7	19·8	15·3	+0·2	3	12	0	1	0	0	0	0	0	0	0
Raichur	31·9	—0·5	34·4	11	22·9	+0·2	21·9	5	56·2	113·6	—5·8	24·6	3	6	—2·4	27·2	21·5	+6·1	1	19	0	0	0	0	0	0	0	0	0
Belgaum	25·0	—0·3	30·3	1	20·5	+1·2	19·5	8	223·4	575·8	+149·3	79·8	13	24	+1·9	16·0	14·2	—0·1	0	29	0	0	0	0	0	0	0	0	0
Belgaum (Sambra)	25·5	..	30·9	2	20·7	..	19·6	7	139·9	348·7	..	45·3	12	21	..	(b) 26·7	(b) 21·8	..	0	26	0	0	0	0	0	0	0	0	0
Gadag	28·1	—0·3	30·5	20	21·1	0	20·3	5, 30	25·2	56·7	—16·7	9·9	1	8	+1·1	25·0	20·9	+1·1	0	12	0	0	0	0	0	0	0	0	0
Interior Mysore South																													
Bellary	31·7	—0·9	33·8	7, 9, 20	24·4	+0·5	23·4	4	11·0	25·0	—15·9	12·0	3	2	—1·4	22·4	17·1	+3·4	0	5	0	0	0	0	0	0	0	0	0
Chitradurga	27·3	—0·8	31·1	1	21·1	+0·6	20·3	22	31·4	53·1	—19·8	12·8	20	6	—2·2	17·3	15·6	+2·4	0	12	0	0	0	0	0	0	0	0	0
Shimoga	27·0	+0·2	31·4	2	21·0	—0·1	20·2	4	135·0	285·4	+2·6	33·8	9, 12	20	+1·1	10·8	7·5	+0·9	0	25	0	0	0	0	0	0	0	0	0
Agumbe	22·8	..	27·0	9	19·5	..	18·2	12, 13, 27	..	3480·0	..	243·0	12	31	..	..	7·6	..	0	31	0	0	0	0	0	0	0	0	0
Balehonnur	22·4	—0·4	27·5	1	18·3	—0·3	16·7	4	..	1369·1	+490·5	127·8	8	30	+1·7	..	..	..	0	31	0	0	0	0	0	0	0	0	0
Hassan	24·4	—0·9	29·7	1	18·9	+0·2	17·9	3 1	61·9	212·1	+64·8	44·6	8	15	+1·8	17·9	13·8	+2·5	0	18	0	0	0	0	0	0	0	0	0
Bangalore	28·0	+0·6	31·6	1	19·9	+1·2	18·5	4	15·7	45·7	—54·1	16·0	30	4	—4·0	21·7	17·8	+4·3	5	15	0	0	1	0	0	0	0	1	0
Bangalore (Aerodrome)	28·5	..	30·9	1	19·2	..	17·6	4	20·5	56·8	..	29·5	30	5	..	..	..	..	3	11	0	0	1	0	0	0	0	0	0
Mysore	27·4	—0·5	31·3	1	20·0	+0·4	19·3	4	44·9	70·1	+2·0	16·4	8	7	—0·3	21·5	16·5	+2·2	4	14	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	28·6	+0·6	31·2	, 2	23·5	+0·1	21·9	8	350·2	1041·8	+217·3	114·0	11	27	+0·5	10·6	9·9	+2·2	0	29	0	0	2	0	0	0	0	0	0
Palghat	28·1	..	31·2	1	22·5	..	20·6	8	347·0	785·8	..	94·8	8	25	..	16·4	13·6	..	0	28	0	0	3	0	0	0	0	0	0
Fort Cochin	28·1	0	30·3	10	23·5	—0·2	21·4	4	253·2	900·2	+308·1	135·7	11	26	+1·8	14·0	10·4	+2·4	0	28	0	0	7	0	0	0	0	0	0
Cochin (Naval Air Station)	29·1	..	30·9	1	23·4	..	21·6	4	283·1	935·5	..	147·2	11	26	..	11·3	8·9	..	1	27	0	0	7	0	0	0	7	15	0

*Observations for 23 days. (a) Mean of 30 days. (b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Kerala (*Contd.*)																													
Alleppey	28·7	—0·1	30·6	1	23·0	—0·4	21·7	8	355·8	962·0	+418·2	148·4	15	26	+2·9	12·8	12·5	+1·7	0	29	0	0	1	0	0	0	0	3	0
Punalur	29·4	..	32·3	1	22·6	..	21·3	12	261·8	644·2	..	85·0	11	23	..	5·8	4·4	..	0	23	0	0	1	0	0	0	0	0	0
Trivandrum	29·1	—0·1	31·0	3	23·1	—0·1	21·3	12	112·7	371·0	+176·6	61·0	12	18	+3·7	14·6	10·6	+0·3	0	25	0	0	2	0	0	0	0	2	0
Trivandrum (Aerodrome)	29·1	..	31·0	3	23·1	..	21·5	9	..	326·0	..	47·8	12	16	..	..	7·7	..	2	23	0	0	0	0	0	0	0	0	0
Arabian Sea Islands																													
Amini**	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy**	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir																													
Dalhousie	25.2	+1.5	31.0	6	18.4	+1.6	16.0	19,20	276·0	621.0	+21.6	111.0	20	19	—0·5	3.2	1.2	—1.6	0	21	0	0	8	5	0	0	0	0	0
Dharmsala	28.3	+1.0	33.9	5, 6	22.3	+1.1	18.9	13	179.0	496.6	—558.7	65.2	25	19	—3.3	3·5	2·3	—1.5	0	20	0	0	8	3	0	0	0	0	0
Simla	21.6	0	26.1	6	16.4	+1.3	15.1	9,16, 17	130.9	308.1	—105.9	67.3	28	12	—7.7	2.2	1.8	+0.1	1	17	0	0	3	5	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	209.4	—194.2	60.3	31	11	—6.7	..	..	..	0	14	0	0	0	0	0	0	0	0	0
Lokpal	10.1	..	12.3	4	5.6	..	4.3	1	..	396.0	..	36.4	26	23	..	..	..	..	0	27	0	0	0	21	0	0	0	0	0
Badrinath (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Joshimath	26.0	..	30.1	5	17.7	..	16.1	12	32.8	358.4	..	93.1	20	20	..	6.4	4.2	..	1	25	0	0	8	19	0	0	0	0	0
Mussoorie	21.5	+0.8	26.1	4	16.6	+0.7	14.6	9	186.2	454.6	—242.9	100.0	8	18	—5.2	5.6	4.5	—2.3	0	20	0	0	7	15	0	0	0	0	0
Mukteswar (Kumaun)	22.5	+1.7	27.3	3, 4, 5	15.1	+0.7	13.0	8	93.4	287.6	—26.6	53·0	15	14	—3.8	11·3	13 2	+4.8	0	18	0	0	11	18	0	0	0	0	0
Nainital	22.4	+1.0	25.6	3, 4, 5	17.4	+0·5	16·1	15	132.0	603.0	—166.4	136.0	27	18	—5.6	8.5	6.7	—1.6	0	21	0	0	0	0	0	0	0	0	0
Kalimpong	26.9	+2.8	29.5	27	19.1	—0.5	15·6	6,14	401.4	757.1	+179.0	188.0	22	16	—5.9	5·5	3.9	—4.8	0	16	0	0	0	0	0	0	0	0	0
Darjeeling	19.7	+0.1	23.0	15	15.6	+0.3	14.2	10	185·6	647.8	—188.4	88.0	21	24	—1.6	3.0	2.3	0	0	27	0	0	5	8	0	0	0	0	0
Kohima	25.2	..	29.5	15	19.2	..	18.2	6 days	151.0	318.0	..	36.3	6	23	..	..	2.9	..	0	23	0	0	0	20	0	0	0	0	0
Shillong	25.1	+1.0	28.1	15	18.4	+0.3	16.1	19	95.8	285.7	—61.0	50.8	13	17	—1.2	6.2	4.6	+1.0	0	22	0	0	0	0	0	0	0	0	0
Cherrapunji	26.5	+4.1	28.4	15	20.7	+2·2	18.8	1	258.9	1593.6	—853.4	358.6	1	26	—1.5	6.4	6.5	—2.0	0	27	0	0	1	17	0	0	0	0	0
Abu	25·5	+1.4	32.2	12	17.9	—1.0	15.0	20	262.4	808.8	+250.3	310.6	19	15	—2.8	13.1	12.5	—0.4	0	17	0	0	4	11	0	0	0	0	0
Aijal	26.6	..	29.6	11	20.2	..	18.9	5	43.2	265.2	..	108.2	8	16	..	9.9	10.6	..	0	20	0	0	0	0	0	0	0	0	0
Pachmarhi	25.8	+1.1	32.8	1	20.0	+0.1	17.3	18	336.0	677.6	+11.4	157.0	17	19	—3.0	10.8	11.2	—0.4	1	24	0	0	12	15	0	0	0	0	0
Mahabaleshwar	19.2	+0.6	24.2	5	16.7	—0.1	15.6	2	1200.8	3092.9	+417·5	250.4	13	30	—0.1	24.3	21.7	+1.1	0	31	0	0	0	31	0	0	0	0	0
Mercara	20.5	+0.1	24.8	1, 2	16.9	+0.2	15.5	8	542.4	1395.4	+300.4	140.8	9	29	+0.5	19.9	19.1	+7.5	0	30	0	0	0	0	0	0	0	0	0
Ootacamand	16.4	—0.2	20.1	1	11.4	+0.2	10.0	4 days	54.6	171.0	—417.3	22.6	8	13	—2.8	20.1	12.7	+3.0	0	20	0	0	0	0	0	0	0	0	0
Conoor (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kodaikanal	17.5	+0.7	20.6	18	11.3	+0.1	9.4	6	49.5	97.4	—20.7	18.6	19	11	+0.8	18.3	20.0	+3.1	1	20	0	0	1	4	0	0	0	0	0
Nepal																													
Katmandu	28.6	..	31.5	14	20.3	..	18.4	2	32.3	179.4	..	26.8	14	16	..	1.3	1.1	..	2	21	0	0	7	0	0	0	0	0	0
Sikkim																													
Lachen	19.0	..	21.4	25	12.0	..	10.0	23	..	209.0	..	37.0	27	25	..	..	..	..	0	29	0	0	0	0	0	0	0	0	0
HYDROMETEOROLOGICAL OBSERVATORIES:—																													
Damodar Catchment :																													
Tilaiya	32.8	..	38.8	3	25.9	..	23.3	19	205.5	308.7	..	68.3	16	13	..	13.1	10.6	..	1	21	0	0	0	0	0	0	0	0	0
Hazaribagh	30.5	..	35.6	1	23.7	..	21.9	20	158.7	367.4	..	86.2	26	15	..	10.7	7.5	..	0	21	0	0	0	0	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	162.3	221.8	..	46.2	16	14	..	..	..	..	1	18	0	0	6	0	0	0	0	0	0
Bokaro	33.2	..	37.9	1	26.2	..	23.6	21	58.3	197.4	..	41.3	19	10	..	11.0	8.4	..	0	16	0	0	17	0	0	0	0	0	0
Maithon	32.5	..	37.8	1	25.7	..	22.9	..	88.2	218.2	..	38.2	29	13	..	..	..	..	..	0	0	16	0	0	4	0	0	0	0
Ramgarh	33.3	..	39.9	26	25.8	..	23.6	..	143.0	292.5	..	54.5	22	12	..	4.8	2.9	..	2	15	0	0	0	0	0	0	0	0	0
Panchet Hills	33.4	..	37.2	1	26.2	..	22.6	..	141.9	297.5	..	63.2	17	15	..	8.7	6.9	..	2	19	0	0	13	0	0	0	0	0	0
Durgapur	34.4	..	37.1	15	24.6	..	22.2	..	190.0	295.6	..	83.0	28	15	..	17.3	11.9	..	1	18	0	0	0	0	0	0	0	0	0
Mahanadi Catchment :																													
Ginabahar	31.4	..	36.1	3	23.7	..	21.7	12	..	390.0	..	96.4	26	16	..	..	..	..	2	19	..	..	..	..	..	..	..	..	..
Hirakud	31.6	..	35.5	1	25.2	..	22.4	16	107.7	424.6	..	130.6	9	14	..	9.5	7.0	..	1	22	0	0	5	0	0	0	0	0	0
Bhimkund	31.5	..	35.9	1	24.3	..	22.9	16, 17, 19	183.2	280.5	..	150.0	22	11	..	7.3	3.6	..	0	23	0	0	16	1	0	0	0	0	0
Sonepur	30.7	..	34.7	3	24.5	..	22.8	20	..	418.3	..	126.2	26	16	..	..	8.0	..	0	24	..	..	..	..	..	..	..	..	..
Khijrawan	29.3	..	34.2	4	23.6	..	18.9	9	119.1	280.6	..	52.0	22	15	..	14.3	10.0	..	0	20	0	0	0	0	0	0	0	0	0

**Date given as addenda in December. 1959 issue. (R)—Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
HYDROMETEOROLOGICAL OBSERVATORIES— (*Contd.*)																														
Narmada Catchment :																														
Bagra Tawa	32.1	..	39.4	1, 5	24.8	..	22.6	24	206.6	310.1	..	89.0	17	14	..	10.4	8.9	..	0	18	0	0	3	0	0	0	0	0	0
Punasa	32.6	..	39.7	2	24.9	..	21.1	12	37·0	448.5	..	114.0	13	12	..	10.7	9.4	..	1	15	0	0	0	0	0	0	0	0	0
Thikri	33.0	..	39.8	2	24.9	..	22.3	18	..	162.8	..	34.4	17	11	..	..	..	..	0	14	0	0	0	0	0	0	0	0	0
Sabarmati Catchment :																														
Dharoi	34.7	..	42.0	2	25.7	..	24.2	5	83.0	231.7	..	61.0	20	9	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Gandak Catchment:																														
Jomosom	25.4	..	27.5	22	14.0	..	11.9	13	1.0	32.8	..	8.6	31	4	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	174.5	584.1	..	71.0	3	23	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..
Timure	26.4	..	28.4	16, 21	17.8	..	16.2	20	22.2	244.9	..	27.9	8	22	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..
Pokhara	30·0	..	32·2	13	22·5	..	21·2	3, 6	86·0	812·2	..	167·7	3	19	..	3·7	2·9	—	3	26	0	0	5	0	0	0	0	0	0
Gorkha*																														
Nuwakot	30·3	..	32·7	15	21·0	..	19·4	16	39·2	452·0	..	51·4	9	21	.	..	..	..	0	28	..	..	..	..	..	..	..	..	..
Ghaghara Catchment : (Trans Himalayan Region)																														
Daielkh	27·5	..	30·9	20	20·0	..	18·6	27	97·4	351·4	..	57·4	22	19	..	..		..	0	19	..	..	..	..	..	..	..	..	..
Ghaghara Catchment :																														
Dadeldhura	(k) 23·7	..	27·1	14	(k) 17·1	..	15·5	16	90·9	(a) 337·1	..	..	..	15	..	(k) 4·7	(m) 4·8	..	0	20	0	0	5	4	0	0	0	0	0
Sallayana	27·4	..	29·3	14	19·5	..	18·0	24, 29	46·3	121·3	..	26·8	15	9	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Butwal	33·0	..	36·4	15	25·8	..	23·6	5	160·0	537·2	..	160·0	5	16	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Bhaghmati Catchment:																														
Katmandu†																														
Kosi Catchment:																														
Chautara	27·4	..	30·0	15	18·6	..	16·1	3	94·7	473·6	..	52·8	25	25	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	23·2	457·0	..	34·2	25	27	..	..	..	..	2	29	..	..	..	..	..	..	..	..	..
Walungchung Gola	17·5	..	20·4	21	9·6	..	8·2	4	108·4	339·6	..	24·4	27	28	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Taplethok	27·4	..	30·5	21	18·7	..	14·2	5	98·8	500·8	..	46·8	1,30	26	..	..	..	..	0	28	..	..	..	..	..	..	..	..	..
Bhojpur	25·0	..	28·5	15	18·7	..	17·3	3	28·0	152·4	..	40·0	28	9	..	..	..	..	0	10	..	..	.	..	..	..	..	..	..
Taplejung	24·9	..	27·2	15	(b) 18·0	..	15·6	10	115·3	357·0	..	46·6	21	19	..	..	..	..	0	25	0	0	2	7	0	0	0	0	0
Okhaldhunga	24·4	..	27·1	21	18·0	..	15·8	3, 18	64·0	214·1	..	49·5	25	12	..	..	..	..	3	15	..	..	..	..	..	..	..	..	..
Chainpur	(d) 24·6	..	29·0	10	20·3	..	18·5	3	58·8	261·3	..	63·4	28	11	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Angbung	(b) 29·1	..	32·4	14	(b) 21·1	..	19·1	10	31·0	156·0	..	27·0	3	15	..	..	..	..	0	18	..	..	..	..	..	..	..	..	..
Barahakshetra	32·6	..	37·1	16	24·6	..	22·2	3	167·3	377·7	..	76·6	3	20	..	7·6	4·3	..	3	24	0	0	2	0	0	0	0	0	0
Tista Catchment:																														
Gangtok	23·9	..	28·2	15	17·3	..	15·3	3	156·7	528·8	..	60·5	28	24	..	4·7	3·5	..	0	29	0	0	2	23	0	0	0	0	0
Gezing	25·9	..	29·2	21	18·7	..	16·8	3	45·7	340·8	..	57·7	1	21	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..

† Data included under 'Nepal'
(a) Total for 30 days.

*Data not available.
(d) Mean of 27 days.

(b) Mean of 29 days.
(m) Mean of 18 days.

(k) Mean of 20 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1006·6	1003·7	..	27·1	25·5	25·0	31·7	90	..	5·5	..	10·1	0	4	27	0	0	0	0	0	31	0	0	0	0
	1730	,,	1004·7	1001·6	..	26·9	25·5	25·0	31·7	88	..	5·6	..	9·4	0	2	29	0	0	0	0	0	31	0	0	0	0
Long Island	0830	25	1006·9	1004·1	..	27·4	25·8	25·1	31·9	87	..	7·0	..	4·9	0	0	26	0	0	0	0	0	16	10	0	5	0
	1730	,,	1005·1	1002·3	..	27·2	25·3	24·5	30·7	85	..	7·1	..	6·1	0	0	29	0	0	0	0	0	17	12	0	2	0
Port Blair	0530	79	1006·3	997·4	..	25·5	24·6	24·1	30·0	92	..	7·8	..	18·3	0	9	21	0	0	0	0	0	26	3	1	1	0
	0830	,,	1007·4	998·6	+0·1	27·2	25·4	24·6	30·9	86	+2	7·6	+1·0	23·3	0	18	13	0	0	0	0	0	28	3	0	0	0
	1130	,,	1006·7	997·8	..	27·7	25·3	24·4	30·5	83	..	7·7	..	28·5	0	24	7	0	0	0	0	0	26	5	0	0	0
	1730	,,	1005·5	996·6	..	26·2	24·9	24·2	30·2	89	..	7·5	..	19·6	0	15	15	0	0	0	0	0	27	3	0	1	0
	2330	,,	1006·7	997·8	..	25·8	24·7	24·4	30·5	91	..	6·9	..	16·9	0	8	22	0	0	0	0	0	25	5	0	1	0
Car Nicobar	0830	10	1008·6	1007·4	..	28·2	25·8	21·8	31·3	82	..	6·8	..	7·3	0	0	31	0	0	0	0	0	19	10	2	0	0
	1730	,,	1006·7	1005·5	..	27·4	25·0	24·2	30·2	84	..	7·0	..	5·3	0	0	30	0	0	0	0	1	20	7	2	1	0
Nancowry	0830	26	1009·4	1006·5	..	27·6	25·5	24·5	30·7	82	..	6·0	..	6·0	0	0	29	0	0	0	0	0	23	6	0	2	0
	1730	,,	1007·3	1004·4	..	27·1	24·9	23·8	29·5	83	..	6·3	..	6·1	0	0	29	0	0	0	0	0	25	4	0	2	0
Kondul	0830	..	..	..	..	27·7	25·4	24·4	30·5	82	..	6·7	..	..	..		..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·4	25·4	24·4	30·5	84	..	6·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura).																											
Pasighat	0830	157	1001·8	984·4	..	27·6	25·2	24·1	30·0	83	..	6·2	..	3·5	0	0	23	2	2	5	3	0	0	1	10	8	0
	1730	,,	997·6	980·4	..	29·5	26·5	25·3	32·2	78	..	4·5	..	2·7	0	0	12	1	0	1	0	3	0	0	7	19	0
Dibrugarh (Mohanbari)	0230	111	1000·3	987·8	..	25·8	25·1	24·7	31·1	94	..	6·1	..	1·5	0	0	6	0	3	0	0	1	0	1	1	25	0
	0530	,,	1000·9	988·4	..	25·7	24·9	24·5	30·7	94	..	6·9	..	2·2	0	0	14	0	6	5	1	1	0	0	1	17	0
	0830	,,	1001·7	989·3	−0·8	27·8	25·9	25·1	31·9	86	−1	6·6	0	3·4	0	0	20	0	12	6	0	0	1	1	0	11	0
	1130	111	1000·7	988·4	..	30·0	26·9	25·7	33·0	78	..	6·0	..	4·3	0	0	26	3	7	7	0	1	2	4	2	5	0
	1730	,,	998·1	985·8	..	30·2	26·7	25·3	32·2	75	..	4·9	..	3·7	0	0	23	7	7	5	2	0	1	0	1	8	0
	2330	,,	1000·3	987·8	..	26·5	25·4	24·9	31·5	91	..	5·1	..	2·1	0	0	13	3	7	1	0	0	0	1	1	18	0
Digboi (R)	0830	..																									
(R)	1730	..																									
North Lakhimpur	0830	102	1001·8	990·3	−0·9	27·7	26·0	25·3	32·2	87	−3	7·0	−0·3	3·3	0	0	29	1	10	6	4	1	5	2	0	2	0
	1130	,,	1000·5	989·2	..	30·1	27·0	25·7	33·0	79	..	6·1	..	4·3	0	0	31	5	12	4	2	5	2	1	0	0	0
	1730	,,	997·6	986·3	..	30·0	27·1	25·9	33·4	80	..	4·9	..	2·5	0	0	24	2	9	7	3	2	0	1	0	7	0
Sibsagar	0830	97	1002·0	991·2	−0·2	29·1	26·8	25·9	33·4	83	−4	7·3	+0·1	1·9	0	0	21	3	6	3	1	3	5	0	0	10	0
	1730	,,	998·2	987·6	..	31·0	27·7	26·5	34·6	77	..	5·6	..	1·4	0	0	14	5	3	1	0	2	3	0	0	17	0
Gohpur	0830	..	..	..	..	28·4	26·4	25·6	32·8	84	..	1·3	..	3·0	0	0	31	0	12	3	2	3	9	0	2	0	0
	1730	..	..	..	..	30·4	27·8	26·8	35·4	81	..	1·2	..	3·0	0	0	31	0	3	1	16	0	9	0	2	0	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	4·9	..	1·6	0	0	17	0	6	3	3	2	2	1	0	14	0
	1730	..	..	..	..	..	..	..	..	..	..	3·0	..	0·6	0	0	6	0	0	1	1	1	3	0	0	25	0
Jorhat	0530	90	999·9	989·9	..	26·3	25·6	25·3	32·2	95	..	6·7	..	2·6	0	0	12	1	3	1	0	1	5	1	0	19	0
	0830	,,	1000·9	990·9	..	28·9	26·3	25·7	33·0	82	..	6·4	..	6·9	0	1	25	1	7	2	2	1	8	4	1	5	0
	1130	,,	999·8	989·9	..	31·2	27·2	25·6	32·8	72	..	6·2	..	10·7	0	2	28	0	16	1	0	0	6	5	2	1	0
	1730	,,	996·7	986·9	..	31·1	27·3	25·8	33·2	74	..	5·5	..	7·0	0	0	26	2	11	1	1	0	4	3	4	5	0
	2330	,,	999·6	989·5	..	27·6	26·5	26·1	33·8	92	..	5·8	..	5·8	0	2	14	0	3	0	1	1	9	1	1	15	0
Tangla	0830	78	1000·6	991·9	..	29·9	27·2	26·1	33·8	81	..	5·0	..	0·2	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	997·4	988·9	..	31·4	28·3	27·0	35·7	80	..	5·7	..	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
Tezpur	0830	79	1001·9	993·2	−0·5	28·2	26·1	25·3	32·2	85	−1	6·8	+0·2	4·8	0	0	25	0	11	4	2	0	6	2	0	6	0
	1730	,,	998·2	989·5	..	30·7	27·2	25·7	33·0	74	..	5·0	..	3·4	0	0	22	0	9	4	1	1	6	1	0	9	0
Golaghat	0830	..	..	..	..	28·0	26·5	25·8	33·2	90	..	(a) 7·1	..	(d) 0	0	0	0	0	0	0	0	0	0	0	0	27	0
	1730	..	..	..	..	31·8	28·0	26·5	34·6	73	..	(o) 5·6	..	(o) 0	0	0	0	0	0	0	0	0	0	0	0	16	0
Kanaia	0830	..	..	995·2	..	30·3	27·2	25·9	33·4	78	..	14·9	..	3·1	0	0	23	0	0	13	0	1	1	8	0	8	0
	1730	..	..	992·5	..	31·2	27·4	25·9	33·4	74	..	(k) 4·1	..	(k) 1·7	0	0	7	0	0	0	0	0	1	6	0	9	0
Chaparmukh	0830	66	1001·3	993·9	..	29·6	26·8	25·7	33·0	79	..	4·8	..	3·2	0	0	31	5	0	17	1	7	0	1	0	0	0
	1730	,,	997·2	990·0	..	31·2	27·9	26·8	35·2	77	..	4·6	..	3·8	0	0	31	5	1	6	1	6	0	12	0	0	0
Goalpara	0830	38	1001·9	997·6	..	28·1	26·3	25·4	32·4	86	..	5·4	..	2·4	0	0	24	0	12	1	4	0	5	1	1	7	0
	1730	,,	998·7	994·3	..	31·0	27·2	25·6	32·8	74	..	5·4	..	2·7	0	0	28	0	3	1	11	1	6	1	5	3	0
Gauhati	0830	55	1001·8	995·7	+0·3	29·5	26·9	25·9	33·4	81	−2	5·7	−0·7	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	55	998·6	929·4	..	31·7	27·5	25·8	33·2	71	..	5·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0

(d)—Mean of 27 days. (o)—Mean of 16 days. (R)—Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur & Tripura) (*Contd.*)																											
Gauhati (Bhorjor)	0230	54	999·5	993·4	..	27·1	25·9	25·4	32·4	91	..	6·2	..	2·5	0	0	15	0	1	1	0	4	6	1	2	16	0
	0530	,,	1000·2	994·1	..	26·9	25·9	25·5	32·6	92	..	6·8	..	1·7	0	0	16	4	1	0	1	6	1	3	0	15	0
	0830	,,	1001·2	995·0	—0·5	29·3	26·6	25·5	32·6	80	—1	6·7	+0·3	4·3	0	0	23	3	7	1	1	2	2	3	4	8	0
	1130	,,	1000·2	994·2	..	30·9	27·3	25·9	33·4	75	..	6·5	..	7·0	0	1	28	9	8	1	0	0	1	3	7	2	0
	1730	,,	997·5	991·5	..	30·6	26·9	25·3	32·2	75	..	6·0	..	6·0	0	0	29	3	2	0	0	2	7	11	4	2	0
	2330	,,	1000·2	994·1	..	28·0	26·3	25·5	32·6	88	..	6·0	..	2·9	0	1	7	0	0	1	0	1	5	0	1	23	0
Dhubri (Rupsi)	0530	36	999·6	995·2	..	26·5	25·7	25·4	32·4	94	..	6·3	..	4·3	0	0	21	2	6	7	3	0	2	1	0	10	0
	0830	36	1000·0	996·0	..	29·2	26·7	25·7	33·0	82	..	6·4	..	6·8	0	0	31	1	4	10	5	5	3	1	2	0	0
	1130	36	999·5	995·5	..	30·9	27·3	25·9	33·4	75	..	6·1	..	9·5	0	0	30	1	3	4	8	7	4	2	1	1	0
	1730	36	996·7	992·6	..	30·0	27·4	26·4	34·4	82	..	5·5	..	4·8	0	0	25	1	1	4	2	4	9	4	0	6	0
Dhubri	0830	35	1001·3	997·5	—0·1	29·0	28·0	27·6	36·9	93	+8	4·5	—1·5	2·8	0	0	21	2	7	6	1	2	2	0	1	10	0
	1730	35	998·2	994·3	..	29·6	29·0	28·8	39·6	96	..	5·5	..	1·5	0	0	21	2	5	1	2	8	3	0	0	10	0
Lumding	0830	149	1001·0	984·5	..	29·7	27·1	26·1	33·8	81	—1	5·1	..	2·1	0	0	22	0	2	4	8	5	3	0	0	9	0
	1730	149	996·9	980·5	..	32·1	28·8	27·7	37·1	78	..	5·0	..	1·6	0	0	16	1	2	0	3	3	2	0	5	15	0
Tura	0830	370	1001·5	960·6	..	26·7	25·4	24·9	31·5	90	..	7·4	..	4·1	0	0	23	1	2	1	2	6	2	7	2	8	0
	1730	370	998·3	957·7	..	27·7	26·1	25·4	32·4	87	..	7·2	..	4·8	0	0	26	1	2	4	6	6	5	2	0	5	0
Haflong	0830	682	1001·8	927·6	..	24·8	23·0	22·1	27·0	86	..	5·5	..	9·2	0	1	30	0	1	0	1	4	25	0	0	0	0
	1730	682	997·7	924·2	..	27·0	23·9	22·5	27·3	77	..	4·7	..	7·8	0	0	31	0	0	0	0	3	27	1	0	0	0
Silchar (Kumbhirgram)	0530	97	1000·0	989·1	..	25·4	24·8	24·5	30·7	95	..	6·5	..	2·3	0	0	13	0	2	10	0	1	0	0	0	18	0
	0830	97	1000·5	989·7	..	28·5	25·8	24·5	30·7	80	..	5·9	..	2·4	0	0	16	0	2	12	1	0	0	0	1	15	0
	1130	97	999·4	988·7	..	30·9	26·7	24·9	31·5	71	..	5·6	..	2·9	0	0	20	1	1	2	0	0	1	8	7	11	0
	1730	97	997·0	986·6	..	29·7	26·5	25·1	31·9	78	..	5·4	..	2·8	0	0	12	0	0	3	2	1	1	3	2	19	0
Silchar	0830	29	1001·8	998·5	—1·1	28·9	26·6	25·6	32·8	83	—2	5·9	—0·3	1·4	0	0	15	3	7	2	1	0	1	0	1	16	0
	1730	29	998·3	995·1	..	30·3	27·0	25·7	33·0	77	..	4·9	..	1·6	0	0	17	1	1	3	1	1	2	4	4	14	0
Imphal (Tulihal)	0530	781	1002·0	917·0	..	22·8	22·1	21·7	25·9	94	..	7·2	..	0·4	0	0	4	1	1	1	0	0	1	0	0	27	0
	0830	781	1002·3	917·8	—1·5	25·2	22·9	21·9	26·3	82	+1	6·8	—0·2	2·1	0	0	18	3	4	2	3	3	0	1	2	13	0
	1130	781	1000·7	917·0	..	27·7	26·3	21·8	25·6	70	..	6·6	..	7·0	0	0	30	0	0	3	2	7	10	4	4	1	0
	1730	781	998·2	914·6	..	27·1	23·6	22·1	26·6	74	..	6·6	..	8·6	0	2	24	4	0	3	6	4	1	3	5	5	0
	2330	781	1001·9	917·1	..	23·8	22·6	22·0	26·4	90	..	5·7	..	2·0	0	0	13	6	0	0	1	0	0	2	4	18	0
Kailashahar	0530	29	1001·6	998·3	..	26·0	25·2	24·9	31·5	93	..	6·8	..	1·8	0	0	13	1	0	0	2	8	2	0	0	18	0
	0830	29	1002·2	999·1	..	29·0	26·2	25·0	31·7	80	..	6·4	..	6·0	0	0	28	1	4	0	2	15	5	1	0	3	0
	1130	29	1001·2	998·0	..	31·6	27·3	25·6	32·8	71	..	6·4	..	6·3	0	0	27	1	4	1	2	14	4	1	0	4	0
	1730	29	998·9	995·7	..	29·5	26·9	25·9	33·4	81	..	6·4	..	3·7	0	0	21	5	1	0	0	10	2	1	2	10	0
Agartala	0230	16	999·4	997·6	..	26·1	25·5	25·2	32·1	95	..	6·0	..	10·2	0	1	25	0	0	0	13	12	0	0	1	5	0
	0530	16	999·8	998·0	..	25·8	25·2	24·9	31·5	95	..	7·0	..	8·5	0	1	23	1	1	1	12	9	0	0	0	7	0
	0830	16	1000·6	998·8	—1·7	28·8	26·5	25·5	32·6	83	—2	7·1	+0·1	13·0	0	5	24	1	1	1	16	9	1	0	0	2	0
	1130	16	999·9	998·2	..	30·9	27·3	25·9	33·4	75	..	6·7	..	13·4	0	6	23	1	1	1	4	13	5	2	2	2	0
	1730	16	997·4	995·6	..	29·5	27·0	25·9	33·4	81	..	6·5	..	10·6	0	2	25	1	1	1	3	13	5	1	2	4	0
	2330	16	1000·1	998·3	..	26·7	25·7	25·3	32·2	93	..	5·5	..	10·2	0	1	25	0	1	1	11	13	0	0	0	5	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	999·2	984·5	..	26·5	25·9	25·6	32·8	94	..	6·2	..	9·5	0	1	29	9	5	8	4	1	1	1	1	1	0
	0530	131	999·4	984·7	..	25·7	25·1	24·8	31·3	95	..	6·9	..	8·4	0	2	24	5	7	12	2	0	0	0	0	5	0
	0830	131	1000·4	985·9	—1·0	28·3	26·2	25·3	32·2	84	—3	6·8	—0·4	11·0	0	2	27	1	7	16	5	0	0	0	0	2	0
	1130	131	999·9	985·3	..	30·3	27·1	25·8	33·2	77	..	6·4	..	11·9	0	4	25	1	3	11	10	2	0	0	1	2	1
	1730	131	997·1	982·6	..	29·5	26·8	25·7	33·0	81	..	6·5	..	8·1	0	1	25	2	3	14	5	0	1	0	1	5	0
	2330	131	999·8	985·2	..	27·6	26·6	26·2	34·0	92	..	6·3	..	9·5	0	3	24	5	6	14	1	1	0	0	0	4	0
Jalpaiguri	0830	83	1000·5	991·3	—0·8	27·7	26·1	25·4	32·4	88	0	5·5	+0·2	6·3	0	0	26	4	8	11	1	1	0	0	1	5	0
	1730	83	997·0	987·8	..	30·2	27·0	25·7	33·0	78	..	5·1	..	6·3	0	1	26	4	5	9	3	2	2	1	1	4	0
Cooch Behar	0830	43	1000.5	995.7	..	29.0	26.4	25.3	32.2	82	..	6.6	..	8.6	0	2	24	1	5	13	3	3	1	0	0	5	0
	1130	43	1000.0	995.2	..	30.7	27.1	25.7	33.0	75	..	6.6	..	10.1	0	0	29	0	2	12	7	3	1	0	0	2	4
	1730	43	997.3	992.6	..	30.1	27.1	26.0	33.6	79	..	6.2	..	3.7	0	0	17	0	3	6	5	2	0	0	0	14	1
Balurghat	0830	..	..	..	..	28.8	26.8	26.0	33.6	85	..	5.5	..	3.3	0	0	22	0	0	4	12	4	1	0	1	9	0
	1730	..	..	..	..	31.0	27.3	25.9	33.4	75	..	4.8	..	3.5	0	0	28	0	2	5	14	5	1	0	1	3	0
Malda	0830	31	999.8	996.3	—0.4	29.2	26.7	25.8	33.2	82	0	6.1	+0.3	6.3	0	0	31	0	6	6	13	4	0	2	0	0	0
	1730	31	996.7	993.1	..	31.1	27.5	26.2	33.8	75	..	5.4	..	5.3	0	0	30	0	3	8	13	4	1	0	1	1	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1962 (ASADHA 10—SRAVANA 9, 1884 SAKA)

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	999.3	997.2	—0.8	29.4	27.2	26.3	34.2	83	—1	7.2	+0.5	6.1	0	0	29	0	0	10	3	13	1	2	0	2	0
	1730	,,	996.1	994.0	..	30.3	27.3	26.2	34.0	78	..	6.1	..	4.5	0	0	27	1	1	8	2	10	1	4	0	4	0
Suri	0830	77	..	..	..	28.8	26.5	25.5	32.6	83	..	6.9	..	6.4	0	0	28	0	2	8	7	5	2	2	2	3	0
Asansol	0230	126	997.8	983.8	..	26.8	26.1	26.0	33.6	94	..	4.6	..	5.3	0	0	20	0	0	4	8	3	3	2	0	11	0
	0530	126	998.1	984.0	..	26.4	25.9	25.5	32.6	96	..	6.3	..	5.5	0	1	18	0	1	7	4	4	1	2	0	12	0
	0830	126	999.2	985.2	+0.3	28.8	26.8	26.0	33.6	85	0	6.6	—0.2	7.8	0	0	28	1	0	9	9	3	4	1	1	3	0
	1130	126	998.6	984.7	..	30.8	27.6	26.3	34.2	78	..	6.1	..	7.7	0	1	23	0	2	5	9	3	2	3	0	7	0
	1730	126	995.9	982.0	..	30.5	27.6	26.5	34.6	80	..	6.3	..	6.6	0	0	22	0	1	9	8	2	0	2	0	9	0
	2330	126	998.8	984.7	..	27.3	26.5	26.3	34.2	93	..	5.2	..	5.9	0	0	22	0	0	4	11	4	2	1	0	9	0
Shanti Niketan	0830	59	999.7	993.1	..	28.8	26.8	26.0	33.6	85	..	6.3	..	5.8	0	0	18	0	1	3	7	5	2	0	0	13	0
	1130	59	999.3	992.7	..	30.8	27.1	25.5	32.6	74	..	6.6	..	6.0	0	0	22	0	2	6	5	6	2	1	0	9	0
	1730	59	996.4	989.8	..	30.4	27.1	25.7	33.0	77	..	6.2	..	4.6	0	0	18	0	1	1	8	8	0	0	0	13	0
Krishnanagar	0830	15	1000.3	998.7	+0.1	29.5	27.5	26.8	35.2	85	+2	4.0	—2.6	1.2	0	0	11	0	0	1	0	10	0	0	0	20	0
	1730	15	996.7	995.1	..	30.5	27.1	26.2	34.0	81	..	4.2	..	1.7	0	0	17	0	0	0	0	17	0	0	0	14	0
Purulia	0830	255	999.1	971.2	—1.1	28.4	26.3	25.5	32.6	84	+1	7.4	+0.9	5.9	0	1	29	0	8	0	11	3	4	0	4	1	0
	1730	255	995.8	968.1	..	30.0	25.9	24.2	30.2	72	..	7.2	..	5.2	0	0	28	0	6	1	13	2	1	0	2	3	3
Bankura	0830	255	..	..	..	29.0	26.4	25.3	32.2	81	..	4.8	..	5.9	0	1	22	0	5	2	7	1	6	0	2	8	0
	1730	255	..	..	..	31.2	26.9	25.1	31.9	72	..	5.4	..	5.0	0	1	18	1	4	0	9	1	4	0	0	12	0
Burdwan	0830	32	998.7	995.0	—1.3	29.5	27.1	26.0	33.6	81	—3	4.5	—2.1	4.6	0	0	17	0	0	8	2	4	3	0	0	14	0
	1730	32	995.9	992.3	..	30.2	27.1	26.8	33.6	78	..	5.3	..	8.7	0	1	22	1	0	8	3	6	5	0	0	8	0
Barrackpore (Aerodrome)	0530	7	998.7	997.9	..	26.8	26.5	26.3	34.2	97	..	6.0	..	4.8	0	0	22	0	4	4	4	6	2	1	1	9	0
	0830	7	999.5	998.8	—1.5	29.1	27.4	26.7	35.0	87	+2	6.7	—0.2	7.8	0	0	28	0	2	6	7	5	3	3	2	3	0
	1130	7	999.0	998.3	..	30.5	28.4	27.6	36.9	82	..	6.9	..	7.3	0	0	29	0	3	5	7	4	7	2	1	2	0
	1730	7	996.7	995.9	..	29.9	28.1	27.4	36.5	87	..	6.2	..	7.5	0	0	29	0	1	5	7	7	7	2	0	2	0
	2330	7	999.3	998.5	..	27.5	26.6	26.2	34.0	93	..	4.5	..	3.0	0	0	13	0	0	2	3	5	2	1	0	18	0
Calcutta (Dum Dum)	0230	6	997.9	997.2	..	27.0	26.2	25.9	33.4	93	..	4.5	..	5.5	0	0	23	0	2	3	9	5	3	1	0	8	0
	0530	6	998.2	997.5	..	26.7	26.0	25.7	33.0	94	..	6.5	..	5.4	0	0	22	1	2	6	5	5	2	1	0	9	0
	0830	6	999.3	998.6	—1.2	29.4	27.0	26.0	33.6	83	0	6.9	—0.1	8.1	0	0	28	1	0	4	13	5	4	1	0	3	0
	1130	6	998.8	998.1	..	31.0	27.6	26.3	34.2	76	..	7.0	..	9.2	0	1	28	0	3	4	7	6	6	1	2	2	0
	1730	6	996.5	995.8	..	30.1	27.0	26.3	34.0	80	..	6.0	..	10.4	0	1	28	0	1	1	9	12	4	2	0	2	0
	2330	6	998.9	998.2	..	27.5	26.5	26.1	33.8	92	..	4.2	..	6.4	0	0	27	0	1	4	9	8	4	1	0	4	0
Calcutta	0830	6	999.0	998.3	—1.0	29.4	26.7	25.7	33.0	80	—3	6.7	—0.3	5.5	0	0	23	0	0	4	6	10	1	2	0	8	0
	1130	6	998.5	997.8	..	31.6	27.3	25.7	33.0	71	..	6.8	..	6.1	0	0	27	0	0	6	3	10	4	4	0	4	0
	1730	6	996.3	995.6	..	30.4	27.0	25.6	32.8	76	..	6.1	..	7.4	0	0	23	0	0	1	6	14	1	1	0	8	0
Midnapore	0830	45	999.0	993.9	—0.9	28.5	26.4	25.5	32.6	83	+1	5.9	+0.1	4.1	0	0	29	1	3	4	3	10	4	3	1	2	0
	1730	45	996.3	991.3	..	29.7	26.8	25.7	33.0	79	..	5.5	..	3.6	0	0	29	0	1	2	2	16	7	0	1	2	0
Contai	0830	11	999.3	998.1	—1.0	29.2	26.8	25.8	33.2	81	—4	4.7	—1.4	4.9	0	0	28	1	1	3	6	2	11	2	2	3	0
	1730	11	996.4	995.2	..	29.4	26.9	25.7	33.0	81	..	3.7	..	6.8	0	0	30	0	0	1	12	3	12	2	0	1	0
Sagar Island	0830	3	998.9	998.6	—0.9	28.8	27.1	26.5	34.6	86	+4	6.2	—0.8	21.6	0	18	13	1	2	3	4	5	8	5	3	0	0
	1730	3	996.6	996.3	..	29.6	27.2	26.2	34.0	82	..	5.7	..	25.2	0	22	9	0	0	2	6	10	10	3	0	0	0
Sandheads	0530	10	998.1	997.0	..	28.4	26.6	25.9	33.4	85	..	6.3	..	17.9	0	12	18	0	2	2	2	8	11	4	1	1	0
	0830	10	998.5	997.4	—1.4	28.9	26.6	25.6	32.8	82	0	6.2	0	17.2	0	8	23	1	1	2	3	6	14	3	1	0	0
	1130	10	998.2	997.1	..	29.3	26.8	25.7	33.0	81	..	6.3	..	17.0	0	10	21	1	1	2	3	6	15	2	1	0	0
	1730	10	996.3	995.2	..	29.2	26.9	25.8	33.2	82	..	6.4	..	19.9	0	11	19	0	0	2	4	6	16	2	0	1	0
	2330	10	997.9	996.8	..	28.9	26.8	25.9	33.4	84	..	1.4	..	18.9	0	13	18	0	0	2	3	9	15	1	1	0	0
Orissa																											
Baripada	0830	54	999.8	993.8	..	28.0	26.3	25.7	33.0	87	..	6.6	..	2.5	0	0	19	4	4	3	5	1	0	1	1	12	0
	1730	54	997.2	991.2	..	29.5	27.0	26.0	33.6	81	..	6.2	..	3.2	0	0	20	0	0	5	8	2	2	3	0	11	0
Jharusguda	0230	230	997.9	972.3	..	25.5	24.4	23.9	29.7	92	..	6.9	..	6.2	0	0	23	1	1	1	0	4	10	6	0	8	0
	0530	230	998.0	972.4	..	25.2	24.4	24.0	29.8	93	..	7.5	..	7.2	0	0	25	1	1	0	3	3	10	7	0	6	0
	0830	230	999.2	973.7	—1.3	26.6	25.0	24.3	30.4	87	+1	7.9	+0.7	10.0	0	2	27	2	2	0	1	1	13	10	0	2	0
	1130	230	998.7	973.3	..	28.6	25.7	24.5	30.7	79	..	7.6	..	12.1	0	2	29	1	2	2	3	3	7	12	1	0	0
	1730	230	996.2	970.8	..	28.1	25.5	24.4	30.5	81	..	7.7	..	10.5	0	3	27	0	2	1	1	4	10	10	2	1	0
	2330	230	998.9	973.3	..	26.0	24.9	24.5	30.7	92	..	6.6	..	7.7	0	0	25	0	0	2	1	6	12	4	0	6	0
Keonjhargarh	0830	463	996.9	946.0	..	25.7	23.9	22.9	27.9	84	..	6.9	..	4.7	0	0	26	6	2	2	1	1	1	11	2	5	0
	1730	463	994.3	944.1	..	27.2	24.3	23.2	28.4	79	..	7.3	..	3.3	0	0	27	1	2	1	4	2	2	14	1	4	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temparature in °C: Dry bulb	Mean temparature in °C: Wet bulb	Mean temparature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa (*Contd.*)																											
Balasore	0830	20	998.9	996.7	−1.4	28.6	26.8	26.1	33.8	87	+5	6.8	+0.9	11.0	0	6	24	2	3	3	3	11	8	0	0	1	0
	1730	20	996.3	994.1	..	29.9	27.5	26.7	35.0	83	..	6.4	..	10.8	0	4	27	0	0	3	6	11	9	2	0	0	0
Sambalpur	0830	148	999.5	983.0	−0.8	27.0	25.1	24.4	30.5	86	+2	6.8	+0.2	4.1	0	0	20	0	1	1	1	3	11	2	1	11	0
	1730	148	996.6	980.3	..	28.9	25.8	24.5	30.7	79	..	6.6	..	3.1	0	0	13	0	0	2	1	4	4	2	0	18	0
Angul	0830	139	999.8	984.3	−0.7	27.5	25.5	24.7	31.1	85	+5	7.0	+0.7	4.7	0	1	22	1	0	1	2	2	6	10	1	8	0
	1730	139	997.0	981.7	..	28.7	27.1	26.3	34.2	84	..	7.2	..	4.8	0	0	27	0	1	3	3	3	8	9	0	4	0
Cuttack	0830	27	999.7	996.7	−1.0	28.6	26.4	25.5	32.6	83	+3	[illegible]	+0.3	5.7	0	0	17	1	2	0	2	0	7	5	0	14	0
	1730	27	997.1	994.1	..	29.5	26.7	25.4	32.4	78	..	6.8	..	7.0	0	0	21	0	0	2	3	0	12	2	2	10	0
Chandbali	0830	6	999.1	998.4	−0.8	28.7	26.8	26.0	33.6	86	+2	7.9	+0.6	5.5	0	0	28	1	0	2	2	4	12	3	4	3	0
	1730	6	996.3	995.6	..	29.5	26.7	25.5	32.6	80	..	6.1	..	5.2	0	0	26	0	2	0	7	7	5	3	2	5	0
Bolangir	0830	190	1000.7	979.5	..	26.6	24.9	24.0	29.8	85	..	7.5	..	3.6	0	0	31	0	2	0	3	8	12	3	3	0	0
	1730	190	997.4	976.3	..	28.4	26.0	25.0	31.7	83	..	7.5	..	3.9	0	0	31	2	3	0	2	10	12	1	1	0	0
Phulbani	0830	464	998.0	947.2	..	25.3	23.6	22.7	27.6	87	..	7.8	..	1.3	0	0	5	0	0	0	0	0	4	1	0	26	0
	1730	464	995.1	944.7	..	27.1	24.6	23.4	28.8	80	..	7.8	..	0.9	0	0	5	0	0	0	0	0	2	3	0	26	0
Titlagarh	0830	211	1000.3	977.1	..	27.0	24.9	23.9	29.7	84	..	..	..	3.0	0	0	31	1	1	0	0	8	20	1	0	0	0
	1730	211	998.3	975.0	..	27.8	25.6	24.6	30.9	84	..	..	..	3.0	0	0	31	0	2	1	2	6	17	0	3	0	0
Bhubaneswar	0230	46	998.2	993.0	..	26.6	25.5	25.3	32.2	93	..	5.3	..	6.6	0	2	18	0	0	1	0	1	13	1	4	11	0
	0530	46	998.4	993.2	..	26.1	25.3	25.1	31.9	93	..	6.6	..	5.2	0	3	13	3	0	2	0	1	4	3	3	15	0
	0830	46	999.6	994.4	−1.4	27.5	26.0	25.3	32.2	84	0	6.9	+0.1	9.5	0	5	18	2	2	0	1	1	10	4	3	8	0
	1130	46	999.1	993.9	..	29.8	26.4	25.0	31.7	75	..	7.1	..	14.3	0	5	21	3	0	2	1	4	6	8	2	5	0
	1730	46	997.1	991.9	..	28.5	25.9	25.0	31.7	81	..	7.2	..	14.6	0	7	22	3	1	2	0	9	8	3	3	2	0
	2330	46	999.3	994.1	..	26.6	25.6	25.2	32.1	91	..	5.3	..	9.0	0	5	17	2	0	1	0	4	10	5	0	9	0
Puri	0830	6	999.6	998.9	−0.9	28.7	26.3	25.4	32.4	82	0	6.7	+0.9	16.1	2	14	15	3	1	0	1	2	18	4	2	0	0
	1730	4	997.7	997.0	..	28.5	26.4	25.5	32.6	83	..	6.3	..	16.7	5	14	10	0	2	1	0	5	18	2	1	2	0
Gopalpur	0530	17	998.5	996.6	..	26.6	25.4	24.9	31.5	90	..	7.2	..	8.1	0	3	24	4	0	0	1	8	11	0	3	4	0
	0830	17	999.9	998.0	−0.8	28.2	26.3	25.5	32.6	85	+4	7.1	+2.1	9.9	0	3	25	3	0	1	0	9	13	0	2	3	0
	1130	17	999.4	997.5	..	29.4	26.7	25.5	32.6	80	..	7.3	..	15.3	0	7	23	2	0	0	4	14	6	1	3	1	0
	1730	17	997.3	995.4	..	28.2	26.5	25.8	33.2	87	..	7.0	..	18.7	0	11	19	3	0	0	1	15	10	1	0	1	0
	2330	17	999.3	997.4	..	26.3	26.2	25.7	33.0	91	..	6.0	..	9.5	0	2	23	1	0	0	0	10	12	1	1	6	0
Koraput	0830	913	1434.4	902.9	−1.0	21.9	21.1	20.8	24.6	92	+2	7.8	+0.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	913	1415.9	900.9	..	21.8	21.0	20.6	24.3	92	..	7.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	999.4	982.9	−0.3	28.8	26.6	25.7	33.0	83	+1	6.9	+1.1	4.1	0	0	22	0	1	9	7	3	0	2	0	9	0
	1730	149	996.5	980.1	..	30.3	26.9	25.7	33.0	81	..	5.5	..	5.2	0	0	23	1	2	4	6	8	0	2	0	8	0
Daltonganj	0830	221	998.1	973.8	−0.7	29.7	26.0	24.5	30.7	75	−5	6.9	+1.9	1.5	0	0	5	0	2	2	0	0	0	1	0	26	0
	1750	211	994.0	969.9	..	31.3	26.1	24.0	29.8	67	..	6.8	..	3.5	0	0	19	0	2	6	2	1	4	3	1	12	0
Hazaribagh	0830	611	998.7	932.2	−0.4	26.2	24.3	23.6	29.1	85	0	6.7	−0.4	9.6	0	1	22	1	1	5	3	3	4	1	5	8	0
	1730	611	995.5	929.7	..	27.6	24.7	23.7	29.3	80	..	6.5	..	8.0	0	2	24	0	1	4	8	6	2	0	5	5	0
Dhanbad	0830	257	998.8	970.4	..	28.2	25.8	24.8	31.3	84	..	6.6	..	8.9	0	4	23	0	0	0	2	5	2	4	2	4	12
	1730	257	995.4	967.4	..	30.1	26.0	24.3	30.4	72	..	6.7	..	8.9	0	1	25	0	0	0	1	1	0	0	1	5	23
Ranchi	0830	655	998.7	927.4	−0.4	25.8	23.5	22.5	27.6	82	−3	6.8	+0.2	1.7	0	0	15	0	2	3	2	5	2	1	0	16	0
	1730	655	998.4	927.6	..	26.6	23.8	22.6	27.4	80	..	6.9	..	2.8	0	0	26	1	4	4	4	1	9	0	3	5	0
Ranchi Aerodrome	0530	652	997.9	926.9	..	23.8	23.3	22.5	27.3	94	..	7.0	..	4.4	0	1	17	0	2	3	1	2	8	0	2	13	0
	0830	522	998.4	927.8	..	25.8	23.6	22.7	27.6	83	..	7.1	..	9.0	0	1	27	1	2	6	2	2	11	1	3	3	0
	1130	652	997.8	927.6	..	27.3	24.1	22.7	27.6	77	..	7.1	..	10.2	0	2	28	0	3	7	3	2	9	2	4	1	0
	1730	652	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jamshedpur	0830	129	999.0	984.6	−0.3	28.3	25.8	24.7	31.1	81	0	7.0	−0.1	6.7	0	1	28	0	3	8	1	0	3	12	2	2	0
	1730	129	995.8	981.7	..	30.3	26.4	24.7	31.1	73	..	6.6	..	5.2	0	0	24	0	1	4	7	0	4	7	1	7	0
Jamshedpur (P.B.O.)	0530	142	997.8	982.0	..	26.4	25.3	25.0	31.7	91	..	6.9	..	5.0	0	0	22	0	6	4	1	4	4	2	1	9	0
	0830	142	999.0	983.2	..	28.2	25.6	24.5	30.7	80	..	7.3	..	8.2	0	1	27	1	6	3	0	4	10	3	1	3	0
	1130	142	998.3	982.7	..	30.8	26.5	24.5	30.7	70	..	7.0	..	8.4	0	1	27	0	7	5	0	6	9	0	1	3	0
	1730	142	995.7	980.2	..	30.4	26.1	24.4	30.5	71	..	7.2	..	7.6	0	1	24	1	4	5	6	4	4	1	0	6	0
	2330	142	998.6	982.8	..	27.5	25.7	25.0	31.7	86	..	4.8	..	6.2	0	2	23	0	7	6	2	3	4	3	0	6	0
Chaibasa	0830	226	998.7	973.7	−0.5	27.7	25.4	24.3	30.4	81	0	7.6	+1.1	5.2	0	0	27	0	6	0	1	0	16	0	4	4	0
	1730	226	995.6	970.8	..	29.6	26.6	25.4	32.4	79	..	7.4	..	4.0	0	0	26	0	6	0	5	1	13	0	1	5	0
Bihar Plains																											
Motihari	0830	66	1000.8	993.4	+1.2	29.6	27.8	27.1	35.9	88	+7	(d) 6.4	+1.4	(d) 2.4	0	0	16	0	0	16	0	0	0	0	0	11	0
	1730	66	996.8	989.5	..	30.6	28.2	27.3	36.3	84	..	(c) 6.0	..	(c) 3.1	0	0	21	2	2	16	0	0	0	1	0	7	0

(c) Mean of 28 days. (d)—Mean at 27 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Forbeshganj	0830	61	999.7	992.9	..	28.8	26.6	25.7	33.0	84	..	6.3	..	5.8	0	0	28	0	1	25	2	0	0	0	0	3	0
	1730	,,	996.3	989.6	..	30.9	22.4	26.0	33.6	77	..	5.2	..	4.3	0	0	25	0	1	19	3	1	0	1	0	6	0
Darbhanga	0830	49	999.3	993.9	−0.4	30.7	27.4	26.1	33.8	77	−6	4.0	−2.1	3.5	0	0	26	0	4	16	4	1	0	1	0	5	0
	1730	,,	996.5	990.9	..	31.1	27.3	25.7	30.7	72	..	3.2	..	2.9	0	0	24	2	9	12	1	0	0	0	0	7	0
Chapra	0830	..	..	..	..	30.3	27.1	26.0	33.6	78	..	5.8	..	6.3	0	0	26	0	10	9	2	0	5	0	0	5	0
	1730	..	..	..	..	31.5	27.4	25.8	33.2	73	..	5.8	..	3.5	0	0	22	0	9	4	5	0	3	0	1	9	0
Purnea	0830	38	1000.0	995.7	−0.4	29.1	27.0	26.1	33.8	84	−1	6.3	+0.4	5.0	0	0	27	0	1	22	4	0	0	0	0	4	0
	1730	,,	996.7	992.5	..	30.5	27.5	26.3	34.2	80	..	5.2	..	3.1	0	0	20	0	3	17	0	0	0	0	0	11	0
Patna	0830	53	998.7	992.8	−0.7	30.1	26.5	25.2	32.1	75	−6	6.3	−0.3	7.8	0	0	31	0	13	5	7	1	3	1	1	0	0
	1730	,,	995.0	989.5	..	32.4	27.1	25.1	31.9	66	..	5.7	..	7.0	0	0	29	1	19	3	0	1	1	3	1	2	0
Patna Aerodrome	0530	60	997.1	990.3	..	27.8	26.5	25.9	33.4	90	..	6.1	..	7.6	0	1	22	1	3	15	1	1	0	2	0	8	0
	0830	,,	998.2	991.6	..	30.7	27.2	25.7	33.0	75	..	6.7	..	12.2	0	5	22	0	5	12	5	1	2	2	0	4	0
	1130	,,	997.6	991.0	..	32.5	27.4	25.3	32.2	69	..	7.0	..	12.4	0	3	24	0	6	14	3	0	2	2	0	4	0
	1730	,,	994.7	988.1	..	32.1	27.2	25.2	32.1	69	..	6.0	..	12.1	0	2	26	2	5	14	0	1	1	2	3	3	0
	2330	,,	998.0	992.2	..	28.9	26.7	26.0	33.6	85	..	4.4	..	7.0	0	0	21	0	1	17	0	0	0	2	1	10	0
Bhagalpur	0530	49	998.5	993.0	..	27.5	26.3	25.9	33.4	91	..	6.5	..	6.9	0	1	22	0	0	9	8	4	0	1	1	8	0
	0830	,,	999.7	994.3	−1.0	29.9	27.1	25.9	33.4	80	−4	6.5	−0.3	7.7	0	2	23	0	1	8	13	2	0	1	0	6	0
	1130	,,	999.2	993.8	..	31.6	27.4	25.7	33.0	73	..	6.6	..	8.4	0	1	26	0	1	11	11	1	0	2	1	4	0
	1730	,,	996.2	990.8	..	31.6	27.4	25.7	33.0	72	..	6.5	..	9.4	0	4	23	0	3	14	7	0	1	1	1	4	0
	2330	,,	999.0	993.5	..	28.7	26.7	25.9	33.4	86	..	4.9	..	7.3	0	1	23	0	0	7	14	2	0	1	0	7	0
Sabaur	0830	37	999.3	995.1	−0.3	29.3	27.1	26.2	34.0	82	−1	6.9	+0.2	7.7	0	0	31	1	0	13	11	0	3	2	1	0	0
	1730	,,	995.9	991.7	..	31.7	27.6	25.9	33.4	75	..	6.7	..	7.7	0	0	28	1	1	19	4	1	0	1	1	3	0
Jamui	0830	82	999.9	990.6	..	31.0	28.3	27.3	36.3	80	..	5.8	..	3.6	0	0	28	0	0	11	11	0	1	4	1	3	0
	1730	,,	996.2	986.9	..	31.5	28.1	28.2	38.2	78	..	6.2	..	2.4	0	0	27	0	1	8	13	0	1	0	4	4	0
Dehri	0830	107	998.0	986.3	..	30.6	26.4	24.6	30.9	70	..	5.5	..	3.6	0	0	31	0	2	3	11	4	2	3	6	0	0
	1730	,,	993.8	982.1	..	32.9	27.1	24.4	30.5	65	..	6.4	..	2.8	0	0	30	0	6	7	5	2	2	6	2	1	0
Gaya	0230	116	997.4	984.4	..	27.9	26.3	25.7	33.0	88	..	5.3	..	5.0	0	1	17	0	1	3	6	2	2	2	2	13	0
	0530	,,	997.6	984.6	..	27.5	26.2	25.6	32.8	89	..	6.0	..	5.1	0	1	15	0	2	6	2	1	3	1	1	15	0
	0830	,,	998.7	985.7	−0.3	29.9	27.0	25.9	33.4	80	+5	6.2	+1.0	9.9	0	3	23	0	1	5	9	2	5	2	2	5	0
	1130	,,	998.0	985.2	..	32.6	22.6	25.7	32.8	68	..	6.3	..	12.3	0	8	18	3	1	9	3	0	4	5	1	5	0
	1730	,,	995.1	982.3	..	32.2	27.2	25.1	31.9	68	..	6.1	..	11.7	0	5	23	2	3	7	8	2	0	3	3	3	0
	2330	,,	998.1	985.1	..	28.6	26.5	25.8	33.2	84	..	5.1	..	5.7	0	2	18	0	3	3	8	1	3	1	1	11	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bahraich	0830	124	998.7	984.9	−0.1	29.3	26.7	25.6	32.8	81	+1	5.8	+1.3	10.6	0	2	29	1	1	22	3	1	0	3	0	0	0
	1730	,,	995.3	982.0	..	32.3	27.2	25.1	31.9	68	..	5.1	..	8.0	0	0	31	0	1	16	7	1	0	3	3	0	0
Nautanwa	0830	99	999.3	988.3	..	28.5	26.5	26.1	33.8	85	..	2.5	..	4.5	0	0	30	0	5	17	7	1	0	0	0	1	0
	1730	,,	996.3	985.1	..	31.5	28.0	26.4	34.4	76	..	1.6	..	4.4	0	0	29	0	4	16	7	0	1	0	1	2	0
Hardoi	0830	142	998.0	982.3	−1.0	30.1	27.2	26.1	33.8	80	−4	4.3	−1.1	6.8	0	0	27	3	0	19	2	2	0	0	1	4	0
	1730	,,	994.3	978.8	..	33.7	27.6	25.0	31.9	65	..	4.6	..	5.9	0	0	24	3	0	12	1	3	0	3	2	7	0
Gonda	0830	110	998.5	986.3	..	29.5	26.7	25.7	32.8	80	−2	5.7	−0.4	2.7	0	0	21	1	1	19	0	0	0	0	0	10	0
	1730	,,	995.0	983.0	..	32.1	27.4	25.3	32.6	70	..	4.4	..	2.7	0	0	23	1	1	17	1	0	0	1	2	8	0
Lucknow	0830	111	997.4	985.1	−1.2	29.7	26.9	25.9	33.2	81	+2	4.5	−1.3	3.0	0	0	28	1	13	6	3	1	2	0	2	3	0
	1730	,,	994.2	982.1	..	33.1	27.3	25.1	31.5	65	..	4.8	..	3.1	0	0	29	0	13	4	6	0	2	0	3	2	1
Lucknow (Amausi)	0230	128	996.4	982.2	..	28.2	26.2	25.3	32.4	85	..	4.3	..	9.5	0	4	23	0	6	16	1	1	2	0	1	4	0
	0530	,,	996.7	982.5	..	27.4	25.8	25.1	31.9	88	..	5.6	..	8.5	0	4	20	1	4	11	4	2	0	0	2	7	0
	0830	,,	997.5	983.7	−0.8	29.7	26.7	25.1	32.6	77	+3	5.8	0	14.9	0	10	19	2	3	12	6	2	0	2	2	2	0
	1130	,,	997.5	983.5	..	32.4	26.8	24.4	31.1	65	..	5.7	..	17.2	0	15	13	1	3	12	6	2	1	1	2	3	0
	1730	,,	994.3	980.3	..	33.0	26.6	23.8	30.2	61	..	5.5	..	16.2	0	11	18	1	3	13	3	3	3	0	3	2	0
	2330	,,	997.2	983.0	..	29.0	26.4	25.3	32.2	81	..	4.0	..	9.1	0	4	26	0	6	11	4	0	0	2	1	7	0
Faizabad	0830	102	998.0	986.8	..	28.9	26.8	25.8	33.4	84	..	5.9	..	5.2	0	0	26	0	5	7	9	0	0	0	3	5	2
	1730	,,	994.8	983.6	..	31.7	27.3	25.4	32.6	71	..	5.2	..	5.1	0	0	26	0	11	2	7	1	3	1	0	5	1
Gorakhpur	0830	77	997·9	989·2	−1·5	29·1	26·8	25·9	33.4	83	0	5.9	+1·1	6.6	0	0	30	1	11	6	6	1	1	1	0	1	3
	1730	,,	994.1	985.6	..	31.4	27.5	26.1	33.6	73	..	5.2	..	6.1	0	0	30	1	11	6	2	1	1	0	4	1	4
Gorakhpur P.B.O.	0230	78	997.2	988.4	..	28.3	26.6	26.1	33.4	88	..	4.5	..	7.5	0	3	23	0	16	6	1	1	0	0	2	5	0
	0530	,,	997.5	988.7	..	27.6	26.1	25.7	32.6	89	..	6.4	..	6.5	0	2	28	2	12	11	0	1	0	1	1	3	0

(R)—Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Gorakhpur P.B.O.—(*Contd.*)	1130	78	998.5	989.8	..	30.8	27.4	26.3	33.6	78	..	6.0	..	8.0	0	1	29	0	6	13	9	1	0	1	0	1	0
	2330	,,	998.0	989.3	..	28.8	26.9	26.3	33.8	87	..	2.8	..	5.9	0	0	26	0	13	7	1	2	1	0	2	5	0
Kanpur	0830	126	997.9	984.0	—0.6	30.2	26.8	24.9	32.4	79	—4	5.3	+0.8	6.8	0	1	30	2	7	7	4	2	3	4	2	0	0
	1730	,,	994.3	980.6	..	34.2	26.9	24.0	29.5	56	..	5.1	..	7.0	0	0	31	4	5	11	2	0	1	4	4	0	0
Kanpur (Aerodrome)	0530	126	996.9	982.5	..	28.5	25.7	24.3	30.7	80	..	5.4	..	10.0	0	2	26	1	4	11	3	3	1	3	2	3	0
	0830	,,	998.0	983.7	..	30.6	26.3	24.4	30.7	72	..	5.7	..	13.4	0	4	25	0	3	10	3	4	0	4	5	2	0
	1130	,,	997.7	983.6	..	33.7	26.9	23.9	29.8	60	..	5.4	..	16.6	0	6	24	5	1	14	4	3	0	0	3	1	0
	1730	,,	994.6	980.5	..	33.8	26.9	23.8	29.7	59	..	5.7	..	17.6	0	9	20	3	1	12	3	2	2	2	4	2	0
	2330	,,	997.1	983.1	..	30.0	26.4	24.9	31.5	76	..	4.3	..	9.4	0	0	27	4	3	10	3	4	1	0	1	4	1
Sultanpur	0830	97	998.3	987.6	..	29.6	27.0	25.9	33.6	81	..	5.3	..	3.3	0	0	26	0	2	11	6	2	2	2	1	5	0
	1730	,,	994.7	984.1	..	32.1	27.1	25.0	31.7	69	..	5.4	..	3.6	0	0	27	4	2	12	3	1	1	0	4	4	0
Azamgarh	0830	78	997.9	989.3	..	29.4	26.9	25.9	33.0	82	..	3.8	..	5.3	0	0	29	1	0	23	0	2	0	3	0	2	0
	1730	,,	994.7	986.1	..	32.5	27.6	25.5	33.0	70	..	5.0	..	4.1	0	0	29	0	1	21	0	1	1	5	0	2	0
Fatehpur	0830	114	997.7	985.1	..	30.8	26.6	24.6	31.3	72	—9	5.3	—0.3	8.4	0	0	30	1	1	13	2	2	3	7	1	1	0
	1730	,,	994.1	981.7	..	33.9	27.0	23.9	29.8	60	..	5.3	..	8.6	0	0	29	3	8	9	3	0	1	3	2	2	0
Ballia	0830	64	998.3	991.8	..	30.4	26.8	25.4	32.0	75	..	5.8	..	1.8	0	0	21	0	3	12	3	2	0	1	0	10	0
	1730	,,	996.0	989.1	..	30.8	26.9	25.2	32.0	74	..	6.0	..	1.6	0	0	15	1	3	9	0	1	0	0	1	16	0
Banda	0830	121	998.3	984.9	..	30.0	26.8	25.4	32.6	75	..	4.2	..	2.0	0	0	31	0	8	0	5	0	12	0	6	0	0
	1730	,,	991.7	978.6	..	33.5	27.8	25.4	32.6	65	..	4.3	..	2.1	0	0	31	0	5	0	5	0	13	0	8	0	0
Allahabad (Bamrauli)	0230	98	996.4	985.5	..	28.7	25.8	24.5	30.9	80	..	4.9	..	3.4	0	0	21	1	2	7	1	1	5	2	2	10	0
	0530	,,	996.6	985.7	..	28.2	25.6	24.5	30.7	82	..	6.1	..	3.4	0	0	19	0	2	9	0	1	1	4	2	12	0
	0830	,,	997.9	987.1	—0.8	30.4	26.4	24.7	31.1	74	—5	5.7	—0.8	6.1	0	1	22	0	0	10	2	1	3	5	2	8	0
	1130	,,	997.5	986.8	..	32.9	26.9	24.2	30.5	64	..	6.0	..	7.6	0	3	23	1	4	7	1	2	2	5	4	5	0
	1730	,,	994.2	983.5	..	33.6	26.8	23.8	29.7	61	..	6.4	..	5.0	0	0	26	4	5	7	1	3	3	0	3	5	0
	2330	,,	997.2	986.4	..	29.7	26.3	24.8	31.5	78	..	5.2	..	4.5	0	0	23	1	4	7	1	6	2	1	1	8	0
Varanasi (Babatpur)	0530	85	997.7	988.0	..	28.0	26.0	25.1	31.7	86	..	6.1	..	8.7	0	0	28	1	1	9	5	2	7	2	1	3	0
	0830	,,	998.9	989.3	—0.9	29.8	26.4	25.2	31.7	77	—6	5.9	—0.5	15.6	0	5	25	0	2	6	7	1	5	6	2	1	1
	1130	,,	998.3	988.8	..	32.5	27.1	24.6	31.3	66	..	6.1	..	18.1	0	12	19	4	3	5	4	3	6	3	3	0	0
	1730	,,	995.2	986.0	..	33.2	27.0	24.2	30.5	63	..	6.2	..	16.0	0	7	24	3	6	7	5	2	3	3	2	0	0
	2330	,,	998.1	988.5	..	29.5	26.0	24.4	30.2	73	..	3.9	..	12.4	0	0	27	2	3	9	6	0	4	2	1	4	0
Varanasi	0830	76	998.3	989.8	—0.6	29.9	26.6	25.0	31.9	77	—3	6.2	—0.1	2.8	0	0	30	1	3	5	6	0	5	7	3	1	0
	1730	,,	994.1	985.8	..	33.3	27.3	25.1	31.3	64	..	4.7	..	2.8	0	0	29	4	11	4	3	1	1	2	3	2	0
Uttar Pradesh (West)																											
Mukhim (R)	0830																										
(R)	1730																										
Tehri (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun	0530	682	998.0	923.8	..	24.8	23.1	22.2	26.7	87	..	6.3	..	1.7	0	0	17	7	6	1	0	1	0	2	0	14	0
	0830	,,	998.6	924.8	—0.2	26.5	24.1	23.3	28.1	83	—1	8.0	+1.8	1.0	0	0	13	2	0	0	3	3	2	1	2	18	0
	1130	,,	998.1	924.9	..	28.7	24.6	22.8	27.6	74	..	6.2	..	2.8	0	0	26	2	1	1	6	6	2	5	3	5	0
	1730	,,	995.1	921.9	..	29.1	25.0	23.0	28.3	75	..	5.6	..	1.9	0	0	22	2	2	1	3	5	1	6	2	9	0
	2330	,,	998.0	924.2	..	26.0	24.0	23.0	28.1	85	..	5.0	..	2.6	0	0	17	4	8	1	2	0	0	2	0	14	0
Mansiari (R)	0830																										
(R)	1730																										
Roorkee	0830	274	998·2	968·0	—0·5	28·3	25·2	23·7	28·1	78	0	5·0	—0·1	1·1	0	0	18	0	1	0	12	0	1	0	4	13	0
	1730	,,	995·4	965·7	..	32·7	26·9	24·2	30·7	65	..	4·5	..	0·9	0	0	17	0	2	0	9	0	1	0	5	14	0
Najibabad	0830	270	998·5	968·8	..	28·1	25·7	24·4	31·1	80	..	5·0	..	3·1	0	0	26	1	2	0	18	0	0	1	4	5	0
	1730	,,	995·2	965·6	..	32·5	26·2	23·8	30·2	65	..	4·9	..	2·8	0	0	24	0	1	0	11	0	4	0	8	7	0
Meerut	0830	222	999·0	974·5	+0·5	29·4	27·0	25·9	33·6	83	+8	0·9	—4·2	6·3	0	1	26	3	3	11	7	0	0	2	1	4	0
Bareilly	0830	173	998·0	978·9	—0·7	30·3	26·4	24·7	31·1	74	—8	5·0	—0·8	6·7	0	0	30	0	2	12	9	3	2	1	1	1	0
	1730	,,	994·4	975·5	..	32·7	26·8	24·2	30·4	64	..	5·8	..	2·9	0	0	26	3	2	14	1	1	1	4	0	5	0
Bareilly (P.B.O.)	0230	172	996·6	977·6	..	29·0	25·9	24·7	30·7	79	..	3·9	..	4·7	0	1	22	0	1	16	4	1	0	0	1	8	0
	0530	,,	997·1	978·0	..	28·2	25·7	24·7	31·1	81	..	5·5	..	5·0	0	0	25	0	5	15	3	1	0	0	1	6	0
	1130	,,	997·5	978·8	..	32·8	27·1	25·1	31·1	66	..	5·5	..	8·3	0	0	29	0	3	8	12	3	0	2	1	2	0
	2330	,,	997·1	978·2	..	30·0	26·6	25·3	32·1	78	..	4·4	..	6·4	0	0	26	0	2	16	7	1	0	0	0	5	0

(R)—Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —(*Contd.*)																											
Aligarh	0830	187	997·9	977·2	..	30·0	25·9	23·9	30·0	72	—6	5·3	+0·5	3·8	0	0	29	1	0	14	0	3	0	5	6	2	0
	1730	,,	994·6	974·2	..	33·3	26·9	23·7	30·2	62	..	6·5	..	2·6	0	0	26	3	0	7	0	5	1	7	3	5	0
Mainpuri	0830	157	997·6	980·3	—0·8	30·8	26·4	24·5	30·7	68	—8	1·6	—3·7	2·0	0	0	20	0	0	4	9	2	2	1	2	11	0
	1730	,,	994·1	976·9	..	33·7	26·9	24·0	29·8	60	..	2·0	..	2·2	0	0	23	0	1	0	11	1	4	1	5	8	0
Agra	0830	169	998·0	979·4	—0·3	30·6	26·1	24·1	30·0	70	—4	4·1	—1·2	1·2	0	0	5	0	0	0	0	1	4	0	0	26	0
	1730	,,	994·3	976·0	..	33·5	26·7	23·8	29·5	61	..	6·1	..	4·1	0	0	15	1	2	0	3	1	5	0	3	16	0
Agra (Aerodrome)	0530	169	996·7	977·8	..	28·3	25·3	23·7	29·8	79	..	5·7	..	6·7	0		28	0	2	8	4	1	3	9	1	3	0
	0830	,,	997·9	979·4	..	30·4	26·1	23·9	30·2	71	..	5·4	..	9·6	0	2	27	0	0	7	6	0	6	6	4	2	0
	1130	,,	997·6	979·0	..	33·5	26·6	23·8	29·3	58	..	5·7	..	7·5	0	2	29	2	1	4	3	1	2	8	10	0	0
	1730	,,	994·3	975·8	..	33·7	26·8	23·7	29·5	60	..	5·9	..	13·0	0	6	25	4	4	6	2	1	1	6	7	0	0
	2330	,,	997·0	978·2	..	29·6	25·7	23·7	29·7	75	..	5·2	..	6·8	0	0	25	0	2	7	3	0	4	6	3	6	0
Orai (R)	0830	141																									
(R)	1730	,,																									
Jhansi	0830	251	998·5	970·9	—0·5	29·7	24·4	21·4	26·1	66	—10	5·5	+0·8	1·5	0	0	15	6	0	2	0	0	0	7	0	16	0
	1730	,,	994·6	967·5	..	32·9	26·0	22·4	27·9	59	..	6·7	..	2·3	0	0	24	9	1	5	0	1	0	7	1	7	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	996·9	962·5	..	27·2	23·9	22·1	26·9	76	..	5·2	..	3·0	0	0	16	2	3	6	2	2	0	1	0	15	0
	0830	,,	998·0	963·8	—0·4	29·1	24·6	22·3	27·3	70	—5	5·6	+0·2	4·6	0	1	29	1	5	7	11	2	3	1	0	1	0
	1130	,,	997·8	963·9	..	31·3	25·3	22·4	27·3	63	..	4·5	..	5·4	0	0	29	0	6	3	5	7	4	2	1	2	1
	1730	,,	994·2	960·6	..	33·7	25·8	21·7	26·6	53	..	3·9	..	6·5	0	1	29	1	2	5	1	4	7	7	3	1	0
Amritsar (Rajasansi)	0530	234	996·3	970 4	..	27·1	24·9	23·8	29·7	83	..	3·1	..	8·5	0	3	19	2	2	7	8	1	1	1	0	9	0
	0830	,,	997·5	971·8	—0·5	29·7	25·2	23·1	28·4	70	—6	3·5	—0·7	12·2	0	4	22	3	5	5	7	2	3	0	1	5	0
	1130	,,	997·3	971·8	..	33·1	26·2	23·0	28·4	59	..	3·5	..	13·8	0	10	20	1	2	2	15	3	4	2	1	1	0
	1730	,,	993·7	968·4	..	34·7	26·2	22·1	26·9	53	..	2·5	..	13·3	0	9	19	1	3	3	9	1	1	4	6	3	0
Adampur (Aerodrome)	†0530	238																									
	0830	,,	996·3	970·3	..	28·9	25·9	24·8	30·7	80	..	5·0	..	12·6	0	9	17	4	1	1	14	4	1	0	1	5	0
	†1130	,,																									
	1730	,,	993·0	967·5	..	33·6	26·9	24·5	29·8	62	..	3·9	..	11·6	0	3	27	4	0	3	7	5	3	3	5	1	0
	†2330	,,																									
Ludhiana	0830	247	997·7	970·3	—0·5	28·8	25·8	24·4	30·7	78	+6	4·5	+0·6	0·9	0	0	10	1	2	0	4	1	1	0	1	21	0
	1730	,,	994·0	967·2	..	34·7	27·3	24·0	30·2	56	..	4·3	..	2·9	0	0	28	5	4	3	4	2	2	4	4	3	0
Ferozepur	0830	200	996·7	974·7	..	29·8	26·1	24·5	30·7	74	..	2·5	..	1·9	0	0	19	1	4	1	7	1	3	0	1	12	1
	1730	,,	993·2	971·6	..	35·2	27·0	23·4	28·9	53	..	2·0	..	1·8	0	0	19	5	2	0	8	0	1	2	1	12	0
Halwara (Aerodrome)	0830	242	998.4	971.8	..	30.1	25.9	24.4	30.5	67	..	4.1	..	14.8	0	9	20	1	2	4	14	1	3	4	0	2	0
	1730	,,	995.5	969.4	..	34.8	26.7	22.8	27.7	54	..	4.0	..	11.8	0	4	26	4	1	3	7	4	2	3	6	1	0
Chandigarh	0830	347	997.6	959.7	—0.5	30.0	25.7	23.4	28.8	70	—7	3.4	—1.0	9.5	0	5	25	0	2	0	16	0	2	0	10	1	0
	1730	,,	994.1	956.8	..	33.1	27.2	23.8	29.5	62	..	3.3	..	5.0	0	0	28	0	4	0	10	0	6	0	8	3	0
Ambala	0830	272	998.1	968.1	—0.2	29.4	25.9	24.5	30.4	77	+1	1.8	—3.0	2.3	0	0	20	0	5	0	9	0	0	2	4	11	0
	1730	,,	994.2	964.9	..	33.6	26.9	23.8	29.8	61	..	1.2	..	1.2	0	0	13	1	1	0	7	0	0	0	4	18	0
Ambala (P.B.O.)	0230	278	996.1	965.5	..	28.9	25.5	24.2	29.8	77	..	3.6	..	8.8	0	2	26	3	0	2	17	2	1	0	3	3	0
	0530	,,	996.5	965.8	..	28.0	25.1	24.0	29.5	81	..	4.9	..	8.0	0	1	26	0	3	3	17	1	0	1	2	4	0
	1130	,,	997.6	967.3	..	31.9	26.5	24.2	30.2	67	..	4.9	..	7.6	0	0	29	0	2	4	16	2	1	1	3	2	0
	2330	,,	996.4	965.9	..	29.9	26.2	24.8	31.1	76	..	3.3	..	7.0	0	1	24	0	1	3	17	0	1	1	2	6	0
Ambala (Aerodrome)	0530	274	996.6	966.2	..	27.7	25.2	23.8	29.8	84	..	4.9	..	10.4	0	2	20	0	0	15	4	0	0	1	2	9	0
	0830	,,	997.7	967.5	..	29.0	25.7	24.1	30.4	77	..	4.7	..	14.3	0	8	19	0	0	13	10	1	0	1	2	4	0
	1130	,,	997.8	967.5	..	31.5	26.3	23.9	29.8	68	..	4.7	..	14.5	0	8	17	0	1	7	11	2	0	2	2	6	0
	1730	,,	994.1	964.4	..	32.7	26.5	23.2	29.5	60	..	4.4	..	11.6	0	4	24	1	2	11	3	1	1	5	3	3	1
	2330	,,	996.4	966.2	..	29.1	25.9	24.3	30.9	79	..	3.1	..	8.7	0	2	17	0	1	12	4	0	0	0	2	12	0
Patiala	0830	251	998.3	970.7	..	29.9	25.6	23.5	29.3	71	..	4.6	..	6.3	0	0	20	0	0	1	18	0	0	0	1	11	0
	1730	,,	993.9	967.0	..	34.1	26.5	22.9	28.4	55	..	5.0	..	5.9	0	0	21	0	0	4	9	0	0	0	8	10	0
Bhatinda	0830	211	997.5	974.4	..	31.8	27.7	25.7	33.0	73	..	2.3	..	6.4	0	0	26	1	4	0	10	1	7	0	3	5	0
	1730	,,	993.4	970.1	..	35.5	28.2	25.1	31.9	59	..	1.9	..	3.4	0	1	18	0	2	6	2	1	2	0	6	12	0
Karnal	0830	249	997.9	970.9	..	30.7	25.8	23.8	29.3	66	..	1.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	994.2	967.2	..	33.5	26.7	22.9	27.9	60	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	996.5	972.0	..	27.7	25.2	23.7	29.8	82	..	3.8	..	6.4	0	0	26	0	2	3	4	3	10	3	1	5	0
	0830	,,	997.6	973.1	—0.4	30.1	26.2	24.1	30.0	73	+6	3.4	+0.6	8.1	0	2	28	0	0	6	5	1	11	6	1	1	0

(R) Register not received.

†Data not available.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed Km. p.h.): 62 or more	Wind speed Km. p.h.): 20 to 61	Wind speed Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(Contd.)																											
Hissar—(Contd.)	1130	221	997.0	973.0	..	34.2	27.3	24.3	30.7	59	..	3.6	..	8.9	0	2	28	0	3	5	5	4	5	3	5	1	0
	1730	,,	993.8	970.0	..	35.1	27.0	23.3	28.9	54	..	4.7	..	5.9	0	1	25	0	1	6	5	4	4	3	3	5	0
	2330	,,	996.2	971.9	..	30.4	26.0	23.7	30.0	71	..	2.7	..	8.5	0	2	26	0	4	4	4	3	10	2	1	3	0
New Delhi (Safdarjung)	0230	216	996.1	972.2	..	29.2	25.5	23.7	29.5	75	..	4.3	..	6.0	0	1	20	0	2	5	3	1	7	2	1	10	0
	0530	,,	996.5	972.6	..	28.2	25.2	23.7	29.7	79	..	5.0	..	6.3	0	1	21	0	2	6	3	1	2	6	2	9	0
	0830	,,	997.7	973.7	—0.9	30.0	25.9	24.0	30.0	72	—2	5.3	—0.2	10.3	0	5	21	0	0	6	6	1	2	8	3	5	0
	1130	,,	997.6	974.0	..	33.0	26.7	24.0	29.8	61	..	5.3	..	10.0	0	6	20	1	0	5	4	2	3	3	8	5	0
	1730	,,	994.2	970.7	..	33.3	26.7	23.7	29.7	62	..	5.7	..	8.3	0	1	22	3	5	4	3	4	1	1	2	8	0
	2330	,,	996.5	972.7	..	29.7	25.9	24.3	30.4	75	..	4.7	..	5.6	0	2	18	0	2	5	2	7	1	2	1	11	0
Palam (Aerodrome) .	0230	233	996.0	970.3	..	28.7	25.6	24.1	30.2	78	..	3.8	..	11.6	0	4	23	1	1	11	3	3	7	1	0	4	0
	0530	,,	996.4	970.7	..	27.8	25.4	24.2	30.4	83	..	4.9	..	10.9	0	3	22	0	3	8	1	4	7	2	0	6	0
	0830	,,	997.5	971.9	..	29.9	26.1	24.5	30.7	73	..	5.5	..	16.9	0	12	18	0	1	11	2	3	6	4	3	1	0
	1130	,	997.3	972.0	..	33.0	26.8	23.9	30.2	63	..	5.5	..	16.4	0	9	22	3	0	8	3	2	4	8	3	0	0
	1430	,,	995.8	970.4	..	33.8	27.2	23.9	30.5	55	..	6.0	..	18.6	0	12	19	5	3	9	2	3	1	5	3	0	0
	1730	,,	994.1	968.8	..	33.1	26.8	23.9	30.0	64	..	5.6	..	13.6	0	3	28	5	6	9	1	7	0	0	3	0	0
	2030	,,	995.5	969.9	..	30.5	26.2	24.6	30.4	74	..	4.8	..	10.6	0	2	26	2	3	11	7	1	1	1	2	3	0
	2330	,,	996.3	970.8	..	29.4	26.1	24.4	31.1	77	..	4.4	..	11.3	0	1	26	0	1	8	6	7	4	1	0	4	0
Himachal Pradesh																											
Mandi . . .	0830	761	998.3	916.3	—0.3	25.9	23.0	21.7	25.9	79	—9	5.7	—0.5	0.4	0	0	3	0	0	2	1	0	0	0	0	28	0
	1730	,,	994.5	913.6	..	29.5	26.1	22.2	26.7	67	..	6.4	..	0.8	0	0	6	0	0	1	2	0	1	0	2	25	0
Bilaspur . . .	0830	493	999.6	934.5	..	26.5	24.2	23.1	28.3	82	..	3.0	..	1.5	0	0	12	0	8	0	2	0	1	0	1	19	0
	1730	,,	995.9	933.1	..	31.8	25.7	22.9	27.9	64	..	0.8	..	2.1	0	0	18	0	15	0	2	0	0	0	1	13	0
Jammu and Kashmir																											
Misgar . . (R)	0830	..																									
(R)	1730	..																									
Gilgit . . (R)	0830	..																									
(R)	1730	..																									
Skardu . . (R)	0830	..																									
(R)	1730	..																									
Leh . . .	0530	3514	3023.4	660.6	..	11.5	4.8	—2.6	4.8	38	..	3.4	..	7.9	0	0	29	6	15	1	4	2	1	0	0	2	0
	0830	,,	3020.6	661.1	—3.2	16.6	8.1	0.7	6.1	36	—17	3.6	—0.1	2.1	0	0	11	0	0	1	0	2	8	0	0	20	0
	1730	,,	2953.4	656.9	..	23.2	12.1	3.7	7.9	31	..	3.0	..	9.0	0	0	31	2	0	0	1	3	17	7	1	0	0
Srinagar . . .	0830	1587	1427.7	834.8	+0.9	22.5	18.6	16.6	19.0	70	—9	3.3	—0.1	1.2	0	0	11	1	0	2	5	0	2	0	1	20	0
	1130	,,	1419.5	834.2	..	26.7	19.8	16.5	18.3	56	..	3.1	..	1.4	0	0	11	1	0	0	3	2	1	3	1	20	0
	1730	,,	1386.9	831.3	..	28.7	20.2	15.8	18.3	48	..	3.5	..	2.7	0	1	12	2	0	1	2	0	3	3	3	18	0
Srinagar (Aerodrome)	0530	1666	1413.2	826.0	..	18.7	16.0	14.4	16.0	76	..	4.6	..	4.9	0	0	26	1	1	0	3	8	3	7	3	5	0
	0830	,,	1419.6	826.9	..	22.6	17.8	15.2	17.4	64	..	4.1	..	4.0	0	0	21	1	0	7	2	2	0	3	6	10	0
	1130	,,	1413.6	826.6	..	26.1	18.8	14.9	15.8	52	..	3.8	..	5.8	0	0	27	4	1	3	0	5	2	2	10	4	0
	1730	,,	1382.9	824.0	..	28.5	18.8	13.2	15.5	42	..	4.4	..	8.8	0	3	27	5	1	3	1	6	3	5	6	1	0
	2330	,,	1406.3	825.6	..	21.8	17.6	15.1	16.7	67	..	3.6	..	4.7	0	2	15	3	0	2	2	1	1	6	2	14	0
Gulmerg . .	0830	2655	3086.6	736.6	+0.5	17.0	13.5	11.0	13.6	69	—5	3.7	—0.1	2.2	0	0	19	1	7	3	2	0	3	3	0	12	0
	1730	,,	3073.0	735.1	..	19.4	15.2	12.5	14.5	66	..	5.1	..	6.9	0	0	29	2	9	1	3	2	3	5	4	2	0
Banihal . . .	0830	..	..	..	..	21.9	18.4	16.4	18.6	72	..	4.7	..	0.5	0	0	2	0	0	0	0	0	0	1	1	29	0
	1730	..	..	..	..	26.2	19.7	16.1	19.0	56	..	5.0	..	3.0	0	0	17	0	0	2	0	1	7	2	5	14	0
Jammu . . .	0830	..	..	..	..	29.4	25.9	24.2	30.2	75	+5	..	..	5.4	0	0	30	9	9	0	4	5	1	0	2	1	0
Jammu (Aerodrome)	0530	292	996.8	964.4	..	27.5	23.5	21.4	25.6	71	..	5.4	..	6.6	0	2	15	0	9	2	3	0	0	1	2	14	0
	0830	,,	997.5	965.3	..	29.6	24.4	21.6	26.3	65	..	4.5	..	6.9	0	2	18	1	7	1	7	3	0	0	1	11	0
	1130	,,	997.1	965.3	..	32.6	25.1	21.1	25.6	54	..	3.8	..	9.9	0	2	25	1	2	0	12	8	1	3	0	4	0
	1730	,,	993.6	962.1	..	34.5	25.4	20.5	25.0	49	..	3.9	..	9.8	0	3	24	1	0	0	5	7	3	8	3	4	0
	2330	,,	995.8	963.7	..	30.3	24.9	22.1	27.1	65	..	3.0	..	3.4	0	0	11	1	3	1	3	1	0	2	0	20	0
Rajasthan (West)																											
Ganganagar . .	0530	177	995.6	976.1	..	29.1	24.9	22.9	28.1	70	..	2.7	..	5.0	0	2	20	1	1	7	1	1	9	2	0	9	0
	0830	,,	996.5	977.1	—0.7	31.2	25.4	22.3	27.7	63	—1	1.8	—0.4	5.5	0	0	24	0	1	4	2	1	12	4	0	7	0
	1130	,,	996.6	977.3	..	35.2	26.4	22.4	27.3	50	..	3.6	..	7.6	0	1	29	2	2	5	1	1	11	6	2	1	0
	1730	,,	993.0	974.0	..	37.3	26.6	21.8	25.9	44	..	2.5	..	4.3	0	0	25	1	4	4	3	1	6	4	2	6	0
	2330	,,	995.5	976.0	..	32.1	25.7	22.6	27.7	60	..	2.8	..	4.1	0	0	20	0	3	4	4	1	5	2	1	11	0

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1962 (ASADHA 10—SRAVANA 9, 1884 SAKA)

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	S	S	SW	W	NW	Calm	Vari
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—(*Contd*)																											
Anupgarh . (R)	0830																										
(R)	1730																										
Mahajan . .	0830	187	995.4	974.8	..	31.6	25.9	24.3	28.6	67	..	2.6	..	5.6	0	0	27	1	3	3	0	5	13	1	1	4	0
	1730	,,	991.7	971.5	..	36.7	26.4	21.9	25.9	47	..	4.5	..	5.7	0	0	29	3	3	4	1	3	12	1	2	2	0
Churu . . .	0830	291	998.1	966.0	..	29.5	25.3	23.4	28.8	71	..	4.1	..	15.9	0	10	21	2	0	5	1	3	4	15	1	0	0
	1730	,,	994.6	963.0	..	34.8	26.2	22.2	26.8	51	..	5.2	..	15.0	0	8	23	8	0	6	1	2	6	7	1	0	0
Bikaner . . .	0830	224	997.3	972.9	—0.2	30.0	24.9	22.5	27.3	65	—1	2.1	—0.8	9.9	0	1	30	0	4	0	1	0	13	11	2	0	0
	1730	,,	993.1	969.3	..	36.1	26.0	20.5	25.3	44	..	2.4	..	7.9	0	0	31	0	3	0	4	4	12	6	2	0	0
Bikaner PBO . .	0530	224	996.1	971.3	..	28.6	24.5	22.4	27.3	71	..	4.2	..	3.4	0	0	16	0	1	0	1	3	10	1	0	15	0
	1130	,,	996.9	972.5	..	34.4	26.1	22.3	26.9	49	..	4.2	..	5.9	0	1	21	0	3	0	1	3	12	3	0	9	0
	2330	,,	996.1	971.5	..	31.3	25.1	22.1	26.7	62	..	3.8	..	5.1	0	0	19	0	1	0	1	10	6	1	0	12	0
Nagaur . . .	0830	298	997.7	965.0	..	29.7	25.1	23.6	29.1	71	..	5.5	..	15.0	0	6	25	1	2	1	1	7	14	4	1	0	0
	1730	,,	994.1	961.9	..	33.7	26.5	23.3	28.6	55	..	5.6	..	11.1	0	5	26	2	1	4	1	9	9	3	2	0	0
Phalodi . .	0830	234	997.9	972.4	..	29.1	26.2	24.8	31.3	77	..	3.8	..	20.2	0	10	21	0	1	1	0	5	18	5	1	0	0
	1730	,,	994.9	970.3	..	35.4	28.5	25.1	31.9	60	..	4.9	..	22.3	0	18	13	1	1	2	2	6	14	4	1	0	0
Jaisalmer .	0830	242	997.5	970.7	..	28.5	25.9	24.9	32.2	81	..	4.3	..	23.9	0	19	12	2	2	1	0	14	12	0	0	0	0
	1730	,,	993.1	967.0	..	37.7	29.1	25.9	35.0	54	..	3.9	..	22.2	0	16	14	2	2	0	2	13	11	0	0	1	0
Jodhpur . . .	0230	224	997.4	972.4	..	28.5	24.8	23.0	28.3	74	..	4.4	..	12.2	0	7	22	1	0	0	1	1	19	6	1	2	0
	0530	,,	997.4	972.4	..	27.5	24.7	23.4	28.8	79	..	4.7	..	12.2	0	6	23	0	2	2	0	1	16	8	0	2	0
	0830	,,	998.5	973.5	+0.7	28.7	25.2	24.0	29.3	75	+5	5.6	—0.1	14.5	0	7	22	1	1	0	0	3	15	9	0	2	0
	1130	,,	998.4	973.8	..	31.7	25.8	23.2	28.3	63	..	5.6	..	14.8	0	8	21	0	0	2	2	0	18	7	0	2	0
	1730	,,	994.9	970.6	..	33.8	25.8	22.1	26.6	54	..	6.0	..	14.7	0	6	24	1	2	2	0	2	19	3	1	1	0
	2330	,,	997.6	972.8	..	29.8	25.2	23.1	28.1	69	..	4.8	..	10.7	0	1	29	1	3	0	0	4	20	2	0	1	0
Barmer . . .	0530	194	997.0	975.1	..	27.5	25.3	24.3	30.2	83	..	5.2	..	5.0	0	0	31	1	1	0	1	6	14	6	2	0	0
	0830	,,	998.3	976.8	—0.1	28.7	25.6	24.2	30.4	77	+1	5.9	+0.5	4.5	0	0	31	0	1	0	1	16	5	8	0	0	0
	1130	,,	997.7	976.5	..	33.1	26.5	23.6	29.1	59	..	5.4	.	5.0	0	0	30	0	0	2	1	4	13	10	0	1	0
	1730	,,	993.9	972.8	..	35.9	27.2	23.2	28.8	49	..	5.0	..	4.5	0	0	30	0	2	1	2	6	14	5	0	1	0
	2330	,,	997.0	975.8	..	31.6	25.9	23.4	28.6	63	..	4.6	..	5.0	0	0	31	0	2	2	0	5	15	7	0	0	0
Munabao* . .	0830	80	997.6	988.7	..	29.1	26.3	25.1	31.7	79	..	5.1	..	21.7	0	12	8	0	1	3	1	1	13	0	0	0	1
	1730	,,	994.1	985.3	..	34.4	28.7	24.2	30.2	55	..	4.0	..	21.2	0	9	11	0	1	1	3	1	14	0	0	0	0
Rajasthan (East)																											
Pilani . . .	0830	301	997.8	964.9	..	29.9	25.0	22.8	27.6	68	..	3.1	..	18.3	0	8	23	1	3	2	3	2	7	12	1	0	0
	1730	,,	994.4	962.2	..	33.9	25.9	22.1	26.6	52	..	3.8	..	17.7	0	13	18	1	1	9	3	3	7	6	1	0	0
Sikar . . .	0830	433	998.4	951.4	..	28.8	24.9	22.6	23.6	71	..	3.0	..	3.0	0	0	28	0	0	6	5	0	6	9	2	3	0
	1730	,,	994.6	948.2	..	32.9	26.8	24.1	30.0	62	..	6.1	..	3.0	0	0	26	0	3	0	4	1	5	11	2	5	0
Alwar . . .	0830	271	996.6	966.8	..	29.9	26.9	25.6	33.8	78	..	5.5	..	1.4	0	0	17	2	1	2	1	3	0	6	2	14	0
	1730	,,	994.1	964.8	..	33.1	27.8	25.5	32.8	67	..	5.8	..	2.8	0	0	20	5	4	0	1	4	6	0	0	11	0
Jaipur . . .	0230	390	996.4	953.7	..	27.8	24.1	22.2	26.9	74	..	5.4	..	7.9	0	0	28	2	0	6	0	0	6	6	8	3	0
	0530	,,	996.4	953.9	..	26.8	23.9	22.4	27.1	78	..	6.2	..	8.9	0	1	26	2	0	5	0	1	3	7	9	4	0
	0830	,,	997.9	955.2	—1.3	28.8	24.8	22.8	28.1	72	—2	6.2	+1.0	13.8	0	6	25	2	3	3	0	1	1	9	12	0	0
	1130	,,	997.4	955.2	..	31.7	25.3	22.2	26.9	60	..	6.2	..	15.3	0	6	25	1	1	5	2	0	0	7	15	0	0
	1730	,,	994.3	952.2	..	31.9	25.3	22.0	26.7	60	..	6.7	..	12.2	0	3	28	3	2	5	1	1	6	9	4	0	0
	2330	,,	996.9	954.0	..	28.6	24.5	22.5	27.3	72	..	5.6	..	8.4	0	1	27	1	0	4	2	0	5	10	6	3	0
Dholpur . . .	0830	176	997.4	978.0	..	30.4	26.2	24.3	30.5	72	..	6.6	..	8.5	0	2	23	1	3	2	2	1	3	8	5	6	0
	1730	,,	994.1	974.9	..	32.9	26.7	23.9	30.2	63	..	6.2	..	10.6	0	5	23	2	4	1	2	0	6	8	5	3	0
Ajmer . . .	0830	486	998.3	945.3	—1.0	27.5	23.7	22.0	26.3	73	—1	5.7	+0.9	16.0	0	15	16	0	2	3	2	0	14	9	1	0	0
	1730	,,	994.8	942.6	..	31.2	24.3	21.1	24.7	59	..	6.1	..	9.6	0	1	30	1	4	2	3	1	9	11	0	0	0
Tonk . . .	0830	272	997.0	967.1	..	28.9	26.4	25.0	32.4	79	..	5.5	..	7.3	0	0	31	2	4	2	0	0	7	13	3	0	0
	1730	,,	993.6	964.2	..	32.8	27.2	24.8	31.5	68	..	5.8	..	10.8	0	0	31	3	3	1	2	2	6	7	7	0	0
Bhilwara . .	0830	..	..	..	..	27.2	24.0	22.4	27.4	76	..	6.6	..	7.2	0	0	31	0	2	0	1	2	13	8	5	0	0
	1730	..	..	..	..	31.9	24.8	21.3	25.9	57	..	7.1	..	7.9	0	0	30	0	1	4	1	4	10	6	4	1	0
Kota (Aerodrome) .	0530	274	998.1	967.8	..	27.7	24.3	22.6	27.4	75	..	5.6	..	11.0	0	4	24	2	0	2	0	0	7	14	3	3	0
	0830	,,	999.0	968.8	..	28.6	24.8	23.3	28.3	75	..	6.0	..	13.5	0	7	23	4	0	1	1	0	7	14	3	1	0
	1130	,,	998.7	968.8	..	31.0	25.2	22.4	27.3	63	..	6.7	..	14.3	0	5	26	2	4	2	0	0	5	10	8	0	0
	1730	,,	995.8	966.0	..	32.3	25.4	22.2	26.7	59	..	5.8	..	16.2	0	10	20	0	1	4	2	2	8	11	2	1	0
	2330	,,	998.6	968.4	..	29.1	24.9	22.9	28.1	71	..	4.7	..	13.0	0	3	27	0	0	3	1	10	13	13	1	1	0

*Observations for 20 days.

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—(*Contd.*)																											
Kota . . .	0830	257	998.4	970.1	—0.7	29.6	25.3	23.4	28.6	71	+1	6.3	+1.0	4.8	0	0	24	0	0	0	1	0	2	15	6	7	0
	1730	,,	995.3	967.4	..	31.9	25.6	22.8	27.6	62	..	7·0	..	4.3	0	0	21	0	0	0	1	0	9	9	2	10	0
Erinpura (Jawaidam)	0830	295	999.7	967.1	..	27.4	24.5	23.2	28.8	79	..	5.7	..	4.6	0	0	26	0	1	0	0	6	13	6	0	5	0
	1730	,,	996.2	964.0	..	31.0	25.7	23.3	28.6	66	..	6.2	..	6.8	0	0	27	1	0	1	1	7	13	4	0	4	0
Chambal (Rawat Bhatta Dam)	0830	351	998.9	960.4	..	27.9	24.8	23.3	28.6	77	..	5.4	..	8.2	0	2	29	0	2	1	0	1	7	13	7	0	0
	1730	,,	995.5	957.5	..	31.1	26.0	23.7	29.3	68	..	6.5	..	9.6	0	3	26	1	0	2	0	2	11	7	6	2	0
Udaipur . . .	0230	582	998.3	934.8	..	25.2	22.8	21.9	25.8	83	..	4.9	..	2.8	0	0	13	0	0	0	0	6	6	1	0	18	0
	0530	,,	998.3	934.7	..	25.0	22.6	21.5	25.5	81	..	5.9	..	3.5	0	0	16	0	0	1	1	2	4	7	1	15	0
	0830	,,	999.7	936.4	—0.3	26.4	23.9	21.5	24.4	76	0	6.3	+0.9	3.9	0	0	14	0	2	1	0	3	3	4	1	17	0
	1130	,,	999.1	936.2	..	29.1	24.0	21.8	25.8	65	..	5.9	..	4.8	0	0	25	0	1	3	2	2	11	6	0	6	0
	1730	,,	996.4	933.5	..	29.0	24.1	22.1	26.9	67	..	6.8	..	5.4	0	0	28	0	0	1	1	5	10	9	2	3	0
	2330	,,	999.1	935.8	..	26.2	23.6	22.5	26.9	78	..	5.5	..	3.9	0	0	17	0	0	1	0	1	9	6	0	14	0
Jhalawar . .	0830	321	998.4	963.2	—1.1	27.2	24.6	23.2	28.8	79	—2	5.4	—0.9	3.4	0	0	30	1	2	0	0	1	11	13	2	1	0
	1730	,,	995.5	960.7	..	31.6	25.0	21.8	26.3	60	..	5.6	..	5.5	0	0	31	0	1	4	2	0	10	11	3	0	0
Madhya Pradesh (West)																											
Gwalior . . .	0230	207	996.4	973.6	..	28.9	25.4	23.7	29.7	76	..	5.4	..	4.7	0	0	21	2	2	1	1	0	7	5	3	10	0
	0530	,,	996.6	973.7	..	28.2	25.1	23.5	29.3	79	..	6.1	..	6.4	0	0	23	2	1	2	1	1	6	7	3	8	0
	0830	,,	997.8	975.0	—0.3	29.9	25.7	23.9	29.6	73	—4	5.8	0	7.9	0	2	26	2	3	2	2	2	1	12	4	3	0
	1130	,,	997.4	975.0	..	32.6	26.3	23.5	28.9	64	..	6.1	..	8.4	0	0	31	2	2	4	1	1	4	10	7	0	0
	1730	,,	994.4	971.9	..	33.0	26.5	23.6	29.1	63	..	6.4	..	7.1	0	0	30	2	1	4	4	1	7	5	6	1	0
	2330	,,	997.1	974.3	..	29.5	25.7	23.8	29.3	75	..	5.5	..	4.3	0	0	23	0	0	4	0	2	9	7	1	8	0
Sheopur . . .	0830	235	998.4	972.5	—0.7	29.0	25.3	23.5	29.3	75	—5	7.0	+0.2	14.9	0	3	28	1	3	2	1	4	7	9	4	0	0
	1730	,,	994.7	969.2	..	32.1	25.7	22.7	27.7	59	..	6.8	..	11.4	0	4	27	2	4	3	2	4	6	7	3	0	0
Shivpuri . . .	0830	464	998.1	947.4	..	27.5	24.2	22.6	27.4	74	..	6.3	..	13.5	0	6	24	2	2	3	0	1	7	11	4	1	0
	1730	,,	995.0	944.7	..	30.0	24.7	22.3	26.9	68	..	7.2	..	11.0	0	2	28	1	3	1	0	3	10	8	3	1	1
Nowgong . .	0830	229	998.0	972.7	—1·2	29.7	25.9	24.3	30.4	74	—5	6.0	—0.2	7.4	0	0	27	1	0	2	1	1	12	4	5	4	1
	1730	,,	994·5	969.6	..	31.9	26.7	24.4	30.7	66	..	6.5	..	10.5	0	3	25	2	4	2	0	0	11	2	7	3	0
Guna . . .	0530	478	997.9	945.3	..	25.1	23.3	22.5	27.1	87	..	6.6	..	11.5	0	4	25	1	0	0	3	3	5	13	4	2	0
	0830	,,	999.0	946.6	—0.7	26.8	24.0	22.8	27.7	80	3	6.7	+0.9	10.6	0	5	26	0	1	1	1	1	4	19	4	0	0
	1130	,,	998.3	946.5	..	29.7	24.6	22.3	27.3	68	..	6.9	..	14.5	0	10	20	2	1	1	0	1	1	18	6	1	0
	1730	,,	995.4	943.7	..	29.7	24.5	22.1	26.9	67	..	7.3	—	14.9	0	10	21	3	0	2	3	3	2	14	4	0	0
	2330	,,	998.4	946.0	..	26.2	23.8	22.7	27.6	82	..	6.2	..	9.8	0	4	26	0	1	1	2	5	12	6	3	1	0
Nimach . . .	0830	496	999.8	945.4	—0.6	25.9	23.5	22.4	27.3	81	+1	6.4	+0.6	16.4	0	12	19	0	0	0	0	1	12	13	1	0	4
	1730	,,	996.8	943.1	..	29.0	24.1	21.8	26.3	69	..	7.0	..	17.7	0	15	16	1	1	1	1	1	15	15	1	0	0
Rajgarh . . .	0830	382	998.8	956.8	..	27.0	24.4	23.2	28.4	82	..	6.9	—	12.8	0	4	27	4	0	4	0	2	1	19	1	0	0
	1730	,,	995.8	954.4	..	30.2	24.8	22.3	26.9	65	..	7.0	..	13.1	0	3	28	2	0	5	0	4	0	18	2	0	0
Sagar . . .	0830	551	998.6	938.5	—0.8	25.7	23.3	22.2	26.7	83	—7	6.5	+0.3	10.3	0	5	25	0	1	2	0	0	5	14	8	1	0
	1730		995.6	935.9	..	27.5	23.7	22.0	26.4	75	..	6.9	..	6.3	0	0	30	0	1	2	2	0	4	13	8	1	0
Ratlam . . .	0830	486	1000.4	946.8	—0.9	25.0	23.2	22.4	27.1	85	—6	7.0	—0.5	13.4	0	4	27	0	0	1	0	1	8	17	4	0	0
	1730		997.3	944.5	..	28.7	24.4	23.1	27.9	76	..	7.4	..	13.2	0	2	29	1	0	1	1	2	13	12	1	0	0
Bhopal (Bairagarh) .	0230	523	998.4	941.0	..	24.8	23.0	22.2	26.7	86	..	7.5	..	17.3	0	8	23	1	0	1	0	2	9	15	3	0	0
	0530	,,	998.7	941.2	..	24.3	22.9	22.3	26.7	89	..	7.6	..	16.5	0	7	23	0	1	0	0	3	4	17	5	1	0
	0830	,,	999.8	942.5	—0.8	25.9	23.5	22.4	27.3	82	—4	6.8	+0.2	21.4	0	23	7	0	1	1	0	2	3	19	4	1	0
	1130	,,	999.4	942.6	..	28.2	23.8	22.1	26.3	72	..	7.5	..	21.7	0	19	10	1	2	1	1	0	4	15	5	2	0
	1730	,,	996.6	939.9	..	28.1	23.8	21.9	25.9	72	..	7.6	..	20.1	0	16	13	1	0	1	1	0	4	13	9	2	0
	2330	,,	999.5	942.1	..	25.1	23.2	22.4	26.9	86	..	7.6	..	14.9	0	10	20	0	0	0	2	3	12	11	2	1	0
Ujjain . . .	0830	..	..	..	..	25.7	23.4	22.4	27.2	82	..	4.8	..	21.7	0	19	12	0	0	0	0	1	3	15	12	0	0
Narsinghpur . .	0830	356	999.2	959.8	..	26.1	24.3	23.5	28.9	86	..	..	..	6.1	0	0	31	4	0	2	0	6	5	6	8	0	0
	1730	,,	996.3	957.5	..	29.1	25.1	23.1	28.3	72	..	..	..	6.3	0	0	30	4	0	3	0	6	5	7	5	1	0
Hoshangabad .	0830	302	1000.2	966.6	—1.1	26.1	24.3	23.5	28.9	87	+1	6.7	—0.2	6.7	0	0	30	1	2	0	0	4	14	7	2	1	0
	1730	,,	996.6	963.5	..	29.1	24.8	22.8	27.9	70	..	7.4	..	8.2	0	0	29	2	1	0	1	0	15	8	2	2	0
Indore . . .	0530	567	999.2	936.8	..	23.6	22.5	22.0	26.4	91	..	6.8	..	15.0	0	8	20	0	1	0	0	2	18	7	0	3	0
	0830	,,	1000.2	938.0	—1.1	24.9	22.9	22.0	26.4	85	—2	6.4	—0.8	18.8	0	14	16	0	0	0	1	2	11	15	1	1	0
	1130	,,	999.7	938.3	..	27.2	23.5	21.9	26.3	74	..	6.8	..	19.9	0	15	16	0	1	0	1	1	9	17	1	0	1
	1730	,,	997.0	935.5	..	27.7	23.7	22.0	26.4	73	..	7.1	..	17.0	0	12	17	2	0	0	0	3	10	13	1	2	0
	2330	,,	1000.1	938.0	..	24.6	23.0	22.3	26.9	88	..	5.9	..	16.3	0	8	21	1	0	0	0	1	22	3	2	2	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd.*)																											
Rajpur (Jhabua)	0830	293	1001·3	968·8	..	26·4	24·1	23·0	28.3	83	..	6.7	..	14·6	0	8	23	0	0	2	0	3	8	18	0	0	0
	1730	,,	998·1	966·0	..	29·4	24·8	22·6	27.6	69	..	7·2	..	16·9	0	10	21	0	0	0	1	4	13	12	1	0	0
Chhindwara	0830	685	999·6	925·1	—1·1	24·7	22·6	21·7	25.9	84	—3	7·0	+0.3	5·5	0	0	25	1	1	0	0	0	2	11	10	6	0
	1730	,,	997·1	923·2	..	25·6	23·1	22·0	26.3	81	..	7·1	..	6·1	0	1	22	1	0	1	0	1	0	9	11	8	0
Seoni	0830	619	999·4	931·8	—1·1	24·9	23·4	22·7	27·6	88	+5	7·4	+1·1	5·0	0	0	30	1	1	1	0	1	11	10	5	1	0
	1730	,,	996·7	929·9	..	27·2	23·5	21·8	26·3	75	..	7·4	..	3·2	0	0	30	1	2	0	1	3	11	2	10	1	0
Betul	0830	653	1001·0	929·5	—0·8	23·9	22·7	22·1	26·7	90	+1	6·9	-0·8	9.1	0	1	29	1	0	0	1	0	11	12	5	1	0
	1730	,,	997·4	926·7	..	26·2	23·1	21·7	25·9	79	..	7·9	..	6·6	0	0	31	1	2	0	3	0	6	16	3	0	0
Khandwa	0830	318	1001·1	965·8	—0·7	26·5	24·1	23·0	28·1	82	+2	7·2	+1·1	4·1	0	0	31	0	0	1	1	1	20	7	1	0	0
	1730	,,	997·8	962·9	..	29·4	25·0	22·9	28·1	70	..	7·8	..	5·0	0	0	31	0	0	0	5	2	15	9	0	0	0
Madhya Pradesh (East)—																											
Satna	0530	317	996·7	961·6	..	26·4	24·7	23·9	29·7	87	..	6·4	..	3·4	0	1	16	1	0	2	0	0	4	8	2	14	0
	0830	,,	998·0	963·1	—0·7	28·0	25·1	23·8	29·5	79	0	6·5	+0·3	2·8	0	0	24	0	0	4	0	0	4	16	0	7	0
	1130	,,	997·5	962·9	..	30·4	25·7	23·5	29·1	69	..	6·5	..	7·5	0	1	27	0	1	4	0	2	9	10	2	3	0
	1730	,,	994·5	960·0	..	30·7	25·7	23·5	28·9	68	..	6·6	..	4·1	0	0	30	0	0	0	0	2	0	28	0	1	0
	2330	,,	997·4	962·5	..	27·4	24·9	23·7	29·3	83	..	6·0	..	4·0	0	0	18	1	0	3	1	1	6	6	0	13	0
Sidhi	0830	272	997·3	967·3	..	28·4	25·2	23·8	29·5	76	..	3·9	..	0·4	0	0	3	0	0	1	0	1	1	0	0	28	0
	1730	,,	993·9	964·3	..	31·5	25·6	22·9	27·9	65	..	4·6	..	0·8	0	0	5	0	0	0	0	2	3	0	0	26	0
Umaria	0830	459	993·6	948·2	..	26·3	24·3	23·5	28·9	85	+2	6·9	—0·1	7·7	0	1	29	0	3	1	0	2	7	17	0	1	0
	1730	,,	995·1	954·4	..	29·0	25·3	24·0	29·7	73	..	7·2	..	5·2	0	0	30	2	0	0	1	3	11	9	4	1	0
Jabalpur	0530	393	997·9	954·5	..	25·1	23·7	23·0	28·4	88	..	6·9	..	3·2	0	0	22	0	1	0	3	3	8	7	0	9	0
	0830	,,	999·1	955·9	—0·6	26·5	24·3	23·2	28·6	83	0	7·2	+0·5	3·5	0	0	25	0	0	2	1	0	11	8	3	6	0
	1130	,,	998·4	955·6	..	28·9	24·9	23·2	28·6	73	..	7·3	..	5·4	0	0	30	0	2	2	1	2	11	7	5	1	0
	1730	,,	995·8	953·1	..	28·5	24·8	23·1	28·1	75	..	7·7	..	4·6	0	0	31	0	2	1	4	2	13	7	2	0	0
	2330	,,	998·4	955·4	..	25·8	24·0	23·2	28·4	86	..	6·8	..	3·5	0	0	22	0	0	0	4	2	6	10	0	9	0
Ambikapur	0830	611	999·1	932·6	—1·1	25·4	23·6	22·8	27·7	86	—1	6·4	+0.5	5·3	0	0	30	6	2	1	1	2	13	4	1	1	0
	1730	,,	995·5	929·7	..	27·3	24·2	22·9	27·9	78	..	5·5	..	5·9	0	0	31	3	2	3	1	5	7	7	3	0	0
Pendra	0530	625	997·9	929·6	..	23·6	22·4	21·9	26·3	91	..	7·4	..	6·0	0	0	29	2	1	1	1	6	7	6	5	2	0
	0830	,,	998·8	930·9	—0·9	25·2	23·3	22·5	27·3	86	+2	7·2	+1.4	4·9	0	0	25	3	1	1	1	5	6	2	6	6	0
	1130	,,	998·1	930·7	..	27·8	24·2	22·7	27·6	75	..	7·6	..	6·6	0	0	31	8	3	0	3	3	9	1	4	0	0
	1730	,,	995·5	928·3	..	27·2	24·0	22·6	27·4	77	..	7·8	..	8·4	0	1	29	2	1	3	0	6	9	5	4	1	0
	2330	,,	998·7	930·6	..	24·6	23·1	22·4	27·3	88	..	7·3	..	6·9	0	0	29	1	1	1	0	9	9	7	1	2	0
Mandla	0830	443	999·0	950·3	—1·6	26·0	24·4	23·7	29·3	87	—1	7·0	+0.1	1·8	0	0	12	5	0	1	0	1	2	3	0	19	0
	1730	,,	996·2	947·9	..	27·6	25·0	23·8	29·5	80	..	7·1	..	4·3	0	0	26	2	4	0	1	1	4	6	8	5	0
Champa	0830	245	999·4	972·2	—1·2	26·5	24·8	24·0	29·8	86	0	7·4	+0.3	5·4	0	0	27	1	0	1	1	0	6	17	1	4	0
	1730	,,	996·3	969·3	..	29·0	25·6	24·1	30·0	77	..	7·9	..	6·7	0	0	27	0	0	5	0	1	5	14	2	4	0
Raigarh	0830	220	999·1	974·9	—1·3	26·6	25·1	24·3	30·4	86	+1	6·9	—0.4	2·8	0	0	28	2	2	0	2	0	14	4	4	3	0
	1730	,,	996·0	971·7	..	28·2	25·5	24·3	30·4	78	..	7·6	..	2·2	0	0	21	1	4	0	1	0	11	3	1	10	0
Raipur	0530	298	998·9	965·7	..	24·6	23·7	23·3	28·6	93	..	7·2	..	6·0	0	0	27	1	0	0	1	0	17	6	2	4	0
	0830	,,	1000·1	967·0	—0·6	26·3	24·5	23·6	29·1	86	+2	7·3	+0·9	7·2	0	0	29	0	0	1	0	1	9	16	2	2	0
	1130	,,	999·6	966·8	..	28·7	25·4	23·9	29·7	76	..	7·5	..	8·5	0	1	30	2	0	0	0	1	11	15	2	0	0
	1730	,,	997·0	964·2	..	27·8	25·1	23·8	29·5	79	..	7·3	..	9·8	0	3	27	2	1	0	1	2	12	10	2	1	0
	2330	,,	999·5	966·5	..	25·7	24·4	23·7	29·7	89	..	6·7	..	7·3	0	0	28	0	0	1	0	1	19	6	1	3	0
Kanker	0830	402	1000·4	956·5	—0·1	25·9	23·6	22·6	27·3	82	0	7·2	—0.2	3·8	0	0	26	3	0	0	0	0	13	5	5	5	0
	1730	,,	997·1	953·6	..	27·7	24·2	23·1	27·9	78	..	7·3	..	3·4	0	0	27	1	0	0	0	0	15	3	8	4	0
Jagdalpur	0530	553	1000·0	939·2	..	22·7	21·9	21·4	25·6	93	..	7·8	..	4·5	0	1	17	0	0	0	1	2	7	7	1	13	0
	0830	,,	1001·0	940·4	—0·9	24·2	22·8	22·2	26·7	88	+4	7·6	+1.0	6·6	0	0	30	1	0	0	0	2	14	12	1	1	0
	1130	,,	1000·6	940·2	..	25·8	23·4	22·4	27·1	82	..	7·3	..	10·3	0	2	29	1	0	0	0	1	16	10	3	0	0
	1730	,,	998·3	938·0	..	25·8	23·2	22·2	26·7	83	..	7·8	..	8·3	0	2	24	0	0	0	0	2	12	11	1	5	0
	2330	,,	1000·9	940·1	..	23·6	22·6	22·1	26·7	92	..	6·5	..	5·3	0	1	23	0	0	0	0	9	11	3	1	7	0
Gujrat Region																											
Deesa	0830	136	999·8	984·6	—0·6	27·8	25·6	24·6	30·9	83	..	5·6	..	9·7	0	1	30	0	1	2	6	3	12	6	1	0	0
	1730	,,	996·4	981·6	..	32·1	26·5	23·9	30·0	64	..	5·9	..	10·1	0	2	29	0	1	2	7	8	10	2	1	0	0
Radhanpur	0830	30	999·7	996·3	..	28·4	26·4	25·9	32·8	85	..	6·5	..	9·9	0	2	28	0	0	3	2	6	13	5	1	1	0
	1730	,,	996·7	993·4	..	32·8	27·4	25·1	32·1	66	..	5·9	..	13·8	0	6	25	0	0	1	4	6	16	3	1	0	0
Idar	0830	219	1000·2	975·8	..	26·5	24·6	23·6	29·3	85	..	7·1	..	6·8	0	0	30	1	0	0	5	3	7	13	1	1	0
	1730	,,	996·8	972·8	..	31·1	25·2	22·3	27·3	62	..	7·1	..	5·0	0	0	29	0	1	1	7	2	3	15	0	2	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujrat Region— (*Contd.*)																											
Ahmadabad	0230	55	999·6	993·3	..	27·0	25·0	24·1	30·0	85	..	5·8	..	14·8	0	7	24	0	1	0	3	5	12	10	0	0	0
	0530	,,	999·4	993·1	..	26·4	24·8	24·1	30·0	88	..	6·5	..	13·4	0	3	28	0	0	1	4	5	7	13	1	0	0
	0830	,,	1000·5	994·3	−1.0	27·3	25·4	24·5	30·7	85	+2	7·2	+0·8	15·4	0	6	25	0	1	0	5	4	9	10	2	0	0
	1130	,,	1000·6	994·4	..	29·5	26·0	24·4	30·5	74	..	6·9	..	18·4	0	14	17	1	0	0	5	3	10	11	1	0	0
	1730	,,	997·4	991·2	..	31·3	26·1	23·7	29·5	66	..	6·5	..	18·6	0	14	16	0	0	0	3	5	4	15	3	1	0
	2330	,,	1000·3	994·0	..	27·7	25·1	23·9	29·7	81	..	5·2	..	16·1	0	8	23	0	0	0	4	4	11	10	2	0	0
Dohad	0830	333	1000·4	963·5	−1·2	26·0	23·8	22·8	27·7	83	−5	6·6	−0·6	22·0	0	19	12	0	1	1	1	0	14	13	1	0	0
	1730	,,	997·2	961·0	..	30·4	24·6	21·7	26·1	63	..	6·6	..	19·8	0	17	14	0	0	0	0	0	21	9	1	0	0
Baroda (Aerodrome)	0830	38	1001·1	996·8	..	27·8	25·9	25·2	31·9	83	..	6·8	..	15·0	0	6	25	0	0	0	3	7	14	6	1	0	0
	1130	,,	1001·0	996·8	..	30·4	26·5	24·8	31·5	73	..	6·8	..	16·2	0	10	21	0	0	0	1	6	15	8	1	0	0
	1730	,,	998·1	993·8	..	30·8	26·7	24·9	31·5	73	..	6·8	..	18·1	0	16	14	1	0	0	1	8	14	5	1	1	0
Baroda	0530	34	1000·1	996·1	..	26·7	25·3	24·7	31·1	90	..	6·4	..	2·0	0	0	21	0	0	0	1	1	13	6	0	10	0
	0830	,,	1001·3	997·3	−0·7	27·9	25·9	25·0	31·9	85	−3	6·6	−0·2	3·1	0	0	25	0	0	0	0	0	15	10	0	6	0
	1130	,,	1001·2	997·3	..	30·7	26·4	24·6	30·7	71	..	6·4	..	3·9	0	0	29	0	0	0	2	3	16	7	1	2	0
	1730	,,	998·3	994·4	..	31·4	26·5	24·5	30·7	69	..	6·5	..	3·8	0	0	25	0	0	0	1	3	15	6	0	6	0
	2330	,,	1001·1	997·1	..	27·8	25·8	24·9	31·5	85	..	5·6	..	3·9	0	0	23	0	0	0	0	0	19	4	0	8	0
Broach	0830	17	1001·1	998·9	−1·2	27·3	25·5	24·7	31·1	86	−1	6·8	+0·4	6·1	0	0	31	0	0	0	3	1	20	6	1	0	0
	1730	,,	998·4	996·5	..	29·9	25·7	23·9	29·7	72	..	6·9	..	8·0	0	0	31	0	0	0	2	3	24	2	0	0	0
Surat	0530	12	1000·4	999·1	..	26·6	25·5	25·0	31·7	91	..	7·5	..	10·1	0	2	28	0	0	0	5	5	15	5	0	1	0
	0830	,,	1001·7	1000·4	−0·7	27·8	26·2	25·5	32·6	87	+4	7·3	+0·4	6·2	0	0	31	0	0	0	0	9	15	7	0	0	0
	1130	,,	1002·0	1000·7	..	29·7	26·8	25·6	33·0	79	..	7·3	..	13·2	0	5	26	0	0	0	0	8	17	6	0	0	0
	1730	,,	999·5	998·2	..	28·9	26·5	25·5	32·6	80	..	7·5	..	11·7	0	0	31	0	0	0	0	8	22	1	0	0	0
	2330	,,	1001·8	1000·5	..	27·3	25·9	25·3	32·2	89	..	6·5	..	15·2	0	8	22	0	0	0	3	7	19	1	0	1	0
Saurashtra and Kutch																											
Bhutakia-Bhemesr‡	0830	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Naliya	0830	21	999·1	996·7	..	28·3	26·0	25·0	31·9	83	..	6·5	..	18·1	0	14	13	1	3	1	1	0	13	8	0	4	0
	1730	,,	996·8	994·4	..	30·6	26·3	24·5	30·7	71	..	6·2	..	22·6	0	21	10	0	3	0	3	0	18	6	1	0	0
Bhuj (Rudramata)	0230	80	998·1	989·1	..	27·3	26·0	25·4	32·6	89	..	4·7	..	14·5	0	6	22	0	2	2	1	0	7	16	0	3	0
	0530	,,	998·0	989·0	..	26·9	25·5	24·9	31·5	89	..	5·2	..	13·0	0	6	22	1	0	3	1	1	7	15	0	3	0
	0830	,,	999·2	990·2	−0·8	28·3	26·1	25·1	32·1	82	+7	6·3	+0·3	18·0	0	10	20	0	0	7	1	0	6	15	1	1	0
	1130	,,	999·0	990·1	..	32·0	26·8	24·6	30·9	65	..	6·2	..	21·4	0	20	11	0	0	6	1	1	8	15	0	0	0
	1730	,,	996·5	987·6	..	32·2	26·8	24·5	30·7	65	..	6·6	..	23·0	0	6	25	0	0	3	3	3	8	13	1	0	0
	2330	,,	999·0	990·0	..	28·0	26·0	25·2	32·1	85	..	5·2	..	15·8	0	7	22	0	0	2	3	1	10	13	0	2	0
Kandla	0830	35	999·7	995·8	..	28·9	26·5	25·5	32·6	82	..	5·8	..	24·5	0	19	12	0	4	4	1	0	16	6	0	0	0
	1130	,,	999·6	995·7	..	31·6	27·2	25·4	32·4	71	..	6·2	..	29·2	1	22	7	0	2	4	2	1	18	3	0	1	0
	1730	,,	997·1	993·2	..	32·2	26·8	24·5	30·7	65	..	5·9	..	34·7	0	26	5	0	0	3	4	2	19	3	0	0	0
New Kandla	0830	14	1000·0	998·4	..	28·5	26·0	24·9	31·5	81	..	6·2	..	22·0	0	15	16	0	1	4	2	2	6	15	1	0	0
	1730	,,	997·6	996·0	..	31·2	26·5	24·4	30·7	69	..	6·3	..	35·1	0	24	7	0	1	3	2	1	13	10	1	0	0
Mandvi	0830	9	999·3	998·2	−1·3	28·9	26·4	25·4	32·2	82	−5	6·5	+0·2	35·5	1	22	8	2	3	1	1	0	15	4	1	0	4
	1730	,,	997·6	996·5	..	30·1	27·0	25·9	33·0	78	..	6·8	..	42·6	5	20	5	0	0	0	2	0	23	0	0	1	5
Surendranagar	0830	74	1000·2	991·9	−1·0	27·9	25·9	25·0	31·7	84	0	6·6	+0·2	19·1	0	16	15	0	1	4	4	2	9	9	2	0	0
	1730	,,	997·2	989·0	..	32·3	26·3	23·6	29·3	62	..	6·6	..	20·1	0	16	14	1	0	2	3	3	3	13	5	1	0
Jamnagar (Aerodrome)	0530	23	998·6	996·0	..	26·7	25·6	25·1	31·9	91	..	5·8	..	21·9	0	16	15	0	0	2	2	2	17	7	1	0	0
	0830	,,	999·7	997·1	−1·0	28·1	26·1	25·2	32·2	85	+4	5·7	+0·8	21·7	0	18	11	0	2	2	2	2	9	12	0	2	0
	1130	,,	999·8	997·3	..	30·7	26·7	25·0	31·7	72	..	6·1	..	28·0	0	25	4	1	0	3	2	1	6	15	1	2	0
	1730	,,	997·4	994·9	..	30·9	26·5	24·8	30·9	61	..	6·0	..	34·7	0	27	4	0	0	1	2	3	4	18	3	0	0
	2330	,,	999·8	997·2	..	27·5	25·7	24·9	31·5	86	..	5·6	..	26·8	0	23	8	0	0	0	2	3	13	12	1	0	0
Dwarka	0830	11	999·7	998·4	−1·3	28·2	26·6	25·9	33·2	87	+4	6·7	+0·1	24·6	0	19	12	0	2	3	1	0	9	14	2	0	0
	1730	,,	997·9	996·6	..	29·1	26·8	25·8	33·4	83	..	5·9	..	26·2	0	24	7	1	0	1	0	1	9	17	2	0	0
Rajkot	0830	138	1000·1	984·7	−1·4	27·1	25·3	24·5	30·7	86	−2	5·6	−0·4	25·0	0	22	9	0	0	0	4	4	19	4	0	0	0
	1130	,,	999·8	984·6	..	30·4	25·6	23·4	28·9	67	..	6·0	..	29·8	0	25	6	0	0	1	2	3	15	7	3	0	0
	1730	,,	997·5	982·3	..	30·3	25·5	23·3	28·6	68	..	6·6	..	33·0	0	22	9	0	0	0	0	6	11	7	7	0	0
Bhaunagar (Aerodrome)	0830	11	1001·1	999·9	−0·6	28·4	25·7	24·5	30·7	80	+8	6·1	−0·2	22·4	0	19	12	1	0	0	0	8	12	9	1	0	0
	1130	,,	1001·0	999·8	..	31·3	26·0	23·6	29·3	65	..	6·5	9·4	29·4	0	23	7	0	0	3	1	5	8	12	1	1	0
	1730	,,	998·2	997·0	..	31·5	25.8	23·2	28·4	64	..	6·6	..	35·2	0	29	2	0	0	0	1	10	11	7	2	0	0

‡Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—*(Contd.)*																											
Porbandar (Aerodrome)	0830	7	1000·3	999·5	..	27·9	26·1	25·2	32·2	86	..	6·3	..	23·3 (a)	0	22	8	0	0	1	0	4	11	13	2	0	0
	1130	..	1000·5	999·7	..	29·5	26·6	25·6	32·6	80	..	6·1	..	23·9 (a)	0	24	6	1	0	0	1	3	13	12	1	0	0
	1730	..	998·6	997·8	..	28·6	26·4	25·5	32·6	83	..	6·8	..	24·3	0	24	6	1	0	1	1	1	11	14	2	0	0
Porbandar	0830	7	1000·3	999·5	−1·2	27·3	26·3	25·7	33·0	88	0	7·4	+0·6	15·1	0	9	22	1	0	1	1	5	7	15	1	0	0
	1730	..	998·8	998·0	..	29·9	26·7	25·8	33·0	83	..	7·6	..	19·4	0	19	12	1	1	0	1	3	13	11	1	0	0
Keshod	0830	51	1000·8	999·9	..	27·3	25·3	24·5	30·6	85	..	5·9	..	25·4	0	9	22	0	0	1	0	3	12	14	1	0	0
	1130	..	1000·9	999·1	..	29·4	25·8	24·2	30·2	74	..	6·3	..	35·3	0	26	5	0	1	0	0	2	10	18	0	0	0
	1730	..	998·9	998·2	..	28·0	25·5	24·2	30·0	74	..	6·3	..	36·5	0	30	1	0	1	0	0	3	14	13	0	0	0
Mahuva	0830	9	..	..	..	27·5	25·3	24·1	31·9	87	..	6·9	..	5·5	0	0	30	0	0	0	0	1	18	9	2	1	0
	1730	..	..	..	..	29·0	26·1	25·2	32·2	79	..	7·2	..	11·1	0	4	27	1	0	0	0	7	21	1	1	0	0
Veraval	0230	3	1000·0	999·1	..	27·5	26·3	25·6	34·2	91	..	6·8	..	38·3	3	25	2	1	0	0	0	0	10	17	2	1	0
	0530	..	999·7	998·8	..	27·5	26·[illegible]	25·7	33·0	91	..	7·2	..	33·6	1	26	2	0	0	0	0	0	7	19	3	2	0
	0830	..	1001·0	1000·1	1·3	27·8	26·3	25·7	33·0	89	+4	6·8	+0·2	30·5	2	22	7	0	1	0	0	0	4	19	7	0	0
	1130	..	1001·4	1000·5	..	28·7	26·[illegible]	25·1	34·0	86	..	6·6	..	32·1	1	24	6	1	0	0	0	0	7	19	4	0	0
	1730	..	999·4	998·5	..	28·5	26·[illegible]	25·2	35·8	87	..	7·0	..	37·9	1	28	2	1	0	0	0	1	8	17	4	0	0
	2330	..	1001·2	1000·3	..	27·6	26·[illegible]	[illegible]	33·4	90	..	6·8	..	35·7	1	27	2	1	0	0	0	0	10	17	2	1	0
Konkan																											
Dahanu	0330	5	1002·4	1001·9	0·7	27·[illegible]	25·3	24·5	30·7	86	−1	7·7	+0·3	27·0	1	20	10	0	2	1	3	1	7	17	0	0	0
	1730	..	1000·9	1000·4	..	28·[illegible]	25·7	24·6	30·7	80	..	7·7	..	27·7	0	22	9	0	0	0	0	4	13	13	1	0	0
Bombay (Santa Cruz)	0330	15	1002·3	1000·7	..	26·5	25·0	24·4	30·4	88	..	6·7	..	22·8	0	20	9	0	0	3	0	1	5	17	3	2	0
	0530	..	1002·0	1000·4	..	26·5	25·0	24·4	30·4	88	..	6·9	..	21·7	0	20	8	0	0	0	2	2	3	17	4	3	0
	0830	..	1003·4	1001·8	1·0	27·1	25·3	24·5	30·7	86	+5	7·3	0·3	20·8	0	20	8	0	0	1	2	0	4	16	5	3	0
	1130	..	1003·3	1002·2	..	29·0	25·6	24·8	31·5	84	..	7·4	..	24·1	0	23	7	1	0	1	0	1	5	15	7	1	0
	1730	..	1001·8	1000·2	..	27·[illegible]	25·5	24·6	30·7	83	..	7·4	..	23·2	0	22	9	0	0	0	0	1	4	22	4	0	0
	2330	..	1003·7	1002·1	..	26·8	25·4	24·6	31·1	88	..	6·6	..	22·4	0	22	8	0	0	1	1	1	7	18	2	1	0
Bombay	0330	11	1003·6	1002·4	−0·8	[illegible]	25·[illegible]	25·5	32·2	89	+6	7·3	+0·3	9·4	0	1	29	0	0	0	3	0	10	16	1	1	0
	1130	..	1004·0	1002·8	..	28·1	26·5	25·7	33·0	86	..	7·0	..	8·1	0	0	31	0	0	0	2	0	11	16	2	0	0
	1730	..	1002·0	1000·8	..	27·9	26·1	25·1	32·2	87	..	7·3	..	8·9	0	1	30	0	0	0	0	2	9	19	1	0	0
Alibag	0830	7	1003·7	1002·9	1·0	27·0	25·5	24·9	31·5	89	+5	7·3	0·3	35·5	2	24	5	1	0	2	1	0	13	12	1	0	1
Bhira	0830	96	..	..	..	25·0	24·[illegible]	23·[illegible]	29·5	91	..	6·8	..	3·5	0	0	23	0	4	2	6	3	5	1	2	8	0
	1730	..	..	..	..	25·8	24·[illegible]	23·[illegible]	29·3	87	..	7·1	..	4·4	0	0	29	0	4	0	5	1	13	2	4	2	0
Harnai	0830	20	1004·4	1002·0	0·6	28·9	25·[illegible]	24·[illegible]	31·9	89	+2	7·6	0·6	21·2	0	14	17	1	0	2	0	2	7	19	0	0	0
	1730	..	1002·9	1000·6	..	27·2	25·[illegible]	25·[illegible]	32·2	90	..	7·7	..	22·3	0	19	12	0	0	0	0	7	8	15	1	0	0
Ratnagiri	0830	35	1005·5	1004·5	[illegible]	26·3	25·4	24·2	31·5	90	..	7·4	..	30·7	0	27	4	0	0	1	2	2	4	19	3	0	0
	1730	..	1003·5	999·6	..	[illegible]	25·7	25·0	31·9	89	..	7·3	..	27·7	0	26	4	0	0	0	0	1	7	18	4	1	0
Devgarh	0830	36	1005·3	1004·3	0·6	26·8	25·8	25·[illegible]	32·4	92	+3	7·4	+0·3	30·3	0	24	7	0	0	1	1	0	6	16	7	0	0
	1730	..	1004·0	1003·0	..	27·1	25·8	25·2	32·2	89	..	7·2	..	27·8	0	26	5	0	0	0	0	1	6	17	7	0	0
Vengurla	0230	9	1005·0	1004·0	..	26·2	25·0	24·3	30·7	89	..	7·4	..	9·4	0	6	16	0	0	0	0	0	5	16	1	9	0
	0530	..	1004·8	1003·8	..	26·3	24·9	24·1	30·4	89	..	7·5	..	10·1	0	4	21	1	0	0	0	0	7	17	0	6	0
	0830	..	1006·2	1005·2	2·6	26·5	25·1	24·5	30·7	89	−1	7·5	+0·1	10·5	0	4	25	1	1	1	2	1	9	12	2	2	0
	1130	..	1006·7	1005·7	..	27·[illegible]	25·6	24·9	31·5	86	..	7·4	..	8·8	0	0	28	0	0	0	0	1	5	22	0	3	0
	1730	..	1004·7	1003·7	..	26·[illegible]	25·3	24·5	30·9	87	..	7·5	..	9·9	0	5	20	0	0	0	0	2	6	17	0	6	0
	2330	..	1006·7	1005·7	..	26·2	24·9	24·4	30·4	90	..	7·1	..	7·7	0	3	17	1	0	0	0	0	6	12	1	11	0
Madhya Maharashtra																											
Nandurbar	†0830	206	1001·4	978·4	..	26·8	25·0	24·1	30·2	86	..	6·2	..	14·6	0	8	20	0	0	0	0	0	6	20	2	0	0
	‡1730	..	998·7	976·0	..	28·4	25·5	24·5	30·4	79	..	7·0	..	16·9	0	15	14	1	0	1	0	0	8	19	0	1	0
Jalgaon	0830	201	1001·6	979·1	−0·7	26·5	24·4	23·3	28·6	83	−2	6·4	+0·1	16·0	0	12	18	1	0	1	1	0	8	15	4	1	0
	1730	..	998·6	977·1	..	31·0	24·3	21·9	26·3	60	..	6·8	..	28·3	0	23	8	1	0	2	1	0	3	23	1	0	0
Malegaon	0830	437	1001·8	953·6	−0·8	25·8	23·1	21·7	25·9	78	+4	6·9	+0·9	12·7	0	5	24	1	0	0	0	4	6	16	2	2	0
	1730	..	998·8	951·1	..	28·2	23·5	21·0	25·0	67	..	7·1	..	19·4	0	15	16	1	0	0	0	2	6	18	4	0	0
Deolali (Aerodrome)	0830	571	1003·4	940·3	..	23·6	22·7	22·3	26·9	93	..	7·2	..	19·7	0	16	13	0	0	0	0	0	14	15	0	2	0
	1730	..	1001·8	939·0	..	24·5	23·0	22·3	26·9	88	..	7·2	..	21·8	0	17	14	0	1	0	0	0	18	11	1	0	0
Ahmednagar	0830	657	1002·8	930·9	−1·0	23·9	21·7	20·6	24·4	82	+5	7·0	+1·2	9·9	0	0	30	0	1	0	0	1	10	17	1	1	0
	1730	.	999·8	928·8	..	27·1	22·3 (c)	20·0 (c)	23·4	66 (c)	..	7·2	..	14·9	0	10	21	0	0	1	0	0	10	14	6	0	0
Poona (Aerodrome)	0230	593	1002·6	937·0	..	22·4	21·5	21·1	25·0	92	..	6·9	..	16·1	0	11	20	0	0	0	0	0	3	27	1	0	0

†Wind direction for 28 days. ‡Wind direction for 30 days. (c) Mean of 28 days. (a) Mean of 30 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra —(Contd.)																											
Poona (Aerodrome)—(contd.)	0530	593	1002.2	936.6	..	22.1	21.3	21.0	24.7	93	..	6.8	..	17.4	0	11	17	0	0	0	0	1	3	23	1	3	0
	0830	,,	1003.3	937.9	..	23.4	22.0	21.4	25.3	88	..	7.2	..	16.3	0	8	22	0	0	0	0	0	5	24	1	1	0
	1130	,,	1003.1	938.2	..	25.6	22.9	21.6	25.9	79	..	7.0	..	27.1	0	24	6	0	0	0	0	0	3	26	1	1	0
	1730	,,	1001.3	936.3	..	24.7	22.3	21.1	25.0	81	..	6.9	..	35.7	0	27	4	0	1	0	0	0	3	26	1	0	0
	2330	,,	1003.7	938.4	..	23.1	21.7	21.2	24.9	90	..	7.1	..	15.8	0	8	22	1	0	0	0	0	3	24	2	1	0
Poona . . .	0530	559	1002.1	940.3	..	22.8	21.6	20.9	24.9	90	..	6.5	..	2.5	0	0	12	0	0	0	0	0	2	10	0	19	0
	0830	,,	1003.3	941.7	—0.9	24.0	22.2	21.5	25.5	86	+7	7.2	+0.6	2.5	0	0	17	0	0	0	0	0	7	10	0	14	0
	1130	,,	1002.9	941.8	..	26.3	23.3	21.9	26.4	73	..	7.1	..	5.4	0	0	27	0	0	0	0	0	9	18	0	4	0
	1730	,,	1001.1	939.9	..	25.4	22.8	21.5	25.8	80	.	7.0	..	7.0	0	0	27	0	0	0	0	0	10	17	0	4	0
	2330	,,	1003.8	942.0	..	23.4	21.9	21.2	25.0	88	..	6.4	..	3.4	0	0	17	0	0	0	0	0	4	12	1	14	0
Jeur . . .	0830	521	1003.2	945.6	+1.0	24.2	22.1	21.1	25.0	83	+2	6.6	+0.9	12.5	0	6	25	0	0	0	0	1	10	17	3	0	0
	1730	,,	1000.0	943.3	..	27.7	22.6	20.1	23.7	65	..	7.6	..	26.1	0	24	7	1	0	0	0	2	4	17	7	0	0
Baramati . .	0830	551	1003.2	942.6	—0.9	24.7	21.9	20.6	24.3	78	3	6.1	—0.4	14.9	0	8	23	1	0	1	0	1	10	16	2	0	0
	1730	,,	1000.5	940.6	..	27.3	22.0	19.4	22.5	63	..	6.2	..	29.2	0	23	8	2	0	0	1	1	5	20	2	0	0
Sholapur . .	0530	479	1003.1	949.9	..	22.8	21.6	21.0	24.9	90	..	6.5	..	5.4	0	0	28	0	0	0	0	1	23	3	1	3	0
	0830	,,	1004.0	951.2	—0.4	24.6	22.4	21.4	25.5	83	+10	6.5	+0.5	7.2	0	0	31	1	0	0	0	2	21	7	0	0	0
	1130	,,	1003.3	950.9	..	28.2	23.3	21.0	24.9	66	..	7.2	..	14.1	0	5	26	2	0	0	0	0	10	14	5	0	0
	1730	,,	1000.6	948.4	..	28.7	23.3	20.7	24.6	63	..	6.8	..	12.0	0	0	31	1	0	0	2	1	14	9	4	0	0
	2330	,,	1004.4	951.3	..	24.3	22.0	20.9	24.7	82	..	6.4	..	9.0	0	0	29	0	0	0	0	0	19	8	2	2	0
Miraj . . .	0830	554	1005.0	943.8	—0.7	23.6	21.8	21.0	24.9	85	+2	6.7	—0.7	..	0	0	30	0	0	0	0	0	1	29	0	1	0
	1730	,,	1002.4	941.9	..	25.6	22.2	20.5	24.3	73	..	6.7	..	..	0	0	30	0	1	0	0	0	1	27	1	1	0
Kolhapur . .	0530	570	1003.7	940.7	..	22.1	21.3	20.9	24.7	93	..	6.7	..	14.4	0	7	22	0	0	0	0	0	2	27	0	2	0
	0830	,,	1004.9	941.9	0.7	22.9	21.8	21.4	25.3	91	+2	7.3	+0.4	17.5	0	15	16	0	0	0	0	0	4	27	0	0	0
	1130	,,	1004.7	942.7	..	24.6	22.6	21.7	25.9	84	..	7.3	..	22.0	0	18	13	0	0	0	0	0	1	30	0	0	0
	1730	,,	1002.7	940.1	..	24.1	22.2	21.4	25.3	86	..	7.2	..	23.4	0	25	6	0	0	0	0	0	3	27	1	0	0
	2330	,,	1005.5	942.3	..	22.3	21.5	21.1	25.0	93	..	7.2	..	18.1	0	13	18	0	0	0	0	0	5	26	0	0	0
Marathwada																											
Aurangabad . .	0830	581	1003.0	939.1	—0.8	24.1	22.0	21.0	25.0	83	+2	7.1	+0.1	19.7	0	15	15	0	0	0	0	0	11	19	0	1	0
	1730	,,	999.5	[illegible]	..	27.3	22.5	20.4	23.7	65	..	6.9	..	26.7	0	25	5	0	0	1	1	1	3	23	1	1	0
Aurangabad (Chikalthan)	0230	579	1001.5	937.6	..	22.8	21.5	20.9	24.7	89	..	6.6	..	12.5	0	5	21	0	0	0	0	0	2	24	0	5	0
	0530	,,	1001.3	937.3	..	22.2	21.2	20.6	24.4	91	..	6.9	..	13.4	0	6	19	0	0	0	0	2	3	19	1	6	0
	0830	,,	1002.4	938.7	..	21.2	22.4	21.6	25.8	86	..	6.9	..	17.0	0	7	22	0	0	0	0	0	3	23	3	2	0
	1130	,,	1001.5	938.6	..	27.0	23.5	21.9	26.3	74	..	7.3	..	20.3	0	13	17	0	1	0	0	0	5	22	2	1	0
	1730	,,	999.1	936.1	..	26.9	23.5	22.1	26.4	76	..	7.2	..	25.2	0	21	10	1	0	1	1	0	4	21	3	0	0
	2330	,,	1002.6	938.8	..	23.5	21.8	21.0	24.9	87	..	6.4	..	17.5	0	10	19	0	0	0	1	0	4	21	3	2	0
Parbhani . .	0830	423	1002.9	955.9	—0.1	24.8	22.4	21.1	25.2	81	0	6.6	+0.1	13.5	0	4	27	0	0	0	0	0	8	22	1	0	0
	1730	,,	998.5	952.7	..	29.9	23.5	20.1	23.7	55	..	6.9	..	16.0	0	10	21	0	0	1	1	0	2	21	6	0	0
Nander . . .	0830	358	1003.0	963.1	..	25.6	23.1	21.9	26.3	82	..	6.2	..	11.4	0	2	29	0	0	0	0	2	14	8	7	0	0
	1730	,,	1000.5	961.3	..	29.9	24.2	21.5	25.9	62	..	5.8	..	12.7	0	5	26	0	0	0	0	1	11	12	7	0	0
Bir . . .	0830	519	1003.3	946.2	..	25.2	23.4	22.5	27.4	86	..	6.7	..	10.7	0	2	29	0	0	1	0	3	17	7	3	0	0
	1730	,,	999.9	943.5	..	28.6	24.7	23.1	28.3	74	..	6.9	..	15.1	0	9	22	0	1	0	1	1	12	7	9	0	0
Vidarbha																											
Gondia . . .	0830	313	1000.7	966.1	—0.5	26.0	24.0	23.2	28.4	84	—2	7.8	+0.9	6.3	0	0	31	0	0	0	3	5	13	9	1	0	0
	1730	,,	997.5	963.0	..	28.0	24.8	23.4	28.6	77	..	6.8	..	4.6	0	0	28	1	1	0	1	2	16	3	3	3	1
Nagpur (Sonegaon) .	0230	310	999.1	964.6	..	25.0	23.5	22.8	27.6	88	..	7.4	..	8.6	0	1	25	0	0	2	0	0	9	14	1	5	0
	0530	,,	999.5	964.9	..	24.6	23.3	22.6	27.6	89	..	7.5	..	6.7	0	1	22	0	0	1	0	0	9	11	2	8	0
	0830	,,	1000.7	966.2	—0.8	26.0	23.9	22.8	27.7	83	+1	7.3	+0.8	11.1	0	5	24	0	0	0	0	2	9	15	3	2	0
	1130	,,	1000.4	966.3	..	28.4	24.5	22.7	27.6	72	..	7.5	..	17.7	0	17	12	0	0	0	0	1	7	13	8	2	0
	1730	,,	997.4	963.4	..	29.2	24.6	22.3	26.9	69	..	6.9	..	15.4	0	9	20	2	2	0	0	3	4	10	8	2	0
	2330	,,	1000.1	965.7	..	25.4	23.7	22.9	27.9	87	..	7.5	..	8.6	0	1	24	0	0	3	1	0	10	10	1	6	0
Amraoti . . .	0830	370	1001.3	960.3	—0.7	25.1	23.3	22.3	27.1	85	+4	7.0	+0.8	7.0	0	0	31	1	0	0	0	2	21	6	1	0	0
	1730	,,	997.4	956.9	..	28.7	24.3	22.2	26.7	70	..	6.5	..	7.5	0	1	30	1	0	0	0	4	8	10	8	0	0
Akola Aerodrome .	0530	309	999.8	965.3	..	24.4	23.1	22.3	27.1	88	..	7.3	..	3.9	0	0	19	0	0	0	0	0	5	13	1	12	0
	2330	,,	1000.3	966.0	..	26.2	23.8	22.6	27.2	81	..	6.2	..	8.9	0	0	30	0	0	0	1	1	6	19	3	1	0
Akola . . .	0830	282	1001.4	970.0	—0.8	26.0	23.8	22.8	27.7	84	+6	6.0	—0.3	6.8	0	0	31	0	0	0	0	1	2	28	0	0	0
	1130	,,	1000.8	969.7	..	28.8	24.7	22.8	27.7	71	..	7.0	..	8.2	0	2	24	0	0	0	0	0	5	19	2	5	0
	1730	,,	997.7	966.8	..	29.6	24.9	22.6	27.4	69	..	7.3	..	8.3	0	5	23	1	0	2	1	1	1	20	2	3	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speeds Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidhrba—(*Contd*).																											
Brmhapuri	0830	229	1001.3	975.7	..	25.9	23.9	23.1	28.1	85	..	6.8	..	9.9	0	0	31	1	1	0	0	1	11	15	2	0	0
	1730	,,	997.8	972.6	..	29.0	25.0	23.2	28.4	72	..	6.5	..	7.5	0	0	29	2	0	1	0	2	7	14	3	2	0
Buldhana	0830	650	1001.9	930.6	−0.5	23.2	21.7	20.9	24.7	87	+1	6.1	0.9	1.5	0	0	19	0	0	0	1	0	0	0	18	12	0
	1730	,,	998.3	928.0	..	26.6	22.7	20.9	24.7	72	..	7.2	..	2.1	0	0	25	0	2	0	0	0	1	0	22	6	0
Yeotmal	0830	451	1001.6	951.7	−0.5	24.5	22.5	21.5	25.6	83	−4	7.5	+0.6	27.5	1	26	4	0	1	0	0	0	16	12	2	0	0
	1730	,,	997.5	948.5	..	28.7	23.8	21.5	25.3	66	..	7.2	..	20.6	0	14	17	0	0	0	1	1	5	16	8	0	0
Chanda	0830	193	1001.6	980.0	−0.7	26.5	24.1	22.9	28.1	81	+3	7.4	+1.2	13.4	0	5	26	0	0	1	0	1	8	17	4	0	0
	1730	,,	997.9	976.6	..	29.6	25.2	23.2	28.6	75	..	7.3 (a)	..	12.3 (a)	0	5	26	1	1	1	2	0	10	13	3	0	0
Pusad	0830	334	1002.9	965.7	..	25.7	23.5	22.4	27.4	82	..	5.3 (a)	..	12.6 (a)	0	5	25	0	0	0	2	0	17	9	2	0	0
	1730	,,	999.2	962.7	..	29.4	25.1	23.0	28.1	70	..	5.4	..	12.4	0	5	23	0	1	0	0	0	18	6	3	2	0
Sironcha	0830	123	1002.3	988.5	−1.0	27.2	24.8	23.7	29.3	82	−3	6.9	0	5.8	0	0	29	0	0	1	2	0	13	10	2	2	1
	1730	,,	998.8	985.2	..	30.2	25.7	23.8	29.3	76	.	7.2	..	8.7	0	2	28	2	0	1	4	1	7	8	5	1	2
Coastal Andhra Pradesh																											
Kalingapatnam	0830	6	1000.2	999.6	−1.2	27.7	25.8	24.8	31.5	85	−6	5.5	+0.1	7.8	0	3	29	0	0	0	0	2	19	5	5	0	0
	1730	,,	997.9	997.3	..	28.7	26.3	25.5	32.2	82	..	5.0	..	11.3	0	4	27	0	0	0	1	7	20	2	1	0	0
Visakhapatnam	0230	3	999.6	999.2	..	26.8	25.6	25.6	29.1	85	..	6.1	..	12.5	0	9	11	1	0	0	0	0	14	5	0	11	0
	0530	,,	999.8	999.4	..	26.3	24.4	23.5	28.9	85	..	6.9	..	11.1	0	9	15	0	0	0	0	0	17	5	2	7	0
	0830	,,	1001.0	1000.6	−1.1	28.2	25.1	23.7	28.3	77	−3	6.5	+0.1	15.4	0	7	23	0	0	0	0	0	22	7	1	1	0
	1130	,,	1000.5	1000.1	..	30.5	25.8	23.7	29.3	68	..	7.0	..	17.7	0	10	21	0	0	1	1	1	19	8	1	0	0
	1730	,,	998.6	998.2	..	29.6	25.5	25.6	29.3	71	..	7.1	..	15.2	0	7	24	1	1	1	1	3	16	7	1	0	0
	2330	,,	1000.8	1000.4	..	27.4	25.0	24.0	29.7	82	..	5.7	..	12.8	0	6	22	0	0	0	0	1	19	7	1	3	0
Kankinada	0830	8	1002.5	1001.6	−0.7	27.8	25.2	24.0	27.9	81	−3	6.1	−0.1	16.4	0	5	26	0	0	0	1	0	29	0	1	0	0
	1730	,,	999.4	998.5	..	29.6	25.7	24.1	29.6	73	..	6.3	..	15.0	0	3	28	0	0	0	0	0	27	0	4	0	0
Nidadavolu	0830	12	1002.7	1001.3	..	26.6	25.0	24.2	30.1	87	..	7.5	..	6.3	0	0	31	0	0	0	0	0	21	9	1	0	0
	1730	,,	999.7	998.3	..	29.5	26.0	24.6	30.7	75	..	7.5	..	6.0	0	0	30	0	0	0	0	0	20	8	2	1	0
Rentachintala	0830	106	1003.4	991.6	..	28.6	24.2	22.1	26.6	69	−1	7.2	+0.2	4.0	0	0	31	0	0	0	0	0	0	30	1	0	0
	1730	,,	999.6	988.1	..	32.5	25.5	22.1	26.9	56	..	7.5	..	3.9	0	0	31	2	0	0	0	0	1	28	0	0	0
Gannavaram	0230	24	1001.5	993.8	..	26.2	24.7	24.1	30.0	88	..	7.2	..	10.1	0	2	26	0	0	1	0	2	14	10	1	3	0
	0530	,,	1001.9	999.2	..	25.9	24.4	23.7	29.3	88	..	7.5	..	12.3	0	7	22	0	0	0	1	0	12	15	1	2	0
	0830	,,	1003.5	1000.8	−0.3	27.2	24.8	23.8	29.3	82	+3	7.5	+0.6	14.3	0	11	20	0	0	0	0	1	9	18	3	0	0
	1130	,,	1002.9	1000.2	..	29.3	25.6	23.8	29.7	72	..	7.1	..	20.0	0	17	14	1	0	0	0	0	7	14	9	0	0
	1730	,,	1000.0	997.3	..	30.0	25.9	24.1	30.0	71	..	7.5	..	11.5	0	4	25	4	0	0	0	1	6	12	6	2	0
	2330	,,	1002.7	1000.1	..	26.7	25.3	24.6	31.1	89	..	7.5	..	10.5	0	4	25	1	0	0	1	6	13	5	3	2	0
Nagarjunakonda	0830	..	..	..	..	28.7	24.3	22.2	26.7	68	..	6.8	..	28.5	0	27	4	0	0	0	0	0	9	17	5	0	0
	1730	..	..	..	..	31.2	25.0	22.1	26.6	60	..	6.4	..	22.7	0	16	15	0	0	0	0	2	14	7	8	0	0
Masulipatnam	0830	3	1003.5	1003.2	−0.6	27.6	24.8	23.5	28.9	79	+1	7.8	+1.6	5.5	0	0	30	0	0	0	0	3	16	10	1	1	0
	1730	,,	1000.0	999.7	..	30.2	25.9	24.0	30.0	70	..	7.8	..	4.6	0	0	30	0	1	1	1	3	8	15	1	1	0
Ongole	0830	12	1004.0	1002.7	..	29.8	25.4	23.3	28.8	69	..	7.1	..	6.7	0	0	30	0	0	0	0	0	6	19	5	1	0
	1730	,,	1000.3	999.0	..	32.5	26.6	24.1	30.0	63	..	7.4	..	5.8	0	0	31	1	0	1	1	0	4	18	4	0	2
Nellore	0530	20	1002.9	1000.7	..	27.7	23.6	21.6	25.6	70	..	7.7	..	0.5	0	0	5	0	0	0	0	0	0	5	0	26	0
	0830	,,	1004.7	1002.5	−0.3	29.5	24.3	21.8	26.1	64	+1	7.4	+1.1	2.8	0	0	22	0	0	0	0	0	2	20	0	9	0
	1130	,,	1003.8	1001.6	..	33.0	24.7	20.6	24.3	49	..	7.3	..	5.3	0	0	31	0	0	0	0	0	0	31	0	0	0
	1730	,,	1000.6	998.4	..	33.8	25.8	21.2	25.3	49	..	7.5	..	4.9	0	0	28	0	0	0	0	0	0	28	0	3	0
	2330	,,	1003.7	1001.5	..	28.6	24.6	22.7	27.6	72	..	6.6	..	1.3	0	0	9	0	0	0	0	0	0	9	0	22	0
Telangana																											
Ramagundam	0830	156	1002.0	984.5	−0.9	26.6	24.0	22.8	27.7	80	+1	6.5	−0.3	5.9	0	2	22	0	0	0	1	1	7	12	3	7	0
	1730	,,	998.6	981.3	..	31.1	25.4	22.8	27.9	63	..	7.0	..	7.3	0	0	29	3	1	0	0	2	11	10	2	2	0
Nizamabad	0830	381	1003.0	960.7	−0.4	25.2	23.4	22.5	27.3	86	+9	6.8	+1.5	1.8	0	0	23	0	0	0	0	0	19	4	0	8	0
	1730	,,	999.2	957.5	..	29.9	25.6	23.5	29.3	71	..	6.3	..	1.4	0	0	22	0	0	0	1	0	20	1	0	9	0
Hanamkonda	0830	269	1002.9	973.0	−0.6	26.1	23.6	22.3	26.9	80	+6	6.1	−0.1	2.9	0	0	31	2	0	0	1	1	0	24	3	0	0
	1730	,,	1000.2	970.6	..	29.4	24.9	22.9	27.9	69	..	6.7	..	2.5	0	0	31	5	0	0	0	3	0	19	4	0	0
Hakimpet (Aerodrome)	0530	613	1002.4	934.9	..	22.3	21.0	20.4	23.8	89	..	7.3	..	22.8	0	20	11	0	0	0	0	0	1	27	3	0	0
	0830	,,	1003.2	935.8	..	23.3	21.5	20.7	24.4	86	..	7.3	..	27.1	0	26	5	0	0	0	0	0	2	26	3	0	0
	1130	,,	1002.5	935.7	..	26.5	22.8	21.3	25.0	74	..	7.2	..	39.8	0	23	8	0	0	0	0	0	1	27	3	0	0
	1730	,,	1000.1	933.8	..	27.3	22.9	20.7	24.7	69	..	7.1	..	25.1	0	16	15	0	0	0	0	0	2	23	6	0	0
Bhadrachalam	0830	111	1002.7	990.2	−1.3	26.7	24.7	23.7	29.3	83	+1	7.5	+0.3	10.8	0	2	29	1	1	7	1	0	10	7	4	0	0
	1730	,,	999.3	987.0	..	29.7	25.6	23.7	29.3	72	..	7.6	..	5.2	0	0	31	1	5	10	2	0	4	0	9	0	0

(a) Mean of 30 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—(*Contd.*)																											
Hyderabad (Begumpet)	0230	545	1002.1	942.0	..	23.4	21.4	20.3	23.8	83	..	7.4	..	23.3	0	21	10	0	0	0	0	0	4	26	1	0	0
	0530	,,	1002.4	942.3	..	22.8	21.0	20.1	23.5	85	..	7.5	..	24.6	0	26	5	0	0	0	0	0	3	25	3	0	0
	0830	,,	1003.7	943.6	—0.3	23.9	21.5	20.4	23.8	81	0	7.6	+1.2	26.1	0	26	5	0	0	0	0	0	3	23	5	0	0
	1130	,,	1002.7	943.4	..	27.2	22.4	20.2	23.5	66	..	7.2	..	30.2	0	30	1	0	0	0	0	0	2	24	5	0	0
	1730	,,	999.6	940.6	..	28.1	22.5	19.7	23.1	61	..	7.2	..	24.6	0	20	11	0	0	0	0	0	4	19	8	0	0
	2330	,,	1003.2	943.2	..	24.4	21.8	20.5	24.3	80	..	7.0	..	22.6	0	17	14	0	0	0	0	0	4	23	4	0	0
Khammam	0830	112	1003.2	990.7	..	26.5	24.5	23.6	29.1	85	..	7.2	..	8.8	0	2	26	0	0	0	0	1	0	27	0	3	0
	1730	,,	999.1	987.6	..	30.0	25.8	23.9	29.8	71	..	7.5	..	7.5	0	1	25	2	0	0	0	0	0	24	0	5	0
Mahbubnagar	0830	505	1004.4	948.5	..	24.1	22.0	21.1	25.0	83	..	7.5	..	11.0	0	0	31	0	0	0	0	0	11	14	6	0	0
	1730	,,	1000.7	945.6	..	27.3	23.2	21.3	25.3	71	..	7.8	..	7.4	0	0	31	0	0	0	0	0	8	15	8	0	0
Rayalaseema																											
Kurnool	0830	281	1005.3	973.9	—0.1	26.2	23.8	22.6	27.6	81	+9	6.4	+0.1	7.7	0	0	31	0	0	0	0	0	3	25	3	0	0
	1730	,,	1001.2	970.3	..	29.4	24.9	22.7	27.9	69	..	7.1	..	8.7	0	0	30	0	0	0	0	0	0	22	8	1	0
Nandyal†	0830																										
	1730																										
Anantapur	0530	350	1004.2	965.2	..	24.7	21.6	19.9	23.2	75	..	6.5	..	16.6	0	12	18	0	0	0	0	0	1	28	1	1	0
	0830	,,	1005.5	966.7	—0.1	26.5	22.3	20.0	23.5	68	—5	6.9	+0.5	20.4	0	17	14	0	0	0	0	0	2	28	1	0	0
	1130	,,	1004.4	966.1	..	30.3	23.0	19.1	22.1	52	..	7.0	..	28.3	0	28	3	0	0	0	0	0	1	26	4	0	0
	1730	,,	1001.6	963.8	..	30.3	23.0	19.0	22.1	53	..	7.1	..	29.4	0	27	4	0	0	1	0	0	1	28	1	0	0
	2330	,,	1005.7	966.8	..	26.1	22.1	19.9	23.2	69	..	6.0	..	22.8	0	22	7	0	0	0	0	0	2	27	0	2	0
Cuddappah	0830	130	1005.6	991.5	0	28.6	24.4	22.3	27.6	70	—5	6.1	—0.1	4.9	0	0	24	0	0	0	0	0	0	24	0	7	0
	1730	,,	1001.2	986.9	..	32.8	25.4	21.8	26.4	54	..	6.3	..	9.6	0	0	30	0	0	0	0	0	2	20	8	1	0
Arogyavaram	0830	701	1005.7	929.2	..	24.5	20.4	18.2	20.8	68	..	6.6	..	10.2	0	3	28	3	0	0	0	0	3	17	3	0	0
	1730	,,	1001.7	926.5	..	28.5	21.2	17.2	19.7	52	..	6.6	..	15.5	0	9	22	1	0	0	0	0	4	17	9	0	0
Madras State																											
Madras (Nungambakkam)	0830	6	1005.7	1005.0	..	28.3	24.4	22.5	27.3	72	..	6.7	..	8.8	0	2	27	0	0	0	0	1	7	20	1	2	0
Madras (Minamakkam)	0230	16	1003.8	1002.1	..	27.3	24.6	23.3	28.6	80	..	6.9	..	7.7	0	1	23	0	0	0	0	8	9	7	0	7	0
	0530	,,	1004.3	1002.6	..	26.7	24.1	22.1	27.9	80	..	7.1	..	8.2	0	1	26	0	0	0	0	4	12	11	0	4	0
	0830	,,	1005.8	1004.1	0	28.2	24.5	22.7	27.6	72	+10	6.9	+1.2	10.6	0	3	25	0	0	0	0	2	18	8	0	3	0
	1130	,,	1005.0	1003.3	..	31.7	25.2	22.2	26.6	58	..	6.7	..	18.4	0	13	18	0	0	0	0	2	14	14	1	0	0
	1730	,,	1002.0	1000.3	..	31.7	26.0	23.3	28.9	63	..	7.2	..	13.3	0	3	28	0	0	4	7	5	8	5	1	0	1
	2330	,,	1005.1	1003.3	..	27.8	24.9	23.6	28.9	79	..	6.3	..	12.7	0	4	25	0	0	1	0	12	11	4	1	2	0
Vellore	0530	214	1004.6	980.6	..	26.2	22.6	20.6	24.4	72	..	7.2	..	3.5	0	0	21	0	0	0	0	0	7	14	0	10	0
	0830	,,	1005.8	981.9	—0.2	27.8	23.3	21.1	25.0	67	0	7.2	+2.4	7.2	0	0	29	0	0	0	0	0	9	18	2	0	0
	1130	,,	1004.8	981.2	..	31.6	24.4	20.9	24.7	53	..	7.3	..	11.5	0	2	29	0	0	0	0	0	5	26	0	0	0
	1730	,,	1000.9	978.2	..	32.2	24.5	20.7	24.4	52	..	7.6	..	8.0	0	0	30	1	2	0	0	2	14	8	3	1	0
	2330	,,	1005.5	981.6	..	28.1	23.3	20.9	24.7	66	..	6.3	..	5.6	0	0	21	0	0	0	0	0	6	15	0	10	0
Tambaram (Aerodrome)	0830	29	1005.5	1002.3	..	28.0	25.2	23.9	29.7	79	..	6.6	..	12.8	0	1	28	0	0	0	0	0	7	20	2	2	0
	1730	,,	1002.0	998.8	..	31.5	27.1	25.2	32.2	70	..	6.9	..	16.6	0	9	22	0	0	0	4	10	7	9	1	0	0
Tiruppattur	0830	390	1006.4	963.2	..	26.3	22.5	20.5	24.1	71	..	6.5	..	6.1	0	0	30	8	4	2	0	6	3	7	0	1	0
	1730	,,	1002.5	960.1	..	30.4	23.4	19.8	23.1	54	..	7.3	..	13.2	0	5	26	5	1	0	0	6	3	15	1	0	0
Mettur Dam R.S.	0830	244	..	..	..	27.6	23.3	21.1	25.0	68	..	7.0	..	3.9	0	0	28	0	1	0	2	0	21	0	4	3	0
	1730	,,	..	..	..	30.9	23.7	20.0	23.4	53	..	7.4	..	8.3	0	0	30	0	1	0	0	0	15	0	14		0
Cuddalore	0530	12	1004.3	1003.0	..	26.9	23.9	22.4	27.3	76	..	6.6	..	4.6	0	0	22	0	0	0	1	1	17	3	0	9	0
	0830	,,	1006.1	1004.8	—0.5	28.9	24.4	22.3	28.6	68	—1	7.0	+1.9	7.2	0	0	30	0	0	0	0	1	28	1	0	1	0
	1130	,,	1005.3	1004.0	..	33.4	25.1	21.0	25.0	49	..	6.6	..	11.8	0	2	29	0	0	0	0	0	21	8	2	0	0
	1730	,,	1002.4	1001.1	..	32.9	25.4	21.7	26.3	54	..	6.9	..	11.0	0	1	30	0	0	2	6	6	11	5	1	0	0
	2330	,,	1005.3	1004.0	..	28.5	24.7	22.9	27.9	73	..	6.5	..	11.0	0	2	28	0	0	0	4	7	18	1	0	1	0
Kaliakkurichchi	0830	127	1005.9	991.7	..	27.9	24.9	23.5	28.9	78	..	6.2	..	10.0	0	2	27	0	0	0	0	2	27	0	0	2	0
	1730	,,	1002.0	988.1	..	33.4	27.1	24.3	30.7	60	..	7.0	..	12.0	0	5	23	0	0	0	0	2	26	0	0	3	0
Salem	0530	278	1005.7	974.4	..	24.2	22.1	20.9	24.9	82	..	7.4	..	3.2	0	0	24	0	0	0	0	5	11	8	0	7	0
	0830	,,	1007.0	975.8	—0.6	25.9	22.7	21.8	25.0	75	—2	6.9	+1.4	5.0	0	0	31	0	0	0	0	9	13	9	0	0	0
	1130	,,	1005.7	975.1	..	30.7	23.6	19.9	23.2	53	..	7.1	..	8.5	0	0	31	0	0	0	0	5	9	17	0	0	0
	1730	,,	1003.2	972.7	..	30.0	23.5	20.0	23.5	57	..	7.6	..	7.0	0	0	27	0	0	0	1	2	9	14	1	4	0
	2330	,,	1006.8	975.7	..	26.0	22.7	20.9	24.9	74	..	6.6	..	5.9	0	0	28	0	0	0	0	10	11	7	0	3	0

† Data not reliable

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*)																											
Coimbatore (Pilamedu)	0530	399	1006.3	961.6	..	22.6	21.5	20.9	24.7	90	..	6.6	..	26.7	0	24	7	0	0	0	0	6	21	4	0	0	0
	0830	,,	1007.4	963.0	..	24.8	22.6	21.5	25.6	83	..	6.5	..	28.9	0	28	3	0	0	0	0	7	21	3	0	0	0
	1130	,,	1006.5	962.7	..	28.1	23.5	21.2	25.2	67	..	6.3	..	38.8	0	29	2	0	0	0	0	9	17	5	0	0	0
	1730	,,	1004.7	960.6	..	26.3	22.7	20.7	24.6	72	..	6.8	..	39.5	0	30	1	0	0	0	0	3	25	3	0	0	0
	2330	,,	1007.8	963.2	..	23.1	22.0	21.3	25.6	90	..	5.7	..	33.8	0	29	2	0	0	0	0	5	25	1	0	0	0
Coimbatore . .	0830	409	1007.7	962.2	—0.1	24.7	21.5	19.7	22.9	74	—6	7.3	+2.4	27.4	0	31	0	0	0	0	0	11	16	4	0	0	0
	1730	,,	1004.9	959.9	..	26.5	22.3	20.2	23.5	69	..	7.6	..	24.5	0	27	4	0	0	0	0	8	15	8	0	0	0
Nagappattinam .	0830	9	1007.1	1006.0	0	29.3	23.1	21.2	25.6	62	—3	6.8	+2.2	12.7	0	7	24	0	0	0	1	0	14	16	0	0	0
	1730	,,	1003.5	1002.4	..	31.6	25.6	22.7	27.6	60	..	6.8	..	17.7	0	14	17	0	0	0	4	10	11	6	0	0	0
Tiruchirapally .	0230	88	1005.2	995.4	..	27.6	23.7	21.8	26.1	71	..	4.8	..	33.3	0	27	4	0	0	0	0	0	0	31	0	0	0
	0530	,,	1005.5	995.6	..	26.8	23.4	21.6	25.9	73	..	6.5	..	26.9	0	24	7	0	0	0	0	0	0	30	1	0	0
	0830	,,	1006.9	997.1	0.4	29.0	24.3	22.0	26.6	66	+7	6.4	+1.4	29.9	0	26	5	0	0	0	0	0	1	28	2	0	0
	1130	,,	1006.0	996.3	..	33.1	25.5	21.9	26.4	52	..	6.5	..	34.3	0	28	3	0	0	0	0	0	4	25	2	0	0
	1730	,,	1003.4	993.8	..	32.9	25.5	22.0	26.6	53	..	7.1	..	37.0	1	26	4	0	0	1	0	2	4	23	1	0	0
	2330	,,	1006.7	996.9	..	28.4	23.8	21.5	25.6	67	..	4.8	..	36.5	2	26	3	0	0	0	0	0	0	30	1	0	0
Vedaranniyam .	0830	4	1007.0	1006.5	..	29.9	25.8	24.0	30.0	71	..	5.5	..	7.5	0	0	31	0	1	0	0	6	20	3	1	0	0
	1730	,,	1004.1	1003.6	..	30.0	26.6	25.1	32.1	76	..	6.0	..	11.0	0	1	30	0	0	0	3	12	16	0	0	0	0
Atirampatinam .	0830	6	1006.8	1006.1	..	29.8	24.3	21.5	25.9	61	..	6.3	..	8.5	0	1	29	3	0	0	0	1	8	7	11	1	0
	1730	,,	1003.8	1003.1	..	30.1	26.1	24.3	30.5	72	..	6.8	..	23.7	0	27	4	0	0	0	0	14	15	0	2	0	0
Madurai . .	0830	133	1007.2	992.4	—0.1	29.1	24.9	23.1	28.1	70	+13	4.8	—0.7	4.8	0	0	29	3	0	0	0	0	5	6	15	2	0
	1730	,,	1003.7	989.4	..	32.4	26.5	23.8	29.7	61	..	4.9	..	13.5	0	8	23	1	1	0	1	0	17	5	2	0	4
Madurai (Aerodrome)	0530	131	1005.6	990.9	..	27.0	22.9	20.7	24.6	69	..	6.3	..	13.9	0	9	20	6	0	1	1	2	1	12	6	2	0
	0830	,,	1007.0	992.3	..	29.8	24.1	21.2	25.3	61	..	6.4	..	17.8	0	11	20	1	0	2	0	0	3	18	7	0	0
	1130	,,	1006.1	991.7	..	33.3	25.3	21.5	25.6	51	..	6.3	..	21.5	0	15	15	3	0	0	0	0	4	15	8	1	0
	1730	,,	1003.8	989.3	..	32.0	25.1	21.7	26.3	56	..	6.9	..	30.8	0	26	5	0	0	0	0	1	1	22	7	0	0
Tondi . . .	0830	5	1007.3	1006.7	..	29.5	24.5	22.1	26.6	65	..	5.9	..	2.5	0	0	9	0	0	0	1	4	4	0	0	22	0
	1730	,,	1004.1	1003.5	..	30.8	25.8	23.4	29.1	67	..	6.5	..	25.3	0	25	6	0	0	0	9	13	3	5	1	0	0
Pamban . .	0830	11	1007.4	1006.1	—0.3	28.6	26.0	24.9	31.5	81	+6	4.9	+1.9	8.6	0	4	17	0	0	0	0	1	18	2	0	10	0
	1730	,,	1004.5	1003.3	..	29.0	26.4	25.3	32.2	80	..	4.7	..	17.2	0	10	21	0	0	0	0	10	21	0	0	0	0
Tuticorin . .	0830	4	1007.9	1007.5	—0.2	30.5	24.0	20.8	24.4	57	—1	(a) 5.3	+1.2	(a) 22.2	0	16	14	1	0	0	0	0	2	27	0	0	0
	1730	,,	1004.9	1004.5	..	31.9	24.3	20.5	24.1	52	..	6.9	..	26.6	0	27	4	0	0	0	2	0	0	29	0	0	0
Palayancottai . .	0830	51	1007.9	1002.2	+0.1	29.3	23.5	20.5	24.1	60	+1	6.4	+1.6	11.6	0	9	19	1	0	0	0	0	1	23	3	3	0
	1730	,,	1005.2	999.5	..	30.6	23.5	19.9	23.2	54	..	6.8	..	15.3	0	11	19	0	0	0	0	0	1	23	6	1	0
Kanniyakumari	0830	37	1008.7	1004.6	..	26.3	23.8	22.7	27.6	81	..	6.5	..	18.3	0	13	18	0	0	0	0	0	0	27	4	0	0
	1730	,,	1006.6	1002.5	..	26.8	24.2	22.9	28.1	79	..	6.7	..	19.3	0	17	14	0	0	0	0	0	0	27	4	0	0
Coastal Mysore																											
Karwar . . .	0830	4	1006.7	1006.1	—0.8	26.7	25.1	24.3	30.5	87	—1	7.6	0	19.7	0	16	13	1	1	0	0	0	0	14	3	2	10
	1730	,,	1005.2	1004.7	..	27.3	25.6	24.7	31.5	86	..	7.2	..	15.9	0	9	19	0	0	0	0	0	0	7	11	3	10
Honavar . .	0830	26	1007.4	1004.5	—0.8	25.3	24.2	23.7	29.3	91	0	8.0	+1.0	8.6	0	0	30	2	1	3	0	1	14	9	0	1	0
	1730	,,	1005.8	1002.9	..	26.6	24.9	24.2	30.0	87	..	7.9	..	12.8	0	5	25	0	0	1	0	2	10	14	3	1	0
Mangalore (Bajpe) .	0230	102	1006·8	995·3	..	24·5	23·8	23·4	28·9	94	..	7·1	..	10·4	0	5	21	0	0	3	1	0	1	19	2	5	0
	0530	,,	1006·7	995·1	..	24·4	23·7	23·3	28·6	94	..	7·5	..	11·4	0	4	25	0	0	2	2	0	1	22	2	2	0
	0830	,,	1008·2	996·7	..	25·0	24·1	23·6	29·3	92	..	7·5	..	8·5	0	0	28	1	2	2	3	0	2	16	2	3	0
	1130	,,	1008·3	996·8	..	26·4	24·8	24·1	30·0	88	..	7·3	..	12·7	0	4	23	0	0	2	1	1	4	14	5	4	0
	1730	,,	1006·4	994·9	..	25·9	24·5	23·9	29·7	89	..	7·6	..	11·7	0	3	28	0	1	2	0	0	3	17	8	0	0
	2330	,,	1008·6	997·0	..	24·5	23·8	23·4	28·9	94	..	7·2	..	11·2	0	4	25	2	1	3	2	0	2	13	6	2	0
Mangalore . .	0830	22	1008·3	1005·8	—0·1	26·1	24·7	24·2	30·0	89	—1	7·6	+0·6	3·1	0	0	31	2	0	5	0	2	3	15	4	0	0
	1730	,,	1006·6	1004·7	..	26·9	25·4	24·7	31·1	88	..	7·5	..	4·0	0	0	31	2	0	0	0	0	4	20	5	0	0
Interior Mysore North																											
Bidar . . .	0830	664	1003·7	930·8	..	22·7	21·7	21·2	25·2	91	+9	7·1	+1·5	22·8	0	24	7	0	0	0	0	0	27	4	0	0	0
	1730	,,	999·7	927·8	..	26·1	23·8	22·6	27·9	82	..	6·6	..	21·6	0	19	12	0	0	0	1	0	19	6	5	0	0
Gulbarga . .	0830	458	1004·2	953·5	—0·5	24·0	22·4	21·6	25·9	86	+7	7·9	+2·1	13·8	0	3	27	0	0	0	0	0	12	17	1	1	0
	1730	,,	1000·3	950·2	..	27·9	23·1	20·8	24·7	67	..	7·4	..	20·5	0	17	13	1	1	0	0	0	5	20	3	1	0
Bijapur . . .	0830	594	1004·3	938·9	—0·8	23·6	22·1	21·2	25·6	87	+10	7·3	+1·2	6·6	0	0	31	0	0	0	0	0	2	29	0	0	0
	1730	,,	1000·8	936·2	..	27·5	23·2	21·0	25·0	69	..	7·3	..	7·1	0	1	30	0	0	0	0	0	0	31	0	0	0
Raichur . . .	0830	400	1004·7	960·4	—0·6	25·1	22·5	21·2	25·2	79	+5	7·2	+2·4	9·0	0	0	31	0	0	0	0	0	18	6	6	0	1
	1730	,,	1001·0	957·4	..	28·1	23·3	20·4	24·1	62	..	7·4	..	10·0	0	2	28	0	0	0	1	0	17	2	10	1	0
Belgaum . .	0830	753	1005·4	922·9	—0·8	21·6	20·8	20·3	24·0	93	+5	7·9	+0·5	8·1	0	0	31	0	0	0	0	0	3	26	2	0	0
	1730	,,	1003·9	921·8	..	22·7	21·4	20·7	24·4	89	..	7·8	..	11·2	0	1	30	0	0	0	0	0	1	17	13	0	0

(a) Mean of 30 days.

Division and Station	Hour of observation IST	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore North—(*Contd.*)																											
Beglaum (Samra)	0530	747	1004·7	922·6	..	21·1	20·2	19·8	22·9	92	..	7·8	..	21·7	0	19	12	0	0	0	0	0	2	29	0	0	0
	0830	,,	1005·8	923·8	..	22·1	20·8	20·1	23·5	88	..	7·6	..	22·0	0	21	10	0	0	0	0	0	3	27	1	0	0
	1130	,,	1005·6	924·1	..	23·7	21·6	20·5	24·1	83	..	7·6	..	23·5	0	26	5	0	0	0	0	0	3	27	1	0	0
	1730	,,	1003·9	922·3	..	22·7	21·0	20·1	23·5	86	..	7·6	..	24·6	0	27	4	0	0	0	0	0	2	28	1	0	0
Gadag	0530	650	1005·0	933·2	..	21·5	20·7	20·3	23·8	93	..	7·7	..	12·1	0	2	28	0	0	0	0	1	7	22	0	1	0
	0830	,,	1005·9	934·3	—0·4	22·7	21·4	20·8	24·4	89	+6	7·8	+1·4	13·7	0	1	30	0	0	0	0	1	6	24	0	0	0
	1130	,,	1005·3	934·4	..	26·0	22·0	20·0	23·5	70	..	7·5	..	15·8	0	6	25	0	0	0	0	0	6	24	1	0	0
	1730	,,	1003·4	932·6	..	25·6	21·7	20·0	23·1	71	..	7·6	..	17·5	0	11	20	0	0	0	0	0	6	25	0	0	0
	2330	,,	1006·7	934·8	..	21·9	21·0	20·5	24·1	92	..	7·3	..	16·0	0	7	23	0	0	0	0	0	10	20	0	1	0
Interior Mysore South																											
Bellary	0830	449	1005·3	955·7	—0·4	26·1	22·7	20·9	24·7	75	+8	6·7	+0·8	17·2	0	10	21	0	0	0	0	0	0	0	31	0	0
	1730	,,	1002·0	953·1	..	28·8	23·6	20·9	24·7	63	..	7·2	..	21·4	0	14	17	0	0	0	0	0	0	1	30	0	0
Chitradurga	0830	733	1006·3	925·9	—0·2	22·3	20·5	19·7	22·8	85	+4	7·6	+0·5	13·6	0	4	27	0	0	0	0	0	23	8	0	0	0
	17.0	,,	1003·6	924·0	..	24·7	21·1	19·3	22·4	72	..	7·8	..	14·4	0	4	27	0	0	0	0	1	6	24	0	0	0
Shimoga	08.0	571	1006·7	943·6	—0·6	23·2	21·5	20·6	24·4	85	—3	8·0	+0·6	8·0	0	0	31	0	0	0	0	1	23	6	1	0	0
	17.0	,,	1004·3	941·5	..	24·3	21·8	20·6	24·4	80	..	7·9	..	5·3	0	0	25	0	0	0	0	3	19	3	0	6	0
Agumbe	08.0	..	..	..	..	21·2	21·1	21·0	25·0	99	..	8·0	..	11·7	0	6	25	0	0	0	0	0	29	2	0	0	0
Balehonnur	08.0	..	..	..	..	19·7	19·3	19·0	22·1	96	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1479·3	903·0	..	20·4	19·4	18·9	21·8	91	+6	7·3	+0·3	5·8	0	0	31	0	0	0	0	0	5	25	1	0	0
	1730	,,	1464·7	901·1	..	22·2	20·0	19·0	21·8	83	..	7·1	..	7·3	0	3	28	0	0	0	0	0	6	24	1	0	0
Bangalore	0230	921	1463·0	905·4	..	20·3	19·2	18·7	21·6	90	..	6·5	..	13·2	0	4	27	0	0	0	0	0	9	22	0	0	0
	0830	,,	1477·0	906·7	—0·4	21·1	19·6	18·8	21·7	86	+1	7·7	+0·6	16·4	0	10	21	0	0	0	0	0	7	22	2	0	0
	1130	,,	1481·8	906·5	..	24·9	20·5	18·1	20·9	66	..	7·3	..	22·5	0	21	10	0	0	0	0	0	6	20	5	0	0
	1730	,,	1464·7	904·6	..	25·1	20·6	18·2	21·0	66	..	7·5	..	19·7	0	17	14	0	0	0	0	0	6	21	4	0	0
Bangalore Aerodrome	0530	897	1461·2	907·9	..	20·1	19·1	18·5	21·4	91	..	6·8	..	16·4	0	3	27	0	0	0	0	0	4	26	0	1	0
	0830	,,	1477·3	909·3	..	21·7	19·7	18·7	21·4	85	..	7·5	..	20·5	0	14	17	0	0	0	0	0	2	29	0	0	0
	1130	,,	1481·2	908·9	..	25·5	20·5	17·8	20·5	63	..	7·4	..	25·7	0	23	8	0	0	0	0	0	3	27	1	0	0
	1730	,,	1462·1	906·9	..	25·5	20·5	17·8	20·5	63	..	7·4	..	23·3	0	19	12	0	0	0	0	0	1	26	1	0	0
	2330	,,	1478·9	909·5	..	21·3	19·4	18·4	21·0	83	..	6·3	..	17·8	0	10	21	0	0	0	0	0	5	26	0	0	0
Mysore	0830	767	1007·8	923·6	0·3	22·2	20·2	19·3	22·2	83	+3	6·0	—0·6	9·9	0	2	29	0	0	0	0	3	14	9	5	0	0
	1730	,,	1005·3	921·9	..	24·1	20·6	18·8	21·7	72	..	6·6	..	14·5	0	8	23	0	1	0	0	1	8	13	8	0	0
Kerala																											
Calicut	0530	5	1008·1	1007·5	..	24·2	23·6	23·2	28·6	94	..	6·4	..	9·8	0	6	15	1	5	6	0	0	1	0	8	10	0
	0830	,,	1009·4	1008·8	—0·1	25·1	24·2	23·8	29·3	92	0	6·3	—0·8	5·9	0	0	23	1	5	8	0	0	0	0	9	8	0
	1130	,,	1009·7	1009·1	..	26·5	24·9	24·2	30·2	88	..	6·7	..	14·0	0	9	20	0	1	1	0	1	3	8	15	2	0
	1730	,,	1007·6	1007·0	..	26·6	25·0	24·2	30·4	87	..	6·5	..	13·9	0	5	24	2	0	0	0	0	1	8	18	2	0
	2330	,,	1010·0	1009·4	..	24·7	23·9	23·5	28·9	93	..	5·9	..	12·3	0	8	14	3	3	0	1	0	0	4	11	9	0
Palghat	0830	97	1009·0	997·9	..	24·6	23·7	23·2	28·6	92	..	7·4	..	10·5	0	0	31	0	0	0	0	0	1	30	0	0	0
	1730	,,	1006·4	995·4	..	25·8	24·0	23·2	28·4	86	..	7·5	..	14·2	0	2	29	0	0	0	0	0	3	28	0	0	0
Fort Cochin	0830	3	1009·7	1009·4	—0·4	25·8	24·5	24·0	29·7	89	+2	7·5	+0·9	5·9	0	1	26	3	6	7	3	0	1	3	4	4	0
	1730	,,	1007·4	1007·1	..	26·4	24·8	24·0	30·0	88	..	7·6	..	10·2	0	2	28	1	1	0	0	0	2	11	15	1	0
Cochin (Naval Air Station)	0230	3	1008.9	1008.6	..	24.6	23.9	23.6	28.9	94	..	6.7	..	3.4	0	1	10	2	3	2	0	0	1	1	2	20	0
	0530	,,	1008.7	1008.4	..	24.3	23.6	23.3	28.6	95	..	6.9	..	4.1	0	0	14	0	1	0	0	2	3	2	6	17	0
	0830	,,	1009.9	1009.6	..	25.5	24.2	23.6	29.3	89	..	6.6	..	5.0	0	1	18	2	3	6	3	0	1	1	3	12	0
	1130	,,	1010.0	1009.7	..	27.3	25.0	23.9	29.7	82	..	7.0	..	10.2	0	1	29	1	0	3	1	1	5	7	12	1	0
	1730	,,	1008.3	1008.0	..	26.6	24.6	23.7	29.3	84	..	7.2	..	11.1	0	0	26	0	1	0	0	0	2	11	12	5	0
	2330	,,	1010.3	1010.0	..	25.1	24.1	23.7	29.1	92	..	6.9	..	4.8	0	1	16	1	0	4	0	1	3	2	6	14	0
Alleppey	0830	4	1009.7	1009.3	0	25.3	24.6	24.3	30.4	94	+3	7.2	0	9.2	0	4	25	2	9	3	3	0	2	5	5	2	0
	1730	,,	1007.8	1007.4	..	26.6	25.2	24.5	30.9	88	..	7.3	..	21.7	0	20	11	0	0	0	0	0	0	10	21	0	0
Punalur	0830	34	1009.7	1005.8	..	24.6	23.9	23.5	28.9	94	..	7.4	..	0.8	0	0	7	2	0	0	0	0	0	1	4	24	0
	1730	,,	1007.4	1003.6	..	26.9	24.4	23.2	28.6	81	..	7.4	..	3.6	0	0	26	3	0	0	0	2	2	8	11	5	0
Trivandrum	0230	64	1008.5	1001.1	..	23.8	23.4	23.1	28.4	96	..	5.4	..	7.0	0	0	28	10	1	0	0	0	0	2	15	3	0
	0530	,,	1008.4	1001.0	..	23.7	23.2	22.9	27.9	95	..	5.9	..	9.9	0	3	25	11	1	0	0	0	0	1	15	3	0
	0830	,,	1009.8	1002.5	—0.1	25.1	23.9	23.4	28.6	90	+3	6.3	—0.5	7.6	0	2	28	5	2	0	0	0	1	3	19	1	0
	1130	,,	1009.6	1002.3	..	27.5	24.6	23.3	28.6	78	..	6.6	..	13.2	0	4	27	5	0	0	0	0	1	3	22	0	0
	1730	,,	1007.7	1000.4	..	26.6	24.3	23.2	28.6	82	..	6.3	..	13.7	0	7	24	1	0	0	0	0	1	4	25	0	0
	2330	,,	1010.1	1002.8	..	24.2	23.4	23.0	28.1	93	..	6.0	..	9.3	0	3	26	8	1	0	0	0	0	1	19	2	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*(Contd.)*																											
Trivandrum (Aerodrome)	0330	8	1009.7	1008.8	..	25.7	24.3	23.6	29.3	88	..	6.4	..	6.6	0	0	28	10	1	0	0	0	0	2	15	3	0
Arabian Sea Islands																											
Amini**	0830	4																									
	1730	,,																									
Minicoy**	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hills Stations excluding Kashmir																											
Dalhousie	0830	1959	1386.9	795.9	+0.8	19.5	17.1	15.6	17.7	80	-6	5.7	+1.2	3.1	0	0	31	0	6	0	14	1	7	0	2	0	1
	1730	,,	1366.6	791.6	..	22.2	18.6	16.8	16.9	74	..	6.3	..	3.2	0	0	31	1	1	1	4	4	11	4	1	0	1
Dharmsala	0830	1211	1554.1	884.4	+7.8	24.2	20.7	18.8	21.8	75	-5	6.1	+0.6	0.6	0	0	9	0	3	3	0	0	1	2	0	22	0
	1730	,,	1553.1	884.0	..	26.6	22.3	20.0	23.4	71	..	6.1	..	1.7	0	0	26	0	1	3	0	3	17	2	0	5	0
Simla	0830	2202	1420.5	776.9	—0.1	18.5	16.4	14.9	17.0	83	+3	5.6	-0.7	2.0	0	0	31	1	3	0	13	2	10	1	1	0	0
	1730	,,	1412.8	776.4	..	19.9	17.8	16.4	19.0	83	..	6.6 (f)	..	2.0	0	0	31	0	7	0	8	2	7	0	7	0	0
Lokpal	0830	..	..	..	..	6.3	5.7	5.1	8.0	93	..	5.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Joshimath	0830	..	..	..	..	20.2	18.1	16.9	19.5	83	..	5.7	..	3.7	0	0	28	4	5	5	1	0	1	5	7	3	0
	1730	..	..	..	..	23.1	19.0	16.9	19.6	70	..	6.7	..	3.1	0	0	25	2	3	0	2	2	3	2	6	6	5
Mussoorie	0830	2042	1420.0	791.3	—1.1	18.8	17.3	16.5	18.3	88	-5	6.7	-0.3	0.8	0	0	9	2	0	0	1	3	2	0	1	22	0
	1730	,,	1401.4	789.8	..	19.7	18.1	17.1	19.6	87	..	6.9	..	1.5	0	0	13	2	1	0	3	5	1	0	1	18	0
Mukteswar (Kumaun)	0830	2311	3100.5	768.5	+0.3	17.5	16.0	15.0	17.4	87	-3	5.5	+1	10.2	0	3	25	1	5	4	1	1	2	10	4	3	0
	1730	,,	3088.9	766.9	..	19.8	17.9	17.0	19.4	85	..	5.8	..	10.2	0	2	26	0	1	2	1	0	4	14	6	3	0
Nainital	0830	1953	1418.7	799.5	—0.1	19.7	17.2	15.7	19.6	80	-6	5.5	+1.4	5.2	0	1	16	1	2	5	5	1	0	2	1	14	0
	1730	,,	1393.3	797.3	—	20.3	18.1	17.1	19.5	79	..	5.9	..	8.3	0	1	30	2	1	10	7	3	0	7	1	0	0
Kalimpong	0830	1209	1465.0	875.5	+2.6	22.6	20.6	19.6	22.8	83	-8	1.9	-4.7	3.0	0	0	31	0	0	0	2	0	0	0	29	0	0
	1730	,,	1467.3	875.7	..	23.2	21.1	20.0	23.4	83	..	2.3	..	3.0	0	0	31	0	0	0	28	0	0	0	3	0	0
Darjeeling	0830	2128	1406.2	782.3	—2.6	18.2	17.3	17.1	19.5	91	+2	6.6	0.5	0.6	0	0	2	0	0	0	0	0	0	0	0	29	2
	1730	,,	1387.8	780.6	..	18.0	17.4	17.2	19.6	93	..	6.0	..	0.7	0	0	4	0	1	0	0	0	1	1	0	27	1
Kohima	0830	1406	1495.1	858.1	..	21.8	19.9	19.0	22.0	85	..	7.2	..	2.1	0	0	31	3	1	1	6	1	3	1	15	0	0
	1730	,,	1449.4	854.4	..	22.7	21.5	20.9	24.7	90	..	6.6	..	1.9	0	0	31	0	1	0	1	0	1	5	23	0	0
Shillong	0830	1500	1444.9	844.8	+0.4	22.4	20.4	19.4	22.5	83	+2	7.2	+0.5	1.0	0	0	9	0	1	1	1	0	3	1	2	22	0
	1730	,,	1424.9	842.9	..	22.3	20.9	20.2	23.7	88	..	7.3	..	0.7	0	0	7	0	1	0	0	1	3	1	1	24	0
Cherrapunji	0830	1313	1436.0	862.6	—0.5	20.6	20.0	19.7	22.9	94	+4	7.0	-0.5	3.5	0	0	31	0	4	7	11	1	8	0	0	0	0
	1730	,,	1434.4	862.1	..	20.9	20.2	19.9	23.2	95	..	6.1	..	3.1	0	0	30	0	1	6	9	4	10	0	0	1	0
Abu	0830	1195	1420.5	872.6	—0.6	20.8	19.8	19.3	22.4	92	+1	6.2	-0.9	3.2	0	0	22	0	2	0	3	5	8	4	0	9	0
	1730	,,	1414.1	871.8	..	23.6	21.2	20.0	23.4	82	..	6.0	..	2.5	0	0	24	0	0	0	3	6	9	5	0	7	1
Aijal	0830	..	..	..	..	22.7	21.4	20.8	24.6	89	..	7.2	..	2.0	0	0	31	0	0	13	1	7	4	5	1	0	0
	1730	..	..	..	..	24.2	22.5	21.7	25.9	85	..	6.1	..	2.0	0	0	31	1	0	3	4	4	3	15	1	0	0
Pachmarhi	0830	1075	1431.8	885.8	—0.4	22.1	20.8	20.0	23.4	89	+1	7.1	0.1	6.6	0	0	31	0	1	1	0	0	0	18	11	0	0
	1730	,,	1410.4	883.4	..	23.8	21.6	20.5	24.1	87	..	7.2	..	6.3	0	0	27	0	1	1	0	1	1	12	11	4	0
Mahabaleshwar	0830	1382	1454.0	857.4	—0.9	17.9	17.9	17.9	20.5	100	+3	8.0	0	12.1	0	0	31	1	0	0	0	0	24	3	3	0	0
	1730	,,	1439.8	856.0	..	18.2	18.2	18.2	20.9	100	..	8.0	..	11.4	0	0	31	0	0	0	0	0	28	1	2	0	0
Mercara	0830	1152	1484.2	883.8	+0.3	18.4	18.3	18.3	20.9	99	+4	7.9	+0.3	15.2	0	7	24	0	0	0	0	0	0	21	10	0	0
	1730	,,	1469.7	882.3	..	18.8	18.5	18.3	21.0	96	..	7.7	..	15.9	0	8	23	0	0	0	0	0	0	21	9	0	1
Ootacamund	0830	2249	1485.2	777.4	0	13.1	12.5	11.9	14.0	92	+3	6.5	—0.6	13.8	0	7	24	0	0	0	0	0	24	7	0	0	0
	1730	,,	1470.0	776.3	..	14.0	12.8	12.2	14.0	88	..	7.3	..	12.7	0	4	27	0	0	0	0	0	19	12	0	0	0
Coonoor (R)	0830	1747																									
Kodaikanal	0830	2343	3130·7	769·4	+0·5	13·7	12·1	10·9	13·1	84	+7	6·8	+1·0	16·9	0	11	20	1	0	0	0	1	0	14	15	0	0
	1130	,,	3137·6	769·6	..	15·8	13·6	12·1	14·0	79	..	7·5	..	15·5	0	7	23	4	0	0	0	1	0	7	18	1	0
	1730	,,	3116·1	768·1	..	13·8	12·8	12·1	14·0	89	..	7·4	..	17·0	0	13	18	2	0	0	0	0	0	10	19	0	0
Nepal																											
Katmandu	0830	1324	1427·5	860·3	..	23·3	21·1	20·1	23·4	82	..	6·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1424·1	859·9	..	26·3	22·3	20·3	24·0	71	..	6·7	..	0·4	0	0	2	0	0	0	1	1	0	0	0	29	0
	1730	,,	1402·0	857·3	..	24·6	22·3	21·2	25·3	82	..	7·4	..	0·2	0	0	2	0	0	0	1	0	0	0	1	29	0

(f) Mean of 25 days.

** Data given as addenda in December, 1962 issue.

(R)—Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sikkim																											
Lachen	0830	..	..	..	..	16·2	14·9	14·4	16·5	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological observatories Damodar Catchment																											
Tilaiya	0830	..	..	..	..	28·4	25·2	23·7	29·4	77	..	6·4	..	11·8	0	3	27	1	0	14	1	1	1	8	3	1	1
	1730	..	..	..	..	29·6	25·8	24·2	30·1	75	..	6·5	..	10·9	0	2	29	1	3	13	4	2	2	4	2	0	0
Hazaribagh	0830	615	998·1	931·3	..	26·3	24·1	23·2	28·4	83	..	6·7	..	6·7	0	0	30	0	0	9	3	0	5	3	10	1	0
	1730	,,	995·0	928·8	..	27·2	24·2	22·9	27·9	78	..	6·2	..	5·8	0	0	28	0	1	11	5	1	5	4	1	3	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	6·4	..	8·9	0	3	28	0	1	16	4	0	0	10	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	6·8	..	7·7	0	0	31	0	0	19	3	0	0	9	0	0	0
Bokaro	0830	242	999·3	972·7	..	29·1	26·2	24·8	31·7	79	..	6·8	..	4·6	0	0	27	0	6	0	12	0	4	0	5	4	0
	1730	,,	995·9	969·8	..	30·8	27·9	26·8	36·6	80	..	7·0	..	7·5	0	0	30	2	5	3	1	1	9	5	4	1	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	6·5	..	6·6	0	0	30	0	1	17	3	2	0	6	1	1	0
	1730	..	..	..	..	..	..	..	..	..	..	5·0	..	10·1	0	0	31	0	0	4	21	3	2	1	0	0	0
Ramgarh	0830	..	..	..	..	28·5	25·7	24·4	30·6	79	..	5·9	..	2·5	0	0	24	3	7	4	0	0	2	7	1	7	0
	1730	..	..	..	..	30·0	26·2	24·4	30·6	74	..	6·7	..	2·4	0	0	24	1	7	2	2	2	4	3	3	7	0
Panchet Hill	0830	..	..	..	..	29·3	26·5	25·3	32·3	79	..	7·8	..	6·4	0	1	29	0	2	1	15	0	9	1	2	1	0
	1730	..	..	..	..	30·1	26·7	25·1	32·2	74	..	7·9	..	5·7	0	0	26	0	3	4	11	0	4	3	1	5	0
Durgapur	0830	..	..	..	..	28·7	26·5	25·4	32·9	84	..	6·1	..	7·5	0	0	31	3	0	1	6	16	4	0	1	0	0
	1730	..	..	..	..	30·3	27·0	25·6	33·0	77	..	5·0	..	6·8	0	0	31	0	1	2	6	16	1	2	3	0	0
Mahanadi Catchment																											
Ginabdhar	0830	..	..	..	..	26·8	24·3	23·1	28·3	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	999·3	981·6	..	27·3	25·1	24·2	30·2	84	..	7·2	..	3·8	0	0	29	0	1	1	0	1	6	15	4	2	1
	1130	,,	998·9	981·4	..	29·2	25·9	24·6	30·9	77	..	7·1	..	3·9	0	0	30	1	2	0	0	0	8	14	5	1	0
	1730	,,	996·5	978·9	..	29·1	25·9	24·5	30·7	77	..	7·2	..	3·6	0	0	26	2	1	1	1	0	6	8	7	5	0
Bhimkund	0830	..	..	..	..	27·0	24·5	23·3	28·6	81	..	6·8	..	5·1	0	1	23	2	8	0	2	0	6	1	5	7	0
	1730	..	..	..	..	28·1	25·0	23·7	29·3	77	..	6·9	..	6·3	0	1	24	3	1	1	3	1	11	3	2	6	0
Sonepur	0830	..	..	..	..	27·2	25·2	24·3	30·4	85	..	..	..	7·3	0	0	31	1	1	0	0	1	22	5	1	0	0
Khijrawan	0830	..	..	..	..	26·2	23·9	22·7	27·7	82	..	7·0	..	11·6	0	0	31	0	0	0	1	1	4	22	3	0	0
	1730	..	..	..	..	26·6	23·9	22·5	27·7	79	..	6·9	..	11·0	0	4	27	2	1	1	0	1	15	10	1	0	0
Narmada Catchment																											
Bagre Tawa	0830	..	..	..	..	27·0	24·2	22·9	27·7	80	..	6·7	..	9·9	0	0	28	0	1	0	0	1	23	2	1	3	0
	1730	..	..	..	..	28·8	24·4	22·3	26·7	71	..	7·5	..	8·7	0	0	27	0	1	0	0	3	18	2	2	4	1
Panasa	0830	..	..	..	..	27·0	24·6	23·4	28·6	82	..	..	..	11·3	0	2	29	1	0	1	0	2	15	12	0	0	0
	1730	..	..	..	..	29·5	25·1	22·9	27·7	72	..	..	..	9·2	0	0	29	2	0	1	1	1	10	12	2	2	0
Thikri	0830	..	..	..	..	27·7	25·2	24·0	29·7	82	..	7·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	27·5	23·7	21·7	26·3	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	31·3	25·3	22·6	27·3	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomsom	0830	..	..	..	..	20·0	15·3	12·7	11·7	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·4	15·0	12·6	14·6	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kindi Bazar	0830	..	..	..	..	25·4	23·3	22·5	27·3	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·7	24·2	23·3	28·6	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tansen	0830	..	..	..	..	21·2	19·2	18·2	20·9	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·6	19·9	18·7	21·6	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	25·1	23·2	22·4	26·9	85	..	6·3	..	2·1	0	0	16	1	0	1	6	3	3	0	2	15	0
	†1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·3	24·0	22·6	27·3	77	..	5·6	..	4·3	0	0	24	3	1	1	13	3	0	0	3	7	0
Gorkha*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nawakot	0830	..	..	..	..	24·7	23·2	22·5	27·3	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·3	23·7	22·6	27·4	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh	0830	..	..	..	..	23·2	21·5	20·7	24·4	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·0	22·4	21·2	25·2	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Date not reliable.

†Date not available.

Division and Station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(*Contd.*)																											
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	..	(c) 19·7	(c) 18·8	(c) 18·4	(c) 21·0	(c) 93	..	(k) 6·4	..	(k) 4·0	..	..	..	0	4	4	5	0	1	0	1	5	0
	*1730	..	..	..	..	20·7	19·7	19·2	22·2	91	..	6·7	..	5·1	..	..	..	1	1	0	3	0	3	0	7	5	0
Sallayana	0830	..	..	..	..	22·7	20·9	20·0	23·4	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·3	21·2	20·1	23·5	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	29·4	26·4	25·1	31·9	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30·2	27·4	26·3	34·2	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu†	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chantara	0830	..	..	..	..	21·5	20·5	20·1	23·5	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·5	21·2	20·2	23·7	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepna	0830	..	..	..	..	20·0	18·5	18·0	20·6	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·5	19·0	18·5	21·3	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walung Chung Gola	0830	..	..	..	..	14.7	12.9	11.8	13.8	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	13.5	12.9	12.6	14.6	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	22.6	20.2	19.0	22.0	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22.4	20.8	20.0	23.4	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	21.2	20.0	19.5	22.7	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20.8	20.0	19.6	22.8	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	21.1	19.6	18.9	21.8	88	..	7.1	..	..	..	..	..	1	0	0	0	2	3	1	0	24	0
	1130	..	..	..	..	22.9	20.7	19.6	22.9	82	..	6.8	..	..	..	..	..	3	1	1	0	2	3	7	4	10	0
	1730	..	..	..	..	21.7	19.9	19.1	22.1	86	..	6.8	..	..	..	..	..	0	0	0	0	2	11	2	1	15	0
Okhaldhnuga	0830	..	..	..	..	20.7	(a) 19.7	(a) 19.2	(a) 22.2	(a) 91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	††1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20.8	19.5	18.9	21.8	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	22.6	21.3	20.7	24.4	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23.0	21.8	21.2	25.2	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	23.8	22.5	21.9	26.3	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	(b) 25.0	21.8	(b) 20.3	(b) 23.8	(b) 74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1000.3	984.1	..	28	25.8	24.8	31.5	84	..	6.1	..	3.2	0	0	30	3	7	1	2	0	9	3	5	1	0
	1130	..	999.6	983.8	..	30.1	26.6	25.2	31.9	76	..	6.3	..	5.3	0	0	31	0	1	2	1	1	23	0	3	0	0
	1730	..	996.9	980.8	..	30.0	26.9	25.8	33.0	80	..	6.2	..	3.4	0	0	28	0	3	1	1	0	19	0	4	3	0
Tista Catchment																											
Gangtok	0830	1812	1434.0	813.9	..	19.6	18.7	18.3	21.0	93		7.1	..	1.7	0	0	25	5	9	2	3	5	1	0	0	6	0
	1130	..	1428.9	813.7	..	21.9	20.1	19.4	22.2	86	..	6.6	..	3.0	0	0	29	0	2	0	6	9	10	1	1	2	0
	1730	..	1410.5	811.9	..	21.2	19.7	19.0	22.0	88	..	7.0		2.0	0	0	22	1	2	0	6	6	5	1	1	9	0
Gezing	830	..	..	..	..	21.3	20.3	19.9	23.2	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22.3	20.5	19.7	22.9	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Observations for 20 days.
(a) Mean of 30 days.
† Data included under 'Nepal'.
(b) Mean of 29 days.
(c) Mean of 28 days.
††Data not reliable.
(k) Mean of 20 days.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 13 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

S. No.	Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate time of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28thNovember, 1951	0530		1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2230
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st Apirl, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530		1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon +	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530		1730	
21.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
22.	Dibrugarh/Mohonbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
23.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530 *	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
48.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
49.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
50.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
51.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
52.	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
53.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

* Radio wind ascents.

@ Radiosonde ascents followed by optical theodolite.

\+ Naval Meteorological Office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	AGARTALA												AHMADABAD											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	1·9	142	31	2·6	1·7	183	31	2·5	2·1	149	30	3·3	2·0	232	31	4·1	2·5	230	30	4·2	2·9	228
0·15 a.g. .	27	6·8	6·3	149	30	5·7	4·5	181	28	6·7	5·8	161	30	7·0	4·8	237	29	5·9	4·1	230	30	6·5	4·5	239
0·3 a.m.s.l. .	27	8·7	8·0	162	30	6·8	5·5	180	30	8·6	7·7	170	30	7·6	4·9	236	29	6·0	4·2	233	30	6·7	4·6	237
0·6 ,, .	27	9·4	8·4	169	30	7·3	6·6	177	28	9·4	8·7	179	30	9·4	6·8	252	26	6·9	5·2	243	30	7·6	5·4	238
0·9 ,, .	26	8·5	7·4	175	28	7·8	7·2	174	28	8·7	8·0	181	30	10·0	7·3	259	24	8·0	5·8	246	30	8·5	6·3	245
1·5 ,, .	21	8·0	5·8	167	27	8·2	7·4	170	25	7·4	6·5	175	30	8·6	5·9	247	13	8·9	5·6	233	30	8·2	6·0	250
2·1 ,, .	19	6·8	4·9	163	21	7·2	6·5	158	21	6·8	5·6	172	30	7·7	3·8	243	6	7·5	4·5	153	30	8·0	4·4	245
3·0 ,, .	15	5·6	3·5	152	16	7·2	5·4	142	17	6·7	5·3	169	30	7·3	1·7	314	3	11·2	10·9	128	30	7·7	1·3	331
3·6 ,, .	7	6·4	4·4	141	16	7·0	4·5	136	3	3·7	2·6	202	29	6·9	2·0	021	1	6·5	6·5	110	29	7·4	1·0	332
4·5 ,, .	2	7·3	6·9	104	11	5·6	3·9	126	1	4·5	4·5	260	29	7·8	3·5	041					29	6·5	1·5	073
5·4 ,, .	1	12·0	12·0	105	4	10·4	8·3	090					28·	6·9	3·1	066					29	6·2	2·6	081
6·0 ,, .	1	12·0	12·0	125	4	11·5	9·2	092					28	7·1	4·9	089					29	5·6	2·4	088
7·2 ,, .					1	11·0	11·0	070					27	7·5	6·0	093					28	6·9	4·4	103
9·0 ,, .													22	8·6	7·4	094					24	9·5	8·5	094

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·4	2·2	225	31	0·9	0·4	086	31	1·6	0·2	027	31	1·5	0·7	063	31	1·2	0·5	120	31	2·1	1·0	130
0·15 a.g. .	28	7·8	5·7	228	30	5·9	0·6	294	28	5·2	1·0	096	31	4·8	1·3	057	31	6·4	1·6	115	29	6·8	4·6	115
0·3 a.m.s.l. .	28	8·7	6·4	230	30	5·8	0·6	292	28	5·4	1·3	100	31	4·8	1·3	057	31	6·5	1·5	110	29	3·4	2·2	107
0·6 ,, .	28	10·1	7·9	235	30	6·4	0·5	075	25	5·8	1·8	093	31	5·2	1·1	058	31	7·4	1·4	100	29	7·9	4·5	137
0·9 ,, .	26	9·9	7·5	242	30	6·3	0·5	016	26	6·9	1·6	094	31	5·7	1·7	060	31	7·5	2·0	125	29	8·0	3·7	147
1·5 ,, .	23	8·6	6·2	238	29	5·9	1·4	049	21	6·5	2·6	084	31	5·8	1·7	077	26	5·7	2·2	110	25	7·1	1·1	164
2·1 ,, .	17	5·4	1·7	177	29	5·5	1·9	080	15	7·8	2·0	093	31	5·8	1·5	093	22	6·1	2·1	110	23	6·7	0·8	326
3·0 ,, .	11	5·4	3·5	072	29	6·5	2·9	078	11	8·5	2·6	055	31	6·2	1·5	097	11	5·8	2·0	035	20	6·2	1·8	294
3·6 ,, .	2	9·0	8·2	089	28	6·6	3·2	078	9	8·2	1·5	080	31	6·5	2·5	080	3	4·5	3·2	355	16	6·6	2·2	318
4·5 ,, .					26	7·2	3·8	086	7	7·2	1·2	081	31	6·0	2·6	081	1	1·5	1·5	360	10	6·2	0·9	128
5·4 ,, .					23	6·8	4·5	095	4	4·5	0·8	063	31	5·8	3·8	081	1	3·0	3·0	035	5	4·8	3·7	271
6·0 ,, .					23	6·9	5·0	096	4	6·0	1·7	055	31	6·6	5·2	088					3	4·1	3·9	269
7·2 ,, .					22	7·4	6·4	100	2	3·0	2·4	015	31	7·0	5·6	094								
9·0 ,, .					16	8·5	7·8	098	1	4·0	4·0	075	23	7·9	6·6	093								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	AMBALA												ANANTAPUR											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·8	1·2	132	31	1·8	0·7	108	31	1·7	1·2	127	31	4·6	4·4	267	31	8·0	7·5	268	31	6·1	6·0	268
0·15 a.g. .	29	4·3	2·3	123	31	4·7	1·2	127	30	6·7	2·3	145	31	8·7	8·5	253	30	14·0	13·2	265	29	10·6	10·5	257
0·3 a.m.s.l. .	29	2·8	1·7	123	31	3·2	0·8	115	30	3·3	2·1	112												
0·6 ,, .	29	5·2	3·9	129	31	4·3	0·5	103	30	6·7	3·7	134	31	10·3	10·1	255	30	12·7	12·3	261	29	11·0	10·0	257
0·9 ,, .	29	6·0	3·7	132	31	4·5	0·4	163	30	6·2	3·2	137	31	14·3	14·1	267	30	13·0	12·6	264	29·	13·7	13·6	263
1·5 ,, .	25	6·2	1·4	137	30	5·5	1·3	282	29	5·3	1·8	175	29	16·4	16·0	274	29	14·4	14·3	269	29	16·3	16·1	275
2·1 ,, .	23	6·2	0·3	018	29	6·7	2·5	286	29	6·1	1·5	256	22	15·3	15·0	282	22	13·6	13·2	275	23	13·5	12·9	281
3·0 ,, .	17	6·1	2·1	336	27	6·8	3·7	300	19	6·8	3·2	308	14	10·6	10·3	282	7	12·1	11·9	275	11	11·8	11·0	277
3·6 ,, .	10	6·7	1·1	068	20	6·3	1·2	300	10	5·7	1·7	313	10	6·4	6·1	269	5	11·8	11·1	283	5	6·1	6·0	274
4·5 ,, .	3	7·0	3·2	148	12	5·5	1·6	256	4	5·0	4·2	298	8	4·7	4·5	254	3	10·8	10·6	273	1	2·5	2·5	305
5·4 ,, .	2	4·7	2·5	278	5	4·7	3·4	241					2	3·7	3·3	311	1	10·0	10·0	320	1	3·5	3·5	285
6·0 ,, .	2	5·0	3·3	301	5	5·7	4·3	277									1	8·0	8·0	325	1	5·0	5·0	320
7·2 ,, .	1	7·0	7·0	225	2	12·0	11·6	230																
9·0 ,, .	1	5·0	5·0	230	2	11·0	10·3	253																

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·3	0·9	119	31	1·6	1·3	127	31	1·5	1·2	140	31	3·6	3·1	257	31	6·5	5·5	262	31	5·0	4·1	261
0·15 a.g. .	29	4·3	1·6	160	31	5·1	2·5	141	25	6·3	4·4	140	30	7·6	6·7	255	27	9·8	8·6	262	29	9·1	7·5	255
0·3 a.m.s.l. .	29	4·5	1·3	171	31	5·2	2·7	144	25	7·0	4·7	146												
0·6 ,, .	29	5·9	1·2	182	31	6·2	3·3	137	25	8·6	5·9	157												
0·9 ,, .	28	5·9	0·7	196	29	6·4	3·3	128	23	8·5	6·0	155	30	10·1	9·2	261	27	11·3	10·1	266	29	11·6	9·8	257
1·5 ,, .	26	5·9	0·8	137	28	6·3	4·1	129	19	7·0	5·1	140	26	41·1	12·8	262	27	12·1	10·6	269	28	14·3	12·4	258
2·1 ,, .	20	5·2	1·1	112	27	6·1	4·2	123	17	6·8	5·1	113	17	13·1	11·3	254	15	9·9	7·7	267	19	11·6	9·1	255
3·0 ,, .	19	5·4	2·1	087	21	5·1	2·8	107	13	6·8	5·0	118	6	6·4	1·5	255	4	4·6	2·8	288	9	7·1	4·6	256
3·6 ,, .	15	4·0	1·1	094	18	5·4	3·0	108	9	5·4	3·2	120	5	5·8	1·4	163	1	3·0	3·0	305	5	5·3	1·5	190
4·5 ,, .	11	4·0	1·5	097	12	6·2	4·2	119	6	4·9	3·3	091												
5·4 ,, .	1	8·5	8·5	075	5	5·2	2·2	111	3	6·0	0·2	154												
6·0 ,, .					4	4·1	2·7	129	2	5·5	0·6	249												
7·2 ,, .					2	5·7	5·3	120	2	6·0	1·3	345												
9·0 ,, .																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	BAHRAICH								BANGALORE															
Time in I.S.T.	0530				1730				0530@				1130				1730@				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·7	1·6	088	31	2·0	1·3	098	31	3·7	3·5	259	31	6·0	5·5	264	31	5·4	5·2	265	31	4·3	4·1	265
0·15 a. g. .	28	7·1	6·4	105	31	5·1	3·5	110	8	8·2	8·1	259	27	9·2	9·0	261	30	8·7	8·5	257	22	8·2	8·0	259
0·3 a.m.s.l. .	28	7·8	7·2	109	31	5·4	3·7	113																
0·6 ,, .	27	9·5	7·9	117	31	6·8	4·9	115																
0·9 ,, .	27	9·1	6·7	114	31	7·3	5·5	114																
1·5 ,, .	23	8·5	5·3	102	31	7·8	4·2	107	7	13·0	12·9	272	27	11·6	11·4	267	30	11·5	11·3	266	22	12·0	11·9	271
2·1 ,, .	20	8·3	3·3	078	30	7·9	3·0	095	6	13·3	13·2	286	16	12·2	12·1	273	27	12·5	12·2	273	20	12·4	12·1	279
3·0 ,, .	19	8·0	2·6	080	28	7·9	2·8	072	6	11·2	11·0	298	1	12·5	12·5	090	16	12·1	11·7	282	17	10·1	10·0	284
3·6 ,, .	18	7·0	2·5	086	26	6·9	2·3	072	5	11·5	11·2	295					14	10·1	9·8	285	11	7·5	7·3	279
4·5 ,, .	16	5·7	2·3	088	22	7·4	2·5	077	4	10·0	10·0	277					9	9·1	8·9	282	5	6·2	6·0	281
5·4 ,, .	10	4·5	1·8	131	21	6·1	1·9	102	4	7·5	7·4	268					8	8·2	8·0	285	1	8·0	8·0	260
6·0 ,, .	7	4·2	1·1	155	20	6·5	2·1	099	4	6·6	6·5	280					7	7·3	7·2	286				
7·2 ,, .	4	4·4	1·9	207	18	6·2	1·7	128	3	6·3	6·0	317					6	4·3	3·1	293				
9·0 ,, .	2	5·7	5·7	250	9	6·8	3·4	225									3	3·8	3·1	057				

Station	BAREILLY								BEGAMPET												BHAGALPUR			
Time in I.S.T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·7	1·5	090	31	1·9	0·8	099	31	4·8	4·5	265	31	5·5	5·2	269	31	5·4	5·1	261	31	2·1	1·5	111
0·15 a.g. .	29	6·3	4·9	103	30	4·8	2·1	112	27	7·9	7·6	262	29	8·8	8·4	267	25	9·1	8·7	262	28	5·1	3·7	126
0·3 a.m.s.l. .	29	5·9	4·7	098	30	4·7	2·1	108													28	5·6	3·7	132
0·6 ,, .	28	8·0	5·1	126	30	5·6	2·6	120	27	6·9	6·7	261	29	7·7	7·3	268	25	6·4	6·2	260	28	5·9	3·9	132
0·9 ,, .	27	7·9	4·3	122	30	6·0	2·6	126	27	12·3	12·0	273	29	9·8	9·5	270	25	11·0	10·7	269	28	5·8	3·8	118
1·5 ,, .	25	7·0	2·8	108	28	6·5	1·9	124	25	17·2	16·9	280	29	12·5	12·1	275	24	14·3	13·7	276	25	5·7	4·0	107
2·1 ,, .	23	7·7	2·1	094	25	6·7	0·6	143	21	16·0	15·9	285	28	13·4	13·0	282	24	14·9	14·5	283	23	5·7	3·6	104
3·0 ,, .	16	6·5	1·1	063	20	7·1	0·4	260	18	12·2	11·9	292	16	14·5	13·8	285	13	10·7	9·3	297	22	5·7	3·1	105
3·6 ,, .	15	6·5	1·2	118	15	7·3	0·8	317	13	9·1	8·5	288	12	14·8	13·0	291	7	6·4	4·5	285	19	5·7	4·2	117
4·5 ,, .	8	5·2	0·3	026	12	8·0	0·8	103	7	7·1	5·1	295	2	12·0	10·3	295					13	4·4	3·8	125
5·4 ,, .	5	5·9	0·5	257	11	8·2	1·2	167	2	5·5	3·0	285									11	4·4	3·5	118
6·0 ,, .	4	5·0	3·4	176	10	8·3	1·8	222													11	4·9	3·7	106
7·2 ,, .	3	6·8	3·9	190	6	9·3	5·3	203													7	5·6	5·2	180
9·0 ,, .	1	12·0	12·0	130	1	10·0	10·0	175													3	7·7	7·3	089

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	BHAGALPUR				BHOPAL/BAIRAGARH												BHUBANESHWAR							
Time in I.S.T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·3	1·8	097	31	4·4	3·7	267	31	4·8	3·5	276	31	4·0	3·0	247	31	2·0	0·8	224	30	4·4	2·4	206
0·15 a.g. .	31	5·4	3·8	099	23	8·7	7·2	267	25	6·5	4·9	266	23	8·4	6·8	247	28	6·5	3·8	240	28	7·0	3·5	213
0·3 a.m.s.l. .	31	5·7	4·3	102													28	7·9	4·8	254	28	6·8	2·9	223
0·6 ,, .	31	6·2	4·7	116	23	7·3	6·1	262	25	5·8	4·0	266	23	7·0	5·6	241	28	8·1	5·6	264	28	6·9	2·6	238
0·9 ,, .	30	6·0	4·5	124	23	11·0	9·0	276	24	7·2	5·1	267	23	10·0	7·9	259	26	8·0	6·4	280	24	6·6	2·4	308
1·5 ,, .	26	5·5	4·0	134	15	9·3	7·5	285	19	5·7	3·5	275	19	8·8	7·1	264	20	6·9	5·6	293	16	5·9	4·0	324
2·1 ,, .	23	4·9	3·0	131	11	4·2	1·6	016	13	5·5	1·7	320	11	4·7	1·0	177	16	6·2	3·9	280	14	5·6	3·6	348
3·0 ,, .	18	5·3	3·4	110	8	5·6	4·2	094	9	5·0	1·7	073	7	5·3	4·2	096	10	6·9	2·9	249	7	4·9	2·7	058
3·6 ,, .	15	4·7	2·8	101	4	5·9	5·4	121	5	6·7	2·8	073	3	7·5	6·5	092	8	6·0	1·6	089	4	4·9	1·8	110
4·5 ,, .	14	5·2	3·3	093	3	6·5	6·3	125	1	3·0	3·0	110	1	7·0	7·0	120	3	7·7	6·0	132	2	7·5	7·1	094
5·4 ,, .	12	5·3	3·7	091	1	6·0	6·0	125					1	9·0	9·0	130	3	8·3	6·3	132	1	6·0	6·0	040
6·0 ,, .	9	7·2	3·1	100	1	6·5	6·5	135									3	9·0	6·3	138				
7·2 ,, .	2	5·3	5·3	108	1	8·5	8·5	125									1	8·5	8·5	085				
9·0 ,, .	1	2·5	2·5	100	1	13·5	13·5	120									1	9·0	9·0	085				

Station	BHUBANESHWAR				BHUJ/RUDRAMATA												BIKANER							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·1	1·6	219	31	4·3	1·8	227	31	6·8	4·5	245	31	6·4	4·6	232	31	1·2	1·1	220	31	1·3	0·9	200
0·15 a.g. .	30	7·3	5·0	235	31	6·8	4·3	240	30	10·3	6·5	231	30	8·6	6·2	230	29	10·1	6·2	134	31	5·5	3·7	215
0·3 a.m.s.l. .	30	7·9	5·2	248	31	7·8	4·7	239	30	11·2	7·0	235	30	9·7	4·1	233	29	6·1	4·7	224	30	5·5	4·1	215
0·6 ,, .	30	8·0	5·1	255	29	10·4	6·9	251	30	10·6	6·7	236	30	11·7	8·0	232	29	10·3	7·6	244	30	5·3	3·6	217
0·9 ,, .	30	7·7	4·6	258	24	10·5	5·8	254	26	10·8	5·7	235	26	11·4	6·4	226	29	9·1	6·6	250	30	5·3	3·1	225
1·5 ,, .	25	6·8	4·0	287	15	8·3	4·0	210	18	8·4	1·0	203	24	8·8	2·0	184	26	5·7	2·4	265	29	5·1	1·8	235
2·1 ,, .	14	5·0	3·2	282	9	5·7	3·0	100	10	8·9	2·0	089	21	7·2	2·4	083	25	4·7	1·5	042	26	5·0	1·0	285
3·0 ,, .	11	5·3	1·6	357	6	6·7	4·9	056	4	10·1	7·8	096	15	8·4	6·1	084	25	5·9	2·8	062	20	6·6	1·9	005
3·6 ,, .	5	4·7	0·8	252	4	8·1	6·9	122	3	11·0	9·7	083	8	8·6	7·0	086	20	5·6	2·9	075	11	5·7	4·8	333
4·5 ,, .	2	2·5	2·3	072	3	7·7	6·5	335	2	7·0	6·9	081	6	6·2	4·2	073	16	5·1	2·3	058	7	5·9	5·0	325
5·4 ,, .	2	3·0	3·0	110	3	4·4	2·9	328	1	2·0	2·0	095	3	7·7	5·6	081	9	5·8	1·2	205	7	7·3	4·6	290
6·0 ,, .	2	5·5	5·5	095	3	3·2	1·0	173	1	5·0	5·0	190	3	7·5	4·5	048	7	7·4	6·1	230	7	8·6	5·7	265
7·2 ,, .	1	2·0	2·0	085	3	5·7	2·1	154									4	7·3	7·1	230	3	17·2	16·8	234
9·0 ,, .					1	3·5	3·5	250									2	4·9	3·7	135				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	BIKANER				BOMBAY/SANTACRUZ																CALCUTTA/DUM DU			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	0·8	192	31	5·9	4·9	269	31	5·5	4·6	253	31	6·8	6·4	257	31	5·3	4·3	249	31	1·9	1·2	149
0·15 a.g. .	27	8·5	5·2	205	30	9·3	8·7	255	27	8·1	7·2	243	29	9·4	9·0	253	29	8·8	8·0	233	31	5·4	2·8	162
0·3 a.m.s.l. .	27	6·3	3·7	200	30	9·7	9·1	254	27	9·8	9·1	248	29	9·7	6·2	247	29	9·4	8·6	237	31	5·9	3·2	167
0·6 ,, .	27	9·5	6·2	211	30	10·5	9·8	254	24	11·4	10·6	254	29	9·8	9·2	255	27	10·5	9·9	242	31	6·4	3·5	168
0·9 ,, .	27	9·0	5·7	213	30	10·8	10·2	260	18	11·6	11·1	258	27	11·2	11·0	260	20	10·6	10·1	251	31	6·3	3·1	168
1·5 ,, .	27	6·8	3·9	238	30	11·7	10·5	261	12	11·6	10·6	254	27	11·6	10·8	259	8	9·3	8·5	248	31	6·4	3·4	151
2·1 ,, .	20	4·7	1·5	055	30	11·1	10·1	260	7	12·8	12·0	254	27	10·9	9·7	255	4	6·8	4·0	237	31	6·4	3·3	142
3·0 ,, .	17	6·0	4·1	049	30	9·1	7·5	260	1	9·0	9·0	270	27	10·5	9·5	259	1	3·0	3·0	085	31	6·3	2·6	127
3·6 ,, .	9	6·6	4·3	045	30	9·3	6·8	270					27	9·0	7·3	269	1	3·5	3·5	085	31	6·0	3·1	132
4·5 ,, .	6	6·6	2·5	060	30	8·5	4·1	276					27	7·9	5·2	280					31	6·4	4·0	127
5·4 ,, .	3	5·0	5·0	044	28	7·3	3·2	302					27	7·8	3·3	272					31	7·5	5·4	129
6·0 ,, .	2	3·7	3·7	056	27	6·7	1·7	355					27	7·7	2·7	270					31	8·1	6·5	118
7·2 ,, .					27	6·8	1·9	054					27	6·2	1·5	060					31	8·2	6·8	103
9·0 ,, .					26	8·9	7·3	080					24	9·1	8·1	082					29	11·3	10·5	097

Station	CALCUTTA/DUM DUM												COCHIN/WILLINGDON†											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·6	1·4	140	31	2·5	2·2	171	31	1·9	1·6	151	31	1·5	0·8	314	31	2·8	2·5	301	31	1·7	0·6	306
0·15 a.g. . .	31	4·9	2·9	158	31	5·9	4·8	175	31	6·3	4·2	170	23	3·9	2·7	288	25	5·7	5·1	288	19	3·9	3·2	301
0·3 a.m.s.l. .	31	5·3	3·3	157	31	6·2	4·7	174	31	8·1	5·4	182	23	5·9	5·2	291	25	7·2	6·7	289	19	5·2	4·7	296
0·6 ,, .	29	6·0	3·9	152	31	6·7	4·9	173	31	9·1	6·3	186	23	9·2	8·7	288	25	10·5	9·9	286	19	8·1	7·7	297
0·9 ,, .	26	6·9	4·5	153	31	6·9	4·8	167	31	8·4	5·8	180	23	11·6	11·1	290	24	12·0	11·5	291	19	10·4	9·9	296
1·5 ,, .	15	6·2	3·6	156	31	6·1	3·5	156	29	7·7	4·6	169	21	13·0	12·7	294	21	13·3	13·0	300	16	13·0	12·7	295
2·1 ,, .	10	5·9	3·2	124	31	5·9	3·1	144	24	6·5	4·4	150	9	12·2	12·0	291	16	13·5	13·2	299	8	12·4	12·3	293
3·0 ,, .	6	5·2	1·2	114	31	6·6	3·6	121	20	6·3	4·5	138	3	11·2	11·0	288	5	10·4	10·2	300				
3·6 ,, .	4	8·1	4·5	110	31	6·9	3·6	119	5	4·4	2·0	165	1	12·5	12·5	300	1	11·0	11·0	305				
4·5 ,, .					31	6·9	3·9	123	1	0·5	0·5	260												
5·4 ,, .					31	7·9	4·8	100																
6·0 ,, .					30	7·9	6·3	097																
7·2 ,, .					30	12·7	7·6	092																
9·0 ,, .					27	12·0	10·9	092																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	DARJEELING								DEHRADUN								DIBRUGARH/MOHANBARI							
Time in I. S. T.	0530				1730				0530				1730				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·0	0·0	calm	31	0·1	0·1	225	31	0·4	0·3	026	31	0·6	0·3	259	31	0·9	0·6	054	31	1·0	0·5	058
0·15 a. g.	6	2·3	1·8	080	3	1·5	1·3	191	28	1·6	0·4	044	27	2·5	1·1	268	25	4·0	2·7	063	30	2·8	1·0	057
0·3 a.m.s.l.																	25	4·2	2·6	073	30	2·5	0·8	062
0·6 ,,																	25	4·0	1·2	083	29	2·2	0·6	120
0·9 ,,									28	1·5	0·2	117	27	2·5	0·9	257	25	4·1	1·0	190	28	2·6	1·3	183
1·5 ,,									26	3·4	0·7	208	25	2·8	1·6	256	21	4·0	1·5	197	20	3·4	2·5	199
2·1 ,,									22	4·4	0·4	216	22	4·3	1·8	272	14	4·2	1·6	178	18	3·4	2·2	192
3·0 ,,	6	3·7	3·5	089	3	2·7	2·7	081	12	6·0	0·1	230	16	4·6	0·7	237	10	2·9	2·3	201	12	3·6	1·8	150
3·6 ,,	5	4·7	4·6	097	3	5·8	5·7	102	11	5·4	0·7	186	14	4·6	0·2	229	8	3·0	2·5	206	7	4·0	2·7	171
4·5 ,,	4	4·1	3·8	115	2	3·7	3·6	111	7	3·8	1·7	253	11	4·4	2·2	085	7	3·3	2·3	195	2	4·7	4·7	240
5·4 ,,	3	4·0	3·3	111					6	5·8	4·6	227	9	4·3	0·2	260	2	1·7	1·7	270	2	4·5	4·5	245
6·0 ,,	2	5·3	4·7	089					4	7·9	7·0	228	6	6·6	5·2	262					1	8·0	8·0	235
7·2 ,,									1	17·5	17·5	230	4	11·3	8·4	228								
9·0 ,,																								

Station	DIBRUGARH/MOHANBARI								GADAG												GAUHATI			
Time in I. S. T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·6	061	31	0·7	0·6	045	31	5·0	4·6	245	31	6·1	5·8	260	31	6·2	5·7	252	31	0·2	0·1	099
0·15 a. g.	31	3·3	2·0	057	29	4·1	2·5	055	28	10·7	10·6	250	28	12·0	11·8	257	28	11·7	11·6	253	30	1·9	0·3	060
0·3 a.m.s.l.	31	3·3	2·0	060	29	4·0	2·4	063													30	2·0	0·3	068
0·6 ,,	31	2·8	1·5	094	29	3·4	1·8	068													30	2·9	0·8	060
0·9 ,,	31	2·9	0·7	151	29	3·2	1·4	105	27	12·8	12·6	260	28	13·8	13·6	259	28	13·3	13·2	260	30	3·4	0·9	081
1·5 ,,	29	3·8	2·2	218	24	2·7	1·6	208	14	14·9	14·6	273	16	13·4	13·0	267	20	17·2	17·1	274	30	3·6	1·2	199
2·1 ,,	26	4·0	3·3	217	20	3·0	2·3	221	10	12·9	12·6	279	3	12·8	12·7	280	12	16·7	16·4	277	30	3·9	1·8	208
3·0 ,,	23	4·4	3·2	214	18	3·8	3·1	204	9	10·6	9·7	276	2	10·3	10·2	276	3	8·8	8·6	296	30	4·5	2·0	186
3·6 ,,	20	3·7	1·7	220	14	3·6	2·9	195	4	7·6	6·8	275	1	4·5	4·5	260	2	5·0	3·7	008	30	4·7	2·3	171
4·5 ,,	12	3·9	0·9	205	4	4·1	2·7	227	2	9·0	7·5	276	1	2·5	2·5	270					30	4·8	2·5	175
5·4 ,,	8	3·7	2·0	163	2	4·2	3·6	244													29	4·9	2·2	168
6·0 ,,	6	3·5	3·0	154																	29	5·5	2·7	155
7·2 ,,	2	2·7	2·1	202																	29	5·6	3·2	114
9·0 ,,	1	2·0	2·0	025																	19	6·4	5·3	108

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	GAUHATI												GAYA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·9	1·5	003	31	1·4	0·6	255	31	1·3	0·5	202	31	1·7	0·5	088	31	3·1	1·5	101	31	2·0	1·0	133
0·15 a.g. .	31	2·9	2·0	020	31	3·0	1·5	260	31	2·4	0·4	240	28	5·0	2·2	158	29	5·5	2·5	093	28	5·7	3·5	149
0·3 a.m.s.l. .	31	2·9	1·9	045	31	3·0	1·5	260	31	2·7	0·9	295	28	5·3	2·3	161	29	5·7	2·7	090	28	5·9	3·6	148
0·6 ,, .	31	3·3	1·4	064	31	2·8	0·9	281	30·	3·2	1·3	325	28	6·8	2·7	190	29	6·3	2·4	108	28	7·2	4·1	147
0·9 ,, .	30	3·8	1·5	090	31	3·4	1·2	273	28	3·6	0·9	310	26	6·7	2·0	168	28	6·2	3·0	120	28	7·5	4·6	141
1·5 ,, .	29	5·2	2·3	160	31	3·9	1·7	207	27	3·7	1·8	209	24	5·9	2·4	121	25	7·2	3·8	121	26	6·6	3·7	134
2·1 ,, .	23	6·6	2·6	160	31	4·5	2·6	197	24	4·9	3·0	208	21	6·1	3·8	097	20	5·9	1·6	146	16	4·3	2·3	112
3·0 ,, .	18	6·5	3·6	135	31	4·9	2·2	180	15	5·5	1·7	176	13	6·7	2·3	061	11	6·5	1·3	112	9	6·7	1·6	024
3·6 ,, .	16	6·4	3·6	125	31	5·1	1·9	167	7	4·2	2·4	156	9	7·1	3·3	083	8	8·4	2·1	036	2	9·0	1·2	055
4·5 ,, .	11	5·6	2·4	134	30	5·4	1·9	174	3	3·2	2·4	115	6	7·1	3·6	079	6	9·3	3·9	068				
5·4 ,, .	9	5·5	4·2	110	29	4·7	1·6	155	1	9·0	9·0	110	2	5·5	4·5	081	2	10·5	10·5	100				
6·0 ,, .	7	5·4	4·0	124	29	4·8	1·9	150	1	11·0	11·0	105	1	3·0	3·0	060	2	12·5	12·2	102				
7·2 ,, .	3	6·2	5·3	119	29	4·8	2·9	125																
9·0 ,, .					15	6·9	5·0	095																

Sation	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	1·7	214	31	5·3	4·2	203	31	2·9	2·3	212	31	1·4	1·1	069	31	1·5	1·1	074	31	2·1	1·0	264
0·15 a. g. .	28	5·7	5·0	230	27	8·8	6·7	210	27	6·6	5·7	236	23	6·2	5·7	085	30	5·5	4·5	081	29	6·7	2·6	278
0·3 a.m.s.l. .	28	6·2	5·3	248	27	8·5	5·9	218	27	6·4	5·3	246	23	7·2	6·8	095	30	6·3	5·1	081	29	5·0	2·1	280
0·6 ,, .	28	6·1	5·3	263	27	6·9	3·6	245	27	6·5	5·2	263	21	8·3	7·5	110	30	6·8	5·7	088	29	7·5	2·9	306
0·9 ,, .	27	7·1	6·3	282	26	6·6	3·4	288	27	6·8	5·4	276	21	8·8	7·4	111	29	6·5	5·7	100	27	6·7	2·5	311
1·5 ,, .	24	9·6	8·8	294	23	8·7	6·5	301	27	8·0	6·9	290	21	9·7	7·6	103	29	7·0	4·9	105	25	5·3	1·6	019
2·1 ,, .	15	8·4	7·5	289	16	8·1	6·2	303	20	7·7	6·1	301	15	9·9	5·3	090	29	7·7	3·8	131	24	4·8	1·7	059
3·0 ,, .	6	5·6	2·0	278	9	8·9	6·8	302	9	5·7	2·0	275	13	11·4	5·7	080	26	8·1	3·2	111	20	5·8	2·9	060
3·6 ,, .	4	3·9	3·5	050	4	6·9	3·6	280	1	5·5	5·5	060	6	6·9	2·3	062	21	7·6	3·7	102	17	5·9	2·7	072
4·5 ,, .	3	5·5	5·4	087	4	9·4	5·1	270					2	1·7	1·7	118	16	5·5	1·4	082	12	7·3	4·6	114
5·4 ,, .	3	5·3	5·0	086									1	2·5	2·5	175	11	5·5	2·2	070	11	7·4	5·8	128
6 0 ,, .	2	5·7	5·7	100									1	4·0	4·0	185	9	4·9	1·5	057	11	6·7	6·0	128
7·2 ,, .													1	4·0	4·0	145	6	5·3	2·5	063	11	7·4	6·3	123
9·0 ,, .																	1	3·5	3·5	335	6	5·7	3·8	142

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	GWALIOR												IMPHAL/TULIHAL											
Time in I. S. T.	1130				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·6	0·5	273	31	2·4	0·4	242	31	1·3	0·4	261	31	0·5	0·2	070	31	1·1	0·4	220	31	2·7	0·8	**188**
0·15 a. g.	31	5·1	1·4	297	31	6·0	0·8	244	29	4·9	1·8	273	29	1·8	0·8	046	31	1·8	0·3	236	31	4·1	1·6	**188**
0·3 a.m.s.l.	31	4·6	1·3	307	31	5·2	1·0	240	29	4·2	1·5	259												
0·6 ,,	31	5·2	1·7	325	31	5·7	0·6	284	29	6·1	1·4	280												
0·9 ,,	28	5·4	1·5	342	30	5·7	0·6	304	29	5·5	0·5	267	29	1·7	0·8	049	31	1·9	0·3	203	31	3·9	1·4	**191**
1·5 ,,	23	5·4	1·8	048	25	5·7	1·3	345	26	4·6	0·4	080	29	3·4	1·2	172	28	3·7	1·5	181	30	4·3	2·5	**159**
2·1 ,,	19	4·1	1·7	090	23	4·9	0·9	016	25	4·3	1·2	073	21	5·4	2·4	216	19	5·6	2·4	188	27	5·3	2·7	**183**
3·0 ,,	17	4·7	0·9	058	19	5·7	2·1	029	21	4·5	2·0	038	5	6·4	6·1	132	9	5·5	1·6	241	14	6·4	2·4	**151**
3·6 ,,	15	4·8	1·1	005	17	6·7	2·6	032	13	4·6	1·5	059	4	5·6	5·3	122	5	7·3	1·6	273	8	6·7	3·1	**114**
4·5 ,,	11	3·6	0·5	298	12	5·6	3·1	001					2	9·0	8·5	113	3	7·0	3·0	273	5	5·9	3·2	**128**
5·4 ,,	7	4·6	1·7	247	9	5·3	2·1	030									1	12·0	12·0	280	1	5·5	5·5	**075**
6·0 ,,	6	5·9	2·9	199	8	5·0	2·3	033									1	7·0	7·0	285				
7·2 ,,	5	6·5	2·9	188	4	6·7	2·2	350																
9·0 ,,	5	7·5	4·3	148	2	5·7	0·7	034																

Station	IMPHAL/TULIHAL				JABALPUR												JAGDALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	0·7	312	31	1·1	0·8	247	31	1·3	0·8	239	31	1·2	0·9	246	31	1·4	1·1	230	31	2·4	2·1	**256**
0·15 a. g.	30	2·9	0·3	323	26	6·0	4·1	247	28	6·3	4·1	245	27	6·8	5·4	243	21	5·9	5·4	244	25	6·4	5·8	**260**
0·3 a. m. s. l.																								
0·6 ,,					26	7·1	5·4	257	28	5·9	3·6	249	27	7·5	5·9	248	21	3·5	3·2	242	25	4·2	3·7	**257**
0·9 ,,	30	2·9	0·7	337	23	10·7	8·0	275	28	7·0	4·3	272	26	9·1	6·9	263	20	8·4	7·9	263	25	7·5	7·0	**267**
1·5 ,,	30	3·9	2·7	168	16	8·7	6·7	306	25	7·4	3·8	300	25	9·0	5·5	279	10	11·0	9·9	288	21	8·5	7·9	**285**
2·1 ,,	21	4·9	2·8	188	14	5·4	3·7	356	17	6·9	2·8	352	18	6·7	3·3	307	3	8·3	6·3	308	18	8·6	7·8	**295**
3·0 ,,	13	6·5	3·1	185	10	4·1	3·3	059	8	5·1	3·3	067	11	5·2	4·3	074	2	6·5	4·9	311	10	9·1	8·0	**303**
3·6 ,,	12	6·6	2·0	173	9	5·6	5·1	064	5	6·8	4·4	076	9	6·3	5·1	071	2	6·0	4·1	298	5	8·0	6·0	**317**
4·5 ,,	7	4·6	2·9	134	6	7·3	7·0	076	3	6·8	5·0	084	2	7·0	6·9	053	2	4·5	3·5	302	4	6·6	3·5	**323**
5·4 ,,	3	6·8	6·6	114	5	6·9	6·4	077	2	6·5	6·1	081									2	5·7	5·5	**038**
6·0 ,,					4	8·7	8·7	089	1	2·0	2·0	085												
7·2 ,,					2	10·7	10·7	095																
9·0 ,,					1	12·0	12·0	090																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

July 1862 (Asadha 10—Sravana 9, 1884 Saka)

Station	JAGDALPUR				JAIPUR/SANGANER												JAMSHEDPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·5	1·3	218	31	2·4	1·3	292	31	3·5	0·7	280	31	2·5	0·7	283	31	1·5	0·4	100	31	2·5	0·7	135
0·15 a.g. .	26	6·1	5·5	235	31	6·8	4·3	282	30	5·7	2·1	295	31	8·6	4·2	252	28	4·5	0·8	208	30	4·5	1·4	144
0·3 a.m.s.l.																	28	4·7	1·1	212	30	4·6	1·6	148
0·6 ,, .	26	4·1	3·7	226	30	10·6	4·8	282	30	5·7	1·9	276	31	9·0	4·4	253	28	6·5	1·9	240	30	5·7	2·1	160
0·9 ,, .	26	7·6	6·9	256	30	9·3	6·2	280	30	5·9	2·0	285	31	10·3	4·5	257	26	6·9	1·5	275	29	6·5	2·4	152
1·5 ,, .	25	10·0	9·0	284	28	7·1	2·6	316	29	5·5	0·9	332	28	7·8	3·1	262	21	5·3	1·9	039	25	6·7	2·4	120
2·1 , .	22	10·3	9·2	290	21	5·1	1·6	075	29	5·0	2·0	015	25	6·7	0·6	328	19	5·2	4·0	067	14	5·1	0·6	295
3·0 ,, .	10	6·9	3·7	295	11	3·7	0·9	095	23	6·8	3·5	013	19	5·3	2·1	047	13	7·2	5·4	071	9	5·1	1·5	349
3·6 ,, .	2	6·5	5·8	085	9	4·2	1·5	255	17	7·4	3·7	030	17	5·4	2·9	045	11	6·7	5·1	072	4	5·5	2·6	009
4·5 ,, .					2	4·3	4·2	187	11	9·4	2·6	042	3	9·3	6·4	004	8	5·1	3·7	094	2	7·5	1·1	315
5·4 ,, .					1	4·0	4·0	170	7	7·1	4·3	320	1	2·5	2·5	280	6	6·3	5·3	250	1	8·0	8·0	070
6·0 ,, .									5	6·6	5·9	355	1	7·5	7·5	230	3	5·5	3·1	190				
7·2 ,, .									2	6·0	4·4	340												
9·0 ,, .									1	3·5	3·5	210												

Station	JHARSUGUDA												JODHPUR											
Time in I.S.T.	0580				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·2	1·2	227	31	2·9	1·2	244	31	2·5	1·5	219	25	3·3	2·9	237	31	3·2	2·5	227	27	3·6	2·7	220
0·15 a.g. .	21	4·9	1·9	235	25	5·0	2·4	222	27	5·9	3·3	235	25	7·4	5·7	251	28	5·6	4·4	224	27	7·1	4·3	225
0·3 a.m.s.l. .	21	4·1	1·6	226	25	4·6	2·3	215	27	4·9	2·8	221	25	4·4	3·7	241	28	5·1	4·0	233	27	4·7	3·7	223
0·6 ,, .	20	6·5	3·0	281	25	5·3	2·4	245	26	6·8	4·1	251	25	7·1	5·5	244	28	5·9	4·5	223	27	6·4	3·9	219
0·9 ,, .	17	7·6	3·4	283	24	6·0	2·1	273	21	6·9	3·2	246	25	7·4	5·7	240	26	6·2	4·4	220	27	6·2	4·1	216
1·5 ,, .	11	7·2	0·8	360	18	6·7	1·6	352	15	6·3	2·0	265	25	6·3	3·8	234	21	6·1	1·8	183	26	6·4	3·3	227
2·1 ,, .	9	6·3	2·3	052	10	7·1	2·3	036	11	5·2	0·7	162	24	3·9	1·4	079	16	5·7	3·2	105	26	4·8	1·1	258
3·0 ,, .	2	4·3	4·2	045	3	6·0	3·1	025	5	4·7	4·2	051	23	4·1	1·5	080	15	6·2	4·5	089	25	5·5	1·6	359
3·6 ,, .	1	4·5	4·5	070	2	5·0	3·7	342	1	4·5	4·5	055	22	4·5	2·6	073	14	6·1	4·0	092	23	4·8	2·8	002
4·5 ,, .													21	5·0	2·4	066	8	5·8	1·8	075	23	5·4	2·9	015
5·4 ,, .													18	6·4	2·1	045	8	8·5	2·3	143	21	6·1	1·8	039
6·0 ,, .													15	7·5	1·4	068	7	9·3	3·3	162	19	6·8	1·5	075
7·2 ,, .													12	9·1	0·1	174	5	10·3	7·4	173	18	7·9	3·0	111
9·0 ,, .													6	7·4	3·2	180	2	4·5	4·5	077	8	7·0	2·0	078

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	JODHPUR				LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·4	2·1	214	31	2·4	1·7	087	31	3·5	2·0	098	31	2·3	1·7	083	31	3·4	3·1	258	31	4·6	4·0	262
0·15 a.g. .	29	8·0	6·4	215	28	5·8	3·3	092	31	5·5	3·1	090	31	7·3	4·4	085	31	8·2	7·9	254	31	7·5	7·0	261
0·3 a.m.s.l.	29	6·4	5·3	213	28	6·3	3·3	100	31	5·9	3·1	087	31	7·5	4·5	090	31	8·8	8·5	256	31	7·6	7·3	261
0·6 ,, .	29	8·9	6·4	217	28	8·3	4·3	110	31	6·0	2·6	093	31	8·1	5·0	100	31	11·0	10·7	265	31	8·8	8·3	263
0·9 ,, .	28	9·2	6·9	222	27	8·4	3·5	112	30	5·5	2·4	090	31	7·6	4·5	109	31	12·7	12·2	270	31	10·1	9·6	268
1·5 ,, .	28	6·4	4·2	224	23	7·0	1·9	090	28	6·3	2·7	091	28	6·8	2·7	101	31	14·3	14·0	280	31	13·8	13·4	284
2·1 ,, .	28	5·0	0·9	180	21	7·5	2·4	073	23	6·3	1·5	068	24	6·4	1·5	110	31	13·5	13·1	280	28	12·5	12·5	281
3·0 ,, .	22	4·8	2·3	042	16	7·5	3·6	065	13	5·5	1·8	074	17	6·9	1·5	040	31	11·9	11·6	274	25	11·3	11·1	279
3·6 ,, .	16	5·2	3·7	059	11	6·4	2·9	093	11	5·4	2·3	055	11	6·0	1·7	067	31	11·2	10·8	271	21	9·7	9·4	282
4·5 ,, .	7	5·4	3·2	056	7	5·3	3·7	093	8	5·4	2·6	052	2	7·3	7·0	317	3	10·6	10·3	265	8	7·3	6·5	286
5·4 ,, .	3	5·5	5·1	035	5	6·4	4·8	128	7	4·4	3·3	055					29	10·6	9·9	266	6	7·9	6·9	273
6·0 ,, .	1	7·0	7·0	040	1	4·0	4·0	220	6	5·0	4·1	075					28	9·4	8·5	266	6	8·3	6·1	273
7·2 ,, .									5	4·5	3·0	095					29	6·9	5·3	258	5	7·1	4·0	263
9·0 ,, .									4	5·6	3·5	120					25	6·5	3·3	086	4	6·3	1·5	121

Station	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·7	2·0	205	31	4·3	3·4	207	31	2·9	2·3	259	31	3·8	3·4	269	31	3·5	2·3	267	31	5·1	4·5	265
0·15 a. g. .	31	6·0	2·7	208	28	9·3	8·1	225	26	7·4	6·7	260	22	8·9	8·5	273	27	7·9	7·1	268	29	8·2	7·6	273
0·3 a. m. s. l.	31	6·0	3·5	231	28	10·3	9·4	239	26	8·5	8·0	262	22	9·2	8·8	274	27	8·4	8·0	268	29	9·0	8·5	273
0·6 ,, .	31	6·9	6·0	249	28	11·4	10·9	250	25	11·7	11·4	267	22	11·7	11·2	277	22	12·0	11·6	271	29	11·2	10·6	275
0·9 ,, .	31	7·8	7·2	253	28	12·0	11·6	259	22	13·5	13·2	272	19	13·6	13·2	278	20	14·1	13·7	280	29	12·7	12·2	280
1·5 ,, .	31	9·7	9·5	270	26	12·4	12·1	272	8	11·4	11·1	276	8	14·1	13·9	279	10	14·4	14·2	287	29	14·1	13·7	285
2·1 ,, .	30	11·9	11·7	275	25	12·7	12·5	281	7	11·9	11·7	272	2	8·3	8·3	291	4	12·6	12·5	283	21	12·4	11·9	282
3·0 ,, .	31	14·0	13·7	278	21	12·1	11·8	286	3	11·0	10·3	279	1	8·5	8·5	270					16	8·7	8·5	276
3·6 ,, .	31	12·9	12·7	275	5	12·5	12·4	285	2	11·3	10·1	270	1	7·0	7·0	265					9	7·2	7·1	270
4·5 ,, .	30	10·9	10·6	270	1	14·0	14·0	275					1	8·0	8·0	295					4	8·7	8·3	279
5·4 ,, .	30	10·2	9·5	267																	2	12·5	12·4	294
6·0 ,, .	29	8·9	8·1	265																	1	12·5	12·5	290
7·2 ,, .	30	6·8	5·4	263																				
9·0 ,, .	28	5·9	2·0	096																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	MINICOY								NAGPUR/SONEGAON															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·7	5·3	279	31	5·9	5·4	273	31	1·7	1·4	263	31	5·2	4·7	270	30	3·7	2·9	276	31	1·9	1·5	251
0·15 a. g.	27	9·8	9·1	275	29	8·4	7·8	270	31	6·8	6·3	265	29	7·7	7·4	267	30	6·4	5·6	269	30	6·8	5·7	251
0·3 a. m.s.l.	27	10·4	9·9	274	29	8·9	8·4	272																
0·6 ,,	27	11·4	10·7	274	29	10·8	10·3	275	31	7·7	7·1	270	29	7·1	6·6	270	30	6·4	5·7	269	30	7·6	6·8	261
0·9 ,,	25	13·4	12·7	280	29	12·7	12·1	278	31	9·8	9·2	285	27	7·0	6·2	281	30	6·6	5·5	280	30	8·5	7·7	275
1·5 ,,	21	14·5	14·0	286	23	13·8	13·4	285	31	8·9	7·6	302	17	7·5	4·9	320	30	8·1	6·9	286	24	8·4	6·5	285
2·1 ,,	16	14·6	14·4	290	13	11·9	11·6	289	31	7·6	5·8	307	13	5·6	2·6	012	30	8·1	6·5	290	18	7·2	4·3	284
3·0 ,,	7	12·3	12·1	290	8	10·8	10·6	293	31	6·8	2·8	327	6	4·7	2·7	335	30	7·2	4·5	300	9	4·8	2·4	086
3·6 ,,	3	6·2	5·8	274	3	7·2	7·2	295	31	6·7	2·4	350	4	3·6	0·5	093	30	6·6	3·3	307	7	4·8	3·6	085
4·5 ,,	2	8·7	8·5	305					31	6·5	2·4	030	3	4·7	3·5	070	30	5·9	1·7	356	4	5·0	4·7	103
5·4 ,,									31	5·5	2·5	073	1	2·0	2·0	120	30	5·9	2·8	034	3	5·7	5·7	105
6·0 ,,									31	6·0	2·8	075	1	3·0	3·0	115	30	5·1	2·5	068	1	7·5	7·5	125
7·2 ,,									31	6·7	4·9	083					30	6·0	4·1	078				
9·0 ,,									31	9·9	8·8	091					30	9·5	8·6	083				

Station	NEW DELHI/SAFDARJUNG																POONA							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·3	0·5	140	31	2·8	0·3	024	31	2·4	1·0	106	31	2·2	1·4	162	28	1·6	1·5	248	31	2·9	2·8	263
0·15 a.g.	30	7·7	1·4	147	30	4·5	0·9	120	31	5·0	2·7	105	31	7·2	3·4	166	28	7·9	7·6	255	30	8·2	7·6	260
0·3 a.m.s.l.	30	5·5	0·9	149	30	4·4	0·3	110	31	3·3	1·8	112	31	5·4	2·5	160								
0·6 ,,	30	9·5	2·0	168	30	4·7	1·1	133	31	6·2	1·9	117	31	8·0	3·4	178	28	3·8	3·7	255	30	5·8	5·5	263
0·9 ,,	30	9·6	1·7	192	29	5·1	1·0	155	30	6·5	1·8	113	31	7·5	3·5	179	28	9·8	9·5	259	30	10·3	9·9	260
1·5 ,,	30	8·2	1·4	155	29	6·2	0·4	089	30	6·4	1·0	090	30	5·5	1·5	204	15	13·8	13·3	260	10	11·9	10·8	255
2·1 ,,	30	7·2	0·0	280	21	6·3	0·8	358	29	6·7	0·2	063	20	5·3	4·3	049	5	7·4	5·2	267	8	13·7	11·7	255
3·0 ,,	30	7·2	0·8	045	15	6·0	1·4	070	29	7·1	1·2	005	13	5·8	1·4	015	4	4·3	1·4	069	4	9·3	8·5	277
3·6 ,,	30	7·1	1·5	102	11	7·2	0·9	089	29	7·5	1·4	006	3	2·7	1·3	270	4	4·1	1·5	110	2	3·5	3·5	278
4·5 ,,	30	6·1	0·6	120	7	6·2	3·2	263	30	7·5	1·6	007					3	4·8	2·8	267	2	3·7	3·1	013
5·4 ,,	30	7·3	1·5	180	6	7·1	5·1	250	29	7·6	0·9	276					3	3·7	2·9	327	2	5·0	4·6	018
6·0 ,,	29	6·5	2·8	176	5	8·7	6·9	232	26	7·0	1·5	245					2	3·7	3·1	009	1	2·5	2·5	095
7·2 ,,	29	7·8	2·6	201	2	7·3	6·7	213	24	8·4	2·9	238									1	6·0	6·0	065
9·0 ,,	29	7·9	2·7	181					23	8·4	3·9	212									1	11·0	11·0	080

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	POONA				PORT BLAIR																RAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·5	1·4	265	31	5·3	5·1	230	31	8·2	8·1	228	30	6·7	6·6	230	31	5·5	5·3	229	31	2·1	1·8	235
0·15 a.g. .	29	7·6	7·2	256	30	10·9	10·5	240	28	10·9	10·7	231	29	11·4	10·9	240	27	10·0	9·8	234	25	8·1	7·1	246
0·3 a.m.s.l.					30	10·5	10·5	240	28	10·9	10·8	231	29	11·4	10·9	240	27	11·1	11·0	233				
0·6 ,, .	29	3·7	3·5	260	29	13·5	12·9	245	28	12·7	12·5	235	27	12·9	12·6	240	27	13·8	13·6	240	25	9·8	8·5	269
0·9 ,, .	29	9·2	8·8	258	29	14·6	14·1	248	16	14·6	14·5	236	27	14·1	13·7	246	21	13·9	13·6	245	25	9·9	8·1	280
1·5 ,, .	19	13·5	13·1	260	29	15·1	14·4	255	3	10·8	10·8	243	27	14·8	14·3	251	12	10·6	9·9	254	21	7·8	6·2	304
2·1 ,, .	10	10·3	9·3	259	29	14·3	13·8	257	3	11·0	10·8	239	27	12·5	12·2	257	6	10·4	9·7	264	17	6·6	3·9	309
3·0 ,, .	3	8·0	6·2	239	29	13·4	13·0	263					26	13·0	12·7	258	1	6·0	6·0	225	10	6·1	2·8	017
3·6 ,, .	1	10·0	10·0	190	28	13·5	13·1	264					27	12·1	11·7	263					9	6·3	2·5	031
4·5 ,, .					26	11·7	10·9	271					27	10·2	9·6	262					1	2·5	2·5	120
5·4 ,, .					25	10·4	9·0	265					25	8·8	7·3	261					1	2·0	2·0	105
6·0 ,, .					23	11·0	8·7	265					26	8·6	5·1	274					1	4·0	4·0	180
7·2 ,, .					24	6·9	4·8	268					26	7·0	2·1	309					1	5·0	5·0	080
9·0 ,, .					23	9·3	3·7	082					21	10·1	7·3	064					1	4·0	4·0	065

Station	RAIPUR								RAXAUL								SILIGURI/BAGHDOGRA							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·2	2·4	239	31	2·6	2·1	236	31	1·0	0·9	085	31	1·4	1·3	090	31	2·4	2·0	067	31	2·3	1·9	077
0·15 a.g. .	28	8·0	6·1	246	25	8·8	7·4	246	26	6·7	6·5	092	28	5·9	4·8	099	22	4·5	3·9	067	27	3·7	2·6	082
0·3 a.m.s.l. .									26	7·5	7·3	100	28	5·9	4·9	101	22	4·5	3·8	072	27	3·6	2·7	087
0·6 ,, .	28	8·5	6·6	253	25	9·9	8·4	256	25	8·7	8·7	112	27	6·6	6·1	107	22	4·4	3·9	086	27	4·0	3·3	095
0·9 ,, .	27	8·8	6·9	265	24	9·7	8·4	270	25	8·3	8·2	112	26	7·2	6·9	109	17	4·3	3·9	080	25	4·4	3·1	097
1·5 ,, .	22	7·7	4·8	293	21	7·5	5·9	293	22	7·0	5·3	104	26	7·8	7·0	111	13	5·6	5·4	078	20	5·4	4·7	105
2·1 ,, .	17	7·1	3·4	307	14	5·8	3·2	337	18	7·5	4·8	096	25	7·1	5·6	113	10	5·5	4·7	076	14	5·1	3·9	107
3·0 ,, .	9	6·5	2·5	310	9	5·1	2·2	008	16	7·4	3·5	098	21	6·9	4·2	113	8	6·4	5·5	087	8	7·4	4·8	102
3·6 ,, .	7	6·3	4·5	008	3	4·3	3·0	016	12	5·8	3·5	105	15	6·4	2·0	123	8	6·5	4·8	092	6	4·9	3·7	101
4·5 ,, .	2	4·3	4·0	061	2	5·0	4·8	088	12	5·3	3·4	110	9	5·7	4·0	110	6	5·3	3·1	115	3	6·5	6·5	101
5·4 ,, .					1	3·5	3·5	050	8	5·1	3·6	124	9	5·8	1·7	084	4	4·9	4·5	110	2	6·7	6·7	111
6·0 ,, .									5	4·4	2·2	129	5	7·0	2·1	060	3	5·0	4·8	105	1	6·0	6·0	105
7·2 ,, .									2	1·3	0·2	258	1	10·0	10·0	115	2	6·0	6·0	080				
9·0 ,, .									2	3·7	2·2	226	1	6·0	6·0	125								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Shravana 9, 1884 Saka)

Station	SILIGURI/BAGHDOGRA				TIRUCHCHIRAPPALLI												TRIVANDRUM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·6	1·9	060	31	7·5	7·4	271	31	10·6	10·1	265	31	10·7	10·6	269	31	2·6	2·3	319	31	3·2	2·8	31
0·15 a.g. .	24	4·2	3·6	073	31	10·0	10·0	268	30	12·0	11·3	261	28	10·4	10·2	268	31	8·6	8·1	315	30	6·4	6·1	30
0·3 a.m.s.l. .	24	4·2	3·6	078	31	11·7	11·6	269	30	12·0	11·4	263	28	11·3	11·1	269	31	9·3	8·7	311	30	7·5	7·0	30
0·6 ,, .	23	4·2	3·5	085	31	17·2	17·0	272	30	11·7	11·3	268	28	16·4	16·2	270	31	13·7	13·1	296	29	11·9	11·1	29
0·9 ,, .	20	4·1	3·1	087	31	18·4	18·2	273	30	11·3	11·1	266	27	17·0	16·7	273	31	16·0	15·5	293	25	13·9	13·3	29
1·5 ,, .	14	4·3	3·0	103	31	15·7	15·5	273	29	14·7	14·5	267	26	13·6	13·3	274	31	16·0	15·5	293	12	16·3	15·9	29
2·1 ,, .	12	4·6	3·4	115	31	13·4	13·0	272	26	13·9	13·5	269	22	11·0	10·5	276	31	16·5	15·8	288	7	16·1	15·9	286
3·0 ,, .	6	5·3	5·2	121	23	8·8	8·4	277	19	11·6	11·4	276	15	8·8	8·3	285	31	13·9	13·5	282	3	11·8	11·8	281
3·6 ,, .	3	5·2	4·9	139	19	7·7	7·5	277	12	10·3	10·0	285	6	8·3	7·3	295	31	13·1	12·8	284	1	11·0	11·0	250
4·5 ,, .					14	7·2	6·6	271	4	9·0	8·7	271					31	11·5	11·1	277				
5·4 ,, .					9	7·5	6·1	259	3	6·5	6·2	252					31	9·7	8·2	280				
6·0 ,, .					5	6·1	5·0	254	2	11·0	10·1	262					31	7·6	5·2	272				
7·2 ,, .					1	2·0	2·0	185									31	5·2	0·7	062				
9·0 ,, .																	31	9·3	7·2	090				

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·5	4·2	308	31	2·7	2·5	330	31	1·0	0·7	246	31	1·6	1·3	260	31	1·1	0·9	245	31	2·9	2·5	256
0·15 a.g. .	31	10·1	9·9	301	28	7·9	7·4	323	28	4·5	3·6	246	29	4·9	3·1	235	27	4·8	3·7	234	28	9·4	8	259
0·3 a.m.s.l. .	31	10·2	10·0	300	28	9·0	8·5	309													28	10·4	10·0	269
0·6 ,, .	31	13·2	12·5	294	26	12·6	11·9	303													25	12·4	12·0	263
0·9 ,, .	31	15·3	14·5	294	25	14·4	13·7	302	28	5·4	3·2	260	29	5·0	3·3	246	27	5·9	4·5	241	6	14·2	13·5	270
1·5 ,, .	31	17·0	16·2	296	21	16·0	15·4	305	25	6·2	2·4	257	26	5·5	3·4	254	20	6·6	3·5	235				
2·1 ,, .	31	16·4	16·0	292	7	15·8	15·4	299	15	5·6	0·5	105	21	5·4	1·9	262	14	4·1	1·5	198				
3·0 ,, .	31	15·3	14·8	283	5	9·5	9·2	280	12	5·9	2·0	120	13·	5·2	1·1	110	11	5·1	2·3	111				
3·6 ,, .	31	14·1	13·7	281	4	8·1	6·0	277	12	6·5	0·9	098	8	8·0	2·8	085	2	2·7	2·0	011				
4·5 ,, .	31	11·7	11·4	273	2	4·5	4·3	303	11	6·6	2·0	133	7	5·0	2·7	107	1	5·0	5·0	065				
5·4 ,, .	31	10·2	9·7	276					5	6·3	2·5	145	1	4·5	4·5	145								
6·0 ,, .	31	8·5	7·2	282					3	12·0	4·0	163	1	2·0	2·0	150								
7·2 ,, .	31	5·5	0·5	334																				
9·0 ,, .	30	8·7	6·7	085																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Station	VENGURLA								VERAVAL												VIJAYWADA/ GANNAVARAM			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·0	2·7	261	31	2·0	1·8	252	31	9·6	8·8	258	31	9·9	8·8	251	31	9·4	8·4	257	31	3·5	3·2	263
0·15 a.g. .	27	9·2	8·7	266	27	7·7	7·3	262	26	8·8	8·1	257	31	9·9	9·3	249	28	9·6	9·0	253	22	7·9	7·5	265
0·3 a.m.s.l. .	27	10·3	9·9	267	27	9·0	8·6	264	26	10·3	9·6	258	31	10·9	10·1	250	28	11·1	10·5	255	22	9·9	9·5	273
0·6 ,, .	26	13·6	13·0	268	27	11·9	11·5	266	24	11·7	10·9	261	26	12·0	11·3	255	27	12·5	12·0	257	22	12·3	12·0	278
0·9 ,, .	11	15·6	15·3	274	10	12·3	12·2	279	17	10·5	9·4	262	15	10·7	10·1	265	25	11·5	10·8	260	22	14·0	13·6	287
1·5 ,, .	4	12·5	12·4	276	3	15·0	15·0	275	10	7·9	5·6	257	11	6·7	5·4	265	14	9·9	7·7	259	21	12·5	12·3	293
2·1 ,, .									5	4·5	2·3	151	6	6·3	4·0	274	7	5·4	0·4	139	19	10·5	10·2	290
3·0 ,, .									4	4·4	1·7	048	3	7·3	7·3	008	6	6·3	3·7	072	13	9·1	8·6	283
3·6 ,, .									2	4·3	2·5	135	3	7·7	7·6	016	4	8·4	6·6	038	11	8·1	7·5	285
4·5 ,, .													3	5·7	5·1	012	3	6·0	5·5	030	7	6·8	5·7	272
5·4 ,, .													3	3·2	1·8	013	1	2·0	2·0	165	4	4·3	2·5	291
6·0 ,, .													3	3·2	0·8	102					3	4·5	0·7	218
7·2 ,, .													3	4·7	3·9	111					3	5·0	2·9	010
9·0 ,, .													2	8·3	8·1	112					1	16·5	16·5	075

Station	VIJAYWADA/ GANNAVARAM								VISHAKHAPATNAM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·8	3·0	281	31	2·8	2·1	236	31	3·4	3·1	280	31	5·2	4·4	235	30	3·4	3·0	270	31	4·0	3·8	232
0·15 a.g. .	24	6·1	5·3	278	19	7·7	6·7	247	31	7·0	6·6	284	27	6·0	5·5	240	30	6·5	5·6	281	28	6·7	6·5	241
0·3 a.m.s.l. .	24	6·4	6·0	279	19	8·6	7·9	256	31	7·8	7·4	276	27	5·6	5·3	252	30	7·1	6·4	272	28	8·1	8·0	249
0·6 ,, .	24	8·7	8·4	281	19	11·2	10·6	265	31	9·6	9·5	264	27	6·9	6·5	270	30	8·4	7·9	257	28	9·7	9·3	262
0·9 ,, .	23	11·1	10·9	278	19	13·0	13·6	271	31	9·7	9·0	270	22	8·0	7·7	294	30	8·8	8·1	269	27	10·7	10·2	274
1·5 ,, .	22	13·7	13·5	281	18	13·0	12·8	277	31	11·2	10·3	287	21	10·1	9·3	295	30	9·5	8·5	288	27	14·7	13·7	281
2·1 ,, .	22	13·8	13·4	285	16	12·1	11·9	282	31	10·7	9·0	291	18	8·0	7·2	297	30	9·4	7·9	289	26	12·7	11·9	282
3·0 ,, .	16	12·3	11·7	287	11	11·0	10·8	282	31	8·2	7·0	289	14	6·5	5·6	297	28	8·0	6·1	287	13	8·3	6·8	292
3·6 ,, .	11	9·8	9·5	293	6	8·9	8·5	285	31	7·7	5·7	293	11	6·1	4·1	295	28	7·7	5·8	288	4	7·1	5·1	311
4·5 ,, .	7	9·1	8·5	291	2	4·7	4·6	312	31	7·8	4·6	296	8	5·8	1·6	317	27	7·2	5·3	304	3	6·2	3·4	309
5·4 ,, .	4	6·9	6·4	297					31	6·3	3·8	286	4	6·6	4·5	089	27	6·5	2·5	329				
6·0 ,, .	2	6·0	6·0	300					30	5·8	1·3	340	3	7·0	6·0	100	26	6·2	1·5	338				
7·2 ,, .	1	4·5	4·5	315					30	5·5	2·2	078	2	10·3	10·1	093	24	6·7	1·8	045				
9·0 ,, .	1	3·0	3·0	020					26	9·0	8·1	084	1	13·0	13·0	100	23	7·8	6·2	070				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

AHMADABAD

0530 hr.*

Ht in Km	n	V	v	D
10·5	21	11·8	11·1	100
12·0	18	16·6	15·8	102
14·1	15	23·9	21·2	097
16·2	8	31·6	29·4	094
18·0	6	24·4	23·7	099
21·0	1	23·0	23·0	090

1730 hr.*

Ht in Km	n	V	v	D
10·5	22	12·6	11·1	092
12·0	17	16·4	14·5	098
14·1	12	23·9	22·7	102
16·2	9	27·3	26·7	095
18·0	4	28·3	28·3	090
21·0	1	18·0	18·0	095

ALLAHABAD/BAMHRAULI

0530 hr.*

Ht in Km	n	V	v	D
10·5	8	9·9	9·5	092
12·0	3	18·3	17·3	091

1730 hr. *

Ht in Km	n	V	v	D
10·5	11	9·8	8·3	090
12·0	3	15·8	15·3	083
14·1	1	21·5	21·5	085

AMBALA

1730 hr.

Ht in Km	n	V	v	D
10·5	1	4·5	4·5	220

BAHRAICH

0530 hr.

Ht in Km	n	V	v	D
10·5	1	3·0	3·0	275

1730 hr.

Ht in Km	n	V	v	D
10·5	6	7·2	2·9	227
12·0	2	5·0	2·9	226

BANGALORE

1730 @

Ht in Km	n	V	v	D
10·5	2	10·0	9·6	088
12·0	2	19·0	18·9	097
14·1	2	30·5	30·5	087
16·2	1	38·5	38·5	080
18·0	1	23·5	23·5	095

BHAGALPUR

1730 hr.

Ht in Km	n	V	v	D
10·5	1	9·5	9·5	115
12·0	1	8·5	8·5	045

BHUBANESHWAR

0530 hr.

Ht in Km	n	V	v	D
10·5	1	8·5	8·5	085

BIKANER

0530 hr.

Ht in Km	n	V	v	D
10·5	2	4·2	2·2	045
12·0	2	4·2	2·8	074
14·1	2	6·2	5·7	088
16·2	2	15·7	15·2	065

BOMBAY/SANTACRUZ

0530 hr.*

Ht in Km	n	V	v	D
10·5	25	13·3	12·9	084
12·0	22	16·8	15·8	092
14·1	9	26·6	25·7	083
16·2	6	35·3	34·2	094
18·0	2	38·5	34·2	070

1730 hr.*

Ht in Km	n	V	v	D
10·5	23	14·0	13·0	090
12·0	23	19·1	17·7	090
14·1	14	30·4	29·7	092
16·2	7	33·8	33·3	090
18·0	1	30·5	30·5	090

CALCUTTA/DUM DUM

0530 hr.*

Ht in Km	n	V	v	D
10·5	27	14·7	14·2	098
12·0	22	16·0	15·4	092
14·1	10	20·9	20·5	090
16·2	1	23·5	23·5	080

1730 hr.*

Ht in Km	n	V	v	D
10·5	26	14·2	13·8	088
12·0	24	17·5	9·5	078
14·1	16	21·6	21·0	078
16·2	2	18·2	18·0	067
18·0	1	23·0	23·0	090

GAUHATI

0530 hr.*

Ht in Km	n	V	v	D
10·5	14	9·8	8·5	093
12·0	10	12·1	10·8	092
14·1	2	17·7	17·7	105

1730 hr.*

Ht in Km	n	V	v	D
10·5	9	9·4	8·5	090
12·0	8	12·2	11·4	085
14·1	3	12·5	12·2	064
16·2	2	16·0	15·9	075

GWALIOR

0530 hr.

Ht in Km	n	V	v	D
10·5	6	8·7	5·3	132
12·0	6	10·2	6·0	124
14·1	3	8·3	6·5	057

1130 hr.

Ht in Km	n	V	v	D
10·5	4	8·7	5·7	128
12·0	1	10·5	10·5	105

1730 hr.

Ht in Km	n	V	v	D
10·5	1	4·5	4·5	085

JABALPUR

0530 hr.

Ht in Km	n	V	v	D
10·5	1	18·0	18·0	100

JAIPUR/SANGANER

1730 hr.

Ht in Km	n	V	v	D
10·5	1	3·5	3·5	225

JODHPUR

0530 hr.*

Ht in Km	n	V	v	D
10·5	2	10·2	3·1	177
12·0	1	12·5	12·5	215

1130 hr.

Ht in Km	n	V	v	D
10·5	2	5·5	5·5	103

1730 hr.

Ht in Km	n	V	v	D
10·5	1	10·0	10·0	190
12·0	1	12·5	12·5	250

LUCKNOW/AMAUSI

1730 hr.

Ht in Km	n	V	v	D
10·5	2	9·3	6·5	115
12·0	2	9·3	6·3	085
14·1	1	11·0	11·0	105
16·2	1	15·0	15·0	055
18·0	1	27·0	27·0	070
21·0	1	47·0	47·0	075

MADRAS/MINAMBAKKAM

0530 hr. *

Ht in Km	n	V	v	D
10·5	25	11·3	10·4	076
12·0	22	19·8	18·7	071
14·1	13	30·6	29·8	072
16·2	7	33·9	33·5	076
18·0	4	32·6	32·3	083
21·0	1	23·0	23·0	075

1130 hr.

Ht in Km	n	V	v	D
10·5	3	10·2	9·6	092
12·0	1	23·5	23·5	100

1730 hr. *

Ht in Km	n	V	v	D
10·5	23	10·0	9·1	084
12·0	19	17·3	16·6	074
14·1	15	34·0	33·5	083
16·2	11	30·4	29·7	090
18·0	10	23·9	23·9	073
21·0	4	20·0	19·9	088

NAGPUR/SONEGAON

0530 hr.*

Ht in Km	n	V	v	D
10·5	30	12·8	12·3	088
12·0	30	17·3	16·5	087
14·1	29	27·0	24·2	087
16·2	25	28·8	28·2	089
18·0	19	25·0	24·4	085
21·0	6	20·3	19·6	083
24·0	1	18·5	18·5	090

1730 hr.*

Ht in Km	n	V	v	D
10·5	30	13·3	13·0	082
12·0	28	19·1	18·5	087
14·1	24	25·4	24·1	083
16·2	16	27·1	26·6	087
18·0	12	25·0	24·7	083
21·0	3	24·7	24·5	079

NEW DELHI/SAFDARJUNG

0530 hr.*

Ht in Km	n	V	v	D
10·5	28	8·3	3·0	190
12·0	26	8·3	4·1	183
14·1	22	9·1	2·7	146
16·2	21	11·8	5·8	083
18·0	18	13·2	11·8	070
21·0	10	16·9	15·7	081
24·0	5	18·7	18·4	081

1730 hr.*

Ht in Km	n	V	v	D
10·5	22	8·2	2·5	218
12·0	20	7·7	3·5	188
14·1	8	8·0	3·3	187
16·2	17	6·7	6·8	102
18·0	14	13·7	11·3	080
21·0	7	18·6	18·4	093
24·0	2	21·0	20·9	097

POONA

1730 hr.

Ht in Km	n	V	v	D
10·5	1	14·0	14·0	090
12·0	1	22·5	22·5	115
14·1	1	28·0	28·0	110

TABLE V—MONTHLY MEAN DIRECTION AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km above mean sea level

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Ht in Km	n	V	v	D
		PORTBLAIR		
		0530 hr.*		
10·5	18	15·0	14·1	063
12·0	15	19·5	18·3	062
14·1	8	28·8	28·2	084
16·2	1	27·5	27·5	070
		1730 hr.*		
10·5	15	16·2	14·3	063
12·0	13	19·1	18·4	063
14·1	7	30·4	29·3	086
16·2	4	23·4	22·7	073
18·0	1	25·0	25·0	085
		RAIPUR		
		0530 hr.		
10·5	1	7·0	7·0	085
12·0	1	13·5	13·5	115
		RAXAUL		
		0530 hr.		
10·5	1	5·0	5·0	085
		TRIVANDRUM		
		0530 hr.*		
10·5	27	17·0	15·5	085
12·0	20	24·7	24·3	081
14·1	13	26·2	26·2	080
16·2	8	29·6	28·8	087
18·0	2	9·0	9·0	073
		1730 hr.*		
10·5	23	14·8	13·2	085
12·0	23	24·6	23·9	077
14·1	21	35·4	34·9	086
16·2	17	27·3	26·4	089
18·0	12	18·0	16·8	090
21·0	1	16·5	16·5	075

Ht in Km	n	V	v	D
		VERAVAL		
		1730 hr.		
10·5	2	11·0	10·9	102
12·0	1	14·0	14·0	110
		VIJAYWADA/ GANNAVARAM		
		0530 hr.		
10·5	1	20·0	20·0	080
		1730 hr.		
10·5	1	7·5	7·5	065
12·0	1	15·5	15·5	100
14·1	1	28·0	28·0	095
		VISHAKHAPATNAM		
		0530 hr.*		
10·5	26	13·8	12·6	091
12·0	25	19·9	19·2	089
14·1	21	31·9	31·0	084
16·2	18	31·6	31·1	087
18·0	17	23·5	22·3	087
21·0	3	17·2	17·1	078
24·0	1	25·0	25·0	090
		1730 hr.*		
10·5	19	11·9	10·8	084
12·0	17	14·8	14·3	082
14·1	13	25·2	24·5	083
16·2	11	32·3	31·7	087
18·0	4	30·3	30·0	083
21·0	2	27·4	27·4	090

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 14 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

List of Radiosonde stations in India

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

RADIOSONDE DATA

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

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

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (993 mb.)						ALLAHABAD/BAMHRAULI (985 mb.)						BANGALORE (906 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	299·6	303	298	297·5	30	098	301·4	308	298	297·4	31	921	293·0	295	291	291·9
1000	30	—006	..	..	..	..	30	—029	..	..	..	..	31	065	..	..	..	..
900	30	921	294·7	298	290	292·7	30	906	298·1	304	293	293·3	29	971	292·4	294	291	291·2
850	30	1416	292·2	297	287	290·1	30	1407	295·1	301	290	290·7	29	1467	289·2	291	287	287·9
800	30	1936	289·8	293	284	287·0	30	1934	292·6	297	288	288·4	29	1984	287·1	289	284	284·6
700	30	3068	285·4	293	279	278·5	30	3073	286·1	290	282	282·2	29	3103	282·2	286	279	277·1
600	28	4342	277·4	282	273	272·0	29	4357	279·7	285	274	274·1	29	4367	275·1	279	272	271·1
500	28	5802	269·2	274	263	..	28	5837	272·0	274	267	267·1	29	5821	266·7	271	263	..
400	27	7530	258·7	264	253	..	26	7584	262·3	267	258	..	29	7528	255·8	261	251	..
300	25	9651	243·9	248	239	..	24	9749	249·0	253	242	..	29	9621	239·7	246	233	..
250	24	10934	233·9	238	227	..	21	11049	240·2	248	233	..	27	10866	229·3	239	223	..
200	20	12433	222·5	228	218	..	19	12569	229·0	234	221	..	27	12328	218·0	228	211	..
175	20	13294	215·8	220	211	..	18	13447	222·4	228	215	..	24	13149	210·8	216	203	..
150	15	14269	209·2	214	205	..	17	14429	215·1	222	207	..	24	14091	203·6	215	195	..
125	15	15351	201·7	206	197	..	14	15548	206·9	213	199	..	24	15151	198·0	209	189	..
100	15	16659	195·3	204	189	..	6	16753	198·8	207	193	..	24	16444	194·8	203	190	..
80	14	17927	196·1	208	183	..	5	17982	200·2	213	190	..	21	17798	198·0	206	189	..
70	10	18755	199·2	208	189	..	5	18776	203·6	217	193	..	21	18598	201·9	215	193	..
60	5	19596	202·0	211	190	..	..	..	..	..	..	..	19	19486	204·3	211	195	..
50													17	20537	207·4	214	198	..
40													12	21939	210·1	218	203	..
30													6	23596	211·3	223	206	..
20																		
10																		

	BOMBAY/SANTACRUZ (1000mb.)						CALCUTTA/DUM DUM (998 mb.)						GAUHATI (995 mb.)					
Surface	31	013	299·4	301	296	297·3	31	006	299·9	302	298	299·0	31	049	300·7	302	298	298·6
1000	30	017	..	..	..	..	31	—013	..	..	..	..	31	012	..	..	..	..
900	30	941	294·3	296	292	292·0	31	911	294·4	297	293	293·1	30	931	296·1	301	293	293·7
850	30	1435	291·6	295	290	288·8	31	1407	292·4	295	290	290·2	30	1429	293·9	296	290	291·6
800	30	1953	288·6	292	286	285·5	31	1938	289·8	292	288	287·6	30	1953	291·3	295	288	288·6
700	30	3079	283·9	286	281	277·4	31	3060	285·8	286	282	281·9	30	3088	285·3	290	283	281·6
600	30	4351	277·2	280	274	270·3	31	4337	277·0	281	274	275·3	30	4368	278·9	280	275	275·2
500	28	5814	269·5	275	267	..	31	5808	270·5	273	268	264·7	29	5840	271·2	275	267	..
400	28	7548	259·9	263	257	..	31	7549	260·3	265	255	..	29	7586	261·9	266	256	..
300	26	9689	246·3	251	243	..	28	9689	246·8	254	239	..	15	9749	248·9	253	242	..
250	23	10979	236·6	241	233	..	25	10975	237·8	246	232	..	13	11054	240·3	244	237	..
200	23	12492	225·4	231	217	..	22	12494	225·6	234	218	..	8	12573	228·1	233	225	..
175	15	13373	219·3	225	213	..	22	13368	218·7	228	210	..						
150	12	14359	212·1	218	202	..	13	14366	212·3	221	202	..						
125	10	15479	205·5	211	201	..	5	15442	203·2	210	199	..						
100	6	16807	198·1	204	193	..												
80																		
70																		
60																		
50																		
40																		
30																		
20																		
10																		

RADIOSONDE DATA

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

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

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (972 mb.)						MADRAS/MINAMBAKKAM (1003 mb.)						NAGPUR/SONEGAON (965 mb.)					
	No of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	218	301·6	307	297	296·6	31	015	300·2	302	298	296·1	31	311	297·6	300	296	295·9
1000	28	—020	..	..	..	..	31	038	..	..	..	..	31	—050	..	..	..	..
900	28	906	298·0	304	292	290·9	31	962	294·8	298	292	289·4	31	921	295·1	299	292	291·5
850	28	1406	296·1	300	292	288·4	31	1456	291·8	295	288	286·8	31	1418	292·4	296	289	288·7
800	28	1933	293·7	297	290	283·2	31	1974	288·6	293	285	283·4	31	1939	289·2	292	285	286·4
700	28	3068	288·0	293	284	277·6	31	3092	280·7	285	275	277·5	31	3066	282·9	286	280	279·1
600	28	4352	280·2	286	274	271·1	30	4344	272·9	275	269	271·5	31	4335	276·2	281	272	273·2
500	23	5828	271·7	274	267	..	30	5781	264·2	269	257	..	31	5793	268·1	271	264	..
400	19	7575	262·8	267	253	..	30	7575	253·9	266	246	..	31	7512	257·3	262	253	..
300	12	9727	250·2	266	242	..	26	9549	238·0	245	232	..	31	962·2	242·1	247	237	..
250							26	10795	227·7	238	219	..	30	10895	232·4	239	225	..
200							24	12242	215·0	228	209	..	30	12379	220·3	227	213	..
175							18	13080	208·9	221	201	..	29	13224	214·3	222	207	..
150							15	14051	202·9	214	195	..	29	14189	207·5	215	200	..
125							9	15416	197·8	203	191	..	29	15256	201·3	209	193	..
100							9	16452	197·3	203	190	..	26	16585	196·2	203	191	..
80							7	17780	198·5	206	191	..	21	17895	197·5	204	190	..
70							6	18582	199·5	203	193	..	17	18706	199·0	206	191	..
60													12	19703	106·6	209	195	..
50													11	20708	205·6	213	198	..
40													7	22027	209·1	213	203	..
30																		
20																		
10																		

	NEW DELHI/SAFDARJUNG (974 mb.)						PORT BLAIR (997 mb.)						TRIVANDRUM (1001 mb.)					
Surface	31	209	301·3	307	299	297·5	30	079	298·7	300	296	297·2	31	064	297·4	298	296	295·7
1000	31	—029	..	..	..	..	30	056	..	..	..	..	31	072	..	..	..	..
900	31	907	299·6	306	295	292·3	30	978	294·1	297	291	291·7	31	991	292·3	295	289	289·7
850	31	1414	296·8	302	292	290·1	30	1472	291·7	295	288	288·4	31	1481	289·0	291	285	286·5
800	31	1942	293·4	298	289	287·5	30	1991	289·0	293	284	285·3	31	1996	286·0	288	283	283·3
700	31	3082	286·1	290	282	281·5	30	3115	283·1	287	277	279·6	31	3110	280·6	283	277	274·6
600	31	4363	279·2	283	276	273·3	28	4383	276·7	281	272	273·8	31	4365	273·4	276	271	269·5
500	31	5841	272·1	276	267	263·9	28	5838	268·8	275	263	..	31	5806	264·8	271	259	..
400	31	7593	263·1	267	257	..	25	7562	258·4	263	253	..	31	7503	253·3	261	246	..
300	30	9754	249·4	254	243	..	24	9683	244·0	251	238	..	31	9579	236·5	245	227	..
250	30	11064	240·1	247	235	..	22	10945	238·2	240	228	..	29	10773	225·3	235	217	..
200	28	12597	228·2	238	223	..	19	12462	220·8	231	213	..	24	12264	215·1	225	210	..
175	25	13471	221·7	228	217	..	16	13256	213·6	220	204	..	22	13084	209·9	221	204	..
150	25	14455	214·2	221	209	..	13	14219	207·8	214	197	..	22	14036	203·6	217	197	..
125	24	15576	206·5	212	201	..	8	15742	201·1	207	193	..	19	15074	198·0	211	189	..
100	22	16915	200·5	205	196	..	8	16603	195·1	200	188	..	16	16380	195·4	201	187	..
80	19	18206	201·7	208	197	..							14	17663	191·1	203	196	..
70	17	18993	205·4	215	201	..							9	18434	201·8	208	199	..
60	15	19920	209·9	220	205	..							9	19344	203·6	211	201	..
50	12	21028	214·1	219	209	..							9	20438	206·4	213	203	..
40	8	22444	218·5	226	209	..							5	21891	211·4	219	207	..
30	6	24275	221·8	229	217	..												
20																		
10																		

RADIOSONDE DATA

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

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

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Standard Pressure Surface mb.	VISHAKHAPATNAM Surf. Pr. (995 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	004	299·8	303	298	296·8
1000	31	—001	..	..	..	..
900	31	930	296·3	300	293	290·5
850	31	1427	293·4	297	291	287·9
800	31	1951	289·9	293	280	284·9
700	31	3079	281·9	288	279	278·8
600	30	4346	275·6	279	271	272·4
500	30	5801	268·0	273	264	..
400	29	7523	257·3	263	252	..
300	27	9629	241·4	248	235	..
250	27	10893	230·8	237	221	..
200	26	12373	220·0	227	211	..
175	22	13208	214·0	219	207	..
150	21	14171	206·5	212	199	..
125	19	15234	199·7	205	191	..
100	19	16554	195·2	207	190	..
80	18	17843	197·7	209	187	..
70	15	18626	201·5	211	194	..
60	11	19525	205·4	216	199	..
50	9	20537	206·7	211	201	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

RADIOSONDE DATA

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

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

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Sufr. Pr. (991 mb.)						ALLAHABAD/BAMHRAULI Surf. Pr. (984 mb.)						BANGALORE Surf. Pr. (905 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew pont			Mean	Max.	Min.	Dew point
Surface	30	055	304·8	311	301	299·5	31	098	306·1	315	299	297·3	31	921	297·8	301	294	291.7
1000	30	—022	..	..	..	..	31	—052	..	..	..	..	31	033	..	..	..	..
900	30	918	297·7	302	293	293·0	31	896	300·9	309	295	293·4	31	963	297·9	301	294	291·4
850	30	1417	293·8	297	290	290·6	31	1401	297·4	305	291	290·8	30	1460	293·2	297	289	288·7
800	30	1943	290·5	294	287	287·7	31	1931	294·0	301	288	288·5	30	1981	289·0	292	286	285·3
700	30	3071	285·3	289	281	280·1	31	3076	287·5	291	283	281·5	30	3102	281·8	286	278	278·8
600	29	4345	277·4	281	273	273·4	31	4367	281·3	284	277	273·5	30	4364	275·1	279	271	271·4
500	29	5804	269·0	272	265	..	31	5854	273·7	275	271	263·4	30	5815	267·2	273	261	..
400	29	7533	258·6	264	254	..	31	7615	264·3	268	260	..	29	7528	256·4	261	249	..
300	24	9657	243·5	247	234	..	27	9791	251·1	254	248	..	28	9629	240·5	246	235	..
250	23	10934	232·9	241	224	..	23	11109	241·7	247	238	..	24	10877	230·4	235	223	..
200	20	12418	222·0	228	215	..	22	12656	231·3	238	226	..	21	12334	217·3	226	210	..
175	18	13280	215·3	223	206	..	18	13532	224·6	231	218	..	20	13169	209·2	219	202	..
150	17	14243	209·4	216	201	..	18	14537	219·5	224	210	..	20	14119	201·7	209	194	..
125	16	15347	202·7	212	191	..	16	15678	210·1	217	201	..	19	15177	197·9	202	193	..
100	16	16666	196·8	206	188	..	12	17016	202·7	212	195	..	18	16498	195·5	204	188	..
80	11	17936	197·8	213	191	..	8	18318	200·7	212	195	..	18	17819	198·7	209	191	..
70	6	18778	203·1	215	191	..	7	19121	203·4	212	199	..	16	18654	202·3	211	196	..
60	6	19713	207·7	220	194	..							16	19547	204·4	213	198	..
50													13	20638	208·2	217	201	..
40													7	21950	210·6	217	205	..
30																		
20																		
10																		

Standard Pressure Surface mb.	BOMBAY/SANTACRUZ Surf. Pr. (1000 mb).						CALCUTTA/DUM DUM Surf. Pr. (996 mb.)						GAUHATI Surf. Pr. (992 mb.)					
Surface	31	013	300·8	303	298	297·8	31	006	303·3	307	299	299·5	31	049	303·4	307	301	299·0
1000	31	017	..	..	..	..	31	—031	..	..	..	..	31	—025	..	..	..	..
900	27	946	294·7	297	292	291·9	31	904	297·1	301	294	294·3	31	914	298·2	301	294	298·2
850	27	1441	291·9	294	289	288·8	31	1403	294·1	298	290	291·3	31	1415	295·3	301	293	291·8
800	27	1961	289·1	291	286	286·1	31	1927	291·3	295	289	288·7	31	1941	292·5	296	289	288·9
700	27	3087	284·7	287	281	278·2	31	3063	285·7	289	283	282·1	31	3080	286·4	290	284	282·3
600	27	4362	278·0	280	275	271·9	31	4346	279·3	283	276	275·0	30	4357	279·6	283	277	274·2
500	27	5831	270·8	273	265	..	30	5822	271·3	274	264	..	29	5842	271·9	274	270	265·5
400	27	7576	261·7	267	257	..	30	7569	261·9	264	259	..	28	7592	262·3	266	254	..
300	23	9723	247·8	254	241	..	27	9721	247·9	254	243	..	15	9758	249·2	252	245	..
250	23	11025	238·8	243	232	..	25	11023	238·6	245	233	..	10	11070	239·9	243	237	..
200	22	12545	227·4	233	221	..	23	12541	227·1	231	219	..	10	12603	228·4	231	224	..
175	15	13402	221·1	228	215	..	22	13414	220·3	225	213	..	8	13465	220·6	223	215	..
150	15	14391	212·9	223	206	..	19	14397	212·4	218	206	..	7	14457	212·0	217	204	..
125	13	15499	204·2	210	197	..	11	15575	204·1	209	197	..	6	15540	203·0	208	197	..
100	10	16824	198·5	205	189	..	8	16868	197·4	203	192	..						
80																		
70																		
60																		
50																		
40																		
30																		
20																		
10																		

RADIOSONDE DATA

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

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

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (972 mb)						MADRAS/MINAMBAKKAM Surf. Pr. (1000 mb.)						NAGPUR/SONEGAON Surf. Pr. (963 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	307.2	314	300	296.4	31	015	304.8	308	300	297.0	30	311	302.3	308	298	295.6
1000	30	—028	..	..	..	..	31	019	..	..	..	..	30	—024	..	..	..	..
900	30	907	301.4	310	294	293.2	31	955	298.1	301	295	290.8	30	914	297.3	301	294	291.1
850	30	1408	298.0	305	290	291.0	31	1453	293.5	297	291	288.7	30	1413	293.4	297	289	288.7
800	30	1941	294.9	301	293	287.3	31	1974	289.1	293	287	286.2	30	1935	290.2	294	287	285.7
700	30	3077	288.2	293	284	280.3	31	3095	281.1	284	278	278.9	30	3066	284.0	288	281	279.0
600	28	4350	280.1	284	277	272.6	31	4353	274.2	278	271	272.4	30	4348	277.1	280	275	271.7
500	27	5841	272.6	277	268	..	31	5798	266.1	275	262	..	30	5803	269.4	275	266	..
400	23	7594	263.3	267	259	..	31	7501	254.4	263	250	..	30	7534	259.4	263	256	..
300	11	9780	250.8	251	246	..	28	9582	238.6	247	233	..	30	9652	244.7	249	237	..
250	..	..	..	..	..	..	25	10830	229.3	237	223	..	30	10994	233.9	240	227	..
200	..	..	..	..	..	..	24	12294	218.0	224	207	..	28	12433	222.4	229	217	..
175	..	..	..	..	..	..	22	13122	212.0	217	202	..	24	13279	215.9	222	211	..
150	..	..	..	..	..	..	20	14069	206.5	213	197	..	24	14239	208.3	216	202	..
125	..	..	..	..	..	..	15	15155	200.7	207	192	..	20	15323	201.8	208	195	..
100	..	..	..	..	..	..	13	16475	196.5	209	190	..	17	16647	196.3	202	191	..
80	..	..	..	..	..	..	13	17750	197.6	201	193	..	13	17969	196.9	200	191	..
70	..	..	..	..	..	..	11	18504	200.5	205	196	..	11	18762	199.2	205	192	..
60	..	..	..	..	..	..	10	19446	202.7	211	198	..	11	19684	202.8	209	195	..
50	..	..	..	..	..	..	6	20536	204.0	209	201	..	8	20762	207.0	216	199	..
40	..	..	..	..	..	..	..	..	..	..	..	..	6	22156	210.7	218	208	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG Surf. Pr. (972 mb.)						PORT BLAIR Surf. Pr. (996 mb.)						TRIVANDRUM Surf. Pr. (1000 mb.)					
Surface	31	209	306.2	314	299	298.2	29	079	299.6	301	294	297.3	31	064	300.3	302	296	296.6
1000	31	—049	..	..	..	..	29	047	..	..	..	..	31	065	..	..	..	..
900	31	898	301.6	308	298	293.7	29	968	294.2	297	291	292·0	31	990	293.5	296	291	290.1
850	31	1404	298.2	304	295	291.2	29	1462	291.7	295	288	288.8	31	1483	290.4	293	288	286.8
800	31	1934	294.4	300	291	288.0	29	1981	288.9	292	286	285.0	31	1999	287.5	291	285	283.5
700	31	3077	287.1	294	284	281.1	29	3105	282.9	287	278	278.4	31	3120	282.3	285	279	276.1
600	31	4363	279.8	284	278	274.7	28	4377	275.6	279	270	271.8	31	4384	275.5	279	272	267.4
500	31	5840	272.3	275	268	265.1	27	5827	268.3	273	264	..	31	5836	267.0	271	262	..
400	29	7589	263.1	266	259	..	26	7548	257.4	264	251	..	31	7546	255.8	262	248	..
300	27	9754	249.3	253	245	..	22	9657	242.2	248	236	..	30	9644	239.9	249	231	..
250	25	11061	240.4	244	237	..	19	10920	231.5	238	226	..	24	10899	229.6	242	221	..
200	23	12594	229.4	234	224	..	18	12387	20.1	228	213	..	24	12362	218.4	229	207	..
175	22	13466	222.5	228	217	..	15	13248	212.4	217	203	..	23	13187	211.3	221	200	..
150	20	14464	215.5	221	210	..	13	14199	205.8	212	196	..	23	14145	204.0	213	192	..
125	20	15591	208.0	215	201	..	7	15356	199.7	205	193	..	22	15203	198.2	207	193	..
100	18	16929	202.2	209	193	..	6	16660	196.3	204	189	..	21	16489	195.6	202	186	..
80	15	18242	202.8	208	197	..	..	..	..	..	..	..	19	17781	198.7	205	191	..
70	15	19068	206.5	211	200	..	..	..	..	..	..	..	17	18562	201.5	210	195	..
60	13	19996	211.4	213	208	..	..	..	..	..	..	..	15	19418	202.9	211	197	..
50	11	21114	213.4	218	212	..	..	..	..	..	..	..	11	20489	204.2	213	199	..
40	5	22607	218.7	220	218	..	..	..	..	..	..	..	7	21792	206.0	212	200	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

July 1962 (Asadha 10—Sravana 9, 1884 Saka)

Standard Pressure Surface mbs	VISHAKHAPATNAM Surf. Pr. (994 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	004	300·9	305	299	297·7
1000	31	—012	..	..	..	..
900	30	922	296·6	300	294	291·5
850	30	1420	293·2	296	291	288·6
800	30	1939	289·7	293	287	285·6
700	29	3072	283·0	286	279	278·3
600	29	4377	276·2	281	274	272·0
500	28	5800	268·4	273	264	..
400	28	7523	257·7	263	253	..
300	26	9647	243·9	250	237	..
250	22	10921	233·6	240	224	..
200	20	12411	221·3	228	213	..
175	19	13296	214·2	222	207	..
150	19	14204	206·9	217	199	..
125	17	15278	199·7	203	194	..
100	16	16600	195·9	204	189	..
80	9	17839	198·3	209	191	..
70	8	18603	199·5	215	193	..
60	6	19510	202·0	216	196	..
50	6	20567	205·2	217	198	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

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INDIAN WEATHER REVIEW, 1962

Monthly Weather Report
AUGUST 1962

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Chief features—

(i) Good monsoon activity over most parts of the country; and

(ii) spells of heavy rain causing serious floods in eastern Uttar Pradesh, north Bihar and Assam.

The monsoon activity was evenly maintained over most parts of the country during the month. A series of low pressure areas, which formed in the north Bay of Bengal and moved inland caused spells of heavy rains leading to serious floods in east Uttar Pradesh, north Bihar and Assam during the month. More than six million people in 10,000 villages were reported to have been affected in these three states. 73 human lives were lost and 38,823 houses destroyed or damaged.

A well marked low pressure area formed over northwest Bay of Bengal on 3rd. It moved inland on 4th and lay over Bihar Plateau and neighbourhood with no appreciable movement till 7th. It weakened and became unimportant later. This low caused very heavy rains in northeast India, east Madhya Pradesh and east Uttar Pradesh during the first week of the month. Some of the noteworthy amounts of rainfall were; Cooch Behar 14 cm on 2nd, Gorakhpur 14 cm on 3rd, Phulbani 15 cm and Sambalpur 12 cm on 4th and Satna 13 cm on 6th. According to press reports most of the rivers in central and southern Bengal and Uttar Pradesh and the Bangmati and the Kosi in Bihar and the Brahmaputra in Assam were in spate affecting thousands of acres of lands and innumerable villages and people.

The monsoon trough shifted southwards by the end of the first week and its axis lay over the central parts of the country till 18th. A low pressure area formed over the northwest Bay off Orissa coast on 7, moved westwards and merged into the seasonal low by 10th. Another low pressure area which formed over northwest Bay on 12th moved westnorthwestwards and ultimately merged into the seasonal low over Rajasthan by 17th. Under the influence of the above systems the monsoon was active practically over the entire country during the period 7th to 18th, causing some very heavy rainfalls particularly in the central belt of the country extending from Orissa to Saurashtra and Kutch. Some of the noteworthy amounts of rainfall recorded were : Mahabaleshwar 15 cm on 7th and 13th and 18 cm on 15th, Sagar 19 cm on 13th and 20 cm on 15th, Sironcha 16 cm on 13th, Khandala 32 cm and Bombay (Colaba) 17 cm on 14th and Honavar 15 cm on 19th. As per press reports, Uttar Pradesh and Assam continued to experience floods as a result of these heavy rains. There were also reports of floods in Madhya Pradesh, where the flood waters of river Indravati caused dislocation of traffic and minor damages during the period 13th to 16th.

The monsoon trough shifted northwards and lay close to the foot of the Himalayas from 19th. This was followed by a considerable decrease in the rainfall in the Peninsula and central parts of the country and an increase in rainfall activity in the northern parts of the country, particularly along the foot of the Himalayas. Some of the very heavy rainfalls reported were : Pasighat 32 cm on 17th 31 cm on 18th and 26 cm on 19th, Cherrapunji 19 cm on 17th, 36 cm on 18th and 37 cm on 19th, Hardoi 21 cm on 18th and Gonda 25 cm on 23rd. The monsoon weakened considerably after 23rd over these parts also but under the influence of a feeble low pressure area which moved from the north Bay of Bengal on 23rd to northeast Madhya Pradesh on 26th, light to moderate rain continued there till 26th. With the decrease in rainfall, the waters of most of the flooded rivers in Assam, West Bengal and north Bihar began to recede slowly; but the flood situation in Uttar Pradesh continued to be serious till the end of the month.

The monsoon strengthened in the Peninsula during the last week. A low pressure area which formed over the southwest Bay on 30th moved slowly westwards across the Peninsula causing a spell of heavy rains in the Madras State. Salem recorded 9 cm of rain on 31st.

In association with three western disturbances which moved successively eastwards across the extreme north of the country; there was good rainfall over the western Himalayas during the first half of the month. A few of the noteworthy amounts of rainfall were : Dharamsala 15 cm on 7th, 11 cm on 9th and 19 cm on 13th, Dehra Dun 15 cm on 11th, Mussoorie 13 cm on 12th and Pathankot 11 cm on 13th. A low pressure area formed over Uttar Pradesh on 28th. This together with a westerly trough moving eastwards across the extreme north of the country caused another spell of heavy rains over many parts of northwest India and Uttar Pradesh. The significant amounts of rainfall were : Dharamsala 17 cm and Kheri Lakhimpur 13 cm on 27th and Bareilly 12 cm on 29th. According to official reports the rivers Ravi, Sutlej and Beas in the Punjab were in medium floods during the second week and again in the last week.

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Lack of adequate rainfall in parts of east Madhya Pradesh, Orissa and Bihar Plateau in the second half of the month was reported to have affected adversely the agricultural operations in these areas.

Rainfall for the month was in large excess in coastal Mysore, in moderate excess in east Uttar Pradesh, Saurashtra and Kutch, Telangana, the Madras State, north Interior Mysore and the Arabian Sea Islands and normal in Sub-Himalayan West Bengal, Bihar Plans, west Madhya Pradesh, Madhya Maharashtra and Marathwada. It was in slight defect in Bihar Plateau, west Uttar Pradesh, east Rajasthan, east Madhya Pradesh and Vidarbha, in moderate defect in Gangetic West Bengal, Orissa, the Punjab(I), west Rajasthan and Gujarat Region and in large defect in Jammu and Kashmir. It was in slight excess over the rest of the country outside Himachal Pradesh.

Mean maximum temperature was above normal in Jammu and Kashmir and west Rajasthan and below normal in Sub-Himalayan West Bengal. It was normal over the rest of the country outside Himachal Pradesh. Mean minimum temperature was below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

Mean relative humidity in the morning was above normal in Interior Mysore and below normal in Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh.

Mean cloud amount in the morning was above normal in Sub-Himalayan West Bengal, the Madras State, north interior Mysore and the Arabian Sea Islands and normal over the rest of the country outside Himachal Pradesh.

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

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 08 30 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA-5,
The 16th February, 1963.

R. ANANTHAKRISHNAN,
for DIRECTOR GENERAL OF OBSERVATORIES.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	380·9	111	30·5	24·8	88	84	7·1	6·5
	+38·7		−0·8	0	+3		+0·6	
2. West Bengal	325·6	86	31·2	25·7	85	83	6·3	6·2
	−51·2		−0·3	0	+1		−0·1	
3. Orissa	220·4	65	31·0	25·6	85	83	6.6	6·8
	−116·7		−0·1	0	+1		+0·5	
4. Bihar	295·8	91	31·4	25·1	85	82	6·9	6·7
	−29·1		+0·2	−0·2	+2		+0·6	
5. Uttar Pradesh	360·6	118	32·2	25·4	87	79	5·8	6·1
	+56·1		0	−0·2	+4		+0·2	
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	149·9	68	34·8	25·4	80	59	4·2	3·6
	−71·8		+0·8	+0·1	+2		−0·2	
7. Jammu and Kashmir.	32·7	30	28·5	14·5	54	48	3·9	4·2
	−75·4		+1·4	−1·3	−21		0	
8. Rajasthan	124·7	78	33·8	24·8	77	59	4·8	5·2
	−34·3		+0·9	−0·2	0		−0·1	
Sub-Division								
1. Bay Islands	465·7	113	28·9	23·4	86	87	7·2	7·0
	+51·9		+0·3	+0·3	+2		+0·6	
2. Assam (Including Manipur, Tripura).	380·9	111	30·5	24·8	88	84	7·1	6·5
	+38·7		−0·8	0	+3		+0·6	
3. Sub-Himalayan, West Bengal.	603·1	109	30·1	25·0	89	84	7·2	6·3
	+50·7		−1·6	−0·4	+4		+1·4	
4. Gangetic, West Bengal.	224·7	72	31·6	25·9	85	81	6·0	6·2
	−88·3		+0·1	+0·1	0		−0·5	
5. Orissa	220·4	65	31·0	25·6	85	83	6·6	6·8
	−116·7		−0·1	0	+1		+0·5	
6. Bihar Plateau	260·5	76	31·2	24·6	84	81	6·9	7·1
	−83·0		+0·6	+0·2	+1		+0·6	
7. Bihar Plains	317·1	101	31·6	25·6	87	83	6·8	6·3
	+3·3		−0·3	−0·5	+4		+0·6	
8. Uttar Pradesh (East).	426·4	141	31·9	25·5	89	81	6·6	6·5
	+124·6		−0·3	−0·4	+4		+0·9	
9. Uttar Pradesh (West).	270·1	88	32·6	25·3	84	75	4·7	5·5
	−38·2		+0·4	+0·1	+3		−0·7	
10. Punjab (India) Including Delhi).	149·9	68	34·8	25·4	80	59	4·2	3·6
	−71·8		+0·8	+0·1	+2		−0·2	
11. Himachal Pradesh	221·5		31·1	22·3	89	75	3·7	4·1
	..		..	..	..		..	
12. Jammu and Kashmir.	32·7	30	28·5	14·5	54	48	3·9	4·2
	−75·4		+1·4	−1·3	−21		0	
13. Rajasthan (West)	73·6	74	36·5	26·3	74	49	3·7	3·7
	−26·0		+1·4	+0·3	−1		−0·6	
14. Rajasthan (East)	175·8	80	31·7	23·6	80	68	5·8	6·4
	−42·6		+0·5	−0·6	+1		+0·2	
15. Madhya Pradesh (West).	266·8	93	29·7	23·0	87	76	7·2	7·1
	−19·7		+0·4	0	+1		+0·6	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	288·3	85	29·6	23·2	87	78	7·1	7·1
	−50·2		+0·3	0	+1		+0·5	
10. Gujarat State	149·3	97	31·6	25·2	86	72	6·8	6·2
	−5·3		+0·7	+0·2	+1		−0·3	
11. Maharashtra State	318·4	104	29·9	23·0	85	72	6·7	6·8
	+12·9		+0·4	+0·1	+2		+0·2	
12. Andhra Pradesh	194·6	123	31·7	24·4	81	70	6·4	6·7
	+36·7		−0·6	0·3	+4		+0·4	
13. Madras State	126·9	148	33·8	24·8	72	64	5·9	6·1
	+41·1		−0·2	−0·1	+4		+1·4	
14. Mysore	363·7	155	27·9	21·3	89	76	7·2	7·3
	+128·9		+0.5	+0·2	+5		+0·9	
15. Kerala	401·8	125	28·7	23·4	90	83	6·6	6·7
	+80·1		+0·1	−0·2	+1		+0·2	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	315·6	78	29·6	23·4	87	81	7·1	7·2
	−89·1		+0·1	−0·1	+2		+0·5	
17. Gujarat Region	146.6	67	31·8	24·9	86	69	7·1	6·0
	−71·7		+1·0	+0·4	0		+0·4	
18. Saurashtra and Kutch.	150·8	127	31·5	25·3	87	74	6·7	6·3
	+31·6		+0·5	+0·1	+2		+0·3	
19. Konkan	542·9	117	28·9	24·5	89	84	7·0	7·0
	+77·5		+0·1	0	+2		0	
20. Madhya Maharashtra	241·5	105	29·9	21·6	84	68	6 4	6 8
	+12·1		+0·5	0	+2		+0·3	
21. Marathwada	137·7	98	30·8	21·7	81	61	6·6	6·5
	−3·4		+0·7	+0·1	−1		+0·1	
22. Vidarbha	235·1	83	30·5	23·7	85	71	6·8	6·9
	−46·6		+0·5	+0·2	+1		+0·4	
23. Coastal Andhra Pradesh.	162.8	117	32·3	25·2	80	71	6·5	6·5
	+23·5		−0·8	−0·5	+4		+0·5	
24. Telangana	283·6	132	30·6	23·5	84	75	6·5	6·8
	+69·2		−0·1	−0·1	+4		+0·3	
25. Rayalaseema	120·4	112	32·3	23·9	76	61	6·2	6·8
	+13·1		−1·0	−0·2	+4		+0·2	
26. Madras State	126·9	148	33·8	24·8	72	64	5·9	6·1
	+41.1		−0·2	−0·1	+4		+1·4	
27. Coastal Mysore	1097·2	185	27·8	23·7	92	88	7·5	7·3
	+504·3		−0·6	0	+2		+0·7	
28. Interior Mysore (North)	177·3	133	29·3	21·4	87	72	7·1	7·5
	+44·0		−0·3	+0·3	+6		+1·5	
29. Interior Mysore. (South)	209·1	124	26·8	20·3	89	75	7·1	7·2
	+40·9		−0·7	+0·3	+6		+0·5	
30. Kerala	401·8	125	28·7	23·4	90	83	6·6	6·7
	+80·1		+0·1	−0·2	+1		+0·2	
31. Arabian Sea Islands	286·7	145	29·5	24·9	84	81	7·2	7·2
	+88·9		+0·1	−0·3	+3		+2·0	

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.2 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar.	29.0	..	31*	7 days	22.8	..	21*	16	276.0	502.7	..	76.0	8	24	..	..	..	..	0	24	0	0	0	0	0	0	0	0	0
Long Island .	29.6	..	31.5	20,28	23.4	..	21.2	22	114.6	409.8	..	88.8	11	19	..	7.0	4.8	..	0	21	0	0	6	0	0	0	0	2	0
Port Blair .	28.9	+0.3	30.4	29	23.4	—0.3	19.7	8	214.1	465.7	+51.9	111.2	11	23	+2.1	19.7	15.8	—5.8	0	28	0	0	2	3	0	0	0	7	0
Car Nicobar .	29.7	..	30.7	20,23	25.7	..	22.2	7	131.7	401.2	..	107.6	25	14	..	7.3	4.9	..	1	23	0	0	0	0	0	0	0	0	0
Nancowry .	29.8	..	31.4	20	24.4	..	21.9	27	222.3	389.1	..	74.4	25	17	..	7.8	6.4	..	0	19	0	0	3	0	0	0	0	0	0
Kondul .	28.9	..	30.1	15,21	23.9	..	22.4	25	134.7	309.4	..	71.0	25	14	..	..	..	..	1	18	0	0	5	0	0	0	0	0	0
Assam (including Manipur & Tripura)																													
Pasighat .	30.4	..	35.9	5	23.6	..	21.5	19	449.8	1405.9	..	320.8	17	20	..	4.4	4.2	..	0	23	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	30.3	—0.4	34.8	5	24.4	0	22.1	20	116.6	651.1	+200.0	103.2	6	19	+0.3	4.3	3.1	0	0	24	0	0	12	0	0	0	0	0	0
Digboi (R)																													
North Lakhimpur .	29.7	—1.5	34.8	5	24.5	—0.1	23.2	2	89.8	658.2	+130.1	96.8	13	25	+6.0	7.0	4.8	..	0	29	0	0	3	0	0	0	0	0	0
Sibasagar * .	30.8	—0.8	34.3	5	25.2	—0.2	23.9	14	53.5	426.7	+10.9	68.4	25	22	+3.9	4.7	4.4	+1.2	0	29	0	0	11	0	0	0	0	0	0
Gohpur .	32.5	..	34.9	27	22.7	..	21.6	18,29	5.8	342.8	..	48.2	29	18	..	5.5	3.1	..	0	19	0	0	0	0	0	0	0	0	0
Mazbat .	..	..	..	..	..	..	..	..	123.3	670.3	..	99.3	14	19	..	4.1	1.9	..	0	19	0	0	2	0	0	0	0	0	0
Jorhat (Aerodrome).	31.0	..	33.1	31	24.8	..	23.3	23	71.6	551.7	..	100.5	5	20	..	..	..	..	0	25	0	0	11	0	0	0	0	0	0
Tangla . .	31.9	..	35.3	5	24.4	..	21.0	12	47.2	182.5	..	49.5	19	9	..	1.3	1.1	..	0	12	0	0	0	0	0	0	0	0	0
Tezpur . .	30.4	—1.5	33.3	8	22.4	—3.0	20.3	1	58.2	369.0	+38.3	72.9	11	17	+1.1	5.4	3.6	+1.3	0	24	0	0	7	0	0	0	0	0	0
Golaghat .	31.3	..	33.9	2,6	24.6	..	..	..	10.0	313.0	..	53.2	14	17	..	..	..	..	0	17	0	0	0	0	0	0	0	0	0
Rangia (R) .																													
Chaparmukh(R)																													
Goalpara .	30.8	..	33.4	2,13	25.1	..	22.4	23	164.2	447.8	..	112.6	18	14	..	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Gauhati. .	31.3	—1.1	34.4	1	25.9	+0.3	24.3	14	61.0	151.6	—109.0	25.0	14	16	+2.9	..	..	..	0	21	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor).	31.2	—0.8	33.8	1	25.6	+0.5	22.4	30	127.0	223.9	—36.7	..	..	..	..	(f) 7.8	(g) 5.0	..	0	27	0	0	19	0	0	0	0	0	0
Dhubri (Rupsi).	30.8	..	33.2	13	25.0	..	23.4	18	96.0	576.1	..	176.4	18	16	..	6.5	5.0	..	1	21	0	0	19	0	0	0	0	0	0
Dhubri . .	30.1	—0.1	33.0	1	26.0	+0.2	23.9	2	145.4	405.9	+68.3	108.2	18	11	—3.6	6.5	6.2	+0.6	0	21	0	0	4	0	0	0	0	0	0
Lumding .	32.5	+0.2	35.2	5	26.8	+2.0	25.6	19	98.6	208.3	+3.1	52.1	8	14	+2.7	4.4	2.4	..	0	15	0	0	1	0	0	0	0	0	0
Tura . .	28.2	..	30.2	10	20.9	..	19.9	20	316.6	497.0	..	86.6	18	18	..	5.8	4.6	..	0	23	0	0	0	0	0	0	0	0	0
Haflong .	27.3	..	30.6	6	21.5	..	19.5	17	65.3	352.7	+90.3	105.2	6	19	+1.9	..	..	..	0	23	0	0	2	0	0	0	0	0	0
Silchar (Kumbhirgram).	30.6	..	35.7	4	24.1	..	22.4	19	111.9	653.6	..	92.8	10	21	..	4.1	3.5	..	1	27	0	0	10	0	0	0	0	0	0
Silchar .	29.7	—2.2	32·6	3	24.9	0	23.2	19	131.6	537.1	+22.5	61.6	11	20	—2.2	2.2	1.3	—1.1	0	31	0	0	9	0	0	0	0	0	0
Imphal (Tulihal).	27.9	—0.9	30.4	27,28	21.8	+0.1	20.3	14	91.8	249.2	+60.6	38.6	14	19	+6.6	3.3	4.1	—1.3	0	25	0	0	3	0	0	0	0	0	0
Kailashahar .	31.5	..	36.6	12	24.4	..	22.1	20	285.0	505.6	..	72.0	8	24	..	4.3	2.6	..	0	28	0	0	14	0	0	0	0	0	0
Agartala .	31.1	0	33.6	13	24.8	0	22.3	20	199.6	337.4	—13.9	57.0	20	19	+1.7	10.5	8.2	0	0	26	0	0	13	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra .	30.5	—1.2	33.3	13	24.3	—0.4	22.6	21	180.6	680.4	—4.3	97.9	21	22	+0.3	13.0	9.4	+3.6	0	27	0	0	10	0	0	0	0	0	0
Jalpaiguri .	28.4	—3.2	31.1	13	24.7	—0.5	21.7	29	195.6	652.6	+10.7	109.6	1	23	+2.6	9.6	6.9	+4.2	0	27	0	0	11	0	0	0	0	0	0
Cooch Behar .	30.4	..	33.3	13	25.0	..	23.3	21	213.0	293.0	+197.6	138.3	2	21	+2.3	6.1	4.8	..	0	24	0	0	18	0	0	0	0	0	0
Balurghat .	31.7	..	33.8	4	24.4	..	22.2	31	135.2	800.6	..	71.5	31	16	..	10.6	7.2	..	1	20	0	0	0	0	0	0	0	0	0
Malda .	31.4	—0.3	33.3	1,13	26.0	—0.2	23.3	22	82.6	278.8	—1.1	113.2	30	13	—1.6	9.8	8.0	+0.4	0	20	0	0	9	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore .	32.3	+0.6	38.5	12	25.0	—1.0	22.3	31	56.9	157.2	—132.6	34.1	20	11	—5.3	6.2	4.9	+0.1	0	17	0	0	2	0	0	0	0	0	0
Suri . .	31.7	..	33.3	1	25.4	..	22.9	22	..	389.4	..	46.0	21	21	..	..	8.0	..	0	25	0	0	16	0	0	0	0	0	0
Asansol .	31·7	+0.1	33.6	1,2	25.7	+0.4	23.3	23	190.1	334.3	—3·0	82.3	3	12	—5.0	9.6	7.5	—0.1	2	13	0	0	15	0	0	0	0	0	0
Shanti Niketan	32·1	..	33.4	31	25.8	..	23.0	21	159.9	239.1	..	60.0	21	14	..	7.2	6.1	..	1	19	0	0	14	0	0	0	0	0	0
Krishnanagar	32·2	+0·3	35·0	1	25·7	—0·1	22·2	21	140·4	229.2	—34·5	57·0	2	16	+0·7	7·3	4·8	—0.8	0	19	0	0	1	0	0	0	0	0	0
Purulia . .	31.0	—0.4	33.1	2,13, 31	25.2	+0.3	22.3	18	128.0	250.8	—55.4	53.8	23	13	—3.5	7.3	5.8	+0·6	0	19	0	0	1	0	0	0	0	0	0
Bankura .	32.9	..	34.5	2	..	..	..	..	112.5	164.8	—143.8	45.7	24	10	—6.0	3.0	2.7	..	0	15	0	0	0	0	0	0	0	0	0
Burdwan .	32.2	+0.4	34.2	1	26.1	0	22.8	21	143.9	254.9	—47.9	62.0	21	11	—5.2	(a) 13.0	9.5	+5.8	0	12	0	0	0	0	0	0	0	0	0

*Data based on daily telegrams R) Register not received. (a) Mean of 30 days (f) Mean of 25 days (g) Mean of 24 days

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal (*Contd.*)																													
Barrackpore Aerodrome).	32.4	..	37.2	2	..	..	..	..	111.7	152.7	..	25.6	29	13	..	..	..	..	0	22	0	0	12	0	0	0	0	0	0
Calcutta (Dum Dum.)	31.9	+0.1	34.4	2	25.8	—0.3	23.4	21	105.4	158.4	—120.4	22.0	22	15	—3.3	11.8	8.2	—1.8	2	22	0	0	9	0	0	0	0	0	0
Calcutta .	32.1	+0.4	34.0	3	26.3	+0.6	24.7	24	122.8	172.6	—155.6	29.9	3	14	—4.0	8.6	5.9	+0.4	1	19	0	0	8	0	0	0	0	2	0
Midnapore .	31.8	0	34.1	2	25.8	0	23.5	23	149.2	296.8	—27.1	56.1	22	14	—2.8	7.7	6.1	+2.6	0	17	0	0	0	0	0	0	0	0	0
Contai . .	30.7	—0.4	33.9	2	26.2	+0.1	23.8	22	61.6	168.0	—198.9	42.2	22	14	—2.2	14.9	11.4	+0.8	0	17	0	0	0	0	0	0	0	0	0
Sagar Island .	30.0	—0.5	31.7	3	26.9	+0.5	24.1	22	97.2	285.4	—51.9	69.0	22	14	—2.3	24.0	24.0	+6.9	1	22	0	0	5	0	0	0	0	0	0
Sandheads .	30.6	..	32.6	5	27.0	..	24.3	23	74.8	172.7	—51.8	41.4	23	9	—3.0	..	..	..	0	11	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada .	32.1	..	34.8	1	25.4	..	23.8	22	196.8	356.8	..	80.8	4	11	..	3.4	2.1	..	0	19	0	0	7	0	0	0	0	0	0
Jharsuguda .	30.3	—0.6	32.6	26,30	24.6	—0.1	22.8	14	153.6	367.9	— 67.9	85.4	4	17	0	9.9	7.9	—0.9	0	22	0	0	19	0	0	0	0	0	0
Keonjhargarh.	29.1	..	31.3	28	23.3	..	22.1	24	98.7	157.7	..	33.4	3	15	..	8.2	6.5	..	0	20	0	0	2	0	0	0	0	0	0
Balasore .	31.3	0	34.7	2	25.9	+0.1	25.5	23	145.5	254.5	—44.2	104.5	22	11	—3.8	11.9	9.1	+3.3	1	16	0	0	8	0	0	0	0	0	0
Sambalpur .	31.0	+0.6	33.8	28	24.7	—0.2	22.4	4	115.9	169.2	—14.4	124.6	4	17	—1.9	9.7	8.3	+2.5	2	21	0	0	4	0	0	0	0	0	0
Angul . .	..	..	..	..	..	..	..	..	126.9	213.3	—80.3	94.4	24	10	—5.1	9.3	5.8	—2.1	0	15	0	0	3	0	0	0	0	0	0
Cuttack .	31.9	+0.2	33.9	11	25.7	+0.1	23.9	24	67.2	113.6	—226.8	32.0	28	10	—5.8	10.2	7.3	+3.8	0	17	0	0	3	0	0	0	0	0	0
Chandbali .	31.3	0	33.9	3	25.7	—0.1	24.4	5	80.9	124.1	—248.5	23.0	3	12	—3.8	13.3	10.5	—0.1	0	17	0	0	0	0	0	0	0	0	0
Bolangir .	31.0	..	33.7	28	24.4	..	22.7	14	145.2	286.4	..	68.4	3	11	..	12.1	9.8	..	0	14	0	0	0	0	0	0	0	0	0
Phulbani .	28.8	..	30.9	20	22.9	..	22.1	4,28	260.6	417.7	..	152.7	4	17	..	7.6	4.5	..	1	23	0	0	5	0	0	0	0	0	0
Titlagarh .	30.8	..	32.8	9 days	23.6	..	21.8	13,14 24	107.2	298.5	..	43.8	12	17	..	4.2	0.9	..	0	20	0	0	0	0	0	0	0	0	0
Bhubaneswar .	30.8	—0.5	32.4	1,11	25.4	0	23.7	24	58.3	110.5	—225.5	33.4	24	10	—7.3	13.1	9.8	—4.1	2	19	0	0	9	0	0	0	0	0	0
Puri .	30.5	—0.4	31.9	2,11, 27	26.8	+0.4	24.5	12,24	83.7	203.7	—73.7	59.7	12	19	+6.1	23.6	22.3	+6.4	0	19	0	0	0	0	0	0	0	0	0
Gopalpur .	30.8	—0.2	32.8	3,23	26.1	+0.1	24.1	12	43.6	126.9	—68.7	42.4	23	11	+0.2	22.3	17.5	+5.1	0	13	0	0	7	0	0	0	0	0	0
Koraput (R)																													
Bihar Plateau																													
Dumka .	31.7	+0.3	34.1	2	25.3	0	23.2	21	239.3	512.0	+183.3	155.2	3	15	—2.6	9.1	6.3	+2.9	0	22	0	0	5	0	0	0	0	0	0
Daltonganj .	32.5	+1.0	34.6	28	25.4	+0.5	23.9	20	122.4	219.8	—123.3	38.4	31	13	—3.4	7.5	5.8	+0.5	0	19	0	2	0	0	0	0	0	0	0
Hazaribagh .	29.0	+0.1	31.2	2,12	23.1	+0.2	22.1	23	100.2	184.2	—151.3	29.3	12	14	—3.6	10.7	8.7	—0.8	0	20	0	0	15	0	0	0	0	0	0
Dhanbad .	31.1	..	33.5	2	24.8	..	21.7	22	90.2	243.4	..	47.4	3	15	..	10.0	7.5	..	0	19	0	0	8	0	0	0	0	0	0
Ranchi . .	30.0	+1.5	35.1	14	22.7	0	21.3	14,15	65.5	191.3	—160.2	28.3	22	13	—5.6	8.3	6.1	—1.3	0	16	0	0	1	0	0	0	0	0	0
Ranchi Aerodrome.	28.7	..	30.7	30	22.8	..	24.6	2	..	186.6	..	66.3	21	11	..	(j) 12.6	10.7	..	5	15	0	0	6	0	0	0	0	0	0
Jamshedpur .	32.1	+0.5	33.9	11,12	25.9	+0.3	24.8	3,24	168.8	271.0	—120.4	67.2	3	11	—7.0	9.4	7.1	+0.7	1	17	0	0	7	0	0	0	0	0	0
Jameshdpur(P. B.O.)	31.5	..	33.4	1,3	25.4	..	24.1	3,24	180.1	248.6	..	80.0	3	11	..	9.3	6.9	..	1	17	0	0	13	0	0	0	0	0	0
Chaibasa .	31.7	+0.4	33.5	28	25.0	+0.1	23.0	23	114.4	184.6	—126.3	36.2	23	12	—4.6	5.4	3.5	+0.1	0	14	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari .	29.1	—2.8	31.9	10	25.5	—0.2	22.2	23,30	175.4	424.5	+95.1	64.0	21	15	+1.8	(O) 8.5	..	..	1	16	0	0	0	0	0	0	0	0	0
Forbesganj .	31.6	..	34.6	13	25.3	..	24.1	29	204.8	624.2	..	94.8	21	20	..	11.2	7.7	..	0	26	0	0	8	0	0	0	0	0	0
Darbhanga .	31.7	0	35.0	11,12	24.7	—1.5	21.3	28	129.2	382.7	+39.6	87.8	18	15	+1.2	11.7	8.5	+3.4	0	15	0	0	0	0	0	0	0	0	0
Muzaffarpur .	..	..	..	..	..	..	..	..	..	523.1	+204.1	145.4	21	14	+0.4	..	..	..	0	15	0	0	0	0	0	0	0	0	0
Chapra . .	31.8	..	34.8	11	25.8	..	24.0	19	157.3	348.0	+61.5	74.0	3	15	+1.6	11.0	6.7	..	0	19	0	0	0	0	0	0	0	0	0
Purnea . .	31.0	—0.7	33.6	11	25.7	—0.1	24.1	2	185.4	353.0	+19.0	78.6	21	21	+4.8	7.6	4.6	+0.9	0	27	0	0	4	0	0	0	0	0	0
Patna . .	31.6	—0.1	35.3	11	26.5	0	24.2	20	107.0	220.6	—111.9	43.4	19	12	—1.9	8.0	7.9	+1.6	0	16	0	0	2	0	0	0	0	0	0
Patna Aerodrome.	31.4	..	35.0	11	26.3	..	24.3	22	129.3	252.6	..	74.4	19	16	..	9.5	7.2	..	1	19	0	0	10	0	0	0	0	0	0
Arrah . .	..	..	..	..	..	..	..	..	..	232.2	—87.1	75.0	18	13	—1.6	..	..	..	0	15	0	0	0	0	0	0	0	0	0
Bhagalpur .	31.7	—0.6	35.2	11	25.8	—0.5	24.1	30	130.4	175.2	—75. 7	40.3	3	14	+0.3	8.7	6.5	+0.5	1	20	0	0	12	0	0	0	0	0	0
Sabaur .	31.5	—0.2	32.9	1	25.3	—0.9	22.8	31	130.6	229.8	—37.1	36.2	19	15	0	10.1	8.7	—0.3	2	21	0	0	16	0	0	0	0	0	0
Jamui .	31.7	..	34.3	12	26.1	..	25.0	4 days	259.4	427.6	..	82.4	3	13	..	6.3	4.8	..	1	17	0	0	4	0	0	0	0	0	0
Dehri . .	31.8	..	33.9	11,29	25.9	..	23.4	27	59.6	342.9	+7.1	77.3	5	17	+2.4	6.9	6.1	..	0	19	0	0	9	0	0	0	0	0	0
Gaya . .	32.0	—0.2	34.9	11	25.6	—0.1	18.5	3	72·6	363.1	+13.8	110.9	23	14	—1.7	(a) 12.6	(a) 10.3	+1.8	0	21	0	0	16	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri (R) .																													
Bahraich .	31·3	—1·0	34·4	11	25·6	—0·2	22·9	19	102·5	366·3	+41·4	68·6	18	14	+1·5	11·0	8·0	+4·5	0	20	0	0	10	0	0	0	0	0	0

(a) Mean of 30 days. (R) Register not received. (O) Mean of 16 days. (j) Mean of 21 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy d (2·5 m more		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East) (*Contd.*)																													
Nautanwa	31·4	..	34·8	3	..	..	..	..	131·4	634·8	..	140·9	18	15	..	3·8	2·8	..	0	16	0	0	0	0	0	0	0	0	0
Hardoi	32·0	—0·5	36·2	11	25·9	—0·2	23·3	18	210·6	415·7	+91·6	209·8	18	10	—3·2	9·4	7·2	+1·7	0	16	0	0	2	0	0	0	0	0	0
Gonda	30·9	—1·2	34·8	11	25·7	—0·1	21·1	25	112·2	690·8	+293·3	252·2	23	18	+4·5	5·1	5·9	+0·1	0	20	0	0	1	0	0	0	0	0	0
Lucknow	32·3	—0·2	36·3	5	24·6	—1·3	21·4	19	247·0	861·9	+69·8	87·1	18	15	+1·3	5·0	3·5	+0·4	0	19	0	0	4	0	0	0	0	0	0
Lucknow (Amausi).	32·4	—0·1	35·0	11	25·1	—0·3	22·4	19	202·9	829·6	+37·5	91·5	18	11	—2·7	13·7	11·5	..	0	18	0	0	12	0	0	0	0	0	0
Faizabad	31·1	..	33·9	11	25·8	..	23·3	19	121·0	463·8	..	125·8	23	17	..	2·2	3·9	..	0	24	0	0	8	0	0	0	0	0	0
Gorakhpur	31·4	—0·6	35·4	11	24·4	—1·5	22·5	19	258·8	605·8	+256·5	137·4	3	19	+4·1	[redacted]	..	..	0	24	0	0	1	0	0	0	0	0	0
Kanpur	32·3	+0·2	35·3	11	25·6	—0·3	22·7	18	242·4	410·4	+125·9	134·0	18	11	—2·3	13·9	11·3	+1·0	0	17	0	0	1	0	0	0	0	0	0
Kanpur (Aerodrome).	32·4	..	33·6	3	26·0	..	22·8	19	184·6	354·1	..	107·6	19	11	..	..	6·4	..	0	14	0	0	3	0	0	0	0	0	0
Sultanpur	31·5	..	35·6	11	24·7	..	22·7	20	174·6	387·2	..	84·4	23	17	..	7·7	6·2	..	0	17	0	0	9	0	0	0	0	0	0
Azamgarh	30·6	..	33·2	10	23·3	..	21·3	18,19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fatehpur	32·2	+0·1	35·4	12	25·5	—0·3	22·4	19	173·0	282·9	+28·1	63·2	19	15	+0·6	8·5	6·4	+1·3	0	19	0	0	5	0	0	0	0	0	0
Ballia	31·7	..	35·0	11	25·1	..	23·0	3	185·5	433·5	..	130·8	3	14	..	2·7	2·2	..	0	18	0	0	0	0	0	0	0	0	0
Banda	34·3	..	37·8	27	24·0	..	21·7	19	174·9	290·9	..	47·4	12	17	..	5·8	3·5	..	0	19	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	32·2	+0·3	36·0	11	25·7	—0·1	23·8	19	125·7	307·5	+52·7	69·0	19	15	+0·3	7·8	6·2	—0·7	0	19	0	0	14	0	0	0	0	1	0
Varanasi (Babatpur).	31·9	—0·3	35·1	11	26·2	+0·1	23·8	19	87·3	132·3	+192·0	137·6	23	18	+5·8	15·8	12·0	+2·9	0	20	0	0	12	0	0	0	0	0	0
Varanasi	31·8	—0·2	34·8	11	26·1	+0·3	23·7	19	68·6	487·2	+182·1	122·2	23	15	+0·1	8·0	6·2	+1·1	0	16	0	0	1	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mukhim (R)																													
Tehri (R)																													
Dehra Dun	29·4	+0·2	31·7	5	21·7	—1·0	19·9	20	262·0	728·2	—3·1	154·0	11	24	+2·7	4·8	3·8	+1·5	0	25	0	0	11	0	0	0	0	0	0
Mansiari (R)																													
Roorkee	33·1	+1·0	35·8	3	25·4	+0·3	21·9	4	63·7	137·5	—147·5	44·5	4	8	—3·8	8·5	6·0	+2·8	0	10	0	0	6	0	0	0	0	0	0
Najibabad	32·5	..	34·8	4,6	24·6	..	22·8	20	55·6	147·0	..	44·4	11	10	..	6·5	5·1	..	0	12	0	0	10	0	0	0	0	0	0
Meerut	33·4	+0·6	37·2	7	25·3	—0·4	22·2	19	..	118·6	—104·9	40·0	19	5	—4·8	..	12·4	..	0	7	0	0	0	0	0	0	0	0	0
Bareilly	31·9	—0·4	35·7	6	25·2	—0·5	22·5	5	252·5	528·3	+233·7	117·0	30	15	+2·7	9·4	7·3	+4·4	0	20	0	0	5	0	0	0	0	0	0
Aligarh	33·7	+0·6	37·3	7	25·7	0·0	23·0	19	72·7	56·2	—145·2	45·4	19	2	—7·4	20·2	14·0	+7·4	0	9	0	0	0	0	0	0	0	0	0
Mainpuri	33·1	—0·1	37·1	6,11	27·6	+1·8	25·0	19	106·2	231·3	+1·4	63·8	17	10	—0·5	5·1	3·4	+0·3	0	13	0	0	4	0	0	0	0	0	0
Agra	33·7	+0·7	375·5	7	26·0	—0·1	23·0	19	144·9	242·4	+36·5	99·1	19	10	—0·3	8·1	5·3	—0·7	0	12	0	0	0	0	0	0	0	0	0
Agra (Aerodrome).	33·5	..	38·0	11	25·9	..	23·3	19	159·8	258·2	..	95·9	19	10	..	..	..	..	0	13	0	0	7	0	0	0	0	0	0
Orai (R)																													
Jhansi	32·4	+0·6	36·5	11	25·2	+0·3	23·8	6	83·2	118·0	—176·4	28·2	14	11	—2·3	5·6	4·4	—1·2	0	13	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	33·6	+1·1	36·2	8	24·2	+0·2	19·6	29	97·1	436·4	+0.6	107·0	13	13	—1·6	8·0	6·8	0	2	17	0	0	14	0	0	0	0	0	0
Amritsar (Rajasansi)	34·6	+0·4	38·7	2	25·1	—0·4	21·4	21	51·3	154·6	+1·5	65·4	30	7	—0·7	12·4	10·0	+1·2	0	8	0	0	9	0	1	0	0	5	0
Adampur (Aerodrome.	33·8	..	37·1	4	25·2	..	22·2	13	92·5	262·2	..	73·7	13	10	..	..	..	..	0	12	0	0	11	1	0	0	0	0	0
Ludhiana	35·1	+0·2	39·8	7,8	25·7	—0·5	22·3	19,20	55·5	143·7	—25·2	68·3	18	7	—0·3	7·8	5·0	+2·6	1	9	0	0	5	0	0	0	0	0	0
Ferozepur	36·5	..	40·2	8	23·6	..	16·2	21,29	22·4	116·0	..	51·4	21	4	..	3·6	2·8	..	0	4	0	0	4	0	0	0	0	0	0
Halwara (Aerodrome).	34·9	..	39·3	8	25·5	..	21·9	19	85·5	205·7	..	104·8	14	9	..	..	..	..	0	9	0	0	7	0	0	0	0	0	0
Chndigarh	34·6	+1·8	39·4	7	25·4	+1·9	21·6	19,30	67·4	95·4	—167·9	41·2	19	4	—7·6	9·8	8·3	..	0	5	0		0	0	0	0	0	0	0
Ambala	34·6	+0·6	39·5	7	25·7	+0·1	22·5	19,20	63·0	89·6	—110·8	66·6	19	4	—5·0	8·5	7·7	+4·0	0	6	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome).	33·6	..	37·9	4	25·3	..	22·4	19	65·9	141·7	..	64·9	19	5	..	..	..	..	1	9	0	0	11	0	1	0	0	0	0
Patiala	34·5	..	40·4	7	26·2	..	22·2	19	61·1	91·6	—153·8	52·2	19	6	—3·2	8·6	8·1	..	0	11	0	0	1	0	0	0	0	0	0
Bhatinda	36·6	..	40·3	8	26·8	..	21·7	19	36·8	81·0	..	41·0	19	4	..	6·6	4·6	..	0	5	0	0	0	0	0	0	0	0	0
Karnal	35·6	..	42·0	5	27·6	..	18·5	29,30	210·0	246·6	..	84·6	18	5	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Hissar	36·7	+1·0	39·9	8	25·9	—0·2	21·0	19	27·5	103·7	—20·0	75·4	19	4	—1·5	10·7	9·2	+1·3	0	6	0	0	6	0	0	0	0	0	0
New Delhi (Safdarjang)	34·4	+0·8	38·2	4	26·0	—0·1	21·5	20	39·5	84·6	—99·0	27·9	19	8	—1·0	13·3	11·3	+2·4	1	12	0	0	4	0	0	0	0	2	0
Palam (Aero drome).	34·3	..	38·2	4	25·7	..	21·4	19	75·5	113·8	..	31·3	19	6	..	..	..	..	1	6	0	0	7	0	0	0	0	0	0
Himachal Pradesh.																													
Mandi	30·6	0	33·4	4,24	22·0	+0·6	19·6	22	118·1	253·5	—245·8	49·2	10	14	—5·6	2·2	1·1	—1·1	0	23	0	0	2	0	0	0	0	0	0
Bilaspur	31·5	..	37·5	6	22·7	..	20·4	6	89·2	189·5	..	63·1	17	6	..	3·0	2·0	..	0	15	0	0	0	0	0	0	0	0	0

(R) Register not received.

Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Winds speed, Kms. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 10·2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	0	—14·0	0	..	0	—1·7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sonamerg	..	..	..	..	..	..	..	..	..	68·9	—23·0	11·4	21	10	+1·0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Leh	26·3	+1·9	30·7	7	10·4	+0·6	7·1	30	0·6	11·7	—13·3	1·2	19	0	—1·9	5·4	5·8	+3·1	0	2	0	0	0	0	0	0	0	0	0
Srinagar	30·6	+0·3	34·2	16	18·1	+0·7	14·9	29	2·1	34·3	—27·2	17·6	28	2	—3·3	5·6	4·6	+0·9	0	7	0	0	4	0	0	0	0	0	0
Srinagar (Aerodrome).	29·8	..	33·8	15	17·7	..	14·4	29	0	18·0	..	7·6	10	3	..	..	..	..	0	4	0	0	9	0	0	0	0	0	0
Gulmarg	21·1	+0·6	25·6	13	8·8	—2·1	4·4	22	0	39·3	—78·6	8·8	10	5	—4·9	7·2	4·1	—0·2	0	14	0	0	5	4	0	0	0	0	0
Banihal	28·3	..	29·6	5 days	18·0	..	14·1	29	11·7	67·6	..	21·3	18	7	..	..	..	..	0	9	0	0	5	0	0	0	0	0	0
Jammu	35·9	+2·7	37·2	1	20·9	—4·5	18·7	4	..	42·0	—256·5	25·0	5	3	—8·1	..	4·4	..	0	3	0	0	0	6	0	0	0	0	0
Jammu (Aerodrome).	33·5	..	37·8	8	25·6	..	21·1	21	12·4	380·6	..	94·0	9	15	..	..	..	..	0	15	0	0	13	0	0	0	0	0	0
Rajasthan (West)																													
Ganganager	38·5	+1·1	42·2	9	27·7	+0·4	22·1	19	13·5	43·7	—25·8	26·5	31	3	—1·6	7·6	6·3	+0·2	0	4	0	0	2	0	2	0	0	0	0
Anupgarh (R)																													
Mahajan	38·5	..	44·8	12	..	..	..	..	13·0	43·5	..	22·0	13	4	..	(d) 6·1	4·9	..	0	6	0	0	0	0	0	0	0	0	0
Churu	36·5	..	40·3	9	26·5	..	22·5	20	38·3	53·0	..	21·7	13	3	..	14·6	12·5	..	0	7	0	0	9	0	0	0	0	0	0
Bikaner	38·0	+1·6	42·0	9	26·7	—0·2	23·1	31	4·8	52·4	—39·0	43·6	31	3	—1·9	10·5	10·1	0	0	3	0	0	5	0	0	0	0	0	0
Nagaur	32·8	..	38·0	10	25·8	..	21·9	2	28·7	23·1	..	15·2	31	3	..	13·5	13·0	..	0	3	0	0	0	0	0	0	0	0	0
Phalodi	36·0	..	39·1	9	26·6	..	24·6	24	26·4	71·4	—9·1	35·4	9	3	—1·4	21·6	18·5	..	0	3	0	3	0	2	0	0	0	0	0
Jaisalmer	36·1	..	40·7	10	25·2	..	20·6	7	86·8	86·8	..	40·4	11	3	..	18·6	15·6	..	0	3	0	0	0	0	0	0	0	0	0
Jodhpur	34·2	+1·0	39·6	10	25·6	+0·6	23·1	13	39·9	60·8	—62·1	31·2	3	4	—1·9	15·1	12·5	—2·1	0	11	0	0	4	0	0	0	0	1	0
Barmer	35·5	+1·9	39·4	9	25·2	+0·3	23·6	19	65·5	139·9	+6·0	64·5	18	6	+0·2	11·8	8·6	—1·7	0	9	0	0	5	0	0	0	0	0	0
Munabao	(l) 37·1	..	..	..	..	..	..	..	..	105·7	..	..	..		..	(k) 18·0	(l) 14·3	..	..	..	0	0	0	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	35·8	..	39·4	8	26·8	..	24·1	29	73·5	98·5	..	27·6	19	9	..	17·7	15·1	..	0	10	0	0	0	0	0	0	0	0	0
Sikar	34·0	..	37·9	12	23·8	..	21·9	12	61·2	121·5	..	37·5	12	7	..	14·5	10·4	..	0	9	0	0	0	0	0	0	0	0	0
Alwar	34·2	..	38·0	8	27·1	..	23·4	19	155·0	178·8	..	114·4	28	6	..	4·8	3·5	..	0	14	0	0	0	0	0	0	0	0	0
Jaipur	33·0	+0·3	37·8	12	24·6	+0·2	21·9	19	84·7	143·7	—61·0	54·9	28	10	—0·2	..	..	..	0	14	0	0	12	0	0	0	0	2	0
Dholpur (Sanganer).	33·4	..	37·0	11	26·2	..	23·6	19	89·6	104·3	..	44·2	19	7	..	8·6	6·6	..	0	11	0	0	9	0	0	0	0	0	0
Ajmer	32·3	+1·4	38·4	11	24.4	0	21·9	13	22·4	67·7	—103·7	14·8	16	8	—0·4	14·2	13·1	+4·9	0	11	0	0	7	0	0	0	0	0	0
Tonk	33·6	..	38·1	11	25·4	..	22·4	19	90·8	186·8	..	41·6	29	11	..	14·0	9·5	..	0	15	0	0	0	0	0	0	0	0	0
Bhilwara	31·6	..	36·5	10	23·9	..	22·5	23,29	74·7	220·4	..	66·4	14	12	..	10·8	9·8	..	0	14	0	0	1	0	0	0	0	0	0
Kota (Aerodrome).	32·3	..	38·0	11	24·9	..	22·7	12	184·6	321·9	..	66·2	15	14	..	15·5	13·4	..	0	17	0	0	10	0	0	0	0	0	0
Kota	32·3	+0·3	39·4	1	21·3	—4·1	18·2	27	141·8	276·6	+31·2	54·6	30	12	+1·6	10·4	5·7	+0·2	0	16	0	0	11	0	0	0	0	0	0
Erinpura (Jawai Dam).	32·0	..	36·9	10	24·5	..	22·5	24	69·9	104·2	..	24·9	14	8	..	5·0	4·9	..	0	9	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhata Dam).	31·3	..	36·7	11	24·5	..	21·9	29	115·6	260·1	..	67·3	28	11	..	11·1	8·0	..	0	15	0	0	10	0	0	0	0	0	0
Udaipur	29·8	+0·1	34·4	9	23·3	+0·1	20·9	24	60·9	102·7	—75·4	43·6	14	9	+0·4	5·7	4·0	..	0	16	0	0	8	0	0	0	0	0	0
Jhalawar	30·9	+0·3	36·2	11	24·5	+0·6	22·7	29	93·9	288·1	—4·2	74·6	29	14	+1·2	9·6	7·4	+1·1	0	16	0	0	6	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	32·5	+0.6	36·2	12	25·8	+0·5	24·4	29	9·1	68·5	—161·9	23·2	14	7	—5·7	13·0	9·2	..	1	10	0	0	7	0	0	0	0	0	0
Sheopur	32·1	+0.8	36·3	11	24·9	+0·2	22·6	19	126·1	164·1	—185·9	44·0	19	8	—7·9	11·3	8·6	+2·0	0	15	0	0	13	0	0	0	0	0	0
Shivpuri	30·3	..	34·2	11	23·5	..	21·7	19	76·2	133·2	..	34·0	12	10	..	13·0	10·1	..	0	13	0	0	1	0	0	0	0	0	0
Nowgong	32·0	+0.8	35·9	12	24·1	—0·8	22·0	5	94·3	231·0	—101·5	37·6	31	13	—0·9	8·6	6·6	—0·4	0	15	0	0	5	0	0	0	0	0	0
Guna	30·0	+0.4	34·3	11	23·2	+0·1	21·9	24	35·6	119·0	—273·4	19·9	14	15	+1·4	16·1	12·2	..	0	19	0	0	10	1	0	0	0	0	0
Nimach	29·5	+0.2	34·2	10	23·1	+0·4	21·3	22	154·6	210·9	—21·6	47·0	13	11	+1·0	14·7	12·3	..	1	14	0	0	8	0	0	0	0	0	0
Rajgarh	30·6	..	35·0	11	23·7	..	21·5	24	130·5	254·9	..	55·8	14	11	..	13·3	10·7	..	0	13	0	0	2	0	0	0	0	0	0
Sagar	28·4	—0.2	33·0	11	21·2	—0·9	19·7	6	171·0	821·0	—463·6	196·0	15	18	+2·4	11·7	10·5	..	0	21	0	0	10	0	0	0	0	0	0
Ratlam	29·1	+0.7	33·0	10	22·5	0	21·2	20	102·6	196·0	—22·8	46·3	9	9	—4·3	14·0	11·1	+1·2	0	18	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh).	29·3	+0.6	33·4	11	22·6	0	21·2	24	126·6	279·5	+1·6	76·7	14	13	—1·8	19·6	15·6	+4·2	2	22	0	0	10	0	0	0	0	0	0
Ujjain	29·4	..	33·0	10	23·1	..	21·4	24	..	161·4	..	87·8	13	8	..	..	17·2	..	0	10	0	0	3	0	0	0	0	0	0
Narsinghpur	30·0	..	33·4	9	23·6	..	21·8	6	97·1	307·9	..	46·2	14	15	..	7·6	5·3	..	0	19	0	0	1	0	0	0	0	0	0

(d) Mean of 27 days (R) Register not received. (k) Mean of 20 days. (l) Mean of 19 days.

Division and station	Air temperature in °C								Rainfall in millimetres				No. of rainy days, (2.5 mm. or more)			Wind speed, kms. per hour			Weather phenomena—No of days with											
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West)—(*Contd.*)																														
Hoshngabad	30·0	+0·8	33·0	5	22·7	—0·9	21·2	23	83·3	195·6	—186·9	52·6	13	15	—0·7	7.5	6·6	+1·8	0	19	0	0	6	0	0	0	0	0	0
Indore	28·8	+0·7	33·2	4	22·2	+0·4	20·7	24	111·4	203·1	—3.9	79·4	13	11	—0·3	25.0	20·9	..	2	15	0	0	2	0	0	0	0	0	0
Rajpur (Jhabua).	29·9	..	32·8	8	22·9	..	21·8	13	31·4	153·8	..	65·4	9	6	..	14.6	12·4	..	0	8	0	0	0	0	0	0	0	0	0
Chhindwara	28·4	+0·6	31·1	11	22·2	+0·3	20·4	23	246·1	375·9	+112·2	92·4	11	16	+2·4	10.1	6·6	—1·5	0	21	0	0	4	0	0	0	0	0	0
Seoni	28·7	+0·5	31·1	24	22·3	+0·4	21·3	6	181·9	384·8	+46·7	75.2	30	18	+1·5	12.0	7·3	+1·2	1	21	0	0	7	0	0	0	0	0	0
Betul	27·7	+0·6	30·3	5,10	22·0	+0·1	20·7	24	120·1	280·9	+11·9	52·8	28	17	+2·3	11.1	7·9	+0·1	0	21	0	0	4	0	0	0	0	0	0
Khandwa	28·7	—1·2	31·7	5	23·6	+0·3	22·4	13,14	24·6	205·2	+46·5	54·0	10	12	+2·1	16.0	12·5	+1·6	0	18	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																														
Satna	30·9	+0·9	34·1	11	24·4	—0·2	22·6	5	201·2	384·1	+48·8	132·6	6	18	+2·9	8.2	7·2	+0·3	0	19	0	0	9	0	0	0	0	0	0
Sidhi	31·1	..	33·9	11,29	25·0	..	23·8	5	195·2	249·4	..	39·2	20	15	..	10.0	5·9	..	0	15	0	0	0	0	0	0	0	0	0
Umaria	29·6	+0·2	33·0	17	23·5	—0·1	21·4	5	118·2	371·5	+38·3	76·0	25	18	+2·0	8.6	6·7	+0·4	0	23	0	0	4	0	0	0	0	0	0
Jabalpur	29·7	+0·5	33·6	12	23·7	+0·6	21·5	6	116·1	347·7	—83·3	98·5	13	19	+1·6	9.2	6·4	+1·4	0	25	0	0	13	0	0	0	0	0	0
Ambikapur	28·9	—0·3	31·4	13	22·7	—0·2	21·0	5,6	115·1	251·3	—213·4	41·6	18	18	—1·4	11.0	8·2	—0·3	0	24	0	0	3	0	0	0	0	0	0
Pendra	28·2	+0·3	30·2	11	22·5	+0·3	21·2	5	119·0	259·4	—104·3	56·8	13	14	—4·4	10.7	8·6	..	1	20	0	0	7	0	0	0	0	0	0
Mandla	29·0	—0·2	32·0	11	22·4	—0·7	20·4	6	118·6	399·8	—27·4	57·4	14	18	—0·6	6.9	4·5	+0·8	0	22	0	0	9	0	0	0	0	0	0
Champa	30·5	—0·3	33·5	30	24·1	—0·8	22·6	14	64·0	276·2	—224·4	91·6	11	17	—2·3	9.3	7·7	—0·5	3	26	0	0	16	0	0	0	0	0	0
Raigarh	31·0	0	33·6	13	24·4	—0·5	22·8	14	118·4	373·1	—134·6	75·2	4	18	—0·9	4.9	3·5	—3·0	0	20	0	0	4	0	0	0	0	0	0
Raipur	30·4	+0·5	32·7	26,27	24·0	+0·2	21·8	26	114·9	163·0	—200 7	46·4	13	11	—4·5	11.4	10·4	—1·5	3	20	0	0	10	0	0	0	0	0	0
Kanker	29·0	—0·1	32·0	10	23·8	+0·6	21·6	14	168·4	242·9	—68·0	83·4	13	13	—2·2	11.1	8·6	+0·6	0	14	0	0	3	0	0	0	0	0	0
Jagdalpur	28·2	—0·1	31·5	9	22·2	+0·2	20·3	13	166·5	402·1	—11·4	95·9	13	21	+2·1	8.6	6·9	..	0	25	0	0	14	0	0	0	0	0	0
Gujarzt Region																														
Deesa	32·7	..	36·6	9	24·8	..	23·1	24	24·7	107·6	..	53·8	18	7	..	12·1	10·1	..	0	12	0	0	0	0	0	0	0	0	0
Radhanpur	33·0	..	37·0	9	24·7	..	23·5	19,24, 25	14·0	110·7	..	40·0	9	5	..	11·7	9·8	..	0	8	0	0	0	0	0	0	0	0	0
Idar	31·2	..	34·1	9	24·3	..	22·5	23	56·2	159·3	..	38·8	17	12	..	10·1	7·2	..	0	13	0	0	1	0	0	0	0	0	0
Ahmadabad	32·5	+0·4	35·7	9	24·9	+0·5	23·4	1,2	23·5	169·9	—34·6	57·0	13	6	—5·0	6·6	5·9	—2·5	0	13	0	0	2	0	0	0	0	0	0
Dohad	29·9	+0·8	33·0	9	22·7	—0·6	21·5	13	111·4	289·8	+84·2	185·2	13	4	—8·2	22·5	21·6	—0·5	3	11	0	0	2	0	0	0	0	0	0
Baroda (Aerodrome)	32·4	..	35·8	8	25·2	..	24·1	13	41·9	121·3	..	37·3	13	4	..	11·7	11·1	..	0	9	0	0	1	0	0	0	0	0	0
Baroda	32·9	+1·3	35·6	30	25·6	+0·7	24·2	13	50·6	123·8	—140·1	40·4	14	6	—5·7	6·3	3·9	—3·1	0	13	0	0	0	0	0	0	0	0	0
Broach	32·0	+0·9	35·8	8	25·3	+0·2	24·2	20	53·4	97·7	—130·6	19·6	12	10	—2·2	11·4	10·7	+0 7	0	15	0	0	0	0	0	0	0	0	0
Surat	31·7	+1·4	33·4	26	26·0	+1·0	25·0	14	30·2	52·0	—137·2	8·9	13, 22	7	—5·4	12·3	12·1	+2·6	1	15	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Bhutakia Bhimasar (R) Naliya	30·2	..	33·4	9	25·0	..	23·8	29	21·4	79·0	..	47·6	16	5	..	20·0	15·2	..	0	6	0	0	3	0	0	0	0	0	0
Bhuj (Rudramata)	32·7	+0·9	36·5	9	25·5	+0·6	24·4	26	67·5	74·0	—0·4	60·5	16	3	—0·7	19·5	16·3	—2·4	3	7	0	0	3	0	0	0	0	0	0
Kandla (Aerodrome)	32·7	..	36·3	9	24·7	..	23·4	20	48·2	64·4	..	38·5	16	5	..	30·2	26·0	..	1	7	0	0	4	0	0	0	0	0	0
New Kandla	31·8	..	34·4	9	25·9	..	24·5	19	31·4	48·4	..	18·0	16	5	..	28·8 (d)	26·1 (c)	..	0	11	0	0	2	0	0	0	1	0	0
Mandvi	30·1	—0·2	31·4	9	26·0	—0·1	24·8	14,16	103·3	133·3	+58·9	105·0	16	3	—1·8	36·3	33·8	+0·7	0	6	0	0	1	0	0	0	2	0	0
Surendranagar	33·3	+0·8	36·2	5	25·6	+0·8	23·8	24	23·6	164·3	—9·1	79·2	14	8	+1·1	16·2	16·1	—0·7	0	9	0	0	2	0	0	0	0	0	0
Jamnagar (Aerodrome)	31·9	+0·5	34·6	9	25·2	—0·2	23·8	19	98·2	119·0	+21·2	88·9	16	5	—0·2	..	..	..	0	11	0	0	1	0	0	0	0	0	0
Dwarka	29·2	—0·1	31·3	9	25·3	—0·6	23·7	16	58·0	150·8	+85·3	53·4	15	6	+2·2	22·1	22·3	+2·0	0	9	0	0	0	0	0	0	0	0	0
Rajkot	31·9	+0·8	35·3	9	24·1	+0·4	22·5	25	70·4	119·0	—91·5	42·2	15	8	—1·2	28·1	24·2	+1·0	1	13	0	0	3	0	0	0	1	0	0
Bhaunagar (Aerodrome)	33·6	+0·9	36·4	5	25·3	+0·3	23·5	24	30·5	81·3	—54·1	27·0	10	6	—1·3	24·7	22·5	+5·3	0	7	0	0	1	0	0	0	0	0	0
Porbander (Aerodrome)	29·4	..	30·9	9	25·4	..	23·6	14	135·0	251·9	..	130·4	14	6	..	21·8	18·5	..	0	13	0	0	0	0	0	0	0	0	0
Porbander	29·4	+0·1	30·7	13	25·6	0	23·7	14	150·0	296·9	+147·6	118·8	14	7	—1·5	17·0	17·0	—1·8	0	13	0	0	0	0	0	0	0	0	0
Keshod	30·4	..	32·2	8,12	24·4	..	22·9	14	31·4	135·0	..	63·6	14	6	..	28·9	22·3	..	3	16	0	0	0	0	0	0	0	0	0
Mahuva	31·7	..	34·6	11	..	..	..	..	10·8	23·8	..	5·0	16	4	..	17·5	14·9	..	0	9	0	0	0	0	0	0	0	0	0
Veraval	29·3	..	30·7	11	25·0	..	23·7	16	105·4	218·5	+126·8	105·2	16	5	—0·9	20·1	20·9	..	2	18	0	0	0	0	0	0	0	0	0
Konkan																														
Dahanu	29·4	+0·1	31·1	22	25·1	+0·1	23·8	23	155·7	381·3	—115·7	88·2	14	19	—0·3	24·7	22·7	—1·5	0	27	0	0	0	0	0	0	1	0	0
Bombay (Santa Cruz)	29·3	+0·1	30·6	5	24·3	+0·3	22·8	14	174·0	448·1	+13·8	134·2	14	23	—0·3	19·9	16·9	..	1	30	0	0	0	0	0	0	0	0	0
Bombuy	30·0	+0·6	31·2	24	25·0	+0·5	23·3	14	142·0	396·9	+56·8	168·0	14	20	+1·0	10·9	10·4	—5·5	2	29	0	0	0	0	0	0	0	0	0
Alibag	29·0	+0·2	30·2	29	24·8	—0·2	23·5	14	..	483·1	+65·5	92·9	14	22	+0·9	..	25·1	+1·4	0	30	0	0	0	0	0	0	0	0	0
Bhira	27·5	..	30·2	26	..	..	..	..	654·3	1520.6	..	157·8	15	30	..	3·8	2·9	..	0	31	0	0	0	0	0	0	0	0	0

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, Kms. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	21(b)	21	22	23	24	25	26	27	28	29
Konkan—(con'd.)																													
Harnai	28·1	+0·1	29·4	31	24·3	—0·2	22·5	14	173·2	535·6	—12·5	96·4	10	26	+3·6	21·0	21·4	+1·5	0	29	0	0	0	0	0	0	0	0	0
Ratnagiri	28·3	..	30·0	30	..	..	..	..	236·6	648·0	+162·1	120·8	7	28	+4·7	20·0	19·2	..	0	31	0	0	0	0	0	0	0	0	0
Devgarh	28·5	—0·4	29·9	31	24·1	—0·4	23·0	6,7	246·6	618·2	+177·1	93·8	7	25	+2·5	25·1	25·0	—0·4	0	29	0	0	0	0	0	0	0	0	0
Vengurla	28·5	—0·2	29·9	29	23·7	—0·2	22·3	15	346·6	831·7	+272·8	138·9	10	26	+1·4	10·7	7·9	..	2	29	0	0	1	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	30·7	..	33·6	8	23·8	..	22·2	21	22·6	82·0	..	26·0	12	8	..	14·1	11·7	..	0	13	0	0	0	0	0	0	0	0	0
Jalgaon	32·4	+1·2	35·4	4	23·6	+0·2	22·3	20	19·6	45·1	—125·3	10·0	18	7	—4·5	21·2	16·5	+4·0	0	13	0	0	2	0	0	0	0	0	0
Malegaon	31·4	+0·7	34·8	8	22·5	+0·3	21·0	23,29	28·7	104·8	+27·6	45·7	10	4	—1·3	15·5	12·6	—1·2	0	11	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	27·2	..	29·3	6,26	21·5	..	20·8	30	71·0	141·7	..	25·4	8	12	..	19·9	16·4	..	0	14	0	0	0	0	0	0	0	0	0
Ahmadnagar	30·2	+0·6	33·0	25,26	20·7	+0·1	19·3	26,29	77·2	110·1	+41·0	48·4	10	7	+2·4	13·3	9·5	—4·7	0	11	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	452·4	+190·0	321·6	14	31	+1·7	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	27·7	..	31·2	31	20·8	..	19·2	25	32·2	73·4	..	18·8	14	7	..	..	..	..	0	18	0	0	1	0	0	0	0	0	0
Poona	28·0	+0·4	30·8	31	20·8	—0·6	20·0	25	44·0	89·1	—1·1	22·9	14	7	—1·3	7·4	5·9	—8·4	3	24	0	0	0	0	0	0	0	0	0
Jeur	31·1	+0·4	34·3	9	21·1	+0·1	19·2	21	84·9	134·0	+45·6	36·4	16	11	+4·3	18·3	14·4	—1·2	0	12	0	0	0	0	0	0	0	0	0
Baramati	30·2	+0·8	33·2	31	21·4	—0·1	19·8	24	(a) 61·4	99·8	+13·2	49·2	9	8	+2·0	(a) 20·1	16·0	—0·6	0	11	0	0	2	0	0	0	0	0	0
Sholapur	31·0	—0·6	34·1	26	21·9	+0·2	20·6	20	46·8	119·1	+10·4	26·6	13	8	+1·0	12·1	9·9	—4·1	0	18	0	0	0	0	0	0	0	0	0
Miraj	28·4	+0·6	31·6	31	21·1	0	19·7	24	76·2	113·2	—6·4	21·8	27	11	+1·8	..	..	..	0	16	0	0	3	0	0	0	0	0	0
Kolhapur	26·6	+0·2	30·2	31	20·9	—0·1	20·1	15	65·8	176·0	—45·5	26·9	14	16	—2·5	20·6	16·2	—1·0	1	22	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	30·3	+1·0	33·2	26	21·2	+0·3	20·0	21	27·6	62·8	—58·9	11·6	14	9	+0·1	19·5	18·1	+1·8	2	17	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	30·0	..	32·6	26	20·0	..	18·7	20	36·7	66·9	..	11·2	29	9	..	22·2	18·3	..	1	16	0	0	4	0	0	0	0	0	0
Parbhani	31·3	+0·4	34·5	26	22·2	—0·1	20·9	20	24·6	212·6	+52·1	39·4	28	11	+1·5	16·1	12·4	+0·1	0	14	0	0	2	0	0	0	0	0	0
Nander	(g) 31·9	..	..	..	..	..	..	..	51·8	279·3	..	54·4	27	11	..	8·9	8·7	..	0	15	0	0	0	0	0	0	0	0	0
Bir	31·3	..	34·9	8	22·2	..	20·5	6	9·0	236·9	..	89·0	31	9	..	11·7	8·9	..	0	15	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	30·2	+0·3	33·4	23	24·1	—0·1	21·9	6	114·2	290·3	—134·5	54·2	15	11	—5·9	7·4	5·5	—0·1	0	21	0	0	4	0	0	0	0	0	0
Nagpur (Sonegaon)	30·9	+0·2	33·5	5	23·8	0	21·8	8	134·9	280·5	—9·6	46·4	7	17	+3·7	18·6	13·5	..	1	17	0	0	10	1	0	0	0	1	0
Amraoti	30·2	+0·3	33·0	25	22·7	—0·1	20·9	18	38·9	181·6	+16·7	38·2	18	9	—0·8	17·9	12·8	+2·2	0	11	0	0	6	0	0	0	0	0	0
Akola	31·2	+0·4	34·7	6	24·1	+0·9	22·3	13	18·1	98·4	—62·1	27·4	9	9	—0·1	15·5	11·5	+1·2	0	13	0	0	0	0	0	0	0	0	0
Bramhapuri	30·2	..	33·0	27	24·1	..	22·1	14	97·0	396·2	..	89·4	11	13	..	9·9	7·7	..	0	17	0	0	3	0	0	0	0	0	0
Buldana	29·3	+1·9	33·0	8	..	..	..	..	34·4	161·5	—29·5	69·8	13	9	—3·2	(a) 14·1	(b) 10·8	—0·6	0	12	0	0	0	0	0	0	0	0	0
Yeotmal	29·6	+0·3	33·0	5	22·6	+0·4	20·8	27	158·2	290·6	+23·6	68·1	11	11	—2·0	20·4	17·0	+0·9	0	14	0	0	3	1	0	0	0	0	0
Chanda	31·1	+0·4	33·9	24,26	24·6	+0·6	22·6	14	130·7	75·4	—44·6	56·8	14	12	—2·8	13·0	8·8	+1·4	0	18	0	0	9	0	0	0	0	0	0
Pusad	31·4	..	34·8	26	23·3	..	21·5	27	68·5	290·3	..	67·2	9	11	..	15·4	11·2	..	0	15	0	0	0	0	0	0	0	0	0
Sironcha	31·2	+0·5	34·4	26	24·3	—0·2	22·1	13	109·6	302·3	—132·6	63·4	13	17	+0·7	8·4	6·6	+1·0	0	22	0	0	4	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	31·7	—0·5	34·5	2	24·7	—1·2	21·4	5	0	62·3	—110·4	31·0	9	4	—5·5	17·0	13·1	+3·3	0	5	0	0	5	0	0	0	0	0	0
Vizhakhapatnam	32·1	—1·1	35·1	3,6	25·7	0	24·2	24	117·3	135·5	+4·4	46·5	27	9	+0·8	20·0	13·5	+1·3	0	15	0	0	6	0	0	0	0	0	0
Kakinada	31·2	—0·9	35·1	2	25·0	—0·7	23·2	13	110·4	373·6	+232·4	116·0	17	14	+4·4	13·3	10·3	+1·6	0	19	0	0	1	0	0	0	0	0	0
Nidadavole	30·5	..	33·8	1	24·8	..	22·6	26	82·2	251·2	..	58·0	8	11	..	11·1	9·8	..	0	17	0	0	1	0	0	0	0	0	0
Rentachintala	33·7	—0·1	36·9	1	25·3	—0·5	23·6	26	19·6	112·2	+22·3	43·0	26	10	+2·2	13·1	9·9	—3·9	0	12	0	0	1	0	0	0	0	0	0
Gannavaram	31·3	—0·8	35·5	26	25·0	—0·1	23·7	8	55·1	219·4	+15·1	52·4	9	12	+0·1	14·8	11·7	—3·6	3	18	0	0	7	0	0	0	0	0	0
Nagarjna Konda	34·0	..	36·3	31	25·8	..	24·3	13	0·4	47·1	..	14·8	13	5	..	11·5	18·1	..	0	8	0	0	3	0	0	0	0	0	0
Masuliapatam	31·4	—1·5	35·0	6	24·9	—0·6	23·4	3	159·6	161·5	+2·5	33·1	3	13	+2·8	4·9	3·8	—5·9	0	18	0	0	9	0	0	0	0	0	0
Ongole	32·9	..	37·9	7	26·1	..	24·1	31	40·3	63·8	..	18·2	22	6	..	14·5	10·2	..	0	13	0	0	0	0	0	0	0	0	0
Nellore	34·7	—0·9	37·4	1	26·0	—0·3	23·7	19	44·9	75·2	—1·5	30·3	31	4	—1·5	10·8	7·3	—1·6	0	8	0	0	0	0	0	0	0	0	0
Telangana																													
Ramgundam	31·8	+0·3	35·2	26	24·8	+0·2	22·3	13	124·0	268·8	+38·1	53·0	13	13	—1·2	9·1	7·4	+1·3	0	18	0	0	4	0	0	0	0	0	0
Nizamabad	29·0	—1·4	33·9	27	22·9	+0·1	21·0	13	91·6	370·2	+122·3	78·4	27	15	+1·3	11·5	8·6	+0·9	0	16	0	0	0	0	0	0	0	0	0
Hanamkonda	31·1	+0·7	33·8	26	23·3	—0·6	21·4	13	27·8	283·6	+106·3	100·8	9	12	+1·3	14·0	11·1	+1·4	0	14	0	0	1	0	0	0	0	0	0
Hakimpet (Aerodrome)	28·4	..	31·3	31	21·4	..	20·3	15	53·2	335·4	..	80·8	12	12	..	..	..	..	0	18	0	0	10	0	0	0	0	0	0
Bhadrachalam	31·5	+0·2	34·6	26	24·6	0	22·6	13	23·0	283·3	+1·6	60·0	8	13	—1·4	8·1	6·7	—0·5	0	18	0	0	2	0	0	0	0	0	0

(a) Mean or total for 30 days. Mean of 24 days. (b) Mean of 30 days. (c) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather pehnomena No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0330-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm.	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telangana—(Contd.)																													
Hyderabad (Begampet)	29·4	−0·2	31·7	26	21·9	0	20·4	14	17·1	212·3	+77·9	67·2	12	9	−0·9	21·2	18·7	+2·3	1	9	0	0	3	0	0	0	0	0	0
Khammam	31·8	..	34.2	31	24·6	..	22·4	13	61·6	188·4	..	31·2	9	13	..	10·3	6·5	..	0	14	0	0	1	0	0	0	0	0	0
Mahbubnagar	29·8	..	32·2	7,9	21·9	..	20·4	15	54·2	276·0	..	75·4	31	17	..	12·7	10·7	..	1	24	0	0	5	0	0	0	0	0	0
Rayalaseema																													
Kurnool	31·7	−0·8	33·9	1	23·6	+0·1	21 9	17	24·1	101·7	−12·6	43·2	17	11	+2·4	21·0	16·7	+1·9	0	19	0	0	4	0	0	0	0	0	0
Nandyal*																													
Anantapur	32·2	−0·4	34·6	1	23·6	0	22·5	5	14·7	71·2	−3·3	16·6	31	8	+3·2	20·0	17·2	−0·4	0	12	0	0	2	0	0	0	0	0	0
Cuddapah	32·9	−1·9	35·3	1	−24·6	−0·7	22·3	24	104·6	188·2	+55·1	49·8	24	12	+4·3	10·9	7·3	−3·3	0	19	0	0	0	0	0	0	0	0	0
Arogyavaram	30·2	..	32·5	11	21·8	..	20·0	17	7·8	65·8	..	18·6	17	6	..	17·5	14·0	..	0	9	0	0	0	0	0	0	0	0	0
Madras State																													
Madras (Nagambakkam)	33·8	..	37·5	3	25·1	..	22·4	18	..	169·9	..	63·1	23	15	..	..	9·3	..	0	17	0	7	0	0	0	0	0	0	0
Madras (Minambakkam)	33·8	−1·1	37·1	3	24·9	−0·7	22·1	18,28	112·8	238.1	+121.8	42·5	28	13	+5·1	14·8	11·1	−4·5	1	16	0	0	10	0	0	0	0	7	0
Vellore	34·0	0	36·9	21	24·5	−0·2	22·3	23	63·1	167.2	+21·4	48·6	23	13	+5·6	11·8	9·6	+3.2	0	14	0	0	11	0	0	0	0	0	0
Tambaram (Aerodrome)	33·8	..	37·3	6	24·5	..	21·9	21	110·6	188·0	..	85·0	7	11	..	..	..	..	0	13	0	0	8	0	0	0	0	0	0
Tiruppattur	32·8	..	35·8	15	22·3	..	20·2	23	46·9	233·5	..	77·0	23	7	..	10·8	(b) 7·2	..	0	7	0	0	0	0	0	0	0	0	0
Mettur Dam R.S.	32·4	..	36·6	21	24·0	..	21·6	22	22·4	97·9	..	28·2	21	9	..	6·6	5·7	..	0	13	0	0	2	0	0	0	0	0	0
Cuddalore	34·0	−0·6	37·7	2	24·1	−0·9	21·5	30	44·8	170·3	+43·4	41·3	23	10	+2·9	11·2	9·5	+2·7	0	15	0	0	11	0	0	0	0	0	0
Kallakkurichchi	34·1	..	37·0	6	24·3	..	21·0	23	30·6	228·0	+95·7	39·2	29	10	+2·4	9·7	8·7	..	0	17	0	0	2	0	0	0	0	0	0
Salem	33·3	−0·2	37·3	21	23·6	+0·7	21·4	22	11·8	263·0	+96·1	87·0	31	9	−0·9	9·6	7·6	+1·6	2	16	0	0	11	0	0	0	0	0	0
Coimbatore (Pilamedu)	30·7	..	33·6	21	21·7	..	20·2	19	4·5	24·4	..	11·2	31	5	..	34·6	28·8	..	0	7	0	0	4	0	0	0	0	0	0
Coimbatore	30·1	−0·7	33·2	21	20·8	−0·9	19·5	19	6·1	19·5	−11·7	8·0	7	4	+0·9	18·0	14·9	+6·2	0	7	0	0	0	0	0	0	0	0	0
Nagapattinam	34·1	−0·4	36·7	2,3	25·7	+0·3	22·5	28	23·8	179·0	+101·5	61·6	28	7	+2·1	13·3	10·9	+2·5	0	7	0	0	4	0	0	0	0	0	0
Tiruchchirappalli	35·3	−0·5	38·0	16	25·2	+0·1	22·8	21,23	6·7	94·4	−2·9	50·6	23	4	−0·7	27·3	24·5	0	0	13	0	0	7	0	0	0	0	0	0
Vedaranniyam	34·0	..	35·9	16	25·5	..	22·2	25	2·5	102·1	..	52·8	29	4	..	10·2	8·0	..	0	7	0	0	6	0	0	0	0	0	0
Atirampattinam	33·7	..	36·2	2	25·4	..	23·0	27	10·4	193·8	..	44·4	29	8	..	15·9	12·2	..	0	11	0	0	12	0	0	0	0	0	0
Madurai	35·9	+0·8	38·2	16	25·2	+0·5	22·1	31	2·2	128·6	+25·0	55·8	31	6	0	7·6	5·9	−0·2	0	8	0	0	1	0	0	0	0	0	0
Madurai (Aerodrome)	35·7	..	38·6	1	25·4	..	21·9	18	65·4	146·6	..	61·0	18	4	..	17·8	14·7	..	0	4	0	0	7	0	0	0	0	0	0
Tondi	32·7	..	37·4	3	26·1	..	24·1	29	0·2	19·8	..	13·6	29	2	..	20·5	15·4	..	1	3	0	0	1	0	0	0	0	0	0
Pamban	32·2	+0·5	34·7	29	26·0	0	24·5	30,31	0	3·0	−12·0	1·8	29	0	−1·0	18·4	16·2	+3.2	0	2	0	0	1	0	0	0	0	0	0
Tuticorin	34·1	−0·4	36·7	15	26·4	+0·1	24·7	18	0	28·1	+23·1	22·6	18	2	+1·2	22·7	19·6	+0·4	0	2	0	0	1	0	0	0	0	0	0
Palayancottai	35·3	+0·5	37·8	20	26·2	−0·2	24·8	10	3·8	3·8	−15·5	2·8	30	1	0	16·6	13·8	−3·8	0	3	0	0	1	0	0	0	0	0	0
Kanniyakumari	30·4	..	33·8	2,9	24·3	..	22·1	9	3·2	39·6	..	21·6	6	3	..	21·0	18·8	..	0	5	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	27·9	0	29·6	30,31	24·7	+0·6	23·6	15	261·0	976·6	+440·2	88·2	19	26	+1·8	15·5	13·9	..	0	30	0	0	0	0	0	0	0	0	0
Honavar	27·3	−1·4	29·9	31	22·6	−1·0	21·2	15	365·2	1230·3	+585·6	160·3	15	26	+0·7	10·5	10·2	+5·2	0	27	0	0	1	0	0	0	0	0	0
Mangalore (Bajpe)	27·6	..	29·8	31	22·6	..	21·2	15	376·7	1261·5	..	146·2	16	25	..	11·8	8·8	..	0	27	0	0	0	1	0	0	0	0	0
Mangalore	28·3	−0·5	30·2	1	23·9	+0·5	22·8	11	342·6	1084·6	+487·2	108·8	5	26	+0·9	9·9	8·5	+1·3	0	(b) 29	0	0	0	0	0	0	0	0	0
Interior Mysore North																													
Bidar	28·6	−0·3	31·0	25,26	21·1	0	20·2	14,20 25	38·7	247·2	+90·2	76·8	9	13	+2·6	18·5	17·4	−0·3	0	18	0	0	2	0	0	0	0	0	0
Gulbarga	30·5	−1·1	33·4	7	22·0	+0·1	20·4	15	30·4	206·8	+78·0	38·4	13	13	+5·3	17·9	15·0	+0·4	0	20	0	0	3	0	0	0	0	0	0
Bijapur	30·6	+0·2	34·0	27	21·7	+0·6	20·4	15,20, 22	70·1	75·1	+14·1	17·7	28	8	+4·3	14·6	13·3	−0·9	3	10	0	0	0	0	0	0	0	0	0
Raichur	31·5	−0·7	33·9	1	22·5	−0·1	21·3	26,28	46·1	176·2	+64·7	58·5	18	10	+2·2	20·3	17·3	+1·9	0	20	0	0	0	0	0	0	0	0	0
Belgaum	25·6	0	29·3	31	20·1	+1·1	18·5	15	92·2	237·0	−1·0	43·2	14	14	−3·6	14·0	11·0	−1·8	0	23	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	25·7	..	29·3	31	20·3	..	18·8	15	92·4	160·4	..	28·4	14	11	..	20·9	17·0	..	0	21	0	0	1	0	0	0	0	0	0
Gadag	28·8	+0·1	31·5	27	20·8	0	19·1	15	61·9	121·4	+17·8	61·8	23	7	−1·3	18·9	16·7	+0·1	0	16	0	0	2	0	0	0	0	0	0
Interior Mysore South																													
Bellary	31·6	−0·9	33·8	1	23·7	+0·4	21·7	31	14·0	63·5	+3·0	25·0	31	7	+3·0	16·5	14·6	+1·9	0	7	0	0	0	0	0	0	0	0	0
Chitradurg	27·3	−0·8	30·0	31	20·7	+0·4	19·5	15	19·2	57·1	−28·8	9·4	7	10	+26	12·7	12·8	+0·9	2	15	0	0	2	0	0	0	0	0	0
Shimoga	26·9	−0·2	29·6	30	20·7	−0·3	19·3	15	86·4	162·4	+34·7	19·6	15	17	+2·9	7·9	5·3	−0·9	1	23	0	0	0	0	0	0	0	0	0
Agumbe	22·7	..	26·3	31	19·1	..	16·2	21	..	2897·0	..	195·4	8	30	..	..	4·6	..	0	30	0	0	0	0	0	0	0	0	0
Balehonnur	22·8	−0·5	27·3	22	18·3	−0·3	16·8	15	..	868·0	+273·6	125·7	7	24	−0·5	..	..	..	0	26	0	0	1	1	0	0	0	0	0

(b) Mean of 29 days

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mead between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—*Contd.*																														
Hassan	24·5	−1·4	28·3	31	18·6	+0·1	17·7	31	62·2	109·2	+10·1	22·4	7	14	+4·8	13·3	10·9	+0·9	0	18	0	0	0	0	0	0	0	0	0
Bangalore	27·2	−0·2	29·8	21	19·5	+0·8	18·1	31	53·2	129·7	+3·2	22·7	17	11	+1·7	16·0	14·1	+2·4	0	23	0	0	2	0	0	0	0	0	0
Bangalore (Aerodrome)	27·4	..	29·6	21	18·8	..	17·4	14	52·9	141·6	..	43·6	30	9	..	..	..	..	0	23	0	0	3	0	0	0	0	0	0
Mysore	27·5	−0·8	30·8	21,23	20·3	+1·0	19·3	6,27	20·9	73·9	−9·7	29·4	31	5	−2·0	17·5	14·8	+2·4	0	17	0	0	3	0	0	0	0	0	0
Kerala																														
Calicut	27·7	−0·6	30·4	1	23·3	−0·2	21·9	5,7,9, 15,	278·0	589·6	+153·7	85·8	7	21	+1·7	11·1	9·9	+2·7	0	23	0	0	1	0	0	0	0	0	0
Palghat	28·5	..	31·0	31	22·6	..	21·3	15	201·0	460·0	..	96·0	4	23	..	14·3	12·1	..	0	26	0	0	2	0	0	0	0	0	0
Fort Cochin	28·0	0	29·5	1	23·6	−0·3	22·7	7	115·5	484·8	+132·0	58·2	6	16	−2·7	15·9	10·8	+2·8	0	23	0	0	0	0	0	0	0	0	0
Cochin (Naval Air Station)	29·0	..	30·3	16	23·6	..	21·9	2	125·6	477·9	..	55·1	7,26	16	0	8·1	8·3	..	1	19	0	0	1	0	0	0	0	0	0
Alleppey	29·0	+0·1	30·4	24,25	23·3	−0·3	22·1	8,9	123·0	375·8	−2·0	44·8	9	19	−0·6	14·9	11·3	+0·5	0	23	0	0	1	0	0	0	1	0	0
Punalur	29·9	..	32·8	23	22·5	..	21·3	11,15	109·3	339·6	..	50·0	26	22	..	6·1	4·5	..	0	22	0	0	0	0	0	0	0	0	0
Trivandrum	29·9	+0·8	31·6	21	23·3	0	21·9	9	24·2	156·9	+36·8	35·5	6	9	−0·8	16·0	11·0	+0·4	3	26	0	0	2	0	0	0	0	0	0
Trivandrum Aerodrame	29·7	..	31·0	29	23·3	..	22·1	6,8	..	183·9	..	50·2	26	6	..	..	8·7	..	0	18	0	0	2	0	0	0	0	0	0
Arabian Sea Islands																														
Amini **																														
Minicoy **																														
Hill Stations (Excluding Kashmir)																														
Dalhousie	23·4	+0·7	27·0	3	17·5	+1·0	15·5	4	129·0	680·0	+60·0	90·0	10	23	+1·7	2·1	0·2	−1·9	0	25	0	0	0	0	0	0	0	0	0
Dharmsala	26·4	+0·1	28·9	3,4,7	20·4	−0·1	18·4	22	214·9	1079·7	+43·5	190·4	13	23	−0·7	3·5	23	−1·3	0	27	0	0	8	0	0	0	0	0	0
Simla	20·3	+0·1	24·0	3	15·3	+0·2	13·8	22	127·6	213·5	−214·5	43·9	28	18	−1·7	2·3	1·8	+0·3	0	24	0	0	1	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	229·3	−89·7	36·0	29	16	−0·5	..	..	..	1	22	..	–	..	..	..	..	..	..	..
Lokpal	9·4	..	12·1	6	5·4	..	3·4	23	..	436·0	..	75·2	27	25	..	..	..	..	0	27	0	0	0	29	0	0	0	0	0
Badrinath (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Joshimath	23·4	..	26·1	25	17·4	..	15·1	31	24·4	222·0	..	27·0	2	20	..	5·1	2·7	..	0	24	0	0	1	25	0	0	0	0	0
Mussoorie	19·8	−0·3	23·3	5	15·0	−0·5	7·4	5	180·6	875·7	+181·3	201·6	18	24	+0·2	7·6	6·9	+1·1	0	25	0	0	4	23	0	0	0	0	0
Mukteshar (Kumaun)	20·7	+0·7	24·6	6	14·3	+0·2	12·9	30	141·0	287·8	−23·6	42·2	18	20	+2·1	10·5	12·7	+4·5	0	23	0	0	4	29	0	0	0	0	0
Nainital	20·7	−0·4	22·8	3, 4	16·6	+0·2	15·0	25	199·0	540·0	−20·7	65·5	2	24	+1·1	8·2	5·8	−1·2	0	27	0	0	0	3	0	0	0	0	0
Kalimpong	26·9	+2·7	29·1	3, 9	18·4	−1·2	15·6	26,27, 28	411·4	698·3	+193·4	127·0	18	17	−4·5	5·3	4·0	−4·5	0	17	0	0	0	0	0	0	0	0	0
Darjeeling	18·6	−0·8	20·7	8	15·1	−0·1	14·2	15	231·3	640·1	−34·5	80·4	2	26	+2·3	3·7	2·5	−0·4	0	28	0	0	3	12	0	0	0	0	0
Kohima	23·5	..	26·2	4,5	18·2	..	17·1	4 days	367·1	593·1	..	104·6	14	25	..	..	1·4	..	0	30	0	0	0	5	0	0	0	0	0
Shillong	23·3	−0·6	26·2	7	17·[illegible]	−0·1	15·5	25	158·5	337·4	+20·1	57·8	19	19	+0·5	5·0	3·8	+1·1	0	25	0	0	0	0	0	0	0	0	0
Cherrapunji	24·8	+2·3	26·3	2	19·6	+1·1	17·6	19,20, 21	582·0	1752·8	−27·2	366·5	19	29	+2·8	9·4	9·7	+2·3	0	30	0	0	4	25	0	0	0	0	0
Abu	23·8	+1·6	29·2	10	16·1	−1·9	14·3	24	119·0	313·6	−264·3	113·2	12	13	−4·4	12·0	9·8	−2·8	0	15	0	0	0	0	0	0	0	0	0
Aijal	24·7	..	29·7	2	19·4	..	17·8	19	189·6	538·9	..	84·2	20	25	..	8·3	10·1	..	0	26	0	0	0	0	0	0	0	0	0
Pachmarhi	24·0	+0·2	26·7	11	19·3	−0·1	17·8	23	197·4	398·0	−207·0	56·6	12	22	+0·1	9·9	10·4	+0·1	0	28	0	0	4	24	0	0	0	0	0
Mahabaleshwar	18·8	+0·1	20·0	26	16·5	+0·1	15·8	23	795·4	1932·2	+75·2	181·5	15	31	+1·2	19·5	18·2	+0·8	0	31	0	0	0	31	0	0	0	0	0
Mercara	20·9	+0·2	24·6	31	16·4	−0·3	15·4	14, 20	440·6	954·5	+273·8	121·6	6	27	+0·5	18·2	16·0	+5·7	0	28	0	0	0	0	0	0	0	0	0
Ootacamund	16·9	−0·2	20·5	21	10·1	−0·8	9·0	15,19, 20	60·8	166·8	+22·3	31·2	6	13	+0·7	14·1	7·8	−0·7	0	21	0	0	3	0	0	0	0	0	0
Coonoor (R)																														
Kodaikanal	17·5	+0·4	19·7	16	11·2	+0·1	10·1	14,15	140·0	180·2	+2·4	64·0	18	12	−0·1	14·5	16·9	+3·1	0	16	0	0	7	5	0	0	0	0	0
Nepal																														
Katmandu	27·3	..	29·8	8	19·7	..	17·9	18	49·5	313·5	..	44·5	6	22	..	1·2	1·0	..	1	29	0	0	4	0	0	0	0	0	0
Sikkim																														
Lachen	16·9	..	20·0	1,2	12·3	..	10·0	17	..	343·0	..	43·0	2	27	..	..	..	..	0	31	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																														
Tilaiya	30·5	..	33·6	12	25·0	..	23·6	18	109·4	186·3	..	42·4	5	16	..	11·9	9·4	..	1	19	0	0	0	0	0	0	0	0	0
Hazaribagh	28·8	..	30·9	2	22·9	..	21·8	23	94·3	189·2	..	33·0	12	15	..	10·2	6·8	.	1	21	0	0	8	0	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	130·3	181·0	..	39·6	2	14	..	..	..	..	0	23	0	0	8	0	0	0	0	0	0
Bokaro	31·4	..	33·7	31	25·1	..	22·4	13	106·9	195·6	..	24·1	5	15	..	11·1	8·0	..	1	22	0	0	19	0	0	0	0	0	0
Maithon	31·6	..	34·6	28	25·8	..	23·9	23	124·0	216·3	..	36·1	24	14	..	..	..	..	0	19	0	0	11	0	0	0	0	0	0

** Data given as addenda in December 1962 issue.

(R) Register not received.

Division and station.	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7		9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories Damodar Catchment (*Contd.*)																													
Ramgarh	31·4	..	33·9	2	24·	..	23·4	21	208·9	311·9	..	83·7	5	16	..	3·9	234	..	2	24	0	0	2	0	0	0	0	0	9
Panchet Hills	31·9	..	34·4	1	25	..	23·9	21	85·2	196·1	..	45·3	5	12	..	8·3	6·	..	1	19	0	0	11	0	0	0	0	0	0
Durgapur	33·0	..	35·1	1	24·5	..	21·7	21	132·8	344·1	..	90·0	18	13	..	18·1	10·8	..	0	18	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	29·8	..	31·9	1317 28	23·5	..	22·3	12,14	..	415·2	..	88·7	7	20	..	..	..	..	2	27	..	..	..	..	..	..	..	..	..
Hirakud	30·8	..	33·8	28	25·0	..	22·6	4	133·9	485·8	..	101·9	12	15	..	7·2	5·5	..	1	21	0	0	8	0	0	0	0	0	0
Bhimkund	30·3	..	32·2	28	23·7	..	22·6	14	155·0	216·7	..	44·0	24	14	..	5·1	3·0	..	0	21	0	0	20	3	0	0	0	0	
Sonepur	30·7	..	33·2	28,30	24·7	..	23·0	14	..	232·4	..	131·2	4	10	..	..	6·8	..	0	16	..	..	..	..	..	..	..	..	..
Khijrawan	28·5	..	31·4	29	23·4	..	21·3	6	124·5	235·3	..	48·0	13	17	..	11·9	8·4	..	0	18	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	29·8	..	33·1	5	23·7	..	22·8	11,13	92·1	308·7	..	108·0	11	12	..	8·4	6·4	..	0	18	0	0	4	0	0	0	0	0	0
Punasa	30·3	..	33·1	5,25	24·2	..	21·9	19	43·0	173·0	..	43·8	27	8	..	(d) 8·8	(d) 6·7	..	0	12	0	0	0	0	0	0	0	0	0
Thikri	31·9	..	33·9	8,17	24·3	..	22·9	14,17	..	148·7	..	37·4	12	10	..	..	..	..	2	15	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	31·5	..	33·0	8	25·1	..	23·6	18	21·6	112·0	..	38·0	13	9	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	23·9	..	30·5	1	13·5	..	11·7	19,29	2·0	53·3	..	24·2	7	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	89·8	1026·4	..	96·6	17	28	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Timure	25·1	..	27·8	14	17·1	..	15·1	30	21·1	212·2	..	26·2	15	23	..	..	..	..	0	30	..	..	..	..	..	..	..	..	..
Pokhara	28·6	..	34·2	13	21·5	..	20·6	18	70·2	1026·8	..	116·5	1	27	..	3·5	2·5	..	0	29	0	0	2	0	0	0	0	0	0
Gorkha†																													
Nuwakot	28·9	..	31·4	6	20·5	..	18·5	17	67·4	528·0	..	80·6	13	27	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Regions																													
Dailek	25·3	..	28·6	8	19·1	..	17·9	31	172·7	700·9	..	95·0	7	22	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..
Ghaghara Catchmen:																													
Dadeldhura	22·5	..	25·8	3	16·1	..	14·3	29	185·4	507·2	..	83·8	19	20	..	5·0	4·3	..	0	25	0	0	2	30	0	0	0	0	0
Sallayana	25·5	..	28·2	1	18·5	..	17·3	20	119·4	362·0	..	62·3	18	19	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Butwal	31·0	..	35·9	15	24·9	..	22·9	19	292·6	912·2	..	179·0	17	19	..	..	..	..	0	23	..	..	..	..	..	..	..	..	..
Baghmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	25·8	..	28·5	5	17·9	..	16·5	18	135·8	591·8	..	44·4	17	30	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	57·0	655·6	..	83·8	2	30	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Walungchung Gola	15·8	..	19·0	24	9·3	..	7·4	20	119·6	423·8	..	42·4	2	30	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Taplethok	26·4	..	31·4	2	18·1	..	17·1	18,28	125·0	701·6	..	83·6	27	30	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Bhojpur	23·5	..	26·2	7	18·0	..	16·7	29	86·2	254·7	..	38·2	18	16	..	..	..	..	0	18	..	..	..	..	..	..	..	..	..
Taplejung	23·8	..	26·7	7	17·4	..	15·4	21	97·5	443·3	..	66·8	17	24	..	..	..	..	1	28	0	0	0	21	0	0	0	0	0
Okhaldhunga	..	..	..	..	..	..	..	..	47·3	151·3	..	38·2	3	9	..	..	..	..	4	19	..	..	..	..	..	..	..	..	.
Chainpur	22·5	..	25·0	1	19·6	..	18·6	18	71·2	283·6	..	75·2	7	18	..	..	..	..	0	21	..	..	..	..	..	..	..	..	..
Angbung	27·5	..	29·9	7	(a) 20·6	..	19·1	21	24·9	171·4	..	39·0	9	10	..	..	..	..	3	21	..	..	..	..	..	..	..	..	..
Barahakshetra	30·5	..	32·7	4	23·5	..	22·1	31	306·5	570·3	..	76·2	19	21	..	5·9	3·2	..	1	27	0	0	5	0	0	0	0	0	0
Tista Catchment																													
Gangtok	22·4	..	26·2	8	17·3	..	16·1	18	75·0	779·0	..	124·8	7	31	..	4·3	3·2	..	0	31	0	0	0	31	0	0	0	0	0
Gezing	24·1	..	28·7	7	18·0	..	17·1	21	97·0	654·0	..	102·0	11	29	..	..	..	..	0	30	..	..	..	..	..	..	..	..	..

†Data not available. *Data included under 'Nepal'. (d) Mean of 27 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1009.1	1006.0	..	26.6	25.1	24.5	30.7	88	..	5.4	..	4.7	0	0	23	0	0	0	0	0	23	0	0	8	0
	1730	,,	1006.8	1003.7	..	26.7	24.8	23.7	29.3	86	..	5.2	..	5.5	0	0	25	0	0	0	1	1	23	0	0	6	0
Long Island	0830	25	1009.1	1006.3	..	27.0	25.4	24.7	31.1	89	..	6.4	..	2.2	0	0	13	0	0	0	0	0	6	1	1	18	0
	1730	,,	1006.9	1004.1	..	26.7	25.0	24.3	30.4	87	..	6.7	..	2.9	0	0	17	0	0	0	0	0	6	11	0	14	0
Port Blair	0530	79	1008.3	999.3	..	24.7	24.1	23.9	29.7	95	..	7.0	..	11.6	0	5	18	0	0	0	0	2	17	3	1	8	0
	0830	,,	1009.6	1000.7	+1.2	26.9	25.1	24.4	30.5	86	+2	7.2	+0.6	16.7	0	8	22	0	0	0	2	3	19	6	0	1	0
	1130	,,	1008.8	999.9	..	27.6	25.3	24.4	30.5	82	..	7.2	..	20.5	0	14	15	0	0	0	3	2	18	6	0	2	0
	1730	,,	1007.3	998.4	..	26.2	24.5	23.9	29.7	87	..	7.0	..	14.0	0	8	20	0	0	0	1	1	18	7	1	3	0
	2330	,,	1009.0	1000.0	..	24.8	24.2	23.9	29.7	95	..	6.5	..	9.8	0	5	16	0	0	0	0	3	15	3	0	10	0
Car Nicobar	0830	10	1010.4	1009.2	..	27.6	25.5	24.7	31.1	85	..	6.8	..	5.9	0	0	30	0	0	0	0	1	21	7	1	1	0
	1730	,,	1008.0	1006.8	..	27.1	25.2	24.3	30.4	85	..	6.5	..	4.3	0	0	22	0	0	0	0	1	11	8	2	9	0
Nancowry	0830	26	1010.9	1008.0	..	27.3	25.1	24.0	29.8	82	..	5.5	..	4.0	0	0	18	0	0	0	0	0	12	6	0	13	0
	1730	,,	1008.5	1005.6	..	26.6	24.5	23.5	28.9	83	..	5.5	..	4.2	0	0	19	0	0	0	0	0	13	6	0	12	0
Kondul	0830	8	..	..	..	27.3	25.1	24.2	30.2	82	..	6.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	26.5	24.7	23.9	29.7	86	..	6.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (including Manipur, Tripura)																											
Pasighat	0830	157	1005.1	987.7	..	26.2	24.7	24.0	29.8	88	..	7.3	..	4.1	0	0	21	6	0	0	0	3	0	1	11	10	0
	1730	,,	1001·7	984.3	..	27.7	25.6	24.6	30.9	85	..	5.8	..	1.8	0	0	10	1	0	1	0	2	0	0	6	21	0
Dibrugarh (Mohanbari).	0230	111	1003.4	990.9	..	25.2	24.6	24.3	30.4	95	..	7.3	..	1.5	0	0	9	1	3	1	1	1	0	1	1	22	0
	0530	,,	1004.0	991.4	..	24.9	24.4	24.1	30.0	96	..	7.7	..	2.0	0	0	13	0	4	4	3	1	1	0	0	18	0
	0830	,,	1005.1	992.6	+0.9	26.5	25.2	24.7	31.1	90	+5	7.4	+1.1	3.4	0	0	23	0	6	4	4	3	4	2	0	8	0
	1130	,,	1004.3	991.9	..	27.9	25.8	24.9	31.5	83	..	7.0	..	5.0	0	0	28	1	7	5	1	4	5	3	2	3	0
	1730	,,	1001.8	989.4	..	28.2	25.8	24.8	31.3	82	..	5.6	..	2.3	0	0	21	5	4	2	1	1	2	2	4	10	0
	2330	,,	1004.1	991.5	..	25.6	24.9	24.5	30.7	94	..	6.5	..	1.9	0	0	11	0	3	4	2	0	2	0	0	20	0
Digboi (R)	0830																										
(R)	1730																										
North Lakhimpur	0830	102	1005.3	993.8	+1.5	26.2	25.1	24.7	31.1	92	+2	7.5	+0.4	3.4	0	0	27	6	4	4	2	3	6	0	2	4	0
	1130	,,	1004.2	992.7	..	27.9	25.9	25.1	31.9	85	..	7.1	..	4.8	0	1	30	2	7	4	9	5	2	1	1	0	0
	1730	,,	1001.7	990.3	..	27.6	25.9	25.1	31.9	87	..	6.0	..	3.0	0	0	27	5	5	9	1	3	4	0	0	4	0
Sibsagar	0830	97	1005.5	994.6	+1.5	27.0	25.7	25.1	31.9	90	+4	7.6	+0.6	2.7	0	0	21	2	7	1	0	3	8	0	0	10	0
	1730	,,	1002.1	991.4	..	29.1	26.5	25.4	32.4	86	..	7.0	..	2.0	0	0	14	2	7	0	2	1	2	0	0	17	0
Gohpur	0830	..	..	..	..	27.1	25.9	25.3	32.2	89	..	..	..	5.5	0	0	31	0	6	6	5	11	1	1	1	0	0
	1730	..	..	..	..	31.0	28.5	27.5	36.7	82	..	..	..	5.5	0	0	31	0	1	9	12	8	0	0	1	0	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	5.8	..	1.5	0	0	9	0	2	3	1	1	2	0	0	22	0
	1730	..	..	..	..	..	..	..	..	..	..	4.2	..	0.8	0	0	7	2	1	0	1	0	2	1	0	24	0
Jorhat (Aerodrome)	0530	90	1003.1	993.0	..	25.4	25.0	24.7	31.1	97	..	7.5	..	3.8	0	0	17	0	2	1	0	1	11	1	1	14	0
	0830	,,	1004.5	994·5	..	26.9	25.5	24.9	31.5	89	..	7.5	..	6.6	0	0	28	0	7	0	0	3	16	2	0	3	0
	1130	,,	1003.5	993.5	..	28.8	26.3	25.1	31.9	81	..	7.1	..	9.5	0	0	30	2	9	0	0	3	13	1	2	1	0
	1730	,,	1000.7	990.8	..	28.8	26.1	24.9	31.5	80	..	6.5	..	8·0	0	0	27	1	13	2	0	1	5	2	3	4	0
	2330	,,	1003.0	992.9	..	26.6	25.6	25.2	32.1	93	..	6.8	..	4.6	0	0	17	1	2	5	2	1	4	0	2	14	0
Tangla	0830	78	1004.0	995.3	..	27·9	26.0	25·2	32·1	85	..	6.0	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1001.4	991.8	..	29.4	27.0	26.0	33.6	81	..	4.7	..	0.2	0	0	1	0	0	0	0	0	1	0	0	30	0
Tezpur	0830	79	1005.5	996.6	+1.2	26.7	25.5	25.0	31.7	90	+3	7.1	+0.6	3.3	0	0	19	0	7	1	2	3	6	0	0	12	0
	1730	,,	1001.7	992.9	..	28.2	26.2	25.4	32.4	84	..	6.2	..	2.6	0	0	18	0	8	2	2	1	4	1	0	13	0
Golaghat	0830	..	..	..	..	27.2	25.6	24.9	31.5	87	..	(g) 7.6	..	0	0	0	0	0	0	0	0	0	0	0	0	24	0
	1730	..	..	..	..	30.0	26.8	25.5	32.6	77	..	(n) 2.8	..	0	0	0	0	0	0	0	0	0	0	0	0	17	0
Rangia (R)	0830	..																									
(R)	1730	..																									
Chaparmukh (R)	0830	66																									
(R)	1730	,,																									
Goalpara	0830	38	1004.9	1000.7	..	26.9	25.6	25.0	31.7	90	..	7.3	..	1.0	0	0	11	0	3	1	3	0	2	1	1	20	0
	1730	,,	1001.2	996.9	..	29.2	26.6	25.5	32.6	81	..	4.9	..	1.5	0	0	20	1	6	1	2	0	6	2	2	11	0
Gauhati	0830	55	1005.2	998.9	+1.8	27.8	26.0	25.3	32.2	86	+3	6.4	+0.3	0.2	0	0	2	0	1	0	0	0	0	0	1	29	0
	1730	,,	1002.1	995.0	..	28.9	26.8	25.2	32.1	81	..	6.3	..	0.2	0	0	3	0	0	1	0	0	0	1	1	28	0

(n) Mean of 17 days. (R) Register not received. (g) Mean of 24 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or heigh in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura —*Contd.*																											
Gauhati (Bhorjor)	0230	54	1002.7	996.6	..	26.5	25.5	25.1	31.9	92	..	(a) 7.2	..	(a) 1.8	0	0	14	1	3	1	2	2	4	1	0	16	0
	0530	,,	1003.3	997.2	..	26.1	25.2	24.8	31.3	93	..	(a) 7.7	..	(a) 2.5	0	0	14	3	1	2	0	4	2	1	1	16	0
	0830	,,	1004.6	998.5	+1.3	28.0	25.4	24.3	30.4	80	—1	7.2	+1.1	3.1	0	0	20	2	6	1	1	3	0	6	1	11	0
	1130	,,	1003.8	997.7	..	29.5	26.5	25.2	32.1	78	..	6.9	..	6.8	0	0	28	10	5	0	0	1	1	3	8	3	0
	1730	,,	1001.4	995.3	..	27.4	26.0	25.4	32.4	89	..	(a) 7.1	..	(a) 5.0	0	0	21	2	3	0	5	2	4	4	1	9	0
	2330	,,	1003.9	997.8	..	26.9	25.8	25.4	32.4	91	..	(a) 6.7	..	(a) 2.1	0	0	11	0	3	2	0	2	4	0	0	19	0
Dhubri (Rupsi)	0530	36	1002.5	998.4	..	25.7	25.0	24.7	31.1	95	..	7.5	..	5.0	0	0	24	0	8	6	0	1	5	4	0	7	0
	0830	,,	1003.9	999.8	..	27.1	25.8	25.3	32.2	89	..	7.3	..	6.7	0	0	29	0	3	8	5	8	5	0	0	2	0
	1130	,,	1003·1	999.1	..	29.1	26.6	25.5	32.6	82	..	7.0	..	8.8	0	0	30	0	1	6	5	5	10	2	1	1	0
	1730	,,	1000.3	996.2	..	28.2	26.2	25.4	32.4	85	..	6.5	..	7.3	0	0	30	4	0	4	4	4	12	2	0	1	0
Dhubri	0830	35	1005.2	1001.2	+1.8	27.1	26.0	25.5	32.6	91	+6	6.4	+0.6	3.9	0	0	29	0	14	1	6	3	5	0	0	2	0
	1730	,,	1001.7	997.7	..	28.3	26.6	25.9	33.4	87	..	6.1	..	1.9	0	0	20	1	4	3	0	7	5	0	0	11	0
Lumding	0830	149	1004.8	988.2	..	27.6	25.7	24.9	31.5	85	+2	6.7	..	0.7	0	0	7	0	2	1	1	1	2	0	0	24	0
	1730	,,	1001.0	984.5	..	28.9	26.3	25.2	32.1	80	..	5.7	..	1.4	0	0	12	1	2	0	5	2	2	0	0	19	0
Tura	0830	370	1005.5	964.2	..	25.3	24.1	23.6	29.1	90	..	7.9	..	4.1	0	0	23	1	3	2	3	3	5	6	0	8	0
	1730	,,	1002.1	960.9	..	26.6	24.8	24.4	30.0	86	..	7.2	..	4.9	0	0	27	1	4	1	3	6	11	1	0	4	0
Haflong	0830	682	1005.0	930.2	..	23.1	21.9	21.3	25.3	90	..	6.7	..	8.6	0	0	31	0	0	0	0	5	26	0	0	0	0
	1730	,,	1001.7	927.4	..	24.8	22.8	21.8	26.1	85	..	6.3	..	7.8	0	0	31	0	0	0	2	3	26	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1003.4	992.4	..	24.4	24.1	23.9	29.7	97	..	7.4	..	2.5	0	0	20	0	3	13	1	0	1	1	1	11	0
	0830	,,	1004.5	993.6	..	26.3	25.0	24.5	30.7	90	..	7.4	..	1.7	0	0	17	0	1	9	2	0	2	0	3	14	0
	1130	,,	1003.3	992.5	..	28.7	25.7	24.4	30.5	78	..	6.6	..	2.8	0	0	23	1	2	2	0	3	7	5	3	8	0
	1730	,,	1000.7	989.9	..	28.1	25.8	24.9	31.5	83	..	6.6	..	2.4	0	0	11	1	0	2	0	2	4	2	0	20	0
Silchar	0830	29	1005.8	1002.5	+1.3	26.8	25.6	25.1	31.9	90	+4	7.0	+0.6	1.8	0	0	19	2	6	2	2	1	3	1	2	12	0
	1730	,,	1002.2	998.9	..	28.9	26.3	25.2	32.1	81	..	5.9	..	1.2	0	0	12	2	0	1	2	1	3	2	1	19	0
Imphal (Tulihal)	0530	781	1005.1	919.6	..	22.2	21.6	21.3	25.3	94	..	7.6	..	1.1	0	0	10	0	0	2	1	1	1	4	1	21	0
	0830	,,	1005.8	920.9	+1.1	24.3	22.3	21.4	25.5	84	+2	7.3	+0.5	2.3	0	0	17	0	4	0	3	4	3	2	1	14	0
	1130	,,	1004.6	920.3	..	26.1	23.1	21.7	25.9	76	..	7.0	..	7.8	0	1	28	0	0	0	3	5	17	2	2	2	0
	1730	,,	1002.2	917.8	..	25.3	22.6	21.4	25.5	80	..	7.3	..	4.5	0	0	22	1	1	0	8	2	2	7	1	9	0
	2330	,,	1005.3	920.2	..	23.2	22.2	21.7	25.9	91	..	6.9	..	1.9	0	0	12	1	4	2	1	1	1	2	0	19	0
Kailashahar	0530	29	1004·9	1001·6	..	25·2	24·5	24·1	30·0	94	..	7·5	..	4·1	0	0	17	0	1	1	2	13	0	0	0	14	0
	0830	,,	1006·1	1002·9	..	27·5	25·6	24·7	31·1	86	..	7·2	..	6·3	0	0	25	1	2	2	1	15	2	1	1	6	0
	1130	,,	1004·9	1001·7	..	29·9	26·5	25·1	31·9	76	..	7·1	..	7·7	0	1	27	2	3	2	2	12	4	0	3	3	0
	1730	,,	1002·8	999·5	..	27·8	25·9	25·1	31·9	86	..	7·3	..	3·5	0	0	21	0	0	1	1	13	5	0	1	10	0
Agartala	0230	16	1002·8	1001·0	..	25·5	24·9	24·6	30·9	96	..	6·5	..	8·7	0	1	25	0	0	2	12	12	0	0	0	5	0
	0530	,,	1003·2	1001·4	..	25·2	24·7	24·5	30·7	96	..	7·5	..	8·5	0	0	26	0	1	1	13	11	0	0	0	5	0
	0830	,,	1004·6	1002·8	+1·8	27·7	25·8	24·9	31·5	85	+1	7·2	+0·3	11·8	0	2	28	0	1	0	15	12	1	1	0	1	0
	1130	,,	1003·8	1002·1	..	29·8	26·5	25·1	31·9	77	..	7·1	..	11·6	0	5	21	0	0	1	13	7	5	0	0	5	0
	1730	,,	1001·5	999·7	..	27·9	26·1	25·3	32·2	86	..	7·4	..	11·3	0	5	23	1	0	2	5	14	5	0	1	3	0
	2330	,,	1003·9	1002·1	..	25·9	25·3	25·0	31·7	95	..	6·4	..	8·0	0	0	20	0	0	0	10	9	0	0	1	11	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1002·1	987·4	..	25·9	25·5	25·4	32·4	96	..	6·9	..	7·9	0	0	28	7	6	10	3	0	0	2	0	3	0
	0530	,,	1002·6	987·9	..	25·1	24·6	24·3	30·4	95	..	7·3	..	7·5	0	2	22	4	2	15	1	1	1	0	0	7	0
	0830	,,	1004·1	989·4	+1·6	27·0	25·5	24·9	31·5	88	+3	7·6	+0·8	10·8	0	2	26	1	2	22	2	0	1	0	0	3	0
	1130	,,	1003·4	988·8	..	28·5	26·1	25·0	31·7	83	..	7·4	..	10·8	0	1	29	0	1	15	13	0	1	0	0	1	0
	1730	,,	1000·6	986·0	..	28·0	26·0	25·2	32·1	85	..	7·1	..	7·4	0	2	21	1	5	6	4	1	3	2	1	8	0
	2330	,,	1003·4	988·7	..	26·6	25·9	25·6	32·8	94	..	6·9	..	7·5	0	0	25	7	4	11	1	2	0	0	0	6	0
Jalpaiguri	0830	83	1004·1	994·8	+1·1	26·2	25·3	24·9	31·5	93	+6	6·8	+1·8	6·5	0	0	28	4	8	10	4	0	1	0	1	3	0
	1730	,,	1000·5	991·3	..	28·2	26·1	25·2	32·1	84	..	5·2	..	7·2	0	0	29	5	4	7	8	3	2	0	0	2	0
Cooch Behar	0830	43	1004·3	999·5	..	27·3	25·7	25·1	31·9	87	..	7·3	..	8·1	0	1	30	2	3	14	3	5	3	0	0	0	1
	1130	,,	1003·5	998·7	..	28·9	26·3	25·3	32·2	81	..	7·2	..	8·2	0	0	28	1	0	14	5	4	1	2	1	3	0
	1730	,,	1001·0	996·2	..	28·3	26·1	25·3	32·2	84	..	6·8	..	4·0	0	0	22	0	2	7	7	5	1	0	0	9	0
Balurghat	0830	..	..	..	..	27·8	26·4	25·8	33·2	88	..	6·3	..	3·6	0	0	27	0	1	4	13	6	3	0	0	3	1
	1730	..	..	..	..	30·0	26·7	25·7	33·0	79	..	5·8	..	3·0	0	0	21	0	1	3	12	5	0	0	0	10	0
Malda	0830	31	1003·5	1000·0	+1·1	28·4	26·5	25·6	32·8	85	+2	7·2	+1·6	9·2	0	0	30	0	1	9	7	9	4	0	0	1	0
	1730	,,	1000·6	997·1	..	29·3	26·8	25·8	33·2	82	..	6·5	..	5·4	0	0	27	0	1	10	9	5	2	0	0	4	0

(a) Mean of 30 days.

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal.																											
Berhampore	0830	19	1003·1	1000·9	+1·0	28·2	26·5	25·9	33·4	87	+2	7·7	+1·1	6·3	0	0	31	0	2	10	1	17	1	0	0	0	0
	1730	,,	999·8	997·7	..	29·1	26·9	26·1	33·8	83	..	7·6	..	4·6	0	0	25	1	0	9	4	11	0	0	0	6	0
Suri	0830	77	..	..	..	27·9	26·3	25·6	32·8	87	..	6·8	..	6·0	0	0	31	0	2	8	9	10	1	1	0	0	0
Asansol	0230	126	1001·1	987·0	..	26·1	25·6	25·3	32·2	95	..	5·8	..	5·5	0	0	24	1	0	3	12	7	1	0	0	7	0
	0530	,,	1001·5	987·5	..	26·0	25·4	25·1	31·9	95	..	7·1	..	5·2	0	0	23	0	0	7	6	7	1	0	2	8	0
	0830	,,	1003·0	988·9	+1·7	28·2	26·2	25·4	32·4	85	0	6·5	−0·1	8·3	0	0	29	1	1	10	8	4	2	3	0	2	0
	1130	,,	1002·3	988·3	..	30·3	26·8	25·3	32·2	75	..	6·2	..	8·6	0	0	29	0	2	9	8	5	2	1	2	2	0
	1730	,,	999·8	985·9	..	28·8	26·2	25·1	31·9	81	..	6·8	..	7·2	0	0	25	0	0	8	11	3	0	3	0	6	0
	2330	,,	1002·4	988·3	..	26·8	25·9	25·7	33·0	93	..	5·6	..	5·7	0	0	21	0	1	3	12	5	0	0	0	10	0
Shanti Niketan	0830	59	1003·6	997·0	..	28·3	26·4	25·6	32·8	85	..	6·5	..	7·8	0	0	25	0	0	5	5	10	5	0	0	6	0
	1130	,,	1003·1	996·5	..	30·1	27·1	25·9	33·4	78	..	6·3	..	5·6	0	0	26	0	1	5	6	11	3	0	0	5	0
	1730	,,	1000·2	993·6	..	29·2	26·4	25·2	32·1	80	..	6·9	..	6·0	0	0	28	0	0	3	11	9	3	2	0	3	0
Krishnanagar	0830	15	1003·8	1002·2	+1·5	28·3	26·9	26·4	34·4	89	+5	4·3	−1·9	1·5	0	0	15	0	0	0	0	15	0	0	0	16	0
	1730	,,	1000·4	998·8	..	29·0	26·7	25·9	33·4	83	..	4·5	..	2·3	0	0	21	0	1	0	0	23	0	0	0	7	0
Purulia	0830	225	1002·2	974·6	+1·2	27·6	25·4	24·4	30·5	83	−1	7·4	+0·6	6·3	0	0	28	0	3	0	12	3	5	0	4	3	1
	1730	,,	999.7	971.7	..	28.7	25.4	24.0	29.8	77	..	7.4	..	5.5	0	0	29	0	2	2	17	1	3	0	3	2	1
Bankura	0830	100	1003.0	991.8	..	28.8	26.1	25.1	31.9	80	..	5.3	..	3 8	0	0	16	0	4	0	7	1	4	0	0	15	0
	1730	,,	999.6	988.6	..	29.6	26.4	25.1	31.9	77	..	6.0	..	2.9	0	0	17	1	1	0	9	3	3	0	0	14	0
Burdwan	0830	32	1002.5	999.0	+0.8	29.2	26.5	25.5	32.6	80	−4	5.1	−1.5	5.8	0	0	26	1	1	10	3	4	7	0	0	5	0
	1730	,,	1000.1	996.5	..	28.8	26.1	25.1	31.9	80	..	5.2	..	8.7	0	2	24	1	0	7	3	8	7	0	0	5	0
Barrackpore (Aerodrome)	0530	7	1002.2	1001.4	..	26.4	26.0	25.8	33.2	97	..	6.1	..	3.5	0	0	15	0	1	4	2	5	3	0	0	16	0
	0830	,,	1003.6	1002.9	+1.9	28.4	27.2	26.7	35.0	90	+4	6.7	−0.1	8.8	0	2	26	0	3	7	5	5	5	3	0	3	0
	1130	,,	1003.1	1002.4	..	30.2	28.3	27.5	36.7	85	..	6.8	..	9.2	0	0	29	0	0	7	6	6	7	2	1	2	0
	1730	,,	1000.6	999.9	..	28.4	27.5	27.1	35.9	91	..	7.0	..	7.1	0	0	26	0	0	4	9	8	4	0	1	5	0
	2330	,,	1003.3	1002.5	..	27.0	26.3	26.0	33.6	95	..	5.0	..	3.1	0	0	13	0	1	1	3	5	3	0	0	18	0
Calcutta (Dum Dum)	0230	6	1001.5	1000.8	..	26.5	25.7	25.3	32.2	93	..	5.5	..	4.3	0	0	23	0	2	3	2	11	3	2	0	8	0
	0530	,,	1001.9	1001.2	..	26.2	25.4	25.1	31.9	93	..	6.6	..	4.5	0	0	25	1	2	3	7	9	3	0	0	6	0
	0830	,,	1003.3	1002.6	+1.5	28.7	26.4	25.5	32.6	83	+1	6.8	−0.1	8.1	0	0	29	0	1	3	12	7	6	0	0	2	0
	1130	,,	1002.8	1002.1	..	30.6	26.8	25.2	32.1	73	..	7.0	..	8.9	0	2	28	0	0	6	7	10	5	2	0	1	0
	1730	,,	1000.4	999.7	..	28.7	26.2	25.1	31.9	82	..	6.9	..	7.0	0	0	28	1	0	2	11	10	4	0	0	3	0
	2330	,,	1002.9	1002.2	..	26.8	25.7	25.3	32.2	91	..	4.7	..	6.3	0	0	25	2	1	2	7	10	3	0	0	6	0
Calcutta	0830	6	1003.1	1002.4	+1.2	29.1	26.5	25.5	32.6	80	−5	6.5	−0.2	6.8	0	1	27	0	0	2	10	10	4	2	0	3	0
	1130	,,	1002.5	1001.8	..	30.8	26 8	25.1	31.9	72	..	7.1	..	6.3	0	0	29	0	0	3	8	11	4	3	0	2	0
	1730	,,	1000.3	999.6	..	29.0	26.4	25.3	32.2	81	..	6.8	..	5.4	0	0	28	0	0	0	9	16	3	0	0	3	0
Midnapore	0830	45	1002.9	997.8	+1.2	27.9	26.1	25.5	32.7	86	+3	5.2	−0.5	4.1	0	0	27	1	0	1	1	18	4	2	0	4	0
	1730	,,	1000.1	995.0	..	28.7	26.3	25.4	32.4	82	..	5.9	..	3.7	0	0	26	1	2	2	1	11	9	0	0	5	0
Contai	0830	11	1003.0	1001.8	+1.9	28.8	26.5	25.4	32.4	82	−3	4.1	−2.0	4.2	0	0	27	2	0	1	6	6	10	1	1	4	0
	1730	,,	1000.3	999.1	..	28.7	26.4	25.5	32.6	83	..	3.8	..	6.0	0	0	29	0	0	1	13	10	5	0	0	2	0
Sagar Island	0830	3	1002.8	1002.5	+1.2	28.5	26.5	25.7	33.0	85	+1	6.0	−0.8	21.5	0	15	16	0	1	2	4	9	11	3	1	0	0
	1730	,,	1000.3	1000.0	..	28.7	26.6	25.7	33.0	84	..	6.3	..	24.8	0	18	13	0	1	0	5	14	9	1	1	0	0
Gandheads	0530	10	1001.2	1000.1	..	27.9	26.6	26.0	33.6	89	..	6.1	..	18.0	0	11	18	1	0	1	1	8	15	2	1	2	0
	0830	,,	1002.7	1001.7	+0.7	28.5	26.9	26.4	34.4	87	+4	6.0	+0.2	18.5	0	12	18	0	0	0	3	8	14	3	2	1	0
	1130	,,	1002.5	1001.5	..	28.6	26.9	26.1	33.8	87	..	6.3	..	17.8	0	9	22	1	0	1	1	8	16	4	0	0	0
	1730	,,	1000.1	999.0	..	28.9	27.1	26.5	34.6	86	..	5.7	..	19.7	0	13	18	0	0	0	2	9	17	3	0	0	0
	2330	,,	1002.8	1001.7	..	28.3	26.8	26.2	34.0	88	..	1.8	..	20.7	0	12	19	1	0	0	0	10	19	1	0	0	0
Orissa																											
Baripada	0830	54	1003.9	997.8	..	27.6	26.0	25.2	32.1	85	..	5.7	..	2.1	0	0	22	1	2	2	5	2	5	3	2	9	0
	1730	,,	1001.1	995.0	..	28.5	26.4	25.5	32.6	85	..	7.0	..	2.1	0	0	19	0	0	3	10	2	2	0	0	12	2
Jharsuguda	0230	230	1001.2	975.5	..	25.0	24.2	23.8	29.5	93	..	6.9	..	5.6	0	0	26	0	0	3	4	10	4	4	1	5	0
	0530	,,	1001.3	975.6	..	24.8	24.2	23.9	29.7	95	..	7.4	..	6.1	0	0	25	0	1	1	6	6	7	4	0	6	0
	0830	,,	1002.9	977.2	+1.3	26.5	24.9	24.2	30.2	88	+1	7.5	+0.3	9.3	0	1	29	0	0	2	5	7	9	6	1	1	0
	1130	,,	1002.3	976.9	..	28.6	25.5	24.1	30.0	78	..	7.6	..	11.1	0	0	31	0	1	2	3	3	13	8	1	0	0
	1730	,,	999.7	974.3	..	27.8	25.4	24.3	30.4	82	..	7.7	..	8.8	0	0	30	2			4	7	11	2	2	1	0
	2330	,,	1002.5	976.7	..	25.5	24.6	24.2	30.2	93	..	6.8	..	6.9	0	1	27	0	1	1	6	12	5	3	0	3	0
Keonjhargarh	0830	463	1000.3	949.5	..	25.8	23.6	22.7	27.6	83	..	6.8	..	3.8	0	0	28	1	1	3	8	0	3	8	4	3	0
	1730	,,	997.7	946.9	..	26.3	24.0	23.0	28.1	80	..	7.7	..	3.5	0	0	31	1	2	2	7	2	4	9	4	0	0

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Ok tas): Mean amount	Cloud amount (Ok tas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Orissa—(*Contd.*)																										
Balasore	0830	20	1002·9	1000·7	+1·3	28·1	26·4	25·7	33·0	87	+4	6·9	+1·1	9·5	0	4	24	1	1	1	4	8	10	2	1	3
	1730	,,	1000·2	998·0	..	28·7	26·7	26·0	33·6	85	..	6·8	..	10·4	0	3	28	2	1	1	7	13	5	2	0	0
Sambalpur	0830	148	1003·2	986·6	+1·1	26·7	25·0	24·2	30·2	85	0	6·1	−0·5	2·8	0	0	23	0	0	1	1	8	10	2	1	8
	1730	,,	999·8	983·5	..	28·2	25·7	24·8	31·3	81	..	6·9	..	2·0	0	0	20	0	0	1	3	7	7	1	1	11
Angul	0830	139	1003·4	987·9	+1·5	27·4	25·8	25·1	31·9	85	+4	7·2	+1·2	3·1	0	0	18	0	4	1	1	1	4	6	1	13
	1730	,,	1000·8	985·3	..	28·1	27·1	26·8	35·2	92	..	6·9	..	4·0	0	0	24	0	0	2	7	3	6	5	1	7
Cuttack	0830	27	1003·5	1000·5	+1·2	28·5	26·3	25·5	32·6	83	+2	6·7	+0·7	5·3	0	0	16	0	0	0	0	0	10	4	2	15
	1730	,,	1000·8	997·8	..	29·3	26·5	25·4	32·4	79	..	6·6	..	6·4	0	1	17	0	0	0	0	3	12	2	1	13
Chandbali	0830	6	1003·1	1002·5	+1·1	28·4	26·4	25·6	32·8	85	+2	6·3	+0·2	5·7	0	0	29	0	2	0	4	4	10	7	2	2
	1730	,,	1000·5	999·8	..	28·5	26·3	25·4	32·4	84	..	6·6	..	6·6	0	0	29	1	1	0	8	10	6	1	2	2
Bolangir	0830	190	1003·6	982·3	..	26·6	24·7	24·0	29·8	86	..	6·8	..	3·9	0	0	31	0	2	0	2	11	13	3	0	0
	1730	,,	1000·3	979·1	..	27·9	25·3	24·3	30·4	81	..	7·2	..	3·5	0	0	31	2	1	0	3	9	8	6	2	0
Phulbani	0830	464	1001·2	950·3	..	25·6	23·5	22·7	27·6	84	..	6·5	..	0·4	0	0	2	0	0	0	0	0	1	1	0	29
	1730	,,	998·7	947·9	..	26·1	24·2	23·4	28·8	85	..	7·9	..	1·6	0	0	5	0	0	1	0	0	3	1	0	26
Titlagarh	0830	211	1003·4	980·0	..	27·0	25·5	24·9	31·5	88	..	..	..	3·0	0	0	31	0	1	1	3	6	20	0	0	0
	1730	,,	1000·5	977·2	..	28·2	26·5	25·8	33·2	88	..	..	..	3·0	0	0	31	1	5	2	3	1	17	2	0	0
Bhubaneswar	0230	46	1001·9	996·7	..	26·3	25·4	24·8	31·3	92	..	5·0	..	5·2	0	2	15	0	0	0	1	5	9	0	2	14
	0530	,,	1002·1	996·9	..	25·8	25·1	24·6	30·9	93	..	6·3	..	5·0	0	1	18	1	0	0	2	1	12	1	2	12
	0830	,,	1003·5	998·3	+2·1	28·2	25·8	24·8	31·3	82	−4	6·4	−0·4	14·5	0	6	21	0	0	0	2	6	10	4	5	4
	1130	,,	1003·1	998·0	..	29·8	26·2	24·7	31·1	74	..	6·9	..	15·0	0	9	21	1	0	0	1	9	10	5	4	1
	1730	,,	1000·9	995·7	..	28·9	25·9	24·9	31·5	80	..	6·9	..	15·0	0	9	20	0	0	1	1	14	11	0	2	2
	2330	,,	1003·2	998·0	..	26·7	25·5	25·1	31·9	91	..	5·3	..	10·6	0	4	23	0	0	0	2	10	10	3	2	4
Puri	0830	6	1003·6	1002·9	+1·4	28·7	26·4	25·4	32·4	82	0	6·2	+0·6	15·1	3	15	11	1	1	0	1	6	16	2	2	2
	1730	,,	1001·2	1000·5	..	28·5	26·5	25·5	32·6	83	..	6·3	..	18·2	3	20	8	0	0	0	2	13	13	2	1	0
Gopalpur	0530	17	1002·2	1000·3	..	26·5	25·5	25·0	31·7	92	..	6·6	..	9·3	0	6	17	1	0	0	0	7	14	0	1	8
	0830	,,	1003·8	1001·9	+1·4	28·2	26·4	25·7	33·0	84	+3	6·5	+1·5	10·9	0	5	22	0	0	1	1	12	13	0	0	4
	1130	,,	1003·5	1001·6	..	29·9	27·0	25·8	33·2	79	..	6·7	..	17·0	0	13	18	0	0	1	2	15	12	1	0	0
	1730	,,	1001·2	999·3	..	28·3	26·4	25·7	33·0	85	..	6·7	..	18·0	0	13	18	0	0	0	3	12	13	2	1	0
	2330	,,	1003·4	1001·5	..	27·0	26·0	25·6	32·8	90	..	6·2	..	13·2	0	8	19	1	0	0	1	9	14	0	2	4
Koraput (R)	0830	913																								
(R)	1730	,,																								
Bihar Plateau																										
Dumka	0830	149	1003·6	986·8	+1·7	27·7	26·1	25·5	32·6	87	+4	6·1	+0·3	3·9	0	0	26	0	1	4	8	6	4	3	0	5
	1730	,,	999·7	983·2	..	28·3	26·3	25·6	32·8	85	..	6·2	..	3·3	0	0	21	1	0	3	10	3	2	2	0	10
Daltonganj	0830	221	1001·7	977·2	+0·6	28·3	25·7	24·7	31·1	80	−3	7·1	+2·1	0·8	0	0	4	0	2	0	1	0	1	0	0	27
	1730	,,	998·0	973·6	..	29·0	26·1	25·0	31·7	79	..	7·7	..	2·4	0	0	16	1	4	3	2	0	1	2	3	15
Hazaribagh	0830	611	1002·3	935·6	+0·9	25·6	24·0	23·3	28·6	87	+3	6·9	−0·3	10·5	0	1	30	0	1	4	6	4	10	2	4	0
	1730	,,	999·3	932·9	..	26·3	24·3	23·6	29·1	85	..	6·8	..	9·2	0	2	27	2	2	4	11	4	0	3	3	2
Dhanbad	0830	257	1002·6	974·1	..	27·2	25·4	24·6	30·9	86	..	6·4	..	7·0	0	0	30	0	0	3	4	4	1	3	1	1
	1730	,,	999·4	971·0	..	27·9	25·6	24·6	30·9	83	..	5·9	..	8·6	0	1	27	1	0	2	2	2	1	0	1	1
Ranchi	0830	655	1001·6	930·2	+0·6	25·0	23·3	22·6	27·4	86	+1	7·5	+0·8	1·8	0	0	19	0	1	2	2	6	5	2	1	12
	1730	,,	999·4	928·4	..	26·4	23·9	23·0	28·1	81	..	7·4	..	2·3	0	0	24	0	1	1	10	2	4	0	6	7
Ranchi Aerodrome	0530	652	1001·2	929·9	..	23·2	22·5	22·2	26·7	94	..	7·2	..	5·0	0	0	29	3	3	1	2	6	11	2	1	2
	0830	,,	1002·3	931·2	..	24·8	23·2	22·5	27·3	87	..	7·2	..	8·8	0	0	30	1	2	3	1	7	11	3	2	1
	1130	,,	1001·7	931·3	..	26·5	23·7	22·3	26·9	79	..	6·9	..	9·8	0	0	29	1	2	4	3	5	7	1	6	2
	1730	,,	998·9	928·3	..	26·2	23·8	22·8	27·7	82	..	6·8(j)	..	9·3(j)	0	0	21	2	1	2	3	5	3	3	2	0
Jamshedpur	0830	129	1002·7	988·4	+1·2	27·8	25·6	24·6	30·9	83	+1	6·8	−0·1	6·7	0	0	28	1	0	7	1	2	5	8	4	3
	1730	,,	999·4	985·1	..	28·9	25·9	24·7	31·1	78	..	7·1	..	5·3	0	0	24	1	1	6	9	2	0	4	1	7
Jamshedpur (P.B.O.)	0530	142	1001·2	985·4	..	25·9	25·0	24·6	30·9	93	..	6·8	..	3·8	0	0	20	0	5	6	0	2	2	3	2	11
	0830	,,	1002·8	986·9	..	27·7	25·4	24·3	30·4	82	..	7·1	..	7·1	0	0	29	1	2	5	1	8	7	4	1	2
	1130	,,	1002·1	986·4	..	30·0	26·1	24·6	30·9	72	..	6·9	..	7·6	0	1	28	0	5	4	0	6	8	3	3	2
	1730	,,	999·5	983·8	..	28·8	25·7	24·5	30·7	77	..	7·2	..	7·6	0	1	24	0	2	11	5	0	4	1	2	6
	2330	,,	1002·3	986·4	..	26·7	25·4	24·8	31·3	89	..	5·8	..	4·9	0	0	23	0	3	9	4	2	0	4	1	8
Chaibasa	0830	226	1002·4	977·4	+1·4	27·6	25·1	24·1	30·0	81	−2	7·3	+0·9	4·2	0	0	26	0	4	0	5	1	16	0	0	5
	1730	,,	999·3	974·4	..	28·3	25·7	24·7	31·1	81	..	7·4	..	3·8	0	0	22	0	4	0	8	1	9	0	0	9
Bihar Plain																										
Motihari	0830	66	1002·9	995·3	+0·9	28·1	27·0	26·5	34·6	91	+9	(e) 6·0	+0·9	(e) 3·8	0	0	17	0	0	16		0	0	1	0	9

(R) Register not received (e) Mean of 26 days. (j) Mean of 21 days.

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains —*Contd.*																											
Motihari —*Contd.*	1730	66	999·7	992·2	..	28·7	27·2	26·6	34·8	83	..	(g) 5·8	..	(g) 3·5	0	0	22	0	1	19	1	0	0	1	0	2	0
Forbeshganj	0830	61	1003·4	996·5	..	27·4	26·0	25·4	32·4	89	..	7·2	..	8·3	0	0	30	0	5	22	0	0	2	1	0	1	0
	1730	,,	1000·6	993·8	..	29·3	26·7	25·6	32·8	81	..	5·7	..	5·9	0	0	28	0	1	22	4	0	0	1	0	3	0
Darbhanga	0830	49	1003·2	997·7	+1·5	28·8	26·7	26·0	33·6	84	+2	5·6	−0·5	3·3	0	0	30	2	4	16	1	1	4	2	0	1	0
	1730	,,	1000·7	995·1	..	29·3	26·9	26·1	33·8	85	..	4·3	..	2·8	0	0	26	3	3	14	3	2	1	0	0	5	0
Chapra	0830	..	..	..	..	28·3	26·6	25·9	33·4	87	..	6·9	..	5·0	0	0	23	0	11	6	1	1	0	2	2	8	0
	1730	..	..	..	..	29·5	26·8	25·7	33·0	81	..	6·5	..	4·1	0	0	28	0	11	5	3	1	3	2	3	3	0
Purnea	0830	38	1003·5	999·3	+1·3	27·8	26·5	26·0	33·6	90	−4	7·3	+1·5	1·6	0	0	27	0	1	18	1	3	1	0	0	4	0
	1730	,,	1000·5	996·3	..	28·1	26·7	26·0	33·6	87	..	5·8	..	2·4	0	0	19	0	4	10	2	0	3	0	0	12	0
Patna	0830	53	1002·3	996·4	+0·9	28·1	26·0	25·1	31·9	84	+2	7·0	+0·1	9·3	0	0	31	0	10	11	2	1	2	2	3	0	0
	1730	,,	999·3	993·4	..	29·8	26·4	25·0	31·7	76	..	6·6	..	7·5	0	0	29	0	14	7	3	0	2	3	0	2	0
Patna Aerodrome	0530	60	1000·6	993·8	..	26·9	26·3	26·0	33·6	95	..	7·2	..	7·2	0	0	25	0	2	14	5	0	2	2	0	6	0
	0830	,,	1002·0	995·3	..	28·4	26·7	25·9	33·4	87	..	7·1	..	10·7	0	1	27	0	1	12	8	2	2	2	1	3	0
	1130	,,	1001·6	995·0	..	30·2	27·4	26·3	34·2	79	..	7·0	..	10·8	0	1	27	0	1	11	10	0	1	3	2	3	0
	1730	,,	998·8	992·2	..	29·5	26·9	25·8	33·2	82	..	6·6	..	8·4	0	1	24	0	5	10	4	0	2	2	1	7	0
	2330	52	1001·8	995·9	..	27·6	26·6	26·2	34·0	92	..	4·9	..	5·1	0	0	16	0	0	12	3	0	0	1	0	15	0
Bhagalpur	0530	49	1001·9	996·4	..	26·5	25·8	25·5	32·6	94	..	7·0	..	5·3	0	0	18	0	1	8	6	3	0	0	0	13	0
	0830	,,	1003·4	998·0	+1·8	28·5	26·6	25·9	33·4	87	+3	7·2	+0·7	6·8	0	0	25	0	0	8	13	2	1	1	0	6	0
	1130	,,	1003·0	997·5	..	30·3	27·3	26·1	33·8	79	..	7·0	..	8·5	0	1	26	0	1	8	11	3	1	2	1	4	0
	1730	,,	1000·2	994·7	..	29·1	26·8	25·8	33·2	83	..	7·1	..	7·7	0	0	26	0	3	13	3	0	3	3	1	5	0
	2330	,,	1002·8	997·3	..	27·5	26·4	25·9	33·4	91	..	5·3	..	6·3	0	0	24	0	0	8	13	1	2	0	0	7	0
Sabaur	0830	37	1003·0	998·8	+1·1	28·2	26·5	25·8	33·2	87	+2	7·2	+0·6	6·7	0	0	31	0	0	17	4	4	3	3	0	0	0
	1730	,,	999·5	995·3	..	29·1	26·8	25·9	33·4	83	..	7·0	..	6·6	0	0	29	0	0	19	1	1	4	3	1	2	0
Jamui	0830	82	1003·6	994·3	..	29·4	27·4	26·6	34·8	88	..	5·5	..	2·0	0	0	20	0	0	14	4	0	1	0	1	11	0
	1730	,,	1000·9	991·5	..	29·0	27·5	27·1	35·9	89	..	6·2	..	1·6	0	0	16	3	1	6	4	0	0	2	0	15	0
Dehri	0830	107	1001·9	989·9	..	28·5	26·4	25·6	32·8	85	..	6·9	..	3·3	0	0	31	3	2	3	14	3	3	3	0	0	0
	1730	,,	998·1	986·3	..	30·0	26·9	25·8	33·2	79	..	7·4	..	3·2	0	0	31	0	6	3	7	0	6	7	2	0	0
Gaya	0230	116	1000·7	987·7	..	26·9	26·2	25·9	33·4	94	..	5·5	..	5·0	0	0	20	0	0	8	6	2	3	1	0	11	0
	0530	,,	1000·9	987·8	..	26·5	26·0	25·7	33·0	96	..	6·0	..	6·4	0	0	22	0	0	11	3	1	4	3	0	9	0
	0830	,,	1002·3	989·3	+1·2	28·2	26·6	25·9	33·4	87	+10	6·5	+1·3	9·8	0	2	27	0	1	10	5	3	3	6	1	2	0
	1130	,,	1002·1	989·2	..	30·4	27·4	26·2	34·0	79	..	6·6	..	10·1	0	3	24	2	0	9	6	2	2	4	2	4	0
	1730	,,	999·2	986·2	..	29·5	27·3	26·5	34·6	84	..	6·9	..	11·0	0	2	26	0	3	12	3	2	2	2	4	3	0
	2330	,,	1001·8	988·8	..	27·4	26·5	26·3	34·2	93	..	5·6	..	6·1	0	0	24	1	0	11	5	2	3	1	1	7	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bahraich	0830	124	1002·0	988·1	+1·0	27·3	25·8	25·2	31·7	88	+6	7·4	+2·9	9·0	0	0	27	0	1	17	6	0	0	1	2	4	0
	1730	,,	999·4	985·6	..	28·8	26·3	25·5	32·2	82	..	7·2	..	6·3	0	0	27	0	1	12	9	1	1	3	0	4	0
Nautanwa	0830	99	1001·6	990·5	..	27·0	26·3	25·6	32·8	94	..	..	..	4·2	0	0	29	0	9	14	3	3	3	0	0	2	0
	1730	,,	998·6	987·6	..	29·7	28·5	28·1	33·0	92	..	..	..	3·8	0	0	31	0	4	15	5	0	5	0	2	0	0
Hardoi	0830	142	1001·6	985·7	+1·1	27·7	26·2	25·6	32·6	89	+2	6·4	+1·0	6·0	0	0	28	1	0	13	5	1	0	7	1	3	0
	1730	,,	998·6	982.8	..	29·7	27·0	26·1	33·4	82	..	6·2	..	5·2	0	1	23	2	0	11	3	3	1	3	1	7	0
Gonda	0830	110	1002·2	989·9	..	27·6	26·1	25·5	32·6	88	+4	3·7	−2·5	10·2	0	0	25	2	1	18	1	0	0	3	0	6	0
	1730	,,	999·1	986·9	..	29·0	26·7	25·7	33·0	83	..	6·2	..	2·2	0	0	19	1	1	11	1	0	1	2	2	12	0
Lucknow	0830	111	1001·0	988·6	+0·3	27·0	26·0	25·2	32·1	90	+7	6·8	+0·9	3·1	0	0	29	0	6	14	1	0	4	3	1	2	0
	1730	,,	998·3	986·0	..	29·4	26·7	25·5	32·6	81	..	6·6	..	2·7	0	0	25	1	5	3	5	1	2	0	6	6	2
Lucknow (Amausi)	0230	128	999·8	985·5	..	26·4	25·7	25·5	32·4	95	..	5·1	..	8·8	0	1	24	0	6	10	0	2	4	3	0	6	0
	0530	,,	1000·1	985·8	..	26·1	25·5	25·2	32·1	95	..	6·7	..	8·3	0	2	23	0	6	10	2	0	3	3	1	6	0
	0830	,,	1001·5	987·2	+0.7	27·6	26·1	25·5	32·6	89	+8	7.1	+1.2	15·1	0	8	21	3	0	11	4	2	5	2	1	2	1
	1130	,,	1001·5	987·3	..	29·7	26·7	25·5	32·6	80	..	6·9	..	14·0	0	7	22	1	2	13	4	2	3	4	0	2	0
	1730	,,	998·5	984·4	..	29·2	26·6	25·5	32·6	81	..	6·6	..	11·3	0	9	16	1	5	9	3	1	2	4	0	6	0
	2330	,,	1000·9	986·7	..	26·9	26·0	25·6	32·8	93	..	5·0	..	8·4	0	4	17	0	3	7	2	3	4	2	0	10	0
Faizabad	0830	102	1001·8	990·4	..	27·5	26·2	25·6	32·8	90	..	6·9	..	4·5	0	0	26	1	7	2	12	1	1	2	0	5	0
	1730	,,	998·8	987·5	..	28·9	26·8	25·9	33·4	84	..	6·6	..	4·0	0	0	23	0	9	2	7	2	1	2	0	8	0
Gorakhpur	0830	77	1001·2	992·4	−0·3	27·8	26·4	25·9	33·4	90	+5	6·8	+2·0	6·5	0	0	28	0	8	8	5	1	3	2	1	3	0
	1730	,,	998·5	989·8	..	29·5	26·9	26·0	33·0	82	..	5·9	..	3·9	0	0	24	0	9	5	3	2	2	0	3	7	0
Gorakhpur P.B.O.	0230	78	1000·4	991·6	..	27·5	26·2	25·8	33·0	91	..	6·3	..	5·4	0	1	25	0	9	12	1	0	1	3	0	5	0

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

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean tempeure in in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean tempeure in in millibars: At station level	Mean tempeure in in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from ormal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd*)																											
Gorakhpur P.B.O.—*Contd.*	0530	78	1000·8	992·0	..	26·9	25·9	25·6	32·8	93	..	7·0	..	5·2	0	1	24	1	9	11	1	0	0	3	0	6	0
	1130	,,	1002·3	993·5	..	29·1	26·9	26·1	33·6	85	..	7·1	..	7·2	0	0	30	0	7	14	1	3	3	2	0	1	0
	2330	,,	1001·6	992·8	..	27·9	26·5	26·1	33·4	89	..	5·6	..	6·6	0	0	31	0	15	8	3	1	2	2	0	0	0
Kanpur	0830	126	1001·8	987·7	+1·0	27·4	26·0	25·4	32·4	89	+2	6·7	+2·1	5·5	0	0	31	1	2	12	4	1	4	6	1	0	0
	1730	,,	994·8	998·8	..	29·8	26·6	25·4	32·2	78	..	6·5	..	5·1	0	0	31	1	5	9	4	0	4	5	3	0	0
Kanpur Aerodrome	0530	126	1000·3	985·9	..	26·3	25·4	25·1	31·9	92	..	6·4	..	7·5	0	1	24	2	1	9	3	1	2	6	1	6	0
	0830	,,	1001·7	987·4	..	27·9	26·0	25·3	32·2	86	..	6·9	..	10·8	0	1	27	1	1	10	4	2	1	7	2	3	0
	1130	,,	1001·7	987·5	..	30·1	26·8	25·3	32·4	77	...	6·8	..	13·8	0	4	24	1	2	9	4	1	2	6	3	3	0
	1730	,,	998·8	984·5	..	29·9	26·5	25·1	31·9	77	..	6·6	..	12·7	0	2	27	4	0	12	3	2	2	4	2	2	0
	2330	,,	1001·2	986·9	..	27·4	26·0	25·0	31·7	89	..	4·5	..	8·9	0	0	27	1	2	11	3	2	1	6	1	4	0
Sultanpur	0830	97	1002·3	991·4	..	27·8	26·5	25·8	33·4	90	..	6·8	..	3·1	0	0	25	0	3	8	8	0	3	3	0	6	0
	1730	,,	998·8	988·0	..	29·3	27·0	26·1	33·8	83	..	6·4	..	2·3	0	0	22	1	3	8	3	1	2	2	2	9	0
Azamgarh	0830	78	1001·7	993·2	..	27·3	26·4	26.2	33·8	93	..	7·4	..	5·0	0	0	29	0	0	22	0	1	0	6	0	2	0
	1730	,,	998·8	990·1	..	29·3	27·7	26·7	35·9	86	..	6·5	..	3·9	0	0	29	3	2	17	0	1	0	6	0	2	0
Fatehpur	0830	114	1001·7	989·0	..	27·8	26·2	25·6	32·6	87	+2	7·0	+1·0	7·2	0	0	30	2	2	11	1	1	5	6	2	1	0
	1730	,,	998·6	985·9	..	29·6	27·1	26·0	33·8	81	..	6·7	..	5·7	0	0	31	4	3	13	3	0	1	4	3	0	0
Ballia	0830	64	1002·3	995·2	..	28·0	26·6	26·0	33·6	89	..	6·7	..	1·4	0	0	13	0	1	9	2	0	0	1	0	18	0
	1730	,,	1000·2	993·0	..	28·6	26·8	26·2	34·0	87	..	5·7	..	0·6	0	0	6	0	1	4	0	0	0	1	0	25	0
Banda	0830	121	1002·0	988·4	..	27·8	26·6	26·3	33·8	90	..	5·5	..	2·1	0	0	31	0	5	6	0	0	14	0	6	0	0
	1730	,,	996·2	982·8	..	30·0	27·8	26·5	35·4	83	..	5·7	..	2·1	0	0	31	0	7	0	7	0	9	0	8	0	0
Allahabad (Banshranli)	0230	98	999·7	988·8	..	26·7	25·8	25·4	32·6	92	..	5·8	..	4·7	0	0	24	1	4	6	2	2	3	4	2	7	0
	0530	,,	1001·1	989·1	..	26·5	25·7	25·4	32·4	94	..	6·9	..	4·2	0	0	24	2	3	7	1	1	3	5	2	7	0
	0830	,,	1001·5	990·7	+0·8	28·2	26·4	25·6	33·0	86	+2	7·0	+0·2	4·7	0	0	24	1	4	8	2	1	1	5	1	7	1
	1130	,,	1001·5	990·5	..	30·2	27·1	25·9	33·2	78	..	7·1	..	6·6	0	0	26	1	3	8	3	2	0	8	1	5	0
	1730	,,	998·6	987·8	..	29·5	26·8	25·7	33·0	81	..	7·2	..	4·8	0	2	23	2	5	5	2	0	2	6	3	6	0
	2330	,,	1001·0	990·1	....	27·2	26·0	25·5	32·6	90	..	5·6	..	4·5	0	0	26	0	6	6	4	1	4	3	2	5	0
Varanasi (Babatpur)	0530	85	1001·3	991·6	..	26·8	26·1	25·8	33·2	95	..	6·7	..	7·1	0	0	29	2	1	11	6	4	3	1	1	2	0
	0830	,,	1002·8	993·1	+1·6	28·1	26·8	26·3	34·2	90	+5	6·9	+0·6	13·4	0	7	24	3	4	7	6	3	4	1	0	0	3
	1130	,,	1002·5	992·9	..	30·1	27·2	26·1	33·8	79	..	7·0	..	13·8	0	0	30	1	5	5	6	2	5	4	2	1	0
	1730	,,	999·4	989·9	..	29·8	27·3	26·3	34·2	82	..	6·8	..	13·1	0	2	29	1	2	11	5	3	4	2	3	0	0
	2330	,,	1002·0	992·3	..	27·5	26·4	25·8	33·2	91	..	5·5	..	10·9	0	0	30	1	1	14	5	4	3	1	1	1	0
Varanasi	0830	76	1002·1	993·5	+1·1	28·0	26·7	26·0	33·8	90	+6	6·6	+0·1	1·8	0	0	27	0	7	3	7	0	1	8	1	4	0
	1730	,,	998·4	999·0	..	30·0	27·3	26·1	34·0	80	..	5·9	..	2·0	0	0	27	1	5	5	2	0	3	10	0	4	1
Uttar Pradesh (west)																											
Mukhim (R)	0830																										
(R)	1730																										
Tehri (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun	0530	682	1001·1	926·4	..	23·3	22·6	22·3	26·7	95	..	6·9	..	2·0	0	0	19	7	7	0	1	1	1	1	1	12	0
	0830	,,	1001·8	927·3	+0·4	24·7	23·7	23·1	28·4	91	+6	6·4	—0·1	1·2	0	0	19	4	2	0	4	2	3	2	2	12	0
	1130	,,	1001·7	927·9	..	27·4	24·4	23·2	28·1	78	..	6·2	..	3·4	0	0	31	2	0	3	7	3	6	10	0	0	0
	1730	,,	998·5	924·8	..	27·0	24·7	23·8	29·3	83	..	6·1	..	4·2	0	0	22	2	1	0	6	5	2	0	6	9	0
	2330	,,	1001·5	927·1	..	24·4	23·6	23·2	28·4	93	..	5·6	..	3·4	0	0	22	7	4	1	5	2	1	1	1	9	0
Mansiari (R)	0830																										
(R)	1730																										
Roorkee	0830	274	1002·2	971·9	+1·3	27·8	25·4	24·3	30·4	82	0	5·1	—0·2	1·2	0	0	18	0	0	0	16	0	1	0	1	13	0
	1730	,,	998·9	969·0	..	31·4	27·0	25·0	31·7	70	..	4·3	..	1·3	0	0	20	0	0	0	17	0	1	0	2	11	0
Najibabad	0830	270	1001·3	971·5	..	27·4	25·4	24·3	30·7	84	..	6·4	..	3·0	0	0	27	0	7	5	11	3	0	0	1	4	0
	1730	,,	998·8	969·2	..	30·8	26·7	25·0	31·5	72	..	5·7	..	2·5	0	0	24	0	4	5	7	2	1	0	5	7	0
Meerut	0830	222	1001·6	976·8	+0·6	28·1	26·0	25·1	31·9	85	+5	(c) 0·4	—4·8	6·8	0	0	28	0	5	6	6	1	2	5	3	3	0
Bereilly	0830	173	1001·7	982·3	+0·6	27·7	25·8	25·0	31·7	86	+2	6·5	+0·6	7·9	0	0	31	1	1	13	8	3	1	2	2	0	0
	1730	,,	998·3	979·2	..	29·8	26·9	25·7	33·0	79	..	6·4	..	3·5	0	0	25	1	1	15	1	2	1	3	1	6	0
Barielly P.B.O.	0230	172	999·9	980·7	..	27·0	25·6	24·9	31·7	89	..	5·1	..	5·0	0	0	26	1	2	16	4	0	1	2	0	5	0
	0530	,,	1000·1	980·9	..	26·5	25·2	24·7	31·1	90	..	6·6	..	6·5	0	1	25	1	3	16	3	0	0	3	0	5	0
	1130	,,	1001·5	982·5	..	29·5	26·5	25·5	32·2	80	..	6·9	..	7·2	0	0	27	0	0	10	9	1	1	4	2	4	0

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

Division and station	Hour of observation I. S. T	Station elevation in meters	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —(*Contd*)																											
Barrielly P.B.O.—(*Contd.*)	2330	172	1000·9	981·7	..	28·0	26·0	25·5	32·1	87	..	4·6	..	5·5	0	0	29	0	1	15	6	1	1	5	0	2	0
Aligarh	0830	187	1001·3	980·5	..	28·2	25·7	24·6	30·5	81	+3	6·0	+1·4	2·8	0	0	29	0	0	16	1	1	0	7	4	2	0
	1730	,,	998·1	977·5	..	31·5	27·4	25·0	33·0	69	..	6·8	..	1·9	0	0	28	2	0	17	0	1	1	7	0	3	0
Mainpuri	0830	157	1001·2	983·8	+0·6	28·2	26·0	25·1	31·7	84	+3	2·4	−3·1	1·1	0	0	17	0	0	1	5	3	2	4	2	14	0
	1730	,,	998·1	980·7	..	30·6	27·1	25·7	32·8	76	..	1·3	..	1·2	0	0	18	0	0	0	11	0	3	0	4	13	0
Agra	0830	169	1001·5	982·7	+0·7	28·5	26·0	24·7	31·5	82	+5	4·7	−0·9	0·4	0	0	1	0	1	0	0	0	0	0	0	30	0
	1730	,,	998·2	979·6	..	31·0	26·9	25·1	32·2	72	..	6·8	..	3·2	0	1	11	0	2	0	1	2	7	0	0	19	0
Agra (Aerodrome)	0530	169	1000·1	980·1	..	26·0	24·9	24·2	30·4	89	..	6·0	..	7·9	0	0	27	1	3	6	2	0	4	10	1	4	0
	0830	,,	1001·7	982·8	..	28·2	25·9	24·9	31·5	82	..	6·2	..	9·0	0	0	29	1	1	10	3	1	3	7	3	2	0
	1130	,,	1001·5	982·5	..	30·3	26·8	25·0	31·7	72	..	6·6	..	10·6	0	1	26	3	0	3	8	0	2	6	5	4	0
	1730	,,	998·5	979·8	..	30·8	26·4	24·1	30·7	71	..	6·4	..	13·0	0	2	29	2	3	6	6	2	2	5	5	0	0
	2330	,,	1001·2	982·6	..	27·6	25·4	23·8	30·5	80	..	5·1	..	8·9	0	0	26	0	2	7	3	0	3	8	3	5	0
Orai (R)	0830	141	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jhansi	0830	251	1002·2	974·3	+0·8	27·3	26·5	24·6	31·1	83	+3	6·7	+1·7	1·6	0	0	17	8	0	4	0	0	0	4	1	14	0
	1730	,,	999·1	971·5	..	29·9	25·9	24·2	30·2	73	..	7·1	..	2·4	0	0	25	10	1	1	0	0	1	11	1	6	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1000·1	965·4	..	25·8	24·4	23·8	29·5	89	..	5·4	..	3·7	0	1	15	0	7	5	3	0	1	0	0	15	0
	0830	,,	1001·4	966·8	+1·0	27·1	24·9	24·0	29·7	84	+2	5·8	+0·1	4·8	0	0	23	0	13	6	1	3	0	0	0	8	0
	1130	,,	1001·4	967·1	..	28·9	25·6	24·2	30·0	77	..	4·7	..	4·8	0	1	28	0	11	2	7	3	3	1	2	2	0
	1730	,,	998·1	964·1	..	31·1	26·1	24·0	29·8	67	..	4·0	..	9·4	0	2	27	0	3	3	1	3	9	7	3	2	0
Amritsar (Rajasansi)	0530	234	999·5	973·4	..	26·3	25·1	24·6	30·9	91	..	3·7	..	7·1	0	2	21	1	5	5	7	3	1	1	0	8	0
	0830	,,	1000·7	974·7	+0·8	27·9	25·8	24·6	31·5	85	+3	4·5	+0·4	11·5	0	5	21	0	5	9	7	2	2		0	5	0
	1130	,,	1001·0	975·2	..	30·9	26·6	24·8	31·3	72	..	4·1	..	12·1	0	8	20	1	7	8	6	1	5	0	0	3	0
	1730	,,	997·6	972·1	..	32·6	26·9	24·5	30·4	63	..	2·6	..	8·6	0	2	24	0	7	6	2	0	1	4	6	5	0
Adampur (Aerodrome) (R)	0530	238	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	999·6	973·4	..	27·5	25·8	25·2	32·0	87	..	5·1	..	12·0	0	4	25	2	1	3	13	8	1	0	1	2	0
(R)	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	996·7	971·0	..	31·9	27·3	26·0	33·2	72	..	4·8	..	8·7	0	0	28	4	0	5	6	3	0	4	5	3	1
(R)	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ludhiana	0830	247	1000·9	973·5	+0·5	28·0	25·5	24·5	30·7	82	+7	4·5	+0·8	0·7	0	0	8	0	1	2	5	0	0	0	0	23	0
	1730	,,	997·7	970·7	..	32·9	27·6	25·4	32·6	65	..	4·2	..	2·4	0	0	27	6	4	3	1	2	3	5	3	4	0
Ferozepur	0830	200	999·9	977·7	..	28·4	25·3	23·9	29·7	78	..	2·7	..	2·3	0	0	27	2	8	0	6	0	1	2	8	4	0
	1730	,,	996·2	975·1	..	33·7	26·7	23·7	29·3	57	..	2·3	..	1·7	0	0	21	0	2	0	4	0	1	0	13	10	1
Halwara (Aerodrome)	0830	242	1001·7	974·9	..	28·6	25·7	24·7	31·1	79	..	4·2	..	14·0	0	4	26	4	1	0	14	4	4	2	1	1	0
	1730	,,	999·3	972·9	..	32·9	26·7	23·9	29·7	61	..	4·4	..	10·3	0	1	30	4	1	6	7	1	1	3	8	0	0
Chandigarh	0830	347	1000·4	962·4	+0·4	28·7	25·3	23·5	29·0	74	−6	4·3	+0·4	10·2	0	0	30	0	2	0	18	0	3	0	7	1	0
	1730	,,	997·6	959·9	..	30·9	25·4	23·9	29·6	63	..	3·9	..	10·1	0	2	29	0	4	0	15	0	1	0	11	0	0
Ambala	0830	722	1001·0	970·9	+0·5	28·2	25·6	24·5	30·7	80	+1	2·2	−2·5	2·5	0	0	22	1	4	1	10	0	1	4	1	9	0
	1730	,,	997·4	967·8	..	32·6	26·7	24·4	30·2	63	..	1·1	..	2·1	0	0	18	0	5	0	8	0	0	0	5	13	0
Ambala (P.B.O.)	0230	278	999·6	968·8	..	27·6	25·2	24·3	30·0	83	..	3·8	..	8·0	0	2	26	1	2	2	15	2	1	2	3	3	0
	0530	,,	999·6	968·7	..	26·9	24·9	24·2	29·8	85	..	5·0	..	7·2	0	0	26	0	2	2	16	0	4	0	2	5	0
	1130	,,	1001·1	970·6	..	30·7	26·1	24·5	30·2	70	..	5·7	..	9·7	0	0	30	0	1	5	14	1	2	4	3	1	0
	2330	,,	1000·2	969·1	..	28·6	25·8	24·8	30·9	81	..	3·6	..	8·8	0	0	30	3	1	2	15	2	1	1	5	1	0
Ambala (Aerodrome)	0530	274	999·8	969·1	..	25·8	24·9	24·3	30·7	91	..	5·3	..	8·2	0	1	20	0	0	3	10	4	0	1	2	10	1
	0830	,,	1000·9	970·5	..	27·8	25·6	24·6	30·9	83	..	5·4	..	12·8	0	6	20	0	0	8	13	1	2	1	1	5	0
	1130	,,	1001·0	970·9	..	30·7	26·4	24·6	30·9	73	..	5·9	..	16·0	0	11	18	1	2	6	10	2	1	5	2	2	0
	1730	,,	997·6	967·7	..	32·0	26·6	24·2	30·2	66	..	5·3	..	12·9	0	2	27	1	0	7	8	1	1	7	4	2	0
	2330	,,	1000·2	969·7	..	26·9	25·6	25·0	31·7	88	..	3·5	..	9·2	0	1	22	1	2	10	3	0	0	3	3	8	1
Patiala	0830	251	1001·3	973·6	..	29·0	25·0	24·0	29·8	75	..	4·1	..	7·4	0	0	24	0	0	0	15	0	0	0	9	7	0
	1730	,,	997·6	970·3	..	32·9	26·4	23·5	29·0	60	..	5·4	..	10·0	..	1	28	1	1	2	13	1	0	0	11	2	0
Bhatinda	0830	211	1000·2	977·1	..	30·3	27·7	26·9	35·0	82	..	1·9	..	6·0	0	0	26	0	2	0	14	0	9	0	1	5	0
	1730	,,	997·0	974·0	..	34·0	29·3	27·6	36·9	69	..	1·9	..	4·1	0	1	23	0	3	3	7	0	2	0	9	7	0
Karnal	0830	249	1001·1	973·6	..	29·9	26·2	24·4	31·1	75	..	1·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	997·6	970·5	..	32·4	27·1	25·2	32·2	68	..	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(*Contd*)																											
Hissar . . .	0530	221	999.9	975.2	..	27.1	25.0	24.0	30.0	83	..	2.7	..	7.4	0	0	30	1	1	2	10	2	12	2	0	1	0
	0830		1001.1	976.6	+0.7	28.9	25.7	24.3	30.4	77	+7	2.6	−0.4	10.5	0	5	26	0	0	6	4	2	14	4	1	0	0
	1130		1000.7	976.5	..	33.4	27.2	24.7	30.9	62	..	3.1	..	8.5	0	1	29	5	1	4	4	2	6	5	3	1	0
	1730		997.6	973.5	..	33.7	27.1	24.2	30.2	60	..	4.9	..	4.9	0	0	30	1	3	8	3	3	8	4	0	1	0
	2330		1000.0	975.6	..	29.4	25.9	24.4	30.7	76	..	2.5	..	6.8	0	1	23	0	0	1	11	3	9	0	0	7	0
New Delhi (Safdarjung)	0230	216	999.6	975.6	..	27.7	25.1	23.9	29.7	81	..	3.8	..	6.0	0	1	21	0	1	8	3	1	5	3	1	9	0
	0530		999.9	975.8	..	27.0	24.7	23.7	29.1	83	..	4.9	..	6.1	0	1	19	0	0	8	1	0	3	7	1	11	0
	0830		1001.4	977.4	+0.6	28.4	25.3	23.9	29.7	78	0	5.7	0	10.5	0	6	18	0	0	6	3	1	3	8	3	7	0
	1130		1001.3	977.5	..	31.4	26.3	24.1	30.0	67	..	5.8	..	11.4	0	6	19	1	2	4	5	1	1	6	5	6	0
	1730	,,	997.8	974.1	..	32.3	26.6	24.1	30.0	64	..	5.5	..	7.4	0	1	21	1	2	5	2	2	3	4	3	9	0
	2330	,,	1000.5	976.6	..	28.5	25.7	24.3	30.7	79	..	4.3	..	5.4	0	1	18	0	0	5	4	1	5	2	2	12	0
Palam (Aerodrome) .	0230	233	999.6	973.7	..	27.6	25.2	24.3	30.4	80	..	4.1	..	12.3	0	2	28	0	2	11	4	7	3	2	1	1	0
	0530	,,	999.8	974.1	..	26.2	24.7	24.1	30.0	87	..	5.1	..	11.5	0	2	27	0	3	11	1	6	5	3	0	2	0
	0830	,,	1001.3	975.5	..	28.3	25.5	24.3	30.1	48	..	5.8	..	16.4	0	11	20	0	3	10	4	4	5	5	0	0	0
	1130	,,	1001.1	975.6	..	31.5	26.8	24.9	31.5	70	..	5.5	..	16.8	0	12	18	1	6	5	3	2	5	5	3	1	0
	1430	,,	999.1	973.7	..	32.8	27.1	24.8	31.3	65	..	5.9	..	16.7	0	9	22	2	6	8	1	2	4	4	4	0	0
	1730	,,	997.8	972.4	..	31.9	27.1	24.6	30.9	69	..	5.8	..	11.4	0	5	25	4	5	8	1	2	4	3	3	1	0
	2030	,,	999.3	973.7	..	29.3	26.3	25.5	31.7	76	..	4.8	..	10.4	0	2	26	1	2	10	5	6	2	1	1	3	0
	2330	,,	1000.4	974.7	..	28.0	25.8	24.1	31.5	83	..	4.1	..	8.6	0	1	29	0	5	7	4	8	3	3	0	1	0
Himachal Pradesh																											
Mandi . . .	0830	761	1000.4	918.1	+0.2	24.6	22.9	22.3	26.3	85	−4	5.2	−0.4	0.3	0	0	4	0	0	0	1	1	1	1	0	27	0
	1730	,,	997.5	916.3	..	27.7	24.2	22.9	27.2	73	..	6.8	..	0.7	0	0	5	0	1	0	2	0	1	0	1	26	0
Bilaspur . . .	0830	493	1000.8	936.4	..	25.1	24.0	24.0	28.9	93	..	2.3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	997.6	934.4	..	29.9	26.3	25.2	31.3	77	..	1.4	..	0.1	0	0	2	0	1	0	0	0	1	0	0	29	0
Jammu and Kashmir																											
Misger . . (R)	0830																										
(R)	1730																										
Gilgit . (R)	0830																										
(R)	1730																										
Skarda . (R)	0830																										
(R)	1730																										
Leh . . .	0530	3514	3020.8	660.4	..	11.4	4.1	−4.9	3.9	32	..	2.8	..	7.0	0	0	28	5	22	0	0	0	1	0	0	3	0
	0830	,,	3022.0	661.3	−3.8	17.1	7.7	−2.0	5.1	30	−2.9	3.3	−0.5	2.1	0	0	10	0	1	0	0	8	1	0	0	21	0
	1730	,,	2963.6	657.6	..	23.1	11.8	3.1	7.5	26	..	4.3	..	8.4	0	0	30	0	1	0	0	3	20	4	2	1	0
Srinagar . . .	0830	1587	1443.9	836.3	+1.1	21.3	18.3	16.9	19.9	76	−7	4.2	+0.4	2.2	0	0	14	1	0	3	7	2	1	0	0	17	0
	1130	,,	1438.0	836.0	..	26.4	19.8	16.6	18.8	56	..	3.6	..	1.8	0	0	15	2	1	1	3	2	2	0	4	16	0
	1730	,,	1407.2	833.1	..	28.3	20.0	15.9	18.1	48		3.3	..	1.6	0	0	15	2	0	0	2	3	2	3	3	16	0
Srinagar (Aerodrome)	0530	1666	1426.1	827.2	..	18.3	16.2	14.9	17.0	81	..	4.3	..	2.5	0	0	13	0	0	1	1	3	3	2	3	18	0
	0830	,,	1433.9	828.2	..	21.6	17.5	15.3	17.0	68	..	4.5	..	4.6	0	0	26	6	5	5	4	2	0	2	2	5	0
	1130	,,	1431.5	828.3	..	25.5	18.8	15.3	17.7	55	..	4.4	..	5.6	0	0	30	6	1	6	4	7	1	2	3	1	0
	1730	,,	1401.9	825.7	..	28.3	18.7	13.2	15.3	41	..	4.0	..	6.5	0	1	24	2	4	5	4	3	1	2	4	6	0
	2330	,,	1422.6	827.1	..	21.0	17.1	14.9	17.0	69	..	1.9	..	2.1	0	0	9	0	0	3	1	1	1	2	1	22	0
Gulmarg . .	0830	2655	3096.4	737.7	+0.7	15.2	12.7	11.0	13.2	77	−4	4.3	+0.1	2.9	0	0	16	1	3	2	1	0	5	3	1	15	0
	1730	..	3090.4	736.7	..	18.9	15.3	13.1	15.4	71	..	4.9	..	6.5	0	0	26	1	16	3	0	0	1	3	2	5	0
Banihal . . .	0830	..	..	..	..	20.7	18.2	17.0	19.1	81	..	5.2	..	0.3	0	0	1	0	0	0	0	0	0	0	1	30	0
	1730	..	..	..	..	24.8	19.5	16.9	19.4	61	..	4.9	..	1.9	0	0	14	0	0	0	1	0	10	3	0	17	0
Jammu . . .	0830	..	..	..	..	27.6	22.1	19.1	22.1	63	−16	..	..	2.8	0	0	28	1	9	9	2	5	2	0	0	3	0
Jammu (Aerodrome)	0530	292	999.5	966.9	..	26.5	24.6	23.5	29.3	82	..	5.1	..	5.2	1	0	10	0	3	2	3	1	0	2	0	20	0
	0830	,,	1000.7	968.2	..	27.8	25.2	24.0	29.8	80	..	5.5	..	5.3	0	1	18	0	4	3	7	4	0	0	1	12	0
	1130	,,	1001.0	968.8	..	30.0	25.9	24.1	29.8	72	..	4.2	..	7.2	0	1	23	1	0	5	8	6	1	3	0	7	0
	1730	,,	997.8	965.8	..	31.4	26.7	24.6	31.1	67	..	3.6	..	5.7	0	1	19	1	0	3	1	9	1	4	1	11	0
	2330	,,	999.6	967.1	..	28.7	25.6	24.2	30.4	77	..	2.7	..	2.0	0	0	6	0	0	1	2	2	1	0	0	25	0
Rajasthan (West)																											
Ganganagar . .	0530	177	998.9	979.3	..	28.9	24.8	22.9	27.9	72	..	2.7	..	3.6	0	0	17	0	1	0	6	1	8	1	0	14	0
	0830	,,	1000.0	980.4	+0.6	29.7	25.1	22.9	28.1	68	−2	1.9	−0.6	6.5	0	1	27	0	3	2	8	0	14	1	0	3	0
	1130	,,	1000.3	980.8	..	34.3	26.3	22.6	27.7	52	..	2.1	..	5.7	0	0	25	0	0	2	3	2	10	5	3	6	0

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station eelvation in meters	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temprature in °C.: Dry bulb	Mean temprature in °C.: Wet bulb	Mean temprature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure in from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h): 62 or more	Wind speed (Km. p.h): 20 to 61	Wind speed (Km. p.h): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan East (*Contd.*)																											
Ganganagar—*Contd.*	1730	177	996·4	977·4	..	36·9	27·0	22·4	27·6	45	..	2·3	..	3·7	0	0	26	3	5	1	0	5	9	2	1	5	0
	2330	,,	999·0	979·5	..	31·0	25·3	27·7	27·6	63	..	1·5	..	3·2	0	0	20	0	2	3	6	4	3	2	0	11	0
Anupgarh (R)	0830	,,																									
(R)	1730	,,																									
Mahajan	0830	187	999·4	978·6	..	(a) 30·6	(a) 26·9	(a) 25·3	(a) 32·2	(a) 75	..	1·4	..	(a) 3·6	0	0	21	1	0	2	2	2	14	0	0	9	0
	1730	,,	996.0	975.6	..	(a) 35.5	(a) 27.3	(a) 23.6	(a) 29.5	(a) 54	..	(b) 3.2	..	(c) 3.4	0	1	16	2	1	4	0	3	7	0	0	11	0
Churu	0830	291	1001·5	969·3	..	28·7	25·5	24·1	30·0	77	..	3·1	..	16·1	0	12	19	1	0	3	2	2	4	17	2	0	0
	1730	,,	997·8	966·3	..	33·9	26·9	23·6	29·1	57	..	4·5	..	14·8	0	6	25	3	1	5	0	3	6	9	4	0	0
Bikaner	083	224	1000·9	976·1	+0·6	29·3	24·5	22·1	26·7	65	—7	1·4	—1·6	10·1	0	2	29	0	0	1	2	1	14	12	1	0	0
	1730	,,	996·9	972·8	..	35·9	25·6	20·3	24·3	41	..	2·0	..	9·2	0	1	29	1	1	0	3	2	17	3	3	1	0
Bikaner P.B.O.	0530	224	999·5	974·6	..	27·9	24·8	23·2	28·4	76	..	3·7	..	5·2	0	0	24	0	0	0	0	4	19	1	0	7	0
	1130	,,	1000·8	976·3	..	33·9	26·2	22·7	27·6	53	..	3·1	..	5·4	0	0	25	0	0	0	0	5	19	1	0	6	0
	2330	,,	999·8	975·1	..	30·5	25·3	22·8	27·9	66	..	3·8	..	4·5	0	0	21	0	0	0	2	9	10	0	0	10	0
Nagaur	0830	298	1002·0	969·1	..	28·6	25·0	23·4	28·8	74	..	4·8	..	10·7	0	4	27	0	4	2	1	9	10	2	3	0	0
	1730	,,	997·8	965·4	..	32·9	27·2	24·7	31·3	63	..	5·2	..	11·4	0	4	2 7	0	0	2	0	14	10	3	2	0	0
Phalodi	0830	234	1001·9	976·0	..	27·5	24·2	23·1	27·6	74	..	3·9	..	20·5	0	13	18	0	1	0	0	2	21	7	0	0	0
	1730	,,	999·4	973·7	..	31·7	25·7	23·3	28·1	61	..	3·8	..	21·1	0	20	11	0	1	2	3	5	18	2	0	0	0
Jaisalmer	0830	242	1000·8	973·9	..	27·0	24·0	22·1	27·4	74	..	3·1	..	23·8	0	20	11	1	1	0	0	13	15	0	1	0	0
	1730	,,	997·4	971·0	..	34·0	25·6	21·4	25·9	51	..	5·6	..	21·4	0	14	17	1	0	1	0	15	14	0	0	0	0
Jodhpur	0230	224	1000·6	975·7	..	27·5	24·7	23·3	28·8	79	..	3·8	..	8·5	0	5	20	0	0	0	0	4	15	6	0	6	0
	0530	,,	1000·8	975·7	..	26·5	24·4	23·4	28·9	84	..	4·8	..	7·2	0	2	19	0	0	0	0	2	15	4	0	10	0
	0830	,,	1002·3	977·2	+2·0	27·5	24·6	23·3	28·6	79	0	5·4	—0·6	10·4	0	4	25	0	1	1	0	2	17	8	0	2	0
	1130	,,	1002·3	977·6	..	30·9	26·1	24·0	29·8	67	..	5·9	..	12·9	0	8	21	0	2	1	1	2	15	8	0	2	0
	1730	,,	998·7	974·3	..	32·4	25·9	22·8	27·7	58	..	5·4	..	12·6	0	7	21	0	1	2	2	6	14	2	1	3	0
	2330	,,	1001·4	976·5	..	28·7	25·1	23·5	28·9	75	..	4·1	..	6·7	0	2	20	0	0	0	0	5	14	2	1	9	0
Barmer	0530	194	1000·5	978·7	..	26·6	24·9	24·1	30·0	86	..	5·8	..	3·8	0	0	29	1	0	0	1	2	15	8	2	2	0
	0830	,,	1001·8	980·1	+0·7	27·4	25·3	24·2	30·4	83	+4	5·9	+0·5	3·0	0	0	28	1	0	0	0	1	16	7	3	3	0
	1130	,,	1001·7	980·2	..	31·6	26·0	23·7	28·9	62	..	5·5	..	3·7	0	0	28	0	1	1	0	4	20	1	1	3	0
	1730	,,	998·1	976·9	..	33·9	27·1	23·9	30·4	50	..	5·2	..	3·6	0	0	30	0	2	1	1	1	22	22	1	1	0
	2330	,,	1000·5	979·0	..	29·0	25·2	23·4	28·9	73	..	3·5	..	3·7	0	0	30	0	1	0	0	1	25	2	1	1	0
Munabao	0830	80	1001·7	992·7	..	27·6	25·0	23·9	29·5	80	..	4·4	..	(j) 14·2	0	5	15	2	0	0	0	2	15	1	0	1	0
	1730	,,	998·0	989·3	..	34·7	26·5	22·9	27·9	51	..	3·0	..	(j) 14·6	0	5	16	1	0	0	0	2	18	0	0	0	0
Pilani	0830	301	1001·5	968·5	..	29·0	24·7	22·6	27·6	70	..	1·9	..	17·4	0	9	22	0	2	1	5	2	6	15	0	0	0
	1730	,,	998·1	965·5	..	32·5	25·5	22·2	27·7	59	..	3·0	..	15·4	0	8	23	4	1	3	4	1	8	10	0	0	0
Sikar	0830	433	1001·8	954·2	..	27·4	24·6	23·5	30·5	79	..	4·3	..	2·0	0	0	19	0	0	0	1	0	5	13	0	12	0
	1730	,,	998·2	951·6	..	32·3	25·6	22·9	28·6	62	..	5·9	..	2·4	0	0	25	2	3	2	5	1	3	8	1	6	0
Alwar	0830	271	999·9	970·1	..	28·6	25·5	24·2	30·0	77	..	5·5	..	2·1	0	0	18	2	4	1	1	0	5	4	1	13	0
	1730	,,	997·8	968·1	..	31·1	26·5	24·5	30·7	70	..	5·8	..	1·6	0	0	18	2	1	2	3	7	1	2	0	13	0
Jaipur (Sanganer)	0230	390	1000·1	957·0	..	25·9	24·1	23·3	28·6	86	..	4·9	..	6·6	0	0	27	2	0	4	3	0	0	10	8	4	0
	0530	,,	1000·4	957·2	..	25·4	23·9	23·2	28·4	88	..	5·7	..	8·4	0	0	30	3	0	5	1	0	0	9	12	1	0
	0830	,,	1001·6	958·6	—0·1	27·1	24·7	23·5	29·1	82	+2	5·4	0	14·2	0	7	23	2	0	5	1	0	1	10	11	1	0
	1130	,,	1001·5	958·8	..	29·8	25·2	23·1	28·3	68	..	5·9	..	14·6	0	3	28	1	2	3	1	0	1	9	14	0	0
	1730	,,	998·4	955·9	..	30·2	25·2	22·8	27·9	67	..	6·6	..	10·5	0	3	26	3	1	5	2	0	8	7	3	2	0
	2330	,,	1001·0	957·9	..	27·0	24·5	23·4	28·6	81	..	5·4	..	5·9	0	0	26	2	0	4	2	1	2	11	4	5	0
Dholpur	0830	176	1001·1	981·5	..	28·1	25·6	24·5	30·7	81	..	7·1	..	7·2	0	0	30	1	1	4	2	2	5	13	2	1	0
	1730	,,	997·9	978·5	..	30·6	26·6	25·0	31·7	73	..	7·3	..	6·0	0	0	24	1	2	3	5	1	2	8	2	7	0
Ajmer	0830	486	1002·2	948·8	+0·3	26·2	23·2	21·7	26·3	77	0	5·5	+0·5	15·1	0	9	22	0	3	1	2	0	13	12	0	0	0
	1730	,,	998·1	945·8	..	31·1	24·4	21·4	25·8	58	..	6·3	..	9·0	0	0	31	0	4	3	1	2	6	13	2	0	0
Tonk	0830	272	1000·9	970·7	..	27·5	25·7	24·7	31·5	85	..	4·8	..	8·0	0	0	31	2	3	2	1	0	5	12	6	0	0
	1730	..	997·7	967·9	..	31·0	26·8	25·1	30·9	71	..	5·3	..	7·3	0	0	30	1	3	3	1	2	10	6	4	1	0
Bhilwara	0830	..	..	..	..	26·1	23·7	22·6	27·3	82	..	6·5	..	8·6	0	1	29	1	1	3	0	3	11	7	3	1	1
	1730	..	..	..	..	29·7	24·5	22·0	26·4	66	..	7·0	..	8·6	0	0	29	2	3	2	1	4	12	5	0	2	1
Kota (Aerodrome)	0530	274	1001·2	970·7	..	25·9	23·9	23·0	28·1	85	..	5·4	..	10·7	0	2	27	1	0	3	1	0	11	11	2	2	0
	0830	,,	1002·3	972·1	..	27·2	24·6	23·2	28·4	80	..	5·5	..	13·5	0	5	26	1	0	4	0	0	9	16	1	0	0

(a) Mean of 30 days. (b) Mean of 29 days (c) Mean of 28 days (j) Mean of 21 days.

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East) —*Contd.*																											
ota (Aerodrom)—*Contd*	1130	274	1002·5	972·3	..	29·7	25·2	23·1	28·3	69	..	5·9	..	12·4	0	2	28	0	3	0	2	0	5	16	4	1	0
	1730	,,	999·5	969·4	..	30·0	25·2	23·0	28·1	68	..	5·9	..	11·9	0	2	28	4	0	3	0	1	12	8	2	1	0
	2330	,,	1001·9	971·5	..	26·9	24·4	23·2	28·4	81	..	4·5	..	12·5	0	3	28	0	2	1	2	2	12	11	1	0	0
Kota . . .	0830	257	1002·4	973·9	+0·7	28·0	25·0	23·7	29·3	78	+3	6·2	+1·0	3·8	0	0	25	1	1	2	0	0	3	13	5	6	0
	1730	,,	999·7	971·4	..	29·6	25·4	23·4	28·9	71	..	6·8	..	3·2	0	0	18	0	0	1	0	1	5	10	1	13	0
Erinpura . . (Jawai Dam)	0830	295	1003·1	970·3	..	26·7	24·7	23·9	29·7	83	..	5·7	..	3·2	0	0	18	0	0	0	0	5	12	1	0	13	0
	1730	,,	1000·0	967·4	..	29·8	25·9	24·1	30·0	72	..	6·2	..	5·2	0	0	25	1	1	1	0	6	15	1	0	6	0
Chambal (Rawat Batta Dam)	0830	351	1002·9	964·0	..	26·5	24·6	23·9	29·3	85	..	5·7	..	5·3	0	0	29	1	3	0	0	1	7	7	10	2	0
	1730	,,	999·8	961·2	..	28·6	25·4	23·9	29·8	77	..	6·6	..	5·5	0	0	31	3	1	2	1	2	9	8	5	0	0
Udaipur . . .	0230	582	1001·8	937·8	..	24·2	22·4	21·6	25·6	85	..	4·7	..	2·3	0	0	9	0	0	0	0	2	4	3	0	22	0
	0530	,,	1002·0	937·9	..	23·7	22·1	21·3	25·3	86	..	6·4	..	1·4	0	0	7	0	0	0	0	1	4	2	0	24	0
	0830	,,	1003·3	939·5	+0·9	25·4	22·7	21·4	25·3	79	+1	6·5	+0·7	1·9	0	0	11	0	0	1	0	3	3	0	4	20	0
	1130	,,	1002·7	939·5	..	28·0	23·9	22·0	26·3	72	..	7·1	..	5·3	0	0	25	1	1	1	2	5	9	2	4	6	0
	1730	,,	1000·3	937·2	..	27·7	23·9	22·3	26·6	73	..	7·0	..	3·7	0	0	21	1	0	0	1	4	8	6	1	10	0
	2330	,,	1002·7	939·0	..	24·9	23·0	22·2	26·6	85	..	4·8	..	1·8	0	0	7	0	0	0	0	1	6	0	0	24	0
Jhalawar . .	0830	321	1002·2	966·7	+0·4	25·9	24·1	23·4	28·8	85	+1	5·2	−1·0	2·8	0	0	24	1	1	1	0	1	9	9	2	7	0
	1730	,,	999·3	964·3	..	29·4	25·0	22·7	27·6	70	..	5·3	..	3·4	0	0	28	1	2	2	0	0	7	12	4	3	0
Madhya Pradesh (West)																											
Gwalior . . .	0230	207	999·9	976·9	..	26·7	24·8	23·9	29·7	85	..	5·7	..	6·1	0	0	26	0	2	2	0	3	7	8	4	5	0
	0530	,,	1000·0	977·0	..	26·8	24·7	23·7	29·3	85	..	6·7	..	7·5	0	1	25	3	4	2	1	1	4	8	3	5	0
	0830	,,	1001·5	978·5	+0·8	28·1	25·3	24·1	30·0	79	−3	6·6	+0·5	10·9	0	5	26	2	2	2	4	1	2	10	8	0	0
	1130	,,	1001·6	978·7	..	30·5	26·2	24·3	30·4	69	..	6·7	..	11·0	0	3	26	1	3	5	1	0	1	10	8	2	0
	1730	,,	998·6	975·3	..	30·2	26·2	24·4	30·5	73	..	6·7	..	7·6	0	1	28	2	6	2	1	3	1	10	4	2	0
	2330	,,	1001·0	977·9	..	27·2	25·3	24·5	30·7	85	..	5·5	..	6·0	0	0	23	1	4	2	0	3	7	3	2	8	1
Sheolapur . .	0830	235	1002·2	976·1	+1·5	27·3	25·4	24·5	30·7	85	−3	6·8	0·1	10·9	0	2	29	2	1	1	2	5	8	5	4	0	3
	1730	,,	998·9	973·0	..	29·5	26·1	24·6	31·1	76	..	6·7	..	10·3	0	2	29	2	3	3	4	5	6	5	3	0	0
Sivpuri . . .	0830	464	1001·7	950·6	..	25·7	23·9	23·3	28·3	86	..	6·3	..	1[illegible]·5	0	5	25	1	2	0	1	2	4	14	4	1	2
	1730	,,	998·9	948·2	..	27·9	24·5	23·1	28·3	76	..	6·9	.	9·5	0	1	30	2	2	2	3	4	10	2	6	0	0
Nowgong . .	0830	229	1001·8	976·3	+0·4	26·9	25·4	24·7	31·1	88	+5	6·9	+0·6	7·3	0	0	29	3	1	3	0	1	15	5	0	2	1
	1730	,,	998·7	973·5	..	29·9	26·6	25·2	32·1	77	..	6·9	..	8·0	0	1	26	3	5	1	1	2	12	2	1	4	0
Guna . . .	0530	478	1001·4	948·3	..	23·6	22·9	22·5	27·2	91	..	6·7	..	8·2	0	2	26	1	1	1	0	4	7	13	1	3	0
	0830	,,	1002·6	949·9	+0·7	25·3	23·9	23·3	28·6	89	+3	6·9	+0·9	8·6	0	0	31	0	3	1	1	1	4	20	1	0	0
	1130	,,	1002·4	950·0	..	27·7	24·7	23·5	28·9	78	..	7·4	..	14·5	0	6	25	1	2	2	2	0	2	14	8	0	0
	1730	,,	999·4	947·1	..	27·9	24·5	23·1	28·3	76	..	7·2	..	14·0	0	5	26	0	1	4	1	1	2	11	11	0	0
	2330	,,	1002·1	949·2	..	24·7	23·4	22·8	27·7	90	..	5·7	..	7·2	0	1	29	1	1	1	1	1	8	15	2	1	0
Nimach . .	0830	496	1003·8	948·9	+0·8	24·8	23·2	22·5	27·3	87	+2	6·9	+0·9	13·5	0	5	25	0	2	0	0	0	12	14	0	1	2
	1730	,,	1000·9	946·7	..	27·3	23·9	22·3	27·1	76	..	6·8	..	15·3	0	9	22	1	4	0	0	0	12	14	0	0	0
Rajgarh . . .	0830	382	1002·7	960·3	..	25·4	23·8	22·9	28·1	86	..	7·3	..	9·1	0	4	27	6	0	0	0	1	0	24	0	0	0
	1730	,,	999·7	957·8	..	28·3	24·2	22·3	26·9	72	..	7·0	..	9·0	0	1	30	6	0	0	0	0	0	25	0	0	0
Sagar . . .	0830	551	1002·5	941·8	+0·5	24·3	23·2	22·8	27·7	91	+3	7·0	+0·4	9·4	0	3	28	0	1	4	0	0	4	15	7	0	0
	1730	,,	990·0	939·1	..	26·8	23·9	22·6	27·4	79	..	7·0	..	4·8	0	0	28	0	1	2	2	0	3	12	8	3	0
Ratlam . .	0830	486	1004·2	950·3	+1·2	24·2	22·8	22·2	26·7	88	−5	7·7	+0·1	11·7	0	3	28	0	0	1	0	0	10	18	2	0	0
	1730	,,	1001·0	947·8	..	27·4	24·0	22·6	27·3	75	..	7·3	..	12·1	0	3	28	0	1	0	0	0	13	16	1	0	0
Bhopal (Bairagrarh) .	0230	523	1001·7	949·9	..	23·8	22·7	22·2	26·9	91	..	7·1	..	14·5	0	6	24	0	1	0	0	1	7	17	4	1	0
	0530	,,	1001·9	944·1	..	23·4	22·5	22·1	26·6	92	..	7·5	..	14·0	0	5	26	1	1	0	0	0	7	16	6	0	0
	0830	,,	1003·6	945·8	+0·6	24·6	23·1	22·5	27·3	88	+1	7·7	+1·1	19·0	0	15	16	3	0	1	0	0	3	15	9	0	0
	1130	,,	1003·2	945·9	..	26·9	24·0	22·6	27·6	77	..	7·7	..	19·7	0	19	11	3	1	1	0	0	1	15	9	1	0
	1730	,,	1001·1	943·0	..	26·7	23·9	22·5	27·6	78	..	7·3	..	16·1	0	10	20	3	2	1	0	1	5	10	8	1	0
	2330	,,	1002·9	945·2	..	24·2	22·9	22·3	26·9	89	..	6·8	..	12·9	0	3	27	1	0	1	1	1	9	11	6	1	0
Ujjain . . .	0830	..	..	..	..	24·8	23·0	22·2	26·7	85	..	6·7	..	22·7	0	21	10	0	0	1	0	0	2	15	13	0	0
Narsinghpur . .	0830	356	1002·8	965·2	..	25·0	24·3	23·6	29·1	91	..	6·9	..	7·4	0	0	28	3	3	0	0	3	7	5	7	3	0
	1730	,,	999·5	960·4	..	28·5	25·0	23·4	28·8	76	..	5·9	..	7·2	0	0	29	0	1	2	0	0	7	10	9	2	0
Hoshangabad . .	0830	302	1003·8	970·0	+0·3	25·0	23·9	23·4	28·8	91	+3	7·2	+0·2	6·9	0	0	31	0	0	1	0	1	19	9	1	0	0
	1730	,,	1000·2	966·8	..	28·1	25·0	23·6	29·3	77	..	6·6	..	6·5	0	0	29	1	0	0	1	1	17	6	3	2	0
Indore . . .	0530	567	1002·4	939·8	..	23·0	22·1	21·6	25·8	92	..	7·0	..	12·9	0	5	25	1	0	0	1	1	17	9	1	1	0
	0830	,,	1003·8	941·2	0	23·9	22·4	21·7	25·9	88	+1	7·0	0.2	18·4	0	11	19	0	0	0	1	0	10	17	2	1	0

Division and station	Hour observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West) (Contd.)																											
Indore—(Contd.)	1130	,,	1003·6	941·5	..	26·3	23·1	21·6	25·8	76	..	7·0	..	18·1	0	10	21	0	1	0	0	1	6	19	4	0	0
	1730	,,	1000·4	938·7	..	26·9	23·2	21·4	26·6	74	..	6·7	..	18·8	0	9	22	0	2	0	0	2	8	15	3	0	1
	2330	,,	1003·4	940·9	..	23·9	22·5	21·9	26·3	89	..	5·1	..	11·6	0	3	27	0	0	0	0	1	24	4	1	1	0
Rajpur (Jabalpur)	0830	293	1004·9	972·2	..	25·2	23·6	22·8	27·7	87	..	7·2	..	13·2	0	5	26	0	0	0	0	0	7	23	1	0	0
	1730	,,	1001·5	969·2	..	28·8	24·3	22·3	27·1	69	..	6·8	..	15·4	0	7	24	0	0	0	0	4	14	13	0	0	0
Chhindwara	0830	685	1003·3	928·2	+0·9	23·7	22·1	21·3	25·3	86	—1	7·1	+0·5	6·8	0	0	27	0	0	2	0	0	1	10	14	4	0
	1730	,,	999·9	925·6	..	25·8	22·7	21·2	25·0	76	..	6·8	..	8·3	0	1	28	4	2	0		0	1	12	9	2	0
Seoni	0830	619	1002·1	934·4	—0·2	24·2	22·8	22·2	26·7	88	+4	7·7	+1·5	4·8	0	0	30	1	0	1	0	3	10	7	8	1	0
	1730	,,	999·7	932·6	..	26·3	23·6	22·4	27·3	79	..	7·6	..	3·4	0	0	28	4	4	0	0	1	5	3	11	3	0
Betul	0830	653	1004·2	932·4	+0·9	23·1	22·2	21·7	25·9	92	+2	7·6	0	9·9	0	0	31	0	0	0	1	0	5	17	8	0	0
	1730	,,	1000·7	929·6	..	25·5	23·1	22·1	26·4	82	..	7·6	..	7·0	0	0	31	3	1	0	1	1	3	13	9	0	0
Khandwa	0830	318	1004·4	968·9	+0·5	25·4	23·5	22·5	27·3	85	+2	7·6	+1·8	4·1	0	0	31	0	0	0	0	0	8	20	3	0	0
	1730	,,	1000·9	965·9	..	28·6	24·5	22·6	27·3	71	..	7·5	..	4·0	0	0	31	2	1	0	0	1	8	10	9	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1000·5	965·1	..	25·1	24·3	23·9	29·7	93	..	6·8	..	3·1	0	0	23	0	1	4	1	2	4	10	1	8	0
	0830	,,	1001·2	966·0	+0·2	26·5	24·9	24·2	30·2	87	+3	6·6	+0·2	2·5	0	0	24	0	1	4	2	1	2	13	1	7	0
	1130	,,	1001·5	966·5	..	28·4	25·7	24·6	30·9	80	..	7·1	..	4·0	0	0	28	1	0	3	2	2	6	10	4	3	0
	1730	,,	998·6	963·7	..	28·2	25·7	24·6	31·1	80	..	7·3	..	2·3	0	0	27	0	1	1	0	1	2	22	0	4	0
	2330	,,	1001·3	966·0	..	26·0	25·0	24·5	30·7	92	..	6·6	..	3·5	0	0	25	1	0	5	4	1	8	4	2	6	0
Sidhi	0830	..	..	..	..	27·1	25·3	24·4	30·5	85	..	4·9	..	0·4	0	0	3	0	1	0	0	0	2	0	0	28	0
	1730	..	..	..	..	28·3	25·6	24·6	30·9	82	..	5·7	..	0·6	0	0	6	0	2	0	0	1	1	0	2	25	0
Umaria	0830	459	1002·4	951·5	..	25·5	23·8	23·0	28·1	86	+3	7·0	0	6·7	0	0	31	1	1	5	0	0	14	8	1	0	1
	1730		999·0	948·8	..	27·2	24·9	23·9	29·7	83	..	6·9	..	5·1	p	0	31	2	1	1	1	5	9	10	2	0	0
Jabalpur	0530	393	1001·2	957·6	..	24·2	23·4	23·0	28·1	93	..	6·9	..	2·6	0	0	18	0	0	0	2	2	7	6	1	13	0
	0830	,,	1002·7	959·2	+0·8	25·4	24·1	23·5	28·9	89	+5	7·4	+0·6	4·2	0	0	28	1	0	1	3	1	8	12	2	3	0
	1130	,,	1002·3	958·9	..	27·5	24·8	23·6	29·1	80	..	7·2	..	6·1	0	0	29	1	1	0	0	2	8	16	1	2	0
	1730	,,	999·2	956·2	..	27·8	25·1	23·8	29·7	80	..	7·5	..	4·8	0	0	26	1	2	1	2	1	5	10	4	5	0
	2330	,,	1002·1	958·6	..	25·2	24·1	23·6	29·3	91	..	6·7	..	2·8	0	0	19	0	0	1	0	5	6	7	0	12	0
Ambikapur	0830	611	1002·4	935·7	+1·3	25·2	23·4	22·6	27·4	86	—2	6·4	+0·4	5·9	0	0	28	3	1	2	4	3	7	5	3	3	0
	1730	,,	999·4	933·2	..	26·4	24·0	23·0	28·1	83	..	5·5	..	5·6	0	0	29	4	1	1	4	1	7	11	0	2	0
Pendra	0530	625	1001·2	932·5	..	22·6	22·2	21·7	25·9	92	..	7·7	..	6·5	0	1	27	2	0	0	2	8	7	2	7	3	0
	0830	,,	1002·4	934·1	+0·6	24·3	22·8	22·2	26·7	88	+3	7·8	+2·2	8·1	0	1	28	4	1	0	3	8	5	2	6	2	0
	1130	,,	1001·9	934·0	..	26·2	23·8	22·6	27·4	80	..	7·6	..	8·2	0	1	29	6	1	0	2	7	6	4	4	1	0
	1730	,,	999·2	931·5	..	26·1	23·7	22·7	27·6	82	..	7·8	..	7·1	0	0	31	4	1	1	0	7	7	[illegible]	6	0	0
	2330	,,	1002·3	933·8	..	23·9	22·9	22·4	27·1	91	..	6·3	..	6·1	0	2	21	4	0	1	1	8	4	2	3	8	0
Mandla	0830	443	1002·8	953·9	+1·0	25·1	23·7	23·0	28·1	88	0	7·2	+0·2	2·3	0	0	15	4	0	0	0	7	0	0	4	16	0
	1730	,,	999·6	951·1	..	27·0	24·5	23·3	28·6	81	..	6·5	..	4·2	0	0	24	8	0	0	1	4	2	0	9	7	0
Champa	0830	245	1003·2	975·9	+1·5	26·5	24·9	24·3	30·2	88	+1	7·5	+0·3	5·1	0	0	28	0	1	4	1	2	6	12	2	3	0
	1730	,,	999·6	972·5	..	28·6	25·6	24·2	30·4	77	..	7·4	..	5·5	0	2	24	0	2	2	0	3	8	7	4	5	0
Raigarh	0830	220	1002·7	978·1	+1·3	26·8	25·2	24·4	30·7	86	0	7·3	+0·1	2·6	0	0	30	0	1	1	5	2	6	13	2	1	0
	1730	,,	999·6	975·2	..	28·2	25·6	24·4	30·7	80	..	7·8	..	2·1	0	0	24	0	1	2	5	0	8	5	3	7	0
Raipur	0530	298	1001·9	968·6	..	24·7	23·8	23·4	28·6	92	..	7·0	..	4·9	0	0	27	0	0	1	0	11	7	8	0	4	0
	0830	,,	1003·3	970·1	+0·9	26·2	24·4	23·6	29·1	86	0	7·1	+0·8	7·7	0	0	31	0	1	0	1	6	9	12	2	0	0
	1130	,,	1002·8	969·9	..	28·3	25·0	23·5	28·9	76	..	7·1	..	8·4	0	1	29	1	1	1	1	2	12	11	1	1	0
	1730	,,	999·9	967·0	..	28·1	25·1	23·8	29·5	78	..	7·4	..	8·2	0	1	28	1	0	2	0	1	11	12	2	2	0
	2330	,,	1002·9	969·7	..	25·6	24·5	24·0	29·8	90	..	6·6	..	7·1	0	0	29	0	1	0	0	10	12	6	0	2	0
Kanker	0830	402	1003·6	959·2	+0·6	25·6	23·7	22·7	27·6	84	+2	6·6	—0·2	2·5	0	0	20	0	0	0	0	0	17	2	1	11	0
	1730	,,	1000·5	956·4	..	27·2	24·5	23·3	28·6	80	..	7·5	..	2·8	0	0	26	0	0	0	0	0	19	2	5	5	0
Jagdalpur	0530	553	1003·0	941·9	..	22·6	21·9	21·5	25·6	93	..	7·2	..	8·3	0	1	16	0	0	0	0	4	10	3	0	14	0
	0830	,,	1004·2	943·4	+0·7	24·3	22·7	22·0	26·4	87	+2	7·0	+0·9	6·3	0	1	23	0	0	0	0	8	12	2	2	7	0
	1130	,,	1003·3	943·0	..	26·5	23·5	22·3	26·9	78	..	6·9	..	9·1	0	2	27	0	0	0	0	5	14	8	2	2	0
	1730	553	1001·1	940·7	..	25·5	23·3	22·4	27·1	83	..	7·5	..	7·2	0	0	25	0	0	0	0	8	6	9	2	6	0
	2330	,,	1004·9	943·1	..	23·3	22·4	22·0	26·4	92	..	6·8	..	5·6	0	1	18	0	0	1	0	7	9	1	1	12	0
Gujarat Region																											
Deesa	0830	136	1003·3	988·0	+0·3	26·5	24·9	24·2	0·2	88	..	6·5	..	5·2	0	0	31	0	1	1	1	4	18	5	1	0	0
	1730	,,	1000·3	985·2	..	31·4	26·1	23·7	30·2	65	..	5·7	..	7·1	0	1	30	0	1	0	2	7	16	4	1	0	0

Division and station	Hour observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed Km.p.h.): 62 or more	Wind speed Km.p.h.): 20 to 61	Wind speed Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat (*Contd.*)																											
Radhanpur . .	0830	30	1005·4	1000·0	..	27·3	25·8	25·1	31·9	88	..	6·0	..	8·8	0	2	28	0	0	1	1	3	17	6	2	1	0
	1730	,,	1000·4	997·2	..	31·3	27·0	25·0	32·2	70	..	4·8	..	10·2	0	2	28	1	0	1	0	4	20	4	0	1	0
Idar . . .	0830	219	1003·9	979·3	..	25·6	24·0	23·3	28·6	87	..	7·6	..	5·5	0	0	28	1	0	0	1	1	11	14	0	3	0
	1730	,,	1000·4	976·2	..	29·9	24·8	22·4	27·3	66	..	7·6	..	4·4	0	0	28	2	0	1	1	0	12	12	0	3	0
Ahmedabad . .	0230	55	1002·7	996·4	..	26·1	24·4	23·6	29·3	87	..	5·5	..	12·6	0	3	28	0	0	0	1	5	14	10	1	0	0
	0530	,,	1002·7	996·3	..	25·7	24·2	23·5	28·9	88	..	6·5	..	10·5	0	1	29	0	0	0	0	0	14	14	2	1	0
	0830	,,	1004·2	997·9	+0·3	26·5	24·7	23·9	29·7	86	+4	7·3	+1·1	13·0	0	4	27	0	0	0	0	3	12	13	3	0	0
	1130	,,	1004·4	998·2	..	29·2	25·5	23·8	29·7	73	..	7·3	..	13·8	0	4	27	2	0	0	0	1	9	16	3	0	0
	1730	,,	1000·8	994·6	..	31·2	25·7	23·1	28·6	64	..	6·3	..	12·9	0	2	28	0	0	0	1	3	8	15	3	1	0
	2330	,,	1003·6	997·4	..	27·2	24·7	23·6	28·9	81	..	5·5	..	14·3	0	6	25	0	0	0	0	5	11	15	0	0	0
Dohad . . .	0830	333	1004·0	966·9	+0·5	25·1	23·3	22·4	27·1	86	—3	7·2	0	21·5	0	20	11	0	0	0	0	0	11	20	0	0	0
	1730	,,	1001·0	964·4	..	28·6	24·3	22·2	26·9	69	..	5·6	..	19·5	0	13	18	1	0	0	0	0	19	10	1	0	0
Boroda Aerodrome .	0830	38	1004·8	1000·5	..	26·8	25·0	24·3	30·2	86	..	6·7	..	11·7	0	1	30	0	0	0	0	4	19	8	0	0	0
	1130	,,	1004·7	1000·5	..	29·3	25·5	23·7	29·5	73	..	6·5	..	13·5	0	7	24	0	0	1	1	4	15	9	1	0	0
	1730	,,	1001·2	997·0	..	30·6	25·8	23·5	29·3	66	..	5·9	..	15·0	0	11	18	1	0	0	0	8	16	3	1	2	0
Baroda . . .	0530	34	1003·3	999·3	..	26·0	24·9	24·3	30·7	91	..	5·5	..	1·5	0	0	15	0	0	0	0	0	11	4	0	16	0
	0830	,,	1004·9	1000·9	+1·0	26·8	25·3	24·6	31·1	88	0	6·7	+0·1	2·1	0	0	21	0	0	0	0	0	15	6	0	10	0
	1130	,,	1004·9	1001·0	..	29·9	25·9	24·1	30·4	72	..	6·3	..	2·9	0	0	23	0	0	0	0	1	12	9	1	8	0
	1730	,,	1001·6	997·7	..	31·7	26·5	24·2	30·4	66	..	5·7	..	3·5	0	0	23	0	0	0	1	2	14	5	1	8	0
	2330	,,	1004·4	1000·4	..	27·3	25·4	24·5	30·7	86	..	5·1	..	2·7	0	0	17	0	0	0	0	0	13	4	0	14	0
Broach . . .	0830	17	1004·5	1002·5	+0·9	26·7	24·8	24·0	29·7	85	—4	7·1	+0·3	5·6	0	0	31	0	0	0	0	7	19	2	3	0	0
	1730	,,	1001·5	999·6	..	30·4	25·3	23·0	27·9	66	..	6·2	..	6·7	0	0	31	0	0	0	0	4	22	1	4	0	0
Surat . . .	0530	12	1003·9	1002·6	..	26·3	25·2	24·8	31.1	92	..	7·2	..	7·8	0	0	28	0	0	0	0	2	20	6	0	3	0
	0830	,,	1005·4	1004·1	+0·7	27·4	25·8	25·0	31·9	86	+4	7·2	+0·3	5·9	0	0	28	0	0	0	2	20	6	0	3	0	0
	1130	,,	1005·7	1004·4	..	29·7	26·4	25·0	31·9	76	..	6·8	..	10·2	0	2	28	0	0	0	0	2	22	4	2	1	0
	1730	,,	1002·7	1001·4	..	29·3	26·6	25·4	32·6	80	..	6·2	..	9·8	0	0	31	0	0	0	0	2	26	2	1	0	0
	2330	,,	1005·2	1003·9	..	27·1	25·7	25·1	31·9	89	..	5·2	..	13·2	0	2	29	0	0	0	0	6	23	2	0	0	0
Saurashtra and Kutch																											
Bhutakia-Bhimasar (R)	0830	47																									
(R)	1730	,,																									
Naliya . . .	0830	21	1002·9	1000·5	..	26·8	25·1	24·3	30·4	86	..	6·5	..	10·6	0	9	15	0	0	0	0	0	13	9	2	7	0
	1730	,,	1001·1	998·7	..	28·1	25·3	24·0	30·0	77	..	6·4	..	20·6	0	17	13	0	0	0	0	1	22	5	2	1	0
Bhuj (Rudramata) .	0230	80	1001·9	992·9	..	26·2	24·7	24·0	30·0	88	..	4·7	..	12·4	0	2	28	0	0	0	0	0	10	18	2	1	0
	0530	,,	1001·9	992·8	..	25·9	24·5	23·9	29·7	89	..	5·3	..	11·5	0	5	25	0	0	0	0	0	10	17	3	1	0
	0830	,,	1003·1	994·1	+0·7	26·7	24·5	23·4	28·9	82	+5	6·5	+0·5	14·6	0	7	24	2	0	0	0	0	9	17	3	0	0
	1130	,,	1003·3	994·3	..	30·3	25·2	22·9	27·9	62	..	6·3	..	17·8	0	13	17	1	0	0	0	0	8	17	4	1	0
	1730	,,	1000·7	991·7	..	30·0	25·3	22·9	28·3	66	..	6·3	..	20·3	0	18	12	1	0	0	0	0	9	18	2	1	0
	2330	,,	1003·1	994·1	..	26·7	24·6	23·7	29·3	84	..	5·0	..	14·6	0	3	28	0	0	0	0	0	15	15	1	0	0
Kandla Aerodrome .	0830	35	1003·6	999·7	..	27·6	25·5	24·5	30·7	83	..	6·2	..	20·7	0	15	16	1	0	0	0	1	19	8	2	0	0
	1130	,,	1003·8	999·9	..	30·6	26·3	24·4	30·7	70	..	6·2	..	26·6	0	19	11	1	0	0	0	4	18	5	2	1	0
	1730	,,	1001·0	997·2	..	30·8	26·1	24·0	30·1	68	..	5·7	..	31·2	0	23	8	0	0	0	0	6	21	4	0	0	0
New Kandla . .	0830	14	1004·0	1002·4	..	27·6	25·2	24·1	30·0	82	..	6·7	..	19·6	0	14	17	0	1	0	0	1	11	14	4	0	0
	1730	,,	1001·6	1000·0	..	30·3	25·6	23·3	28·9	67	..	6·0	..	32·8	0	27	4	1	0	0	0	0	14	15	1	0	0
Mandvi . . .	0830	9	1003·5	1002·4	+0·9	27·3	25·6	24·9	31·5	87	—2	6·9	+0·2	30·8	0	22	9	1	0	0	0	0	22	1	3	0	4
	1730	,,	1001·8	1000·7	..	28·1	26·0	25·1	31·9	83	..	6·5	..	32·4	1	20	10	0	0	0	0	0	24	1	2	0	4
Surendranagar .	0830	74	1004·0	995·7	+1·2	27·1	25·1	24·1	30·2	84	—2	6·5	—0·2	15·0	0	8	23	0	0	0	1	3	7	18	2	0	0
	1730	,,	1000·8	992·6	..	32·2	25·8	22·8	27·9	59	..	6·2	..	17·2	0	14	16	0	0	1	2	1	5	16	5	1	0
Jamnagar (Aerodrome)	0530	23	1002·6	1000·0	..	25·8	24·7	24·2	30·4	91	..	6·1	..	20·8	0	15	16	1	0	0	0	2	15	12	1	0	0
	0830	,,	1003·9	1001·3	+0·6	26·9	25·3	24·5	30·9	87	+5	6·8	+1·9	20·4	0	14	17	1	0	0	0	2	15	11	2	0	0
	1130	,,	1004·2	1001·7	..	29·5	25·5	23·7	29·3	72	..	6·7	..	24·9	0	21	10	1	0	0	0	0	11	17	2	0	0
	1730	,,	1001·6	999·1	..	29·5	25·5	23·6	29·5	72	..	6·4	..	28·2	0	25	6	1	0	0	0	0	3	22	5	0	0
	2330	,,	1004·0	1001·4	..	26·5	24·9	24·2	30·2	87	..	5·4	..	23·2	0	18	13	1	0	0	0	0	11	19	0	0	0
Dwarka . .	0830	11	1003·8	1002·5	+0·3	26·7	25·7	25·2	32·2	92	+6	6·7	—0·1	20·1	0	16	15	0	0	0	0	0	8	21	2	0	0
	1730	,,	1002·3	1001·0	..	27·9	26·4	25·7	33·0	88	..	5·6	..	22·3	0	19	12	1	0	0	0	0	10	18	2	0	0
Rajkot . .	0830	138	1004·1	988·6	+0·9	26·0	24·7	24·1	30·0	89	—2	6·7	+0·3	23·9	0	26	4	0	0	0	1	1	23	2	1	1	2
	1130	,,	1004·2	988·8	..	29·3	25·3	23·5	28·9	72	..	6·6	..	25·1	0	22	7	0	0	0	1	0	20	3	5	2	0
	1730	,,	1001·3	986·0	..	30·0	25·4	23·3	28·6	69	..	5·5	..	29·2	0	26	4	0	0	0	0	0	20	4	5	1	1

(R)—Register not received.

Division and station	Hour observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(*contd.*)																											
Bhaunagar Aerodrome	0830	11	1004·9	1003·7	+0·7	27·4	24·8	23·6	29·1	80	+7	6·2	—0·1	18·3	0	11	20	0	0	0	0	0	23	8	0	0	0
	1130	,,	1005·1	1002·8	..	30·5	25·3	22·8	27·9	65	..	6·6	..	25·1	0	22	9	0	0	0	0	3	17	8	3	0	0
	1730	,,	1001·5	1000·3	..	31·9	25·9	23·2	28·4	62	..	6·2	..	32·0	0	27	4	0	0	0	1	8	13	8	1	0	0
Porbander Aerodrome	0830	7	1004·6	1003·8	..	27·1	25·4	24·7	31·1	87	..	6·8	..	15·2	0	9	22	0	0	0	0	1	8	18	4	0	0
	1130	,,	1005·1	1004·3	..	28·2	25·8	24·9	31·3	82	..	6·4	..	20·9	0	19	12	0	0	0	0	1	10	16	4	0	0
	1730	,,	1002·7	1001·9	..	27·9	25·6	24·6	30·9	82	..	6·5	..	22·3	0	21	10	0	0	0	0	0	11	18	2	0	0
Porbander	0830	7	1004·5	1003·7	+1·3	26·6	25·2	24·7	30·9	89	—3	7·3	0·5	13·5	0	9	22	1	0	0	0	2	14	12	2	0	0
	1730	,,	1003·0	1002·2	..	28·4	26·0	25·1	31·7	82	..	7·3	..	16·6	0	9	22	0	0	0	0	1	18	11	1	0	0
Keshod	0830	51	1004·9	999·1	..	26·1	24·7	24·1	30·0	89	..	5·9	..	16·6	0	13	17	0	0	0	1	2	10	10	5	1	2
	1130	,,	1005·3	999·5	..	28·5	25·1	23·6	29·1	75	..	5·8	..	27·4	0	22	9	2	0	0	0	0	13	14	1	0	1
	1730	,,	1002·9	997·1	..	28·6	25·0	23·3	28·8	74	..	5·7	..	30·1	0	30	1	0	0	0	0	0	13	17	1	0	0
Mahuva	0830	9	1004·4	1003·4	..	26·7	24·9	24·1	30·0	86	..	6·7	..	6·4	0	1	29	0	0	0	0	0	20	10	0	1	0
	1730	,,	1001·9	1000·8	..	28·8	26·0	24·8	31·3	80	..	6·9	..	10·2	0	4	27	0	0	0	0	6	23	2	0	0	0
Veraval	0230	8	1003·7	1002·8	..	26·3	25·0	24·4	30·7	89	..	6·3	..	24·2	0	19	12	1	0	0	0	0	10	15	5	0	0
	0530	,,	1003·5	1002·6	..	26·2	24·9	24·3	30·4	90	..	7·2	..	20·6	0	16	14	2	0	0	0	0	7	14	7	1	0
	0830	,,	1005·1	1004·2	+0·3	26·6	25·3	24·7	31·1	89	+3	6·7	0	19·4	0	14	16	0	0	0	0	0	8	15	7	1	0
	1130	,,	1005·6	1004·7	..	27·9	25·7	24·8	31·3	83	..	6·5	..	21·0	0	16	15	2	0	0	0	0	8	14	7	0	0
	1730	,,	1003·2	1002·3	..	27·7	25·7	24·8	31·3	85	..	5·8	..	20·8	0	16	15	0	0	0	0	0	4	22	5	0	0
	2330	,,	1005·1	1004·2	..	26·5	25·1	24·5	30·7	89	..	6·0	..	21·1	0	13	18	0	0	0	0	0	10	16	5	0	0
Konkan																											
Dahanu	0830	5	1005·7	1005·2	+1·0	26·6	24·8	24·1	29·8	86	—2	7·7	+0·6	19·7	1	13	17	2	0	1	3	3	9	13	0	0	0
	1730	,,	1003·9	1003·4	..	28·1	25·3	24·0	30·0	79	..	7·2	..	24·5	0	17	14	1	1	0	0	1	8	19	1	0	0
Bombay (Santacruz)	0230	14	1005·3	1003·7	..	26·0	24·7	24·1	30·0	89	..	5·8	..	16·5	0	11	18	1	1	1	0	1	3	16	6	2	0
	0530	,,	1005·2	1003·5	..	25·8	24·6	24·1	30·0	90	..	6·2	..	14·7	0	10	18	0	1	1	1	1	2	16	6	3	0
	0830	,,	1006·6	1005·0	+0·1	26·5	24·9	24·3	30·2	90	+8	7·1	+0·1	14·6	0	11	18	0	0	1	2	2	4	14	6	2	0
	1130	,,	1007·0	1005·4	..	27·9	25·5	24·5	30·7	82	..	6·8	..	19·4	0	16	15	0	0	0	0	0	6	16	9	0	0
	1730	,,	1004·6	1003·1	..	27·6	25·1	24·0	29·7	81	..	6·8	..	18·0	0	13	18	1	0	0	0	0	2	19	9	0	0
	2330	,,	1006·8	1005·2	..	26·3	24·7	24·0	29·8	87	..	5·5	..	15·8	0	10	19	0	0	0	0	0	5	19	5	2	0
Bombay	0830	11	1006·8	1005·6	+0·3	26·8	25·1	24·4	30·4	87	+4	6·4	—0·6	9·4	0	3	28	1	0	0	1	2	5	18	4	0	0
	1130	,,	1007·2	1005·9	..	28·5	26·0	24·9	31·5	81	..	6·7	..	7·9	0	0	30	0	0	0	0	1	8	16	4	1	1
	1730	,,	1004·8	1003·6	..	28·0	25·6	24·5	30·9	81	..	6·5	..	8·5	0	1	30	1	0	0	0	1	5	17	7	0	0
Alibag	0830	7	1006·8	1006·0	+0·2	26·6	25·0	24·3	30·4	87	+3	6·6	—0·7	27·2	0	23	8	1	0	0	1	2	7	16	4	0	0
Bihra	0830	96	1006·7	995·8	..	24·8	24·1	23·7	29·5	94	..	7·1	..	2·1	0	0	18	0	0	3	6	4	3	2	0	13	0
	1730	,,	1004·8	994·0	..	25·7	24·4	23·8	29·7	89	..	7·1	..	3·3	0	0	23	0	0	0	9	0	10	1	3	8	0
Harnai	0830	20	1007·1	1004·9	+0·7	26·3	24·8	24·2	30·0	88	+1	7·6	+1·1	19·1	0	13	18	1	1	1	1	1	5	14	7	0	0
	1730	,,	1005·3	1003·0	..	26·9	25·1	24·4	30·4	86	..	7·4	..	24·7	0	24	7	0	0	0	0	0	6	19	6	0	0
Ratnagiri	0830	35	1007·5	1003·4	—0·2	25·8	24·6	24·2	30·0	91	..	6·6	..	17·0	0	13	17	1	0	2	1	2	1	16	7	1	0
	1730	,,	1005·9	1001·9	..	27·6	25·1	24·2	30·2	85	..	6·9	..	20·8	0	16	15	0	0	0	0	0	2	19	10	0	0
Devgarh	0830	36	1007·9	1003·9	+0·7	26·1	24·8	24·3	30·4	90	0	6·8	—0·1	21·5	0	15	16	1	1	3	1	0	1	10	14	0	0
	1730	,,	1006·1	1002·1	..	26·7	25·3	24·7	31·1	89	..	6·7	..	29·2	0	22	9	0	0	0	0	0	0	13	18	0	0
Vengurla	0230	9	1007·1	1006·1	..	25·0	24·3	24·0	29·7	94	..	5·9	..	3·5	0	0	12	1	0	0	0	0	4	7	0	19	0
	0530	,,	1007·1	1006·1	..	24·9	24·2	23·9	29·7	94	..	6·5	..	5·5	0	0	18	2	0	0	0	1	3	11	1	13	0
	0830	,,	1008·7	1007·7	+0·8	25·6	24·7	24·2	30·4	93	+3	6·8	—0·2	4·8	0	1	21	3	1	0	2	2	3	10	1	9	0
	1130	,,	1009·0	1008·0	..	27·1	25·4	24·7	31·1	87	..	6·8	..	6·5	0	0	26	0	0	0	0	2	5	17	2	5	0
	1730	,,	1006·6	1005·6	..	26·8	25·2	24·5	30·7	88	..	7·3	..	6·2	0	1	25	0	0	0	0	1	7	12	6	5	0
	2330	,,	1008·8	1007·8	..	25·2	24·5	24·1	30·0	94	..	6·2	..	2·6	0	0	12	2	0	0	0	1	3	5	1	19	0
Madhya Maharashtra																											
Nandurbar	0830	206	1005·3	982·1	..	25·9	24·3	23·5	29·1	86	..	6·3	..	14·5	0	6	25	0	0	0	0	0	8	22	1	0	0
	1730	,,	1002·2	979·3	..	28·7	25·2	23·6	29·3	74	..	5·7	..	15·5	0	7	24	0	0	0	0	0	6	25	0	0	0
Jalgaon	0830	201	1005·3	982·6	+1·1	25·7	23·7	22·8	27·6	84	—3	6·8	+0·7	14·4	0	6	25	0	0	0	0	0	5	21	5	0	0
	1730	,,	1002·7	980·4	..	30·5	24·5	21·6	25·9	61	..	6·7	..	23·4	0	21	10	3	0	0	0	0	1	17	10	0	0
Malegaon	0830	437	1005·2	956·7	+0·4	24·8	22·3	21·0	24·9	79	+3	6·9	+1·1	9·2	0	1	27	1	0	0	0	0	4	21	2	3	0
	1730	,,	1001·7	953·8	..	28·1	23·1	20·4	24·1	64	..	6·7	..	18·2	0	13	17	4	1	1	0	0	3	17	4	1	0
Deolali (Aerodrome)	0830	571	1006·7	943·4	..	22·9	22·1	21·7	25·9	93	..	7·1	..	15·1	0	6	24	0	0	0	0	0	19	11	0	11	0
	1730	,,	1004·6	941·7	..	24·3	22·6	21·8	26·1	86	..	6·9	..	16·5	0	7	24	0	0	0	0	1	22	7	1	0	0
Ahmadnagar	0830	657	1006·1	933·8	+0·3	23·4	21·2	20·2	23·5	82	+4	6·9	+1·5	7·8	0	0	31	0	0	0	0	0	19	4	8	0	0
	1730	,,	1002·2	931·0	..	26·9	22·0	19·6	22·9	66	..	7·2	..	13·6	0	2	29	2	0	0	0	0	10	2	17	0	0

Division and station	Hour observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra (*Contd.*)																											
Poona (Aerodrome)	0230	593	1005·4	939·6	..	21·8	(b) 20·8	(b) 20·4	23·8	(b) 92	..	5·8	..	11·8	0	6	24	0	0	0	0	0	2	27	1	1	0
	0530	,,	1005·0	939·1	..	21·3	20·7	20·4	24·0	94	..	6·4	..	8·7	0	1	30	0	0	0	0	0	1	28	2	0	0
	0830	,,	1006·4	940·7	..	23·0	21·5	20·8	24·4	88	..	6·4	..	13·1	0	6	25	0	0	0	0	0	4	27	0	0	0
	1130	,,	1006·1	941·0	..	25·7	22·3	20·7	24·4	78	..	6·5	..	26·1	0	20	11	0	0	0	0	0	2	28	1	0	0
	1730	,,	1003·7	938·6	..	24·8	21·9	21·1	24·1	78	..	6·6	..	31·6	0	29	2	0	0	0	0	0	2	28	1	0	0
	2330	,,	1006·7	940·9	..	22·2	21·2	20·8	24·4	91	..	5·8	..	13·7	0	7	24	0	0	0	0	0	1	30	0	0	0
Poona	0530	559	1005·1	943·0	..	22·2	21·0	20·4	24·0	90	..	6·0	..	0·7	0	0	5	0	0	0	0	0	0	3	0	28	0
	0830	,,	1006·2	944·4	+0·1	23·7	21·9	21·0	25·0	85	+4	6·1	—0·3	1·4	0	0	10	0	0	0	0	0	2	8	0	21	0
	1130	,,	1005·9	945·5	..	26·3	22·8	21·2	25·3	75	..	6·7	..	4·7	0	0	24	0	0	0	0	1	4	17	2	7	0
	1730	,,	1003·7	942·3	..	25·4	22·5	21·1	25·0	77	..	6·8	..	4·3	0	0	22	0	0	0	0	0	7	14	1	9	0
	2330	,,	1006·4	944·4	..	22·9	21·4	20·6	24·4	86	..	5·2	..	2·7	0	0	14	0	0	0	0	0	9	5	0	17	0
Jeur	0830	521	1006·1	948·3	+0·8	23·4	21·7	20·9	24·7	86	+3	6·0	+0·5	9·2	0	1	27	0	0	0	0	4	4	15	5	3	0
	1730	,,	1001·9	945·1	..	27·5	22·3	19·8	23·1	65	..	6·7	..	21·3	0	18	13	0	0	0	1	1	2	18	9	0	0
Baramati	0830	551	1006·4	945·5	+1·0	24·1	21·5	20·3	23·6	80	—2	5·5	—0·9	11·8	0	4	27	1	0	0	0	1	7	17	5	0	0
	1730	,,	1002·7	942·7	..	27·2	22·2	19·8	23·2	65	..	(a) 6·4	..	(a) 23·9	0	19	11	2	0	0	0	0	4	21	3	0	0
Sholapur	0530	479	1005·8	952·4	..	22·5	21·2	20·6	24·3	90	..	6·2	..	5·4	0	0	26	1	0	0	0	2	14	6	3	5	0
	0830	,,	1006·9	953·7	+0·5	24·3	22·2	21·2	25·3	83	+8	6·0	+0·6	6·4	0	0	30	1	0	0	0	2	16	10	1	1	0
	1130	,,	1006·1	953·5	..	27·9	23·3	21·2	25·2	68	..	6·7	..	10·9	0	0	31	5	0	0	0	0	8	9	9	0	0
	1730	,,	1002·2	949·7	..	29·0	23·3	20·7	24·4	63	..	7·0	..	10·1	0	2	29	3	0	0	0	0	14	7	7	0	0
	2330	,,	1006·5	953·4	..	24·2	22·0	21·0	24·9	82	..	6·7	..	9·0	0	0	30	0	0	0	0	0	14	11	5	1	0
Miraj	0830	554	1007·6	946·2	+0·3	23·0	21·5	20·8	24·6	87	+2	6·1	—1·0	..	0	0	27	0	0	0	0	0	0	27	0	4	0
	1730	,,	1004·5	943·8	..	26·0	22·1	20·2	23·7	71	..	6·7	..	..	0	0	30	0	0	0	0	0	0	30	0	1	0
Kolhapur	0530	570	1006·2	942·8	..	21·3	20·8	20·6	24·1	95	..	6·1	..	9·2	0	1	29	0	0	0	0	0	0	30	0	1	0
	0830	,,	1007·5	944·3	+0·8	22·5	21·6	21·1	25·0	92	+2	7·0	+0·4	12·3	0	5	26	0	0	0	0	0	2	29	0	0	0
	1130	,,	1007·3	944·5	..	24·7	22·5	21·4	25·6	82	..	6·7	..	18·0	0	11	20	0	0	0	0	0	0	28	3	0	0
	1730	,,	1004·8	942.0	..	24·0	22·0	21·1	25·0	84	..	6·7	..	21·9	0	20	11	0	0	0	0	0	1	29	1	0	0
	2330	,,	1007·9	944·5	..	21·9	21·1	20·7	24·4	93	..	6·0	..	13·9	0	5	26	0	0	0	0	0	0	31	0	0	0
Marathwada																											
Aurangabad	0830	581	1006·1	942·0	+0·3	23·7	21·5	20·4	23·8	82	—1	6·7	—0·3	18·3	0	15	15	0	0	0	0	0	4	26	0	1	0
	1730	,,	1001·7	938·0	..	28·2	22·6	19·8	22·8	62	..	6·4	..	22·1	0	17	13	3	0	0	0	0	0	22	5	1	0
Aurangabad (Chikalthan)	0230	579	1004·3	940·1	..	22·1	20·6	19·8	23·2	87	..	5·2	..	16·2	0	5	26	0	0	0	0	0	2	28	1	0	0
	0530	,,	1004·4	940·0	..	21·6	20·3	19·7	22·9	89	..	6·2	..	17·0	0	8	23	0	0	0	0	0	7	24	0	0	0
	0830	,,	1005·5	941·5	..	23·7	21·4	20·2	23·8	81	..	6·5	..	19·4	0	10	21	0	0	0	0	0	2	26	3	0	0
	1130	,,	1004·8	941·5	..	26·9	22·3	20·1	23·5	67	..	6·7	..	21·3	0	14	17	0	0	0	0	0	3	24	4	0	0
	1730	,,	1001·2	938·3	..	27·8	22·4	19·8	23·1	63	..	7·0	..	23·5	0	19	11	2	0	0	0	0	3	14	11	0	0
	2330	,,	1005·4	941·3	..	23·2	21·1	20·0	23·2	82	..	5·0	..	17·6	0	9	22	0	0	0	0	0	5	23	3	0	0
Parbhani	0830	423	1005·9	958·8	+1·5	24·4	22·1	20·9	24·7	81	0	6·5	+0·4	14·3	0	6	25	0	0	0	0	0	2	22	7	0	0
	1730	,,	1001·2	955·1	..	29·1	23·2	20·0	23·5	61	..	6·7	..	13·2	0	5	26	1	0	0	0	1	3	13	13	0	0
Nanded	0830	358	1005·8	965·8	..	25·4	22·9	21·7	25·9	80	..	5·6	..	11·8	0	3	25	1	0	0	0	2	7	10	8	3	0
	1730	,,	1001·9	962·7	..	30·3	23·7	20·2	23·8	56	..	5·3	..	10·8	0	1	28	1	0	0	0	0	13	7	8	2	0
Bir	0830	519	1006·4	949·0	..	24·3	22·1	21·1	25·0	83	..	6·4	..	8·3	0	0	31	0	1	0	0	1	13	7	8	0	1
	1730	,,	1001·8	945·5	..	28·8	23·2	20·7	24·3	60	..	6·5	..	10·5	0	2	28	0	0	0	2	1	9	7	10	1	1
Vidharbha																											
Gondia	0830	313	1003·7	968·8	+1·1	25·7	24·0	23·2	28·6	86	0	7·8	+1·1	6·3	0	0	31	4	1	0	1	6	11	5	2	0	1
	1730	,,	1000·1	965·7	..	28·3	25·1	23·7	29·3	77	..	6·6	..	4·5	0	0	26	4	2	0	1	2	9	2	6	5	0
Nagpur (Sonegaon)	0230	310	1001·9	967·3	..	24·8	23·5	22·8	27·9	89	..	7·0	..	5·7	0	1	24	2	1	0	1	2	5	9	5	6	0
	0530	,,	1002·2	967·6	..	24·4	23·1	22·5	27·3	90	....	7·3	..	7·8	0	1	26	1	0	1	0	4	7	9	5	4	0
	0830	,,	1003·9	969·3	+0·5	25·7	23·6	22·6	27·4	84	+2	7·2	+0·9	13·8	0	7	24	0	0	0	1	1	7	11	11	0	0
	1130	,,	1003·3	969·0	..	28·2	24·5	22·7	27·6	73	..	7·2	..	15·0	0	8	22	3	0	0	1	1	4	9	12	1	0
	1730	,,	1000·2	966·1	..	28·8	24·4	22·3	26·9	70	..	7·0	..	14·3	0	7	24	2	0	0	1	2	6	8	12	0	0
	2330	,,	1003·1	968·6	..	25·3	23·6	22·8	27·6	87	..	6·7	..	6·0	0	1	26	1	0	1	1	2	7	9	6	4	0
Amraoti	0830	370	1004·5	963·2	+0·3	24·9	23·0	22·1	26·6	85	+2	6·9	+0·7	5·2	0	0	31	1	0	0	0	1	13	16	0	0	0
	1730	,,	1000·2	959·6	..	28·6	24·0	21·7	26·1	68	..	6·1	..	6·7	0	0	31	5	1	1	1	1	5	7	10	0	0
Akola Aerodrome	0530	309	1002·6	968·0	..	24·2	22·9	22·3	26·9	89	..	6·5	..	5·5	0	1	22	0	0	0	0	0	2	20	1	8	0
	2330	,,	1003·1	968·5	..	25·8	23·8	22·8	27·9	84	..	5·7	..	6·4	0	2	23	0	0	0	0	0	3	22	0	6	0

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

Division and station	Hour observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km. p.h.): ½ or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	1	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*Contd.*																											
Akola	0830	282	1004·6	973·1	+0·3	25·3	23·4	22·2	26·7	83	+3	5·7	—0·5	7·8	0	0	30	0	0	0	0	0	2	28	0	1	0
	1130	,,	1004·1	972·9	..	28·4	24·3	22·3	26·9	70	..	7·0	..	8·3	0	1	27	0	0	0	0	0	6	22	0	3	0
	1730	,,	1000·4	969·5	..	30·0	24·5	21·9	26·3	63	..	7·0	..	6·2	0	1	28	1	1	0	0	0	1	24	2	2	0
Bramhapuri	0830	229	1004·2	978·5	..	25·4	23·7	22·9	27·9	87	..	7·0	..	8·7	0	0	29	0	0	0	0	3	9	11	6	2	0
	1730	,,	1000·7	975·4	..	28·5	25·1	23·6	29·1	76	..	6·4	..	7·1	0	0	28	1	0	0	0	8	7	10	2	3	0
Buldana	0830	650	1005·1	933·2	+1·0	22·5	21·0	20·3	23·8	87	+1	5·8	—0·8	1·2	0	0	19	0	0	0	0	0	0	2	17	12	0
	1730	,,	1001·0	930·5	..	26·7	22·5	20·3	23·8	70	..	6·6	..	1·7	0	0	22	0	2	0	0	0	0	0	20	9	0
Yeotmal	0830	451	1004.6	954.6	+1.2	24.6	22.6	21.7	25.9	84	—3	7.1	+0.3	29.0	0	25	6	0	0	0	0	0	7	16	8	0	0
	1730	,,	1000.6	951.2	..	27.9	23.7	21.6	25.8	70	..	7.6	..	17.4	0	14	17	2	0	0	0	0	6	14	9	0	0
Chanda	0830	193	1004.5	982.8	+0.4	26.2	24.0	22.9	28.1	82	+2	7.1	+1.1	10.6	0	3	27	1	0	1	1	3	4	12	8	1	0
	1730	,,	1000.7	979.3	..	28.9	24.9	23.1	28.3	72	..	7.2	...	11.9	0	5	25	1	0	4	4	3	7	8	3	1	0
Pasad	0830	334	1005.6	968.5	..	25.6	23.5	22.3	26.9	82	..	6.0	..	13.7	0	6	25	0	0	0	0	0	12	11	8	0	0
	1730	,,	1001.7	965.0	..	29.0	24.8	22.7	27.6	70	..	5.5	..	12.4	0	3	27	0	2	1	1	0	8	4	14	1	0
Sironcha	0830	123	1005.1	991.2	+1.0	26.2	24.7	24.0	29.8	88	+1	7.1	+0.3	5.0	0	0	29	1	0	2	4	6	8	8	0	2	0
	1730	,,	1001.6	987.9	..	29.1	25.5	23.9	29.7	74	..	7.0	..	8.5	0	2	27	2	1	3	2	3	5	8	4	2	1
Coastal Andhra Pradesh																											
Kalangapatam	0830	6	1004.1	1003.5	+1.2	27.9	25.9	25.1	32.1	84	+3	5.4	+0.2	8.7	0	1	30	0	1	0	0	3	16	9	2	0	0
	1730	,,	1001.5	1000.9	..	28.9	26.5	25.5	32.8	82	..	4.8	..	12.5	0	4	27	0	0	0	2	7	18	3	1	0	0
Vishakhapatnam	0230	3	1002.8	1002.4	..	26.6	24.9	24.2	30.0	86	..	5.4	..	7.5	0	2	17	0	0	0	0	0	11	6	2	12	0
	0530	,,	1003.0	1002.5	..	26.4	24.7	23.9	29.7	87	..	6.1	..	5.5	0	4	10	0	0	0	0	0	7	6	1	17	0
	0830	,,	1004.5	1004.1	+0.9	28.3	25.3	23.9	29.8	78	—6	6.2	—0.3	10.8	0	3	22	0	0	0	0	1	19	5	0	6	0
	1130	,,	1004.0	1003.6	..	30.2	25.7	23.8	29.3	70	..	6.6	..	15.4	0	9	19	0	0	1	1	4	16	4	2	3	0
	1730	,,	1001.7	1001.3	..	29.2	25.6	24.0	29.8	75	..	6.5	..	13.4	0	5	23	1	0	0	0	5	15	6	1	3	0
	2330	,,	1004.1	1003.7	..	27.1	25.2	24.4	30.4	85	..	4.8	..	7.6	0	4	12	0	0	0	0	2	11	3	0	15	0
Kakinada	0830	8	1005.4	1004.5	+0.9	27.2	25.5	24.8	31.1	87	+7	6.1	+0.2	12.3	0	0	31	0	0	0	0	0	30	0	1	0	0
	1730	,,	1002.1	1001.3	..	29.5	26.2	24.8	30.2	77	..	6.0	..	12.9	0	1	30	0	0	0	0	1	30	0	0	0	0
Nidadavole	0830	12	1005.3	1003.9	..	26.5	25.2	24.5	31.1	89	..	7.3	..	5.7	0	0	31	0	1	2	0	0	17	9	2	0	0
	1730	,,	1002.4	1001.0	..	28.9	26.0	24.8	31.1	79	..	7.0	..	4.6	0	0	27	0	1	0	1	1	11	9	4	4	0
Rentachintala	0830	106	1006.0	994.0	..	27.6	24.0	22.2	26.9	73	+6	6.6	—0.1	3.4	0	0	30	0	0	0	0	1	2	27	0	1	0
	1730	,,	1002.2	990.5	..	31.2	24.7	21.5	25.8	59	..	7.2	..	3.2	0	0	29	3	1	2	0	3	2	18	0	2	0
Gannavaram	0230	24	1004.0	1001.3	..	25.8	24.7	24.2	30.4	91	..	6.4	..	6.3	0	0	24	0	0	0	0	5	11	5	3	7	0
	0530	,,	1004.2	1001.5	..	25.7	24.6	24.1	30.0	91	..	7.1	..	7.9	0	2	23	0	0	0	1	3	10	9	2	6	0
	0830	,,	1005.9	1003.2	+1.3	26.9	25.0	24.1	30.0	85	+6	7.1	+0.7	11.0	0	4	25	0	0	1	1	3	10	12	2	2	0
	1130	,,	1005.5	1002.8	..	28.9	25.6	24.1	30.0	76	..	7.1	..	14.5	0	8	22	1	0	0	0	3	10	13	3	1	0
	1730	,,	1002.5	999.8	..	29.4	25.7	24.1	29.8	74	..	7.1	..	8.3	0	1	29	0	1	1	3	5	7	6	7	1	0
	2330	,,	1005.3	1002.6	..	26.4	25.2	24.6	31.1	90	..	6.0	..	6.4	0	1	24	0	0	1	3	6	7	4	4	6	0
Nagarjuna Konda	0830	..	..	..	..	28.8	24.3	22.2	26.6	67	..	6.3	..	18.0	0	12	18	2	0	0	0	0	3	12	13	1	0
	1730	..	..	..	..	31.7	25.3	22.3	26.9	58	..	6.2	..	20.1	0	15	16	6	0	0	0	4	4	9	8	0	0
Masolipatam	0830	3	1006·0	1005·7	+0·7	27·2	25·1	24·2	30·0	84	+5	7·7	+1·9	5·0	0	0	31	0	0	1	0	11	12	5	2	0	0
	1730	,,	1002·6	1002·3	..	29·5	25·9	24·5	30·4	75	...	6·8	..	4·2	0	0	29	0	0	1	0	9	9	10	0	2	0
Gngole	0830	12	1006·2	1004·9	..	29·3	25·8	24·3	30·4	75	..	6·6	..	6·4	0	0	30	0	0	1	0	1	5	21	2	1	0
	1730	,,	1002·6	1001·3	..	31·5	27·2	25·5	32·6	71	..	7·2	..	6·5	0	0	31	2	0	6	4	1	4	10	4	0	0
Nellore	0530	20	1005·0	1002·8	..	26·9	23·9	22·4	27·3	76	..	6·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1006·8	1004·6	+0·6	28·9	24·5	22·4	27·1	69	+4	6·6	+0·6	1·9	0	0	20	0	0	0	0	0	4	16	0	11	0
	1130	,,	1006·1	1003·9	..	32·6	25·2	21·6	25·9	53	..	6·2	..	4·6	0	0	31	0	0	0	0	0	5	24	2	0	0
	1730	,,	1003·1	1000·9	..	32·4	25·3	22·0	26·4	56	..	7·3	..	4·1	0	0	28	0	1	0	0	0	0	27	0	3	0
	2330	,,	1005·9	1003·7	..	28·0	25·0	23·6	29·3	78	..	5·3	..	1·0	0	0	8	0	0	0	0	0	5	3	0	23	0
Telangana																											
Ranmgundam	0830	156	1004·7	987·2	+0·9	26·3	24·0	23·0	27·9	83	+2	6·5	—0·2	3·7	0	0	21	0	0	0	1	2	5	10	3	10	0
	1730	,,	1001·1	983·8	..	29·8	25·5	23·5	28·9	70	..	6·6	..	5·0	0	0	29	4	1	1	2	0	6	7	8	2	0
Nizamabad	0830	381	1005·7	963·2	+0·5	24·7	23·6	23·0	28·1	90	+11	6·1	+1·0	1·3	0	0	21	0	0	0	0	0	17	3	1	10	0
	1730	,,	1002·2	960·1	..	28·1	26·2	25·9	32·4	89	..	6·6	..	0·9	0	0	13	0	0	0	1	0	12	0	0	18	0
Hanamkonda	0830	269	1005·3	975·4	+0·3	26·1	23·6	22·3	26·9	80	+5	5·5	—0·3	2·7	0	0	31	1	0	0	2	4	0	19	5	0	0
	1730	,,	1002·3	972·7	..	29·1	24·9	22·8	28·1	70	..	6·5	..	2·3	0	0	31	8	0	0	2	3	1	12	5	0	0
Hakimpet(Aerodrome)	0530	613	1004·7	937·0	..	22·0	21·0	20·5	24·1	91	..	6·5	..	20·3	0	11	20	2	0	0	1	0	3	21	4	0	0
	0830	,,	1005·6	938·1	..	23·4	21·6	20·7	24·4	85	..	6·9	..	26·7	0	28	3	0	0	0	0	0	3	19	9	0	0

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—(*Contd.*)																											
Hakimpet (Aerodrome)—(*Contd.*)	1130	613	1005·0	938·1	..	26·4	22·6	20·8	24·6	72	..	6·7	..	25·6	0	24	0	1	0	0	0	0	2	19	9	0	0
	1730	,,	1002·5	936·1	..	26·3	22·7	21·0	25·0	73	..	6·9	..	17·5	0	6	25	2	0	1	0	1	3	13	11	0	0
Bhadrachalam	0830	111	1005·3	992·8	+1·0	26·6	24·8	23·9	29·8	85	+1	7·3	+0·4	6·5		0	31	0	4	3	2	2	9	6	5	0	0
	1730	,,	1001·8	989·4	..	29·4	25·6	24·0	29·7	74	..	7·5	..	3·9	0	0	31	6	4	1	2	1	5	0	12	0	0
Hyderabad (Begampet)	0230	545	1004·4	944·1	..	22·9	21·6	20·9	24·7	89	..	7·0	..	15·8	0	11	17	0	0	0	0	0	2	22	4	3	0
	0530	,,	1004·8	944·3	..	22·3	21·1	20·6	24·1	90	..	6·8	..	15·9	0	12	17	0	0	0	0	0	1	21	7	2	0
	0830	,,	1006·1	945·9	+0·7	23·8	21·8	20·9	24·7	83	+3	6·9	+0·8	19·2	0	13	18	0	0	0	0	0	2	18	11	0	0
	1130	,,	1005·4	945·7	..	26·8	22·7	20·8	24·6	70	..	7·0	..	20·0	0	18	12	1	0	0	0	0	1	14	14	1	0
	1730	,,	1002·1	942·7	..	27·1	22·9	20·9	25·0	70	..	7·0	..	15·7	0	7	23	2	1	1	0	0	4	12	10	1	0
	2330	,,	1005·6	945·4	..	23·6	22·0	21·2	25·3	87	..	7·2	..	15·2	0	9	20	2	0	0	1	0	10	14	2	2	0
Khammam	0830	112	1005·7	993·1	..	26·3	24·4	23·5	28·9	84	..	7·0	..	9·0	0	4	22	0	0	0	0	0	0	26	0	5	0
	1730	,,	1002·4	989·9	..	29·6	25·3	23·3	28·6	70	..	7·1	..	6·6	0	0	25	1	0	1	0	0	2	20	1	6	0
Mahbubnagar	0830	505	1006·7	950·6	..	23·8	22·1	21·3	25·3	86	..	7·2	..	9·4	0	0	31	0	0	0	0	0	6	15	10	0	0
	1730	,,	1002·7	947·4	..	27·2	23·4	21·6	25·9	72	..	7·7	..	4·3	0	0	28	1	0	0	0	0	3	15	9	3	0
Rayala Seema																											
Kurnool	0830	281	1007·7	976·1	+0·7	25·4	22·8	21·5	25·6	79	+5	6·1	+0·2	8·5	0	0	30	0	0	0	0	0	0	20	10	1	0
	1730	,,	1003·2	972·1	..	29·0	24·0	21·4	25·8	65	..	7·0	..	9·5	0	0	31	0	0	0	0	1	0	22	8	0	0
Nandyal†	0830																										
	1730																										
Anantapur	0530	350	1006·5	967·3	..	23·9	21·5	20·3	23·7	80	..	6·6	..	11·0	0	2	25	0	0	0	0	0	2	25	0	4	0
	0830	,,	1007·6	968·6	+1·1	25·5	22·1	20·3	23·8	73	−1	6·2	0	15·9	0	9	21	0	0	0	0	0	1	27	2	1	0
	1130	,,	1006·8	968·2	..	28·9	22·9	19·7	22·9	59	..	7·0	..	19·5	0	9	21	1	0	0	0	0	0	21	8	1	0
	1730	,,	1003·1	964·8	..	29·7	23·1	19·7	22·9	56	..	7·0	..	17·9	0	13	16	2	2	0	0	0	0	19	6	2	0
	2330	,,	1007·3	968·3	..	25·5	22·3	20·5	24·7	75	..	6·2	..	17·0	0	12	18	1	1	0	0	0	2	24	2	1	0
Cuddapah	0830	130	1007·8	993·1	+0·4	26·8	23·7	22·1	26·6	76	+8	6·2	+0·3	2·1	0	0	13	0	0	0	0	0	0	10	3	18	0
	1730	,,	1003·4	989·0	..	30·3	24·8	22·1	26·9	63	..	6·3	..	4·6	0	0	19	0	0	0	1	0	0	11	7	12	0
Arogyavaram	0830	701	1007·7	931·0	..	24·0	20·3	18·3	21·0	70	..	6·6	..	11·0	0	3	28	0	1	1	0	0	4	12	13	0	0
	1730	,,	1003·3	927·9	..	28·0	21·4	17·9	20·6	55	..	6·6	..	12·6	0	3	28	4	1	0	0	2	3	8	13	0	0
Madras State																											
Madras (Nungambakkam)	0830	6	1007·6	1006·9	..	27·9	24·7	23·3	28·4	77	..	6·2	..	8·1	0	0	31	0	0	0	1	4	9	17	0	0	0
Madras (Minambakkam)	0230	16	1005·9	1004·1	..	26·2	24·3	23·4	28·9	85	..	6·0	..	7·2	0	1	21	0	0	1	2	3	5	10	1	9	0
	0530	,,	1006·2	1004·5	..	25·9	23·7	22·7	27·6	83	..	6·2	..	7·0	0	0	24	0	0	0	1	2	9	12	0	7	0
	0830	,,	1007·8	1006·0	+0·8	27·8	24·5	22·9	27·9	76	+8	6·5	+1·1	12·7	0	5	25	0	0	1	0	5	7	17	0	1	0
	1130	,,	1007·0	1005·3	..	31·1	25·3	22·5	27·6	61	..	6·2	..	17·6	0	11	20	1	0	0	0	5	7	14	4	0	0
	1730	,,	1004·1	1002·3	..	30·3	25·6	23·4	28·9	69	..	6·5	..	12·5	0	3	28	2	1	4	5	6	2	7	3	0	1
	2330	,,	1007·2	1005·5	..	27·0	24·9	24·0	31·5	84	..	6·0	..	9·1	0	0	30	0	0	1	3	12	7	5	2	1	0
Vellore	0530	214	1006·5	982·5	..	25·1	22·8	21·6	25·9	81	..	7·1	..	1·8	0	0	12	0	0	0	0	1	2	9	0	19	0
	0830	,,	1007·9	983·9	+0·9	27·0	23·7	21·9	26·6	75	+5	7·0	+2·5	4·6	0	0	23	0	0	0	0	0	0	23	0	8	0
	1130	,,	1006·9	983·3	..	30·6	24·8	22·1	26·6	61	..	6·9	..	6·4	0	1	27	0	0	0	0	1	0	24	3	3	0
	1730	,,	1003·5	979·9	..	30·6	24·5	21·9	26·3	61	..	7·2	..	4·1	0	0	22	2	0	1	1	2	3	11	2	9	0
	2330	,,	1007·4	983·4	..	26·5	23·7	22·3	26·9	79	..	7·2	..	1·5	0	0	6	0	0	0	0	1	1	3	1	25	0
Tambaram (Aerodrome)	0830	29	1007·5	1004·2	..	27·6	25·5	24·5	30·7	83	..	6·4	..	13·1	0	4	27	0	0	0	0	2	7	19	3	0	0
	1730	,,	1003·9	1000·6	..	30·3	26·8	25·2	32·2	76	..	6·0	..	17·6	0	10	20	1	0	0	9	9	3	5	3	1	0
Tiruppattur	*0830	390	1008·5	965·0	..	26·2	22·7	21·0	24·7	78	..	6·9	..	5·7	0	0	29	6	1	2	0	2	0	7	11	1	0
	1730	,,	1003·8	961·2	..	29·9	23·6	20·4	24·0	55	..	7·2	..	11·5	0	4	27	6	2	2	0	0	0	12	9	0	0
Mettur Dam R.S.	*0830	..	..	..	..	26·8	24·0	22·6	27·4	78	..	6·1	..	4·0	0	0	27	0	5	0	3	0	14	0	5	3	0
	*1730	..	..	..	..	29·6	24·5	21·9	26·3	65	..	7·0	..	6·0	0	0	29	0	3	0	3	0	9	0	14	1	0
Caddalore	0530	12	1006·1	1004·8	..	25·7	23·6	22·5	27·3	83	..	6·6	..	3·1	0	0	14	0	0	0	0	5	8	1	0	17	0
	0830	,,	1008·1	1006·8	+0·5	27·7	24·3	22·6	27·6	75	+2	6·7	+1·7	5·3	0	0	29	0	0	0	0	1	24	3	1	2	0
	1130	,,	1007·2	1005·9	..	31·5	25·1	22·0	26·6	59	..	6·2	..	9·7	0	1	28	0	0	0	2	1	16	6	4	2	0
	1730	,,	1004·0	1002·7	..	30·7	25·5	23·0	28·3	66	..	4·9	..	9·6	0	1	30	0	0	2	14	3	10	1	1	0	0
	2330	,,	1007·2	1005·9	..	27·3	24·7	23·4	28·9	80	..	6·2	..	7·4	0	0	27	1	0	0	7	7	11	1	0	4	0
Kallakkurichchi	0830	127	1007·9	993·6	..	26·7	24·8	24·0	29·7	86	..	5·9	..	7·4	0	0	23	0	0	0	1	1	21	0	0	8	0
	1730	,,	1003·5	989·5	..	31·8	27·1	25·1	31·9	69	..	6·6	..	10·6	0	4	25	0	1	1	5	0	16	0	6	2	0
Salem	0530	278	1007·5	976·2	..	23·8	22·0	21·0	25·0	85	..	7·5	..	2·7	0	0	21	0	0	0	0	6	10	5	0	10	0
	0830	,,	1009·0	977·8	+0·6	25·4	22·6	21·1	25·2	77	−1	7·0	+1·8	2·5	0	0	19	1	0	0	0	5	10	3	0	12	0

*Observation for 30 days.

† Date not reliable

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State (*Contd.*)																											
Salem—(*Contd.*)	1130	278	1006·5	976·3	..	29·4	23·4	20·2	23·8	58	..	6·9	..	6·0	0	0	26	0	0	0	0	1	9	14	2	5	0
	1730	,,	1004·2	973·6	..	30·0	23·5	20·0	23·8	57	..	7·2	..	5·2	0	0	22	0	0	0	0	3	8	7	4	9	0
	2330	,,	1008·3	977·1	..	25·7	22·5	20·9	24·7	76	..	7·1	..	4·6	0	0	22	0	0	0	0	7	11	4	0	9	0
Coimbatore (Pilamedu)	0530	399	1008·0	963·2	..	22·3	21·5	21·1	25·0	93	..	6·9	..	22·5	0	19	12	0	0	0	0	10	19	1	0	0	1
	0830	,,	1009·3	964·7	..	24·6	22·4	21·3	25·3	82	..	6·6	..	25·1	0	21	9	0	0	0	0	10	17	2	0	1	1
	1130	,,	1008·1	964·2	..	28·2	23·2	20·6	24·4	64	..	6·2	..	30·6	0	22	8	0	0	0	1	6	16	3	0	1	2
	1730	,,	1005·6	961·5	..	26·5	22·8	20·9	24·7	71	..	6·7	..	37·9	0	30	1	0	0	0	0	5	22	4	0	0	0
	2330	,,	1009·1	964·4	..	23·1	21·9	21·2	25·3	89	..	6·4	..	28·3	0	27	4	0	0	0	0	6	24	1	0	0	0
Coimbatore . .	0830	409	1009·5	963·9	+0·8	24·2	21·2	19·5	22·7	75	—6	7·3	+3·0	25·0	0	29	2	0	0	0	0	14	15	2	0	0	0
	1730	,,	1005·7	960·6	..	26·7	22·4	20·2	23·5	68	..	7·4	..	23·9	0	28	3	0	0	0	0	9	16	6	0	0	0
Nagapattinam .	0830	9	1008·9	1007·8	+0·7	28·0	24·1	22·3	26·9	72	+2	6·1	+1·5	10·8	0	1	30	1	0	0	0	1	7	20	2	0	0
	1730	,,	1004·7	1003·7	..	31·2	25·7	23·1	28·6	63	..	6·2	..	16·2	0	12	18	0	0	3	7	7	10	3	0	1	0
Tiruchchirappalli .	0230	88	1006·8	996·9	..	26·5	22·8	20·8	24·7	72	..	6·0	..	24·7	0	19	12	0	0	0	0	1	2	26	2	0	0
	0530	,,	1007·3	997·3	..	26·0	22·6	20·8	24·6	74	..	6·1	..	20·0	0	14	16	0	0	0	0	0	2	26	2	1	0
	0830	,,	1008·8	998·9	+0·5	28·0	23·4	21·0	25·2	67	+3	5·9	+1·3	23·1	0	18	12	0	0	0	0	0	0	26	4	1	0
	1130	,,	1007·8	998·0	..	31·9	24·2	20·2	23·8	52	..	5·9	..	28·0	0	22	9	0	0	0	0	1	0	21	9	0	0
	1730	,,	1004·5	994·8	..	32·4	24·2	19·9	23·5	49	..	6·0	..	26·1	0	16	15	0	0	2	1	1	19	8	0	0	0
	2330	,,	1008·2	998·3	..	26·9	23·1	21·1	25·2	72	..	6·4	..	24·6	0	17	12	1	0	0	1	3	3	21	0	2	0
Vedaranniyam .	0830	4	1008·6	1008·1	..	29·4	25·7	24·1	30·0	74	..	5·2	..	7·8	0	0	31	1	1	0	1	8	9	7	4	0	0
	1730	,,	1005.2	1004·7	..	30·1	27·2	26·0	33·8	79	..	4·5	..	11·2	0	2	29	1	0	0	6	14	9	0	1	0	0
Atirampattinam .	0830	6	1008·4	1007·7	..	29·0	24·2	21·9	26·3	66	..	5·7	..	6·8	0	0	31	2	0	0	0	1	5	13	10	0	0
	1730	,,	1005·0	1004·3	..	30·2	25·8	23·9	29·7	69	..	5·6	..	22·5	0	23	8	2	1	0	1	16	9	1	1	0	0
Madurai . .	0830	133	1008·8	993·9	+0·6	28·1	25·5	24·5	30·7	81	+19	4·6	—0·6	4·6	0	0	30	11	0	0	0	1	1	9	8	1	0
	1730	,,	1004.6	989·9	..	32·3	28·1	26·8	34·6	73	..	5·0	..	10·3	0	3	28	2	2	0	4	2	11	5	3	0	2
Madurai Aerodrome	0530	131	1007·2	992·4	..	26·3	22·5	20·6	24·1	72	..	5·9	..	9·7	0	2	27	12	1	0	1	0	1	11	3	2	0
	0830	,,	1008·7	993·9	..	28·8	23·5	20·7	24·6	62	..	6·1	..	16·5	0	9	21	12	0	0	0	1	2	7	8	1	0
	1130	,,	1007·7	993·2	..	32·6	24·3	20·1	23·5	49	..	5·8	..	17·2	0	9	22	4	3	2	1	0	0	9	9	0	3
	1730	,,	1004·7	990·2	..	31·5	24·3	20·7	24·6	54	..	6·7	..	22·8	0	18	13	2	1	1	3	4	3	11	6	0	0
Tondi . . .	0830	5	1008·9	1008·3	..	28·6	24·1	21·9	26·3	67	..	5·1	..	4·3	0	0	13	0	0	0	3	2	6	1	1	18	0
	1730	,,	1005·2	1004·6	..	30·0	24·1	24·3	30·7	72	..	5·6	..	26·6	0	25	5	1	0	0	13	13	2	1	0	1	0
Pamban . . .	0830	11	1008·8	1007·5	+0·4	28·5	25·8	24·6	31·1	79	+3	3·9	+1·0	7·7	0	1	27	3	0	0	4	5	16	0	0	3	0
	1730	,,	1005·6	1004·3	..	28·8	26·6	25·6	33·0	83	..	3·9	..	11·4	0	3	27	1	0	0	11	12	6	0	0	1	0
Tuticorin . .	0830	4	1009·3	1008·9	+1·2	29·5	23·8	20·9	24·7	61	+4	4·4	+0·8	19·9	0	16	15	0	3	0	0	2	1	24	1	0	0
	1730	,,	1005·7	1005·3	..	31·2	24·7	21·5	25·8	57	..	6·3	..	26·3	0	28	3	0	0	0	5	5	1	20	0	0	0
Palayancottai . .	0830	51	1009·1	1003·4	+1·0	29·4	23·1	19·9	23·1	52	+1	5·5	+1·0	9·1	0	6	18	1	0	0	0	0	0	22	1	7	0
	1730	,,	1005·8	1000·1	..	30·7	23·5	19·8	23·1	53	..	6·3	..	15·0	0	11	19	0	0	1	1	3	5	17	3	1	0
Kanniyakumari .	0830	37	1009·8	1005·7	..	26·7	23·5	21·9	26·3	75	..	6·1	..	18·0	0	13	18	0	0	0	0	0	0	26	5	0	0
	1730	,,	1007·3	1003·1	..	27·2	24·2	22·8	27·7	77	..	5·6	..	18·6	0	15	16	0	0	0	0	0	0	29	2	0	0
Coastal Mysore																											
Karwar . .	0830	4	1008·6	1008·1	+0·4	25·6	24·6	24·1	30·0	91	+2	7·1	—0·1	11·3	0	6	19	0	2	3	1	1	2	6	3	6	7
	1730	,,	1006·7	1006·2	..	26·4	25·2	24·5	31·1	89	..	7·2	..	14·9	0	9	22	0	1	0	2	1	2	4	15	0	6
Honavar . . .	0830	26	1009·4	1006·5	+0·6	24·7	23·8	23·4	28·6	93	+2	7·9	+1·2	5·0	0	0	29	0	0	11	0	4	7	5	2	2	0
	1730	,,	1007·2	1004·2	..	25·9	24·5	23·8	29·7	88	..	7·3	..	9·3	0	0	31	0	0	3	0	2	6	16	4	0	0
Mangalore (Bajpe)	0230	102	1008·4	996·8	..	23·6	23·1	22·8	27·9	95	..	6·8	..	6·5	0	1	19	0	1	1	1	0	3	9	5	11	0
	0530	,,	1008·4	996·8	..	23·4	23·0	22·8	27·7	96	..	7·0	..	7·7	0	1	25	0	0	5	3	1	6	10	1	5	0
	0830	,,	1009·9	998·3	..	24·5	23·7	23·3	28·6	93	..	7·5	..	6·1	0	1	20	0	0	3	5	1	1	7	4	10	0
	1130	,,	1010·8	998·5	..	26·1	24·5	23·8	29·5	87	..	7·4	..	12·7	0	4	25	1	0	1	1	1	4	14	7	2	0
	1730	,,	1007·6	996·1	..	25·5	24·1	23·4	28·9	88	..	7·1	..	13·3	0	2	29	0	0	1	0	0	2	19	9	0	0
	2330	,,	1010·0	998·4	..	23·9	23·4	23·1	28·3	95	..	6·5	..	9·5	0	2	25	2	1	3	1	0	3	8	9	4	0
Mangalore . .	0830	22	1010·0	1007·5	+0·2	25·3	24·2	23·7	29·3	91	+1	7·6	+0·9	3·0	0	0	31	9	1	3	1	1	1	13	2	0	0
	1730	,,	1007·8	1005·3	..	26·3	24·6	23·9	29·7	87	..	7·3	..	4·6	0	0	31	2	0	1	0	0	5	15	8	0	0
Interior Mysore (North)																											
Bidar . . .	0830	664	1006.1	933.2	..	22.4	21.1	20.5	24.1	89	+6	6.4	+1.0	19.9	0	21	10	0	0	0	0	0	18	8	5	0	0
	1730	,,	1001.8	930.5	..	26.1	22.3	20.5	24.1	73	..	6.8	..	13.4	0	7	23	0	0	0	0	0	6	10	14	1	0
Gulbarga . .	0830	458	1006.8	955.7	+0.2	23.6	22.0	21.5	25.3	86	+8	7.6	+2.1	13.0	0	5	26	0	0	0	0	2	6	21	2	0	0
	1730	,,	1002.3	952.2	..	28.2	23.6	21.2	25.8	67	..	7.8	..	15.0	0	9	22	3	1	0	0	2	5	17	3	0	0

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore North (*Contd.*)																											
Bijapur	0830	594	1006.8	941.1	0	23.1	21.7	20.9	24.9	88	+11	6.9	+1.3	4.8	0	0	30	0	0	0	0	0	1	28	1	1	0
	1730	,,	1002.8	938.3	..	27.8	22.9	20.5	24.4	67	..	7.2	..	4.5	0	0	31	1	0	0	0	0	2	28	0	0	0
Raichur	0830	400	1007.1	962.6	+0.2	24.5	22.3	21.2	25.3	81	+5	7.1	+2.8	6.1	0	0	31	0	0	0	0	0	13	10	8	0	0
	1730	,,	1002.8	959.1	..	28.4	23.2	20.5	24.1	64	..	7.5	..	7.3	0	0	31	0	2	0	4	0	13	0	11	0	1
Belgaum	0830	753	1007.9	925.0	−0.1	21.2	20.4	20.0	23.4	92	+1	7.8	+0.7	6.3	0	0	31	0	0	0	0	0	3	19	9	0	0
	1730	,,	1005.5	923.5	..	23.1	21.3	20.5	24.0	86	..	7.6	..	10.7	0	0	31	0	0	0	0	0	0	18	13	0	0
Belgaum (Samra)	0530	747	1007.1	924.6	..	20.6	19.9	19.6	22.8	94	..	6.7	..	13.2	0	8	18	0	0	0	0	0	2	20	4	5	0
	0830	,,	1008.4	926.1	..	21.6	20.4	19.8	23.1	89	..	7.2	..	14.5	0	7	24	1	0	0	0	0	3	17	10	0	0
	1130	,,	1007.9	926.2	..	23.8	21.3	20.1	23.5	80	..	7.1	..	19.1	0	15	16	1	0	0	0	0	4	17	9	0	0
	1730	,,	1005.7	924.0	..	23.0	21.0	20.7	24.4	84	..	7.3	..	21.7	0	15	16	1	0	0	0	0	2	21	7	0	0
Gadag	0530	650	1007.1	935.1	..	21.1	20.4	20.1	23.5	94	..	7.2	..	9.4	0	1	27	0	0	0	0	0	4	24	0	3	0
	0830	,,	1008.3	936.4	+0.6	22.5	21.2	20.6	24.1	89	+5	7.1	+1.2	11.2	0	1	30	0	0	0	0	0	4	27	0	0	0
	1130	,,	1007.4	936.4	..	26.2	22.1	20.1	23.5	69	..	7.3	..	11.2	0	0	31	1	0	0	0	0	2	26	2	0	0
	1730	,,	1004.7	933.8	..	25.4	22.0	20.3	24.0	75	..	7.8	..	12.6	0	3	28	0	0	0	2	0	2	27	0	0	0
	2330	,,	1008.6	936.6	..	21.9	20.8	20.4	23.8	91	..	6.7	..	12.0	0	1	30	0	0	0	0	0	12	18	1	0	0
Interior Mysore South																											
Bellary	0830	449	1007.6	957.8	+0.4	25.7	23.1	22.0	26.1	82	+15	6.9	+1.3	18.7	0	14	16	0	0	0	0	0	0	0	30	1	0
	1730	,,	1003.3	954.5	..	29.2	24.9	22.8	27.9	70	..	7.3	..	21.7	0	17	14	0	0	0	0	0	0	0	31	0	0
Chitaldrug	0830	733	1008.5	927.8	+0.5	21.7	20.3	19.6	22.8	88	+7	7.5	+0.6	11.0	0	0	31	0	0	0	0	0	18	13	0	0	0
	1730	,,	1004.7	925.1	..	25.0	21.2	19.3	22.4	72	..	7.5	..	12.8	0	2	29	0	0	0	0	0	6	25	0	0	0
Shimoga	0830	571	1008.9	945.4	+0.5	22.8	21.2	20.4	24.0	87	0	7.8	+0.6	3.3	0	0	23	1	0	0	0	1	11	8	2	8	0
	1730	,,	1005.7	943.0	..	24.3	21.8	20.5	24.4	79	..	7.6	..	4.9	0	0	24	1	0	0	0	2	16	1	4	7	0
Agumbe	0830	,,	..	..	..	21.2	21.2	21.2	25.2	100	..	8.0	..	4.2	0	0	31	1	3	2	0	0	17	8	0	0	0
Balehonnur	0830	..	..	..	..	19.3	19.0	18.7	21.8	97	+3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1495.5	904.8	..	19.9	19.2	18.8	21.8	93	+9	7.0	+0.4	4.3	0	0	31	0	0	0	0	0	0	31	0	0	0
	1730	,,	1479.1	902.7	..	22.2	20.2	19.2	22.2	83	..	7.1	..	5.5	0	0	31	1	0	0	0	0	0	29	1	0	0
Bangalore	0230	921	1476.7	906.9	..	20.1	19.4	19.0	22.1	93	..	6.5	..	10.5	0	2	29	0	0	1	0	0	11	18	1	0	0
	0830	,,	1492.7	908.5	+0.5	20.5	19.5	19.0	21.8	91	+6	7.6	+0.4	13.2	0	5	24	0	0	0	0	0	6	21	2	2	0
	1130	,,	1497.4	908.3	..	23.9	20.7	19.1	22.1	75	..	7.5	..	14.5	0	7	24	0	0	0	0	0	5	19	7	0	0
	1730	,,	1473.3	905.8	..	24.3	20.8	19.1	22.1	74	..	7.3	..	13.5	0	8	21	3	0	0	0	0	2	20	4	2	0
Bangalore Aerodrome	0530	897	1475.1	909.4	..	19.8	19.0	18.6	21.4	93	..	6.9	..	12.9	0	3	26	0	0	0	0	0	6	22	1	2	0
	0830	,,	1492.1	910.9	..	21.1	19.6	18.7	21.8	86	..	7.4	..	15.6	0	8	23	0	0	0	0	0	3	26	2	0	0
	1130	,,	1496.6	910.7	..	24.4	20.4	18.4	21.0	70	..	7.4	..	18.8	0	13	18	1	0	0	0	0	2	24	4	0	0
	1730	,,	1471.8	908.1	..	24.6	20.7	18.6	21.6	70	..	7.3	..	15.5	0	9	21	2	1	0	0	0	3	19	5	1	0
	2330	,,	1490.0	910.7	..	21.2	19.8	19.0	22.1	88	..	7.0	..	13.7	0	5	24	0	0	0	0	0	5	20	4	2	0
Mysore	0830	767	1009.7	925.2	+0.3	21.6	19.9	19.0	22.1	84	+4	5.7	−0.6	7.7	0	1	30	0	0	1	0	2	13	8	7	0	0
	1730	,,	1006.4	923.3	..	24.2	20.4	18.5	21.1	71	..	6.3	..	12.7	0	4	27	1	1	0	0	2	7	11	9	0	0
Kerala																											
Calicut	0530	5	1009.4	1008.8	..	23.8	23.3	23.0	28.3	95	..	7.0	..	7.9	0	3	19	0	2	8	1	0	1	1	9	9	0
	0830	,,	1010.9	1010.3	+0.7	24.6	23.8	23.4	28.8	92	+1	6.7	+0.1	6.3	0	0	24	2	2	7	0	0	2	1	10	7	0
	1130	,,	1011.1	1010.5	..	25.9	24.2	23.5	28.9	86	..	7.0	..	10.0	0	3	25	4	0	1	0	1	5	7	10	3	0
	1730	,,	1008.4	1007.8	..	26.0	24.3	23.5	30.4	86	..	6.6	..	15.5	0	10	20	2	0	0	0	1	1	4	22	1	0
	2330	,,	1011.0	1010.4	..	24.8	23.9	23.5	28.9	93	..	5.8	..	8.6	0	5	13	1	1	3	0	0	0	2	11	13	0
Palghat	0830	97	1010.6	999.5	..	24.4	23.4	22.9	27.9	92	..	7.4	..	10.6	0	0	31	0	0	0	0	0	3	28	0	0	0
	1730	,,	1007.5	996.5	..	26.0	23.8	22.8	27.7	83	..	7.3	..	12.3	0	1	30	0	0	0	0	0	5	26	0	0	0
Fort Cochin	0830	3	1010.9	1010.6	+0.3	25.9	24.5	23.8	29.7	88	+2	7.3	+1.3	7.0	0	1	28	7	5	4	1	0	2	3	7	2	0
	1730	,,	1008.1	1007.8	..	26.4	24.6	23.7	29.5	86	..	7.3	..	10.1	0	1	30	2	1	0	0	0	2	5	21	0	0
Cochin (Naval Air Station)	0230	3	1009·8	1009·5	..	24·6	23·9	23·6	28·9	94	..	6·8	..	3·0	0	0	8	0	0	2	0	0	0	0	6	23	0
	0530	,,	1009·7	1009·4	..	24·4	23·7	23·4	28·6	94	..	6·8	..	3·0	0	0	13	0	1	2	0	1	2	1	6	18	0
	0830	,,	1011·1	1010·8	..	25·7	24·2	23·6	28·9	88	..	7·1	..	5·1	0	7	24	2	7	4	1	0	1	3	6	7	0
	1130	,,	1011·2	1010·9	..	26·9	24·6	23·2	28·8	78	..	7·1	..	12·8	0	2	27	0	0	0	0	1	3	10	15	2	0
	1730	,,	1008·7	1008·4	..	26·8	24·4	23·3	28·6	81	..	7·1	..	13·5	0	3	25	0	0	0	0	1	1	10	16	3	0
	2330	,,	1011·2	1010·9	..	25·1	24·2	23·8	29·3	92	..	7·0	..	4·0	0	0	14	1	1	2	0	0	0	1	9	17	0
Alleppey	0830	4	1011·3	1010·9	+1·3	25·5	24·6	24·1	30·0	92	+2	6·7	−0·1	8·2	0	3	28	0	16	1	3	0	3	0	8	0	0
	1730	,,	1009·1	1008·7	..	27·3	25·3	24·4	30·5	84	..	6·7	..	20·0	0	21	10	0	0	0	0	0	0	1	30	0	0
Punalur	0830	34	1010·7	1006·9	..	24·7	23·7	23·2	28·4	92	..	6·9	..	1·2	0	0	10	2	0	0	0	0	0	3	5	21	0
	1730	,,	1007·9	1004·0	..	27·8	24·4	22·9	27·7	75	..	7·3	..	4·9	0	0	31	5	0	0	0	1	3	10	12	0	0

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala (*Contd.*)																											
Trivandrum	0230	64	1009·4	1002·1	..	24·0	23·3	23·0	27·9	93	..	5·2	..	5·9	0	0	29	8	0	0	0	0	0	0	21	2	0
	0530	,,	1009·5	1002·1	..	23·7	23·0	22·6	27·6	94	..	5·0	..	6·8	0	0	30	14	0	0	0	0	0	0	16	1	0
	0830	,,	1010·9	1003·5	—0·1	25·3	23·7	23·0	27·9	87	+1	5·8	—0·5	7·1	0	0	30	11	1	0	0	0	0	0	18	1	0
	1130	,,	1010·4	1003·2	..	28·3	24·5	22·7	27·4	72	..	6·3	..	14·1	0	5	26	3	1	0	0	0	0	2	25	0	0
	1730	,,	1008·2	1000·9	..	27·1	24·2	22·9	27·9	78	..	6·0	..	11·8	0	2	29	1	0	0	0	0	0	1	29	0	0
	2330	,,	1010·8	1003·5	..	24·6	23·7	23·3	28·6	92	..	5·6	..	9·3	0	0	30	5	0	0	0	0	0	0	25	1	0
Trivandrum Aerodrome	0830	8	1010·8	1009·9	..	26·0	24·0	23·0	28·3	84	..	6·0	..	7·7	0	0	29	16	1	0	0	0	0	0	11	2	1
Arabian Sea Islands																											
Amini**	0830	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy**	0530	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,																									
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1403·1	797·0	+1·3	17·9	17·0	16·6	18·9	91	0	5·8	+1·5	1·2	0	0	20	1	8	1	3	0	5	1	1	11	0
	1730	,,	1388·9	796·2	..	20·6	18·7	17·8	20·4	84	0	6·9	..	2·0	0	0	21	1	3	0	3	0	10	4	0	10	0
Dharmsala	0830	1211	1559·2	885·1	+7·5	22·7	20·7	19·7	22·9	83	—3	6·3	+0·7	1·0	0	0	11	0	1	3	2	1	0	3	1	20	0
	1730	,,	1558·5	884·7	..	24·8	22·1	20·9	24·6	79	..	6·7	..	1·7	0	0	20	0	1	0	0	0	7	10	2	11	0
Simla	0830	2202	1440·3	778·2	—0·1	16·8	16·1	15·8	17·7	94	+8	6·0	—0·6	2·0	0	0	31	1	6	0	6	0	9	0	9	0	0
	1730	,,	1437·7	778·2	..	18·3	17·9	17·6	19·6	96	..	7·0	..	2·0	0	0	31	0	3	0	11	0	11	0	6	0	0
Lokpal	0830	..	..	..	..	6·6	6·1	5·6	9·1	89	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830																										
Joshimath	0830	..	..	..	..	18·9	18·2	17·8	20·2	94	..	6·6	..	1·8	0	0	16	3	2	2	0	0	0	4	2	15	3
	1730	..	..	..	..	21·5	18·8	17·6	19·6	79	..	7·2	..	3·5	0	0	21	0	2	0	0	2	4	3	2	10	8
Mussoorie	0830	2042	1442·4	793·0	—0·9	17·3	16·9	16·6	19·0	93	—2	7·4	+0·4	1·9	0	0	15	1	1	0	5	6	1	0	1	16	0
	1730	,,	1425·7	791·7	..	18·2	17·9	17·8	20·4	98	..	7·7	..	1·9	0	0	20	2	1	0	5	8	3	0	1	11	0
Mukteswar (Kumaun)	0830	2311	3113·8	770·1	+0·7	16·0	15·6	15·3	17·0	96	+5	7·2	+0·6	9·5	0	1	29	0	7	6	3	2	1	7	4	1	0
	1730	,,	3099·9	768·4	..	17·6	16·8	16·4	19·0	93	..	7·0	..	11·2	0	8	23	0	1	3	2	3	7	11	4	0	0
Nainital	0830	1953	1440·5	801·6	+1·1	18·3	16·6	15·6	17·9	85	—2	6·9	+0·3	7·5	0	0	24	0	1	8	10	0	0	2	3	7	0
	1730	,,	1416·3	799·1	..	18·6	17·3	16·5	18·3	88	..	6·8	..	6·9	0	0	29	2	1	9	7	3	1	5	1	2	0
Kalimpong	0830	1209	1466·7	875·8	+1·4	22·7	20·9	19·9	23·2	85	—6	1·9	—4·6	3·0	0	0	31	3	0	0	2	0	0	1	25	0	0
	1730	,,	1466·2	875·7	..	22·8	21·0	20·0	23·4	85	..	2·1	..	3·0	0	0	31	2	0	0	27	0	0	0	2	0	0
Darjeeling	0830	2126	1434·0	784·6	—1·5	17·1	16·7	16·5	18·8	96	+12	6·8	—0·2	0·6	0	0	5	0	3	0	0	0	0	0	2	26	0
	1730	,,	1411·6	782·5	..	17·0	16·4	15·9	18·1	95	..	6·5	..	1·1	0	0	7	0	6	0	0	0	1	0	0	24	0
Kohima	0830	1406	1497·0	859·1	..	20·1	19·3	18·9	21·8	93	..	7·9	..	1·9	0	0	31	3	2	3	5	1	0	2	15	0	0
	1730	,,	1461·0	855·6	..	20·4	19·4	18·9	21·8	93	..	7·7	..	1·9	0	0	31	1	0	0	1	1	0	2	26	0	0
Shillong	0830	1500	1471·8	847·4	+1·6	21·3	19·2	18·1	20·8	82	+1	7·6	+1·0	1·1	0	0	10	1	1	1	1	0	4	0	2	21	0
	1730	,,	1449·5	845·3	..	20·7	19·3	18·5	21·3	87	..	8·0	..	0·9	0	0	5	0	0	0	0	0	3	1	1	26	0
Cherrapunji	0830	1313	1438·9	862·6	—1·9	19·2	18·8	18·5	21·3	96	+7	5·7	—1·4	4·4	0	0	31	0	4	7	7	1	12	0	0	0	0
	1730	,,	1438·9	862·7	..	19·2	18·7	18·6	21·6	96	..	4·7	..	4·1	0	0	31	0	5	5	5	0	16	0	0	0	0
Abu	0830	1195	1445.1	875.3	+0.4	20.0	19.1	18.7	21.1	93	0	6.6	—0.7	2.3	0	0	14	0	0	0	0	3	6	5	0	17	0
	1730	,,	1441.3	874.3	..	22.3	20.4	19.6	22.5	86	..	5.8	..	4.5	0	0	23	0	0	0	0	4	13	4	2	8	0
Aijal	0830	..	..	..	..	21.6	20.6	20.1	23.5	91	..	7.8	..	2.0	0	0	31	0	2	16	3	4	3	3	0	0	0
	1730	..	..	..	...	22.0	20.8	20.2	23.4	90	..	7.8	..	2.0	0	0	31	3	0	1	1	5	6	14	1	0	0
Pachmarhi	0830	1075	1456.7	888.6	+1.1	20.8	20.5	20.3	23.8	96	+6	7.8	+0.5	6.0	0	0	29	0	0	0	0	1	0	8	20	2	0
	1730	,,	1438·3	886.5	..	23.0	21.6	20.9	24.7	88	..	6.8	..	5.4	0	0	27	0	0	0	1	0	2	10	14	4	0
Mahabaleshwar	0830	1382	1475.6	859.6	+0.2	17.4	17.4	17.4	19.9	100	+3	8.0	+0.2	11.4	0	0	31	0	0	0	0	0	23	2	6	0	0
	1730	,,	1457.9	857.8	..	17.8	17.8	17.8	20.4	100	..	8.0	..	14.4	0	0	31	0	0	0	0	0	24	5	2	0	0
Mercara	0830	1152	1496.7	885.1	+0.9	18.1	17.7	17.5	20.0	97	+2	7.0	—0.4	14.7	0	6	25	0	0	0	0	0	0	16	15	0	0
	1730	,,	1477.4	883.0	..	19.0	18.4	18.2	20.7	95	..	7.4	..	15.0	0	6	25	0	0	0	0	0	0	17	14	0	0
Ootacamund	0830	2249	1498.8	778.7	+0.7	13.2	12.5	12.1	14.1	93	+6	6.6	0	5.9	0	0	26	0	0	0	0	0	0	26	0	5	0
	1730	,,	1477.2	777.0	..	14.1	13.1	12.5	14.4	90	..	7.0	..	6.6	0	0	23	0	0	0	0	0	1	19	3	8	0
Coonoor (R)	0830																										
Kodaikanal	0830	2343	3141.2	770.5	+0.9	13.4	11.8	10.6	12.8	84	+7	+6.6	+1.5	12.7	0	9	19	3	0	0	0	2	0	5	18	3	0
	1130	,,	3150.5	770.7	..	15.9	13.5	11.8	13.9	78	..	7.1	..	12.3	0	6	24	4	1	0	1	0	0	4	20	1	0
	1730	,,	3124.0	768.8	..	13.8	12.7	11.9	13.9	88	..	7.2	..	11.7	0	6	21	3	1	0	0	0	1	6	16	4	0

** Data given as addenda in December 1962 issue.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperatur in °C: Dry bulb	Mean temperatur in °C: Wet bulb	Mean temperatur in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Nepal																											
Katmandu	0830	1324	1449.8	862.8	..	21.8	20.4	19.7	22.9	88	..	7.6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1445.7	862.0	..	24.9	21.4	19.7	22.9	73	..	7.5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1424.0	860.0	..	23.2	21.3	20.3	23.8	84	..	7.7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sikkim																											
Lachen	0830	..	..	..	..	14.8	13.6	13.3	15.3	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
HYDROMETEOROLOGICAL OBSERVATORIES																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	27.6	25.1	23.9	29.7	82	..	6.6	..	6.2	0	0	31	2	1	12	3	1	0	10	2	0	0
	1730	..	..	..	..	27.7	25.1	23.9	29.6	81	..	6.4	..	5.5	0	0	31	1	0	17	3	0	0	9	1	0	0
Hazaribagh	0830	615	1001.8	934.7	..	25.4	23.7	23.0	28.1	87	..	6.9	..	5.5	0	0	27	0	0	7	5	2	6	5	2	4	0
	1730	,,	998.9	932.0	..	26.0	23.9	23.0	28.1	84	..	7.1	..	4.8	0	0	25	0	1	10	5	1	1	5	2	6	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	6.7	..	8.2	0	0	31	0	0	14	6	0	0	10	1	0	0
	1730	..	..	..	..	..	..	..	..	..	..	6.8	..	6.9	0	0	31	0	0	19	1	0	0	10	1	0	0
Bokaro	0830	242	1002.4	976.3	..	28.4	26.1	24.9	32.0	82	..	7.3	..	4.2	0	0	30	0	5	0	11	0	9	0	5	1	0
	1730	,,	1001.2	974.6	..	29.6	27.4	26.6	34.7	84	..	7.0	..	6.6	0	0	31	4	7	0	3	1	4	6	5	0	1
Maithon	0830	..	..	..	..	..	..	..	..	..	..	5.6	..	..	0	0	31	0	0	13	11	1	3	2	1	0	0
	1730	..	..	..	..	..	..	..	..	..	..	5.3	..	..	0	0	31	0	0	6	21	2	2	0	0	0	0
Ramgarh	0830	..	..	..	..	27.3	24.9	24.0	29.6	82	..	7.1	..	2.4	0	0	23	2	6	2	2	1	4	4	2	8	0
	1730	..	..	..	..	28.3	25.3	24.0	29.6	78	..	7.2	..	1.0	0	0	21	0	6	6	4	1	1	2	1	10	0
Panchet Hills	0830	..	..	..	..	28.8	26.2	25.1	32.3	80	..	7.9	..	6.3	0	0	31	0	5	1	13	0	10	0	2	0	0
	1730	..	..	..	..	28.9	26.0	24.6	31.3	79	..	7.9	..	5.1	0	0	27	0	3	1	19	1	2	0	1	4	0
Durgapur	0830	..	..	..	..	28.1	26.1	25.6	32.2	86	..	5.7	..	7.5	0	0	31	1	0	0	9	18	3	0	0	0	0
	1730	..	..	..	..	29.3	26.8	25.9	33.0	82	..	5.6	..	7.3	0	0	29	1	1	1	5	11	5	3	2	2	0
Mahanadi Catchment.																											
Ginabahar	0830	..	..	..	..	25.4	24.1	23.3	28.6	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1003.1	985.3	..	26.9	25.1	24.3	30.4	86	..	6.7	..	2.8	0	0	26	0	0	2	1	6	9	7	1	5	0
	1130	,,	1002.7	985.0	..	29.0	25.7	24.3	30.4	77	..	6.9	..	3.5	0	0	31	0	0	0	4	5	11	6	5	0	0
	1730	,,	1000.0	982.3	..	28.8	25.8	24.5	30.7	77	..	7.4	..	2.5	0	0	23	1	0	1	6	5	3	3	4	8	0
Bhimkund	0830	..	..	..	..	26.7	24.3	23.3	28.6	83	..	6.6	..	2.4	0	0	15	3	1	0	1	1	7	0	2	16	0
	1730	..	..	..	..	26.9	24.5	23.4	28.8	83	..	6.7	..	3.3	0	0	22	1	0	0	7	2	7	0	5	9	0
Sonepur	0830	..	..	..	..	27.8	25.8	24.9	31.5	83	..	..	..	3.1	0	0	30	0	1	3	3	5	15	3	0	1	0
Khijrawan	0830	..	..	..	..	26.0	23.8	22.6	27.7	82	..	5.8	..	11.6	0	1	30	0	0	0	1	3	12	15	0	0	0
	1730	..	..	..	..	26.7	24.0	22.6	27.7	79	..	6.5	..	13.0	0	2	29	1	0	1	1	2	15	10	1	0	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	25.7	24.0	23.3	28.6	86	..	7.0	..	9.4	0	0	30	0	1	0	0	0	21	8	0	1	0
	1730	..	..	..	..	27.5	24.8	23.4	28.6	79	..	6.5	..	6.2	0	0	25	0	0	0	2	1	14	5	3	6	0
Punasa	0830	..	..	..	..	26.0	24.2	23.4	28.6	86	..	..	..	(c) 10.1	0	1	26	0	0	0	0	0	11	14	2	1	0
	1730	..	..	..	..	28.5	24.9	23.2	27.7	75	..	..	..	(c) 7.4	0	0	26	2	0	0	0	0	9	12	3	2	0
Thikri	0830	..	..	..	..	26.6	24.4	23.4	28.6	83	..	7.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	26.6	23.6	22.1	26.6	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30.1	25.3	23.2	28.3	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	17·6	14·7	13·1	15·1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·1	14·4	12·3	14·3	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	24·1	22·6	22·1	26·6	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·0	23·6	22·7	27·6	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	19·7	18·5	17·9	20·5	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·3	19·2	18·1	20·8	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	23·2	22·1	21·7	25·6	91	..	7·3	..	1·9	0	0	15	0	0	0	6	3	2	2	2	16	0
	*1130																										
	1730	..	..	..	..	25·7	23·2	22·1	26·6	81	..	7·0	..	3·4	0	0	21	1	2	2	9	3	2	0	2	10	0
Gorkha*	0830																										
	1730																										
Nuwakot	0830	..	..	..	..	23·3	22·5	22·1	26·6	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·3	22·8	21·7	25·9	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not available.

(c) Mean of 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST 1962 (SRAVANA 10—BHADRA 9, 1884 SAKA)

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind Speed (Km. p.h.): 62 or more	Wind Speed (Km. p.h.): 20 to 61	Wind Speed (Km. p.h.): 1 to 19	No. of observations — Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
HYDROMETEOROLOGICAL OBSERVATORIES—(contd).																											
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh	0830	..	..	..	..	21·4	20·3	19·7	22·9	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·2	21·7	20·9	24·7	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	..	18·2	17·8	17·6	20·1	96	..	7·5	..	6·1	0	0	31	2	3	10	10	1	0	2	3	0	0
	1730	..	..	..	..	19·4	18·7	18·4	21·0	94	..	7·0	..	5·3	0	0	30	11	2	4	2	0	4	0	7	1	0
Sallayana	0830	..	..	..	..	21·2	20·1	19·5	22·7	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·7	20·4	19·7	22·9	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	28·1	25·7	24·7	31·1	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·9	25·9	25·1	31·9	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu*	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chautara	0830	..	..	..	..	20·1	19·8	19·7	22·9	97	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·6	20·2	19·6	22·8	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	18·6	17·7	17·3	19·7	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·0	18·0	17·7	20·2	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	13·1	12·3	11·8	13·8	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·4	12·0	11·8	13·8	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	21·2	20·1	19·5	22·7	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·3	20·2	19·7	22·9	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	20·0	19·1	18·7	21·6	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·7	19·2	18·9	21·8	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	19·5	18·9	18·6	21·4	94	..	7·6	..	..	..	..	..	1	0	0	0	0	1	0	1	28	0
	1130	..	..	..	..	21·7	20·0	19·3	25·9	86	..	7·4	..	..	..	..	..	5	0	0	1	1	2	4	5	13	0
	1730	..	..	..	..	20·4	19·3	18·8	21·6	90	..	7·3	..	..	..	..	..	3	0	0	2	1	3	3	0	19	0
Okhaldhung	†0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	‡1130																										
	†1730																										
Chainpur	0830	..	..	..	..	21·5	21·1	20·9	24·7	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·8	21·3	21·1	25·0	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	22·8	21·7	21·1	25·0	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	(a) 24·0	21·4	(a) 20·1	23·5	(a) 79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1004·0	987·6	..	26·7	25·3	24·8	31·1	89	..	6·5	..	2·6	0	0	27	0	2	1	1	0	10	2	11	4	0
	1130	,,	1003·3	987·0	..	28·7	26·1	24·9	31·7	80	..	7·0	..	3·8	0	0	29	0	0	3	3	1	13	7	2	2	0
	1730	,,	1001·1	984·8	..	27·8	26·1	25·3	32·2	87	..	6·5	..	2·0	0	0	20	0	3	..	3	1	9	0	4	11	0
Tista Catchment																											
Gangtok	0830	1812	1461·6	816·4	..	18·5	18·0	17·8	20·3	95	..	7·8	..	1·0	0	0	16	4	6	0	2	4	0	0	0	15	0
	1130	,,	1455·2	816·0	..	20·5	19·4	18·9	21·8	91	..	7·5	3·0	3·0	0	0	30	2	2	1	4	10	9	2	0	1	0
	1730	,,	1435·3	814·0	..	19·6	18·7	18·3	21·0	92	..	7·6	..	1·5	0	0	19	2	1	0	5	7	3	1	0	12	0
Gezing	0830	..	..	..	..	20·0	19·5	19·3	22·4	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·5	19·6	19·1	22·1	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data included under 'Nepal,.

†Data not reliable.

‡Data not available.

(a) Meen of 30 days.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 14 stations some observation were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars o these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against th scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′N	91°15′E	17	28th November, 1951	0530		1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530	1130*	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14°14′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530		1730	
21.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
22.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
23.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2333
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47.	Srinagar	34°06′	74°48′	1603	1st August, 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53.	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

* Radio wind ascents.

@ Radiosonde ascents followed by optical theodolite.

† Naval Meteorological Office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	2·0	140	31	2·2	1·8	175	31	2·1	1·7	159	31	2·5	2·0	242	31	3·4	2·8	250	31	2·8	2·4	256
0·15 a. g. .	27	6·4	5·7	145	31	5·7	4·6	179	29	6·5	6·3	167	30	6·6	5·9	252	31	4·0	3·4	245	31	5·6	4·4	254
0·3 a. m. s. l. .	27	7·6	7·0	168	31	6·4	5·5	184	29	7·7	7·2	174	30	6·7	6·0	254	31	4·6	3·9	245	31	5·6	4·8	255
0·6 ,, .	26	7·9	7·1	175	30	7·4	6·7	186	29	7·8	7·3	180	30	8·4	7·7	260	28	6·0	5·0	245	31	5·9	4·7	252
0·9 ,, .	26	7·5	6·3	180	26	7·5	6·7	188	28	8·0	7·2	186	30	8·3	7·4	262	20	6·9	6·3	247	31	6·5	5·2	255
1·5 ,, .	25	6·5	5·2	175	23	8·0	6·5	186	23	6·9	6·1	184	30	7·4	6·1	253	10	8·3	7·9	250	31	7·2	5·6	249
2·1 ,, .	24	5·7	4·1	178	18	8·7	7·4	168	21	5·8	4·9	174	30	5·8	3·4	242	2	3·5	3·5	218	31	6·6	4·2	249
3·0 ,, .	20	5·7	3·3	175	12	7·4	6·0	147	16	5·3	4·0	161	30	5·1	1·0	034	2	4·3	3·9	138	31	5·8	1·3	285
3·6 ,, .	13	4·3	3·2	172	7	5·4	2·8	150	5	3·2	2·1	229	30	5·4	2·5	037	1	1·0	1·0	150	31	5·2	0·9	002
4·5 ,, .	9	3·3	1·9	170	4	7·4	2·3	140	3	2·7	1·2	131	30	5·4	2·4	056					31	5·2	1·6	026
5·4 ,, .	5	2·9	1·7	095	2	4·7	4·2	225	2	2·7	1·9	139	30	5·7	3·6	062					31	5·5	2·0	060
6·0 ,, .	4	3·4	2·7	170	1	3·5	3·5	260					30	6·2	4·1	072					30	5·8	2·2	080
7·2 ,, .													30	6·9	4·3	087					29	6·7	4·3	087
9·0 ,, .													28	8·0	7·1	094					23	7·9	7·0	095

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·8	3·2	243	31	1·2	0·3	032	31	1·6	0·2	130	31	1·5	0·3	027	31	1·5	0·4	086	31	1·8	1·1	126
0·15 a. g. .	28	7·4	6·2	237	31	6·0	1·6	257	29	4·6	0·3	174	31	4·3	0·6	346	29	6·6	1·3	108	30	6·2	3·5	137
0·3 a. m. s. l.	28	7·9	6·7	238	31	6·1	1·7	258	29	5·0	0·2	155	31	4·3	0·6	351	29	6·9	1·6	109	30	3·1	1·6	132
0·6 ,, .	28	8·3	7·2	241	31	7·1	2·0	282	29	6·2	0·5	278	31	5·3	0·6	028	29	8·1	2·4	122	30	7·6	3·9	150
0·9 ,, .	27	7·3	6·3	238	31	7·2	1·5	302	22	6·2	1·4	340	31	5·9	0·6	004	28	7·7	1·6	145	29	7·3	3·1	169
1·5 ,, .	18	5·3	4·3	243	31	6·5	0·8	321	16	6·2	1·3	315	31	6·0	0·4	065	25	6·8	0·9	150	27	6·9	0·4	242
2·1 ,, .	14	3·8	2·7	248	31	6·5	0·4	345	9	6·2	3·0	282	30	6·3	0·5	270	19	6·3	0·8	324	26	7·4	3·1	324
3·0 ,, .	7	3·4	0·6	079	31	6·3	0·3	355	4	3·2	2·7	194	30	6·3	0·3	025	9	3·8	1·5	120	24	6·1	3·5	336
3·6 ,, .	1	1·5	1·5	310	30	5·6	0·8	076	2	5·3	4·1	170	30	5·7	1·0	036	6	4·1	3·4	070	15	5·8	3·6	325
4·5 ,, .					30	5·5	1·3	081	1	2·5	2·5	265	30	6·1	1·0	360	3	2·7	2·0	011	6	3·4	1·8	312
5·4 ,, .					30	5·4	1·9	105	1	3·5	3·5	255	30	6·5	1·1	357	2	3·3	2·3	030	4	5·5	5·0	233
6·0 ,, .					29	5·8	2·1	115					28	6·8	0·8	057	2	5·0	4·0	067	4	5·0	4·6	252
7·2 ,, .					29	6·3	2·5	114					27	5·5	0·9	096								
9·0 ,, .					25	6·9	5·1	091					24	7·0	4·3	087								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	AMBALA												ANANTPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·3	1·2	135	31	2·3	0·4	173	31	2·3	1·1	120	31	2·5	2·4	265	31	4·8	4·0	282	31	4·8	4·4	269
0·15 a. g. .	30	4·6	2·2	120	31	4·7	0·7	165	31	7·4	3·2	098	31	7·7	7·4	256	29	9·8	8·7	270	28	10·2	9·6	263
0·3 a. m. s. l. .	30	3·3	1·5	125	31	3·1	0·4	166	31	3·7	1·3	095												
0·6 ,, .	30	5·0	2·2	132	31	5·5	0·9	168	31	7·8	3·2	110	31	8·9	8·6	257	29	9·1	8·3	266	28	10·8	10·0	265
0·9 ,, .	29	5·1	2·0	126	31	5·5	0·9	199	31	7·4	2·3	123	31	11·6	11·0	273	29	9·2	8·7	270	28	11·7	11·1	273
1·5 ,, .	18	5·5	1·9	308	28	5·1	2·5	278	31	6·5	1·3	223	29	12·8	12·1	286	29	10·9	10·4	273	27	11·9	11·3	282
2·1 ,, .	15	6·9	4·2	328	27	6·1	3·5	307	29	6·3	3·0	280	26	11·3	10·9	285	22	9·6	8·9	280	23	10·4	9·8	287
3·0 ,, .	8	7·4	7·0	322	18	5·6	4·4	334	24	6·5	4·3	328	18	8·0	7·7	290	14	6·5	5·4	295	14	7·5	6·6	295
3·6 ,, .	5	6·2	5·9	311	12	3·6	2·8	306	4	3·4	2·0	005	10	4·3	3·1	274	7	4·0	2·3	299	5	5·3	3·8	266
4·5 ,, .	1	4·5	4·5	280	8	3·8	1·9	303	1	3·5	3·5	015	8	4·1	2·8	269	6	2·6	0·6	248	1	1·0	1·0	015
5·4 ,, .					2·	6·0	3·7	194					6	4·2	1·0	181	5	3·8	2·1	342	1	4·5	4·5	015
6·0 ,, .					2	5·7	4·1	174					4	2·5	0·4	124	5	3·9	1·7	036				
7·2 ,, .					1	6·5	6·5	275					4	3·4	2·6	067	3	3·8	2·8	103				
9·0 ,, .													2	10·7	10·7	081	3	6·0	5·8	081				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·2	0·7	139	31	1·6	1·3	133	31	1·4	1·2	132	31	4·6	4·3	258	31	5·7	5·0	282	31	4·8	4·5	261
0·15 a. g. .	30	4·9	2·7	154	28	5·4	3·9	145	28	6·2	5·0	151	29	8·8	8·3	265	29	7·8	7·0	280	29	8·8	8·3	266
0·3 a. m. s. l. .	30	5·2	2·9	165	28	5·6	4·1	143	28	6·5	5·1	159												
0·6 ,, .	28	6·7	3·6	197	28	7·1	5·0	149	27	7·3	5·9	168												
0·9 ,, .	25	6·9	3·3	218	27	7·0	4·5	154	23	6·4	4·7	174	29	11·0	10·5	271	29	8·7	8·0	284	29	10·8	10·0	278
1·5 ,, .	25	6·6	2·9	202	24	6·5	3·3	171	21	5·9	3·7	177	27	12·8	12·0	277	27	9·5	8·9	283	28	12·3	11·3	277
2·1 ,, .	17	6·0	3·3	183	23	6·3	2·8	177	18	5·1	2·7	187	17	7·2	6·4	283	16	7·2	6·6	272	23	10·0	8·8	273
3·0 ,, .	12	6·0	3·3	183	19	5·4	3·1	141	13	4·1	1·8	192	10	4·5	3·8	268	4	3·7	3·3	227	15	6·1	4·9	272
3·6 ,, .	9	3·9	2·7	222	14	5·6	4·1	126	11	4·6	2·3	199					1	8·5	8·5	335	6	3·8	3·2	308
4·5 ,, .	6	3·7	1·1	239	9	4·3	2·9	123	8	5·9	2·3	182												
5·4 ,, .	2	3·0	1·9	104	7	4·5	3·1	104	3	4·3	3·6	102												
6·0 ,, .	2	3·0	2·0	091	6	4·8	4·4	090	3	5·8	4·7	095												
7·2 ,, .	1	4·5	4·5	115	5	5·4	4·9	076	2	4·5	4·5	130												
9·0 ,, .					1	9·5	9·5	090																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·2	0·9	090	11	1·8	1·7	103	31	1·1	0·7	102	31	3·4	3·1	268	31	4·6	4·3	266	31	4·0	3·4	275
0·15 a. g. .	22	6·5	4·3	102	10	6·4	5·2	110	28	4·7	3·4	109	9	7·4	6·8	272	30	6·5	5·9	267	28	6·7	5·6	272
0·3 a. m. s. l. .	22	7·2	4·5	108	10	6·5	5·3	113	28	5·0	3·5	111												
0·6 ,, .	21	9·1	5·8	117	10	6·7	5·0	115	28	6·6	3·8	120												
0·9 ,, .	21	8·5	5·1	115	6	8·5	5·5	110	27	7·3	4·0	122												
1·5 ,, .	19	6·8	3·3	107	4	8·6	8·1	121	26	7·9	3·2	117	9	9·5	8·9	283	28	8·5	7·9	274	28	8·5	7·8	274
2·1 ,, .	16	6·8	4·0	105	1	9·0	9·0	135	26	8·2	2·1	100	9	9·6	9·1	291	9	9·8	9·4	278	23	8·1	7·3	286
3·0 ,, .	13	6·1	2·5	130	1	6·5	6·5	140	22	7·0	1·5	099	8	7·9	6·8	287	3	7·0	7·0	302	21	7·1	6·3	289
3.6 ,, .	10	6·3	1·5	103					21	6·8	2·1	109	8	7·2	6·0	288	2	4·0	3·3	275	18	6·1	5·0	288
4·5 ,, .	7	5·5	2·7	110					18	5·9	0·6	017	6	6·7	5·3	275					13	5·0	2·4	296
5·4 ,, .	3	2·8	1·5	104					17	6·3	0·1	232	5	4·2	2·1	271					12	4·9	0·4	102
6·0 ,, .	2	3·3	2·4	109					16	6·2	0·3	124	4	2·6	1·2	321					11	4·7	1·1	058
7·2 ,, .	2	4·3	4·2	113					10	4·1	0·8	182	4	4·1	2·5	065					8	4·3	2·4	061
9·0 ,, .	1	9·5	9·5	105					6	7·7	7·0	100	3	7·7	7·5	070					4	5·9	5·7	087

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·5	3·2	267	31	1·7	1·2	074	31	1·9	0·8	097	31	3·8	3·6	272	31	3·8	3·3	275	31	3·5	3·1	255
0.15 a. g. .	19	7·6	6·7	268	30	5·9	2·5	107	29	4·5	1·4	115	25	7·3	6·9	271	30	6·4	4·9	278	26	6·7	5·9	250
0·3 a. m. s. l. .					30	5·5	2·5	103	29	4·3	1·4	111												
0·6 ,, .					26	8·3	2·2	119	29	5·1	2·0	137	25	5·2	5·0	271	30	5·3	4·3	280	26	4·8	4·1	250
0·9 ,, .					23	8·5	0·9	112	28	5·3	1·9	153	25	9·9	9·4	290	30	7·1	6·1	283	26	7·9	6·8	264
1·5 ,, .	18	11·1	10·4	283	19	7·8	2·5	318	27	6·4	0·7	188	24	10·6	10·2	295	29	8·7	8·2	284	24	8·6	7·7	283
2·1 ,, .	15	9·9	8·7	286	19	7·9	2·9	322	21	7·6	2·2	286	23	10·4	9·6	298	28	9·8	9·5	290	24	9·3	8·2	289
3·0 ,, .	12	8·0	7·2	289	13	5·7	1·6	017	15	8·5	1·3	314	21	9·1	7·9	296	24	9·0	8·4	286	16	7·0	6·4	292
3·6 ,, .	8	7·2	5·9	281	6	5·4	1·1	065	8	5·5	1·2	353	16	5·7	3·8	292	17	7·7	6·0	286	10	5·7	4·9	287
4·5 ,, .	3	4·8	4·5	256	1	2·0	2·0	110	4	3·6	1·5	088	13	4·6	2·9	285	6	3·9	2·2	290	1	10·5	10·5	350
5·4 ,, .	2	3·3	1·3	133	1	3·5	3·5	110	3	4·2	1·1	219	8	2·5	0·2	308	3	4·0	2·2	107	1	4·0	4·0	060
6·0 ,, .	2	4·3	2·4	038	1	3·5	3·5	100	3	4·2	1·1	110	6	3·0	1·2	143	2	2·0	1·9	067				
7·2 ,, .									1	8·0	8·0	305	4	6·6	4·7	105								
9·0 ,, .													3	11·5	10·7	072								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1962 (Śravana 10—Bhadra 9, 1884 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I.S.T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	1·0	104	31	2·2	1·1	100	31	3·6	3·1	266	31	4·2	3·2	278	31	3·1	2.3	261	31	1·8	1·1	211
0·15 a. g.	29	6.0	4·3	133	28	5·4	3·2	098	28	8·2	7·1	270	25	5·8	4·3	269	26	8·7	5·8	272	28	5·7	3·6	225
0·3 a. m. s. l.	29	7·1	4·8	145	28	5·9	3·6	105													28	7·2	4·9	223
0·6 ,,	29	7·5	4·5	153	28	6·7	4·2	126	26	6·8	5.8	264	25	5·4	4·2	269	26	7·2	4·8	267	28	7·7	5·1	241
0·9 ,,	27	6·9	3·5	152	27	7·0	4·4	140	25	10·4	8·9	284	25	6·6	4·8	278	25	9·9	6.7	283	28	7·6	4·8	256
1·5 ,,	24	6·4	4·3	132	24	7·0	4·1	154	13	8·7	7·6	289	21	7·6	5·3	283	23	9·4	6·3	285	24	6·3	3·9	262
2·1 ,,	20	6·0	3·6	153	21	5·8	4.4	150	9	6·3	5.0	292	13	6·2	3·5	292	19	6·4	3.9	291	19	4·6	3·1	254
3·0 ,,	19	5·5	3·1	175	18	4·5	3·1	160	4	3·7	1.7	264	4	6·3	1·5	019	6	5·8	3·0	002	13	5·9	3·0	250
3·6 ,,	14	5·1	2·7	160	16	3·8	2·6	172					2	4·5	4·5	025	1	7·5	7·5	350	11	4·2	1·5	265
4·5 ,,	10	3·5	1·7	193	12	3·4	1·5	202													8	2·9	1·3	080
5·4 ,,	8	3·5	2·0	178	12	3·5	1·6	237													6	4·6	3·9	080
6·0 ,,	8	3·4	1·8	158	11	3·4	0·6	220													6	5·7	5·5	085
7·2 ,,	5	4·0	2·5	134	9	4·5	1·4	024													1	11·0	11·0	095
9·0 ,,	2	1·5	1·1	152	3	4·5	2·0	053													1	14·5	14·5	095

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·5	3·3	194	31	3·4	2·6	202	31	3·3	3·0	250	31	6·1	5·5	251	31	4·3	4·0	243	31	1·4	1·4	224
0·15 a. g.	30	7·1	5·7	202	24	7·1	6·3	206	31	6·9	6·4	253	31	10·5	9·7	243	31	7·5	7·2	242	31	9·0	8·3	230
0·3 a. m. s. l.	30	7·3	5·6	210	24	8·6	6·8	213	31	7·9	7·3	254	31	9·9	9·1	247	31	8·5	8·1	244	31	6·6	5·8	227
0·6 ,,	30	6 8	4·7	223	24	8·9	6·9	222	30	10·1	9·5	257	31	9·4	8·5	249	30	9·5	9·0	249	31	11·4	10·1	245
0·9 ,,	27	7·1	4·0	245	22	8·6	5·7	235	26	9·1	8·5	254	28	8·4	7·8	248	28	9·3	8·3	244	30	10·2	8·9	248
1·5 ,,	23	7·5	4·2	265	21	7·5	4·6	254	16	6·8	3·7	239	16	6·8	5·3	245	21	6·5	3·5	205	28	4·4	2·2	269
2·1 ,,	15	5·9	4·0	261	18	6·9	3·8	271	7	5·4	3·5	168	8	5·0	2·0	190	17	5·4	2·9	122	28	4·0	1·6	038
3·0 ,,	10	6·3	5·3	265	13	5·3	3·2	235	5	3·7	3·1	101	4	4·5	4·5	194	13	4·9	3·3	063	25	4·0	3·2	051
3·6 ,,	4	6 6	5·8	249	5	4·6	0·3	295	1	6·0	6·0	075	3	3·3	2·7	212	5	4·3	3·7	081	17	5·2	4·5	049
4·5 ,,	1	4·0	4·0	250	4	4·2	1·4	348					3	2·2	1·9	218	2	3·0	4·9	072	11	6·6	5·8	046
5·4 ,,	1	1·5	1·5	260	2	4·7	4·7	080					2	2·3	1·9	259					8	5·7	4·5	050
6·0 ,,	1	1·5	1·5	300	2	6·0	6·0	080					2	2·0	1·0	275					5	5·4	3·9	030
7·2 ,,	1	5·0	5·0	085	2	7·5	7·5	080					1	4·0	4·0	100					3	6·7	3·9	150
9·0 ,,													1	8·0	8·0	035					1	6·0	6·0	090

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1962 (Sravana 10 –Bhadra 9, 1884 Saka)

Station	BIKANER								BOMBAY/SANTACRUZ															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·4	1·3	220	31	1·3	1·0	210	31	4·1	3·7	274	31	4·5	4·1	266	31	5·3	4·7	270	31	4·1	3·6	25
0·15 a. g. .	31	5·7	4·5	216	30	9·5	7·9	210	31	7·0	6·2	264	28	6·4	5·7	252	31	8·0	7·5	271	30	6·8	6·3	25
0·3 a.m.s.l. .	31	4·8	3·8	214	30	8·2	5·6	202	31	7·1	6·5	262	28	7·2	6·4	251	31	7·7	7·2	270	30	7·1	6·6	25
0·6 ,, .	31	6·2	4·4	212	30	10·4	9·0	220	31	7·8	7·2	261	26	7·8	6·8	258	31	7·7	7·2	269	30	7·7	7·2	25
0·9 ,, .	31	5·9	4·0	216	30	9·3	7·7	225	31	8·0	7·5	263	18	7·8	7·3	263	31	8·5	8·0	271	21	7·6	7·2	26
1·5 ,, .	31	5·2	2·1	238	29	6·8	4·1	242	31	8·5	7·9	261	8	8·3	7·8	254	31	8·4	8·0	267	13	7·6	6·8	26
2·1 ,, .	31	4·7	1·7	244	25	5·0	0·5	330	31	7·2	6·3	266	3	6·5	5·7	217	31	8·6	8·0	262	10	5·9	4·8	27
3·0 ,, .	27	5·6	3·8	015	16	5·2	3·5	015	31	6·7	5·7	268					31	7·5	6·6	260	6	5·3	4·4	26
3·6 ,, .	23	5·8	3·9	012	8	6·1	3·7	035	31	5·8	4·2	278					31	6·9	5·1	266	4	4·1	1·4	26
4·5 ,, .	22	5·5	3·3	015	1	6·0	6·0	055	31	4·2	1·5	324					31	5·8	2·5	268	3	3·5	0·8	17
5·4 ,, .	14	5·7	2·1	306					30	4·9	1·9	030					31	5·3	0·9	312				
6·0 ,, .	11	6·6	1·6	285					30	5·1	2·5	055					31	5·3	0·7	049				
7·2 ,, .	3	6·2	5·6	280					30	5·9	4·4	069					30	6·3	4·2	081				
9·0 ,, .									19	9·8	8·8	086					23	10·4	9·5	085				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	1·3	176	31	2·7	1·8	162	30	2·2	1·6	170	30	2·1	1·6	170	31	1·1	0·3	008	31	3·2	2·8	300
1·15 a. g. .	31	5·2	3·8	175	30	4·7	3·8	172	30	5·5	4·4	174	30	6·5	5·3	183	26	3·5	0·9	331	27	4·5	4·0	303
0·3 a.m.s.l. .	31	5·8	4·4	182	30	5·4	0·8	176	30	6·0	4·9	174	30	7·7	6·7	192	26	4·5	2·8	301	27	6·1	5·7	301
0·6 ,, .	31	6·5	4·8	191	29	5·7	3·8	174	30	6·6	5·5	173	30	8·2	7·2	194	26	7·7	6·8	295	27	8·6	8·2	300
0·9 ,, .	31	6·4	4·3	189	22	6·0	4·2	184	30	6·6	5·3	177	28	7·3	6·4	192	26	9·7	9·0	296	24	10·0	9·6	304
1·5 ,, .	31	5·5	3·2	186	14	5·7	4·0	193	30	6·4	4·8	211	25	5·7	4·7	202	24	10·4	10·1	295	22	10·1	9·6	307
2·1 ,, .	31	5·6	3·1	177	7	4·4	3·0	134	30	6·8	4·2	180	20	4·9	3·7	168	16	10·4	9·8	292	18	10·5	10·1	305
3·0 ,, .	31	6·1	3·1	168	4	4·6	4·0	128	30	6·1	2·9	169	15	4·9	3·8	157	7	8·2	7·4	296	10	10·9	10·3	300
3·6 ,, .	31	6·1	3·2	168	1	5·5	5·5	200	30	6·1	3·1	156	4	4·1	2·6	145	1	10·0	10·0	295	5	10·9	10·6	307
4·5 ,, .	30	6·3	3·8	150	1	8·5	8·5	100	30	5·9	3·5	135	1	5·5	5·5	140					1	5·5	5·5	305
5·4 ,, .	30	6·7	4·2	136					30	6·4	3·5	120												
6·0 ,, .	30	6·9	3·8	134					29	6·4	4·3	114												
7·2 ,, .	30	7·3	5·3	108					28	6·4	5·5	092												
9·0 ,, .	29	9·6	8·8	092					26	8·7	7·4	090												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1962 (Śravana 10—Bhadra 9, 1884 Saka)

Station	COCHIN/WILLINGDON†				DARJEELING								DEHRADUN								DIBRUGARH/MOHANBARI			
Time in I.S.T.	2330				0530				1730				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·9	315	31	Calm			31	Calm			31	0·5	0·2	024	31	0·6	0·2	209	31	0·4	0·2	086
0·15 a.g.	27	4·0	3·0	317					1	5·0	5·0	115	28	2·1	0·7	074	28	2·2	0·7	216	19	2·2	0·5	100
0·3 a.m.s.l.	27	5·1	4·4	313	No Ascents																19	2·3	0·5	118
0·6 ,,	27	8·1	7·6	303	Due to																19	3·1	0·8	187
0·9 ,,	26	10·1	9·6	300	Fog/Rain								28	1·9	0·6	127	28	2·2	1·1	231	17	4·2	1·0	191
1·5 ,,	20	11·2	11·1	305									22	2·9	1·0	194	26	3·4	2·3	251	12	4·3	1·4	177
2·1 ,,	14	10·7	10·1	299									15	6·5	1·4	240	22	3·9	2·7	274	8	2·6	1·1	138
3·0 ,,	5	10·5	9·9	288					1	5·0	5·0	085	8	4·9	2·8	311	10	2·6	1·5	300	6	3·7	2·9	195
3·6 ,,									1	8·5	8·5	085	4	3·1	0·6	002	6	2·8	0·8	303	2	6·3	5·3	223
4·5 ,,													2	4·3	3·7	245	5	2·6	1·2	358				
5·4 ,,													1	4·5	4·5	165	2	1·5	1·3	002				
6·0 ,,													1	8·0	8·0	205	2	2·7	2·5	305				
7·2 ,,																	1	8·0	8·0	280				
9·0 ,,																								

Station	DIBRUGARH/MOHANBARI												GADAG											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	N	V	v	D	n	V	v	D
Surface	31	0·8	0·1	031	31	0·6	0·1	020	31	0·6	0·4	078	31	3·8	3·5	249	31	5·3	4·9	257	31	4·9	4·4	256
0·15 a.g.	26	2·9	0·9	042	27	2·1	1·2	033	24	3·2	1·2	057	30	9·0	8·8	257	31	10·5	10·2	255	29	9·8	9·4	256
0·3 a.m.s.l.	26	2·9	0·9	038	27	2·2	1·4	043	24	3·2	1·2	075												
0·6 ,,	25	2·5	0·2	302	27	2·0	0·9	076	24	2·6	1·5	080												
0·9 ,,	25	3·9	0·9	213	26	2·7	0·6	104	24	2·7	1·7	090	30	10·5	10·0	272	31	10·9	10·6	260	28	11·2	10·7	269
1·5 ,,	20	3·5	2·3	212	25	3·3	2·2	206	21	2·6	0·5	271	15	10·9	10·0	301	20	10·7	10·3	273	18	11·1	10·0	290
2·1 ,,	13	5·3	3·3	204	23	4·4	3·8	208	21	3·1	1·9	200	12	6·7	6·2	300	9	7·5	6·8	286	12	8·3	6·5	295
3·0 ,,	9	4·7	3·2	220	19	4·2	3·5	221	13	3·4	2·5	199	7	6·2	5·9	294	2	4·3	3·9	297	7	3·8	2·1	261
3·6 ,,	4	4·0	2·9	188	10	3·2	3·0	227	4	5·4	4·4	203	6	2·7	2·5	291	2	2·7	2·7	330	3	3·2	2·2	270
4·5 ,,	3	4·7	3·3	182	4	3·6	3·2	241	1	6·0	6·0	215	4	2·5	1·8	272	1	2·0	2·0	235	1	3·0	3·0	045
5·4 ,,	1	5·5	5·5	185	3	4·3	3·7	264					2	2·3	2·2	143	1	2·0	2·0	045				
6·0 ,,	1	4·5	4·5	180	2	4·7	4·6	272					2	1·7	1·7	099								
7·2 ,,					1	4·0	4·0	270					1	6·5	6·5	065								
9·0 ,,													1	8·0	8·0	090								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·1	200	31	1·8	1·1	343	31	0·9	0·2	231	30	1·0	0·1	152	31	1·8	0·5	134	31	3·1	1·4	09
0·15 a.g.	29	2·2	0·3	111	27	2·9	1·8	002	31	2·7	0·5	235	26	2·0	0·6	303	28	5·3	2·5	141	26	5·5	3·2	09
0·3 a.m.s.l.	29	2·5	0·2	135	27	3·2	1·6	010	31	2·9	0·6	261	26	2·1	0·3	310	28	5·8	2·6	152	26	5·8	3·3	09
0·6 ,,	29	3·7	0·7	256	26	3·3	0·9	001	31	3·7	1·5	270	26	3·4	1·1	292	27	6·6	2·6	186	26	6·1	3·2	10
0·9 ,,	29	4·3	1·4	248	24	3·4	0·5	233	31	4·5	2·0	256	23	4·3	1·5	239	25	6·7	2·5	207	25	6·5	3·6	11
1·5 ,,	29	4·8	2·5	231	20	4·6	2·4	211	31	5·2	3·1	233	20	4·6	3·3	225	21	5·9	1·8	160	22	6·4	3·5	14
2·1 ,,	28	4·8	2·8	226	15	4·8	3·1	211	30	4·9	3·2	225	17	4·5	3·3	217	17	6·1	2·6	127	15	6·7	3·6	14
3·0 ,,	27	4·7	2·8	228	13	5·6	4·5	215	29	4·6	2·6	226	11	4·6	3·3	207	12	4·9	2·1	151	3	3·8	3·4	12
3·6 ,,	27	4·6	3·0	232	8	4·4	3·1	213	25	5·2	3·0	228	6	4·4	3·7	215	7	4·6	3·4	140	3	4·3	3·9	14
4·5 ,,	25	4·6	3·4	225	7	3·8	2·3	195	25	4·5	3·5	230	1	5·0	5·0	270	4	4·9	3·2	121	1	10·0	10·0	16
5·4 ,,	24	4·3	2·6	198	5	3·9	2·0	208	23	4·3	3·1	243					2	5·0	4·3	114		·		
6·0 ,,	23	3·5	1·9	189	4	3·1	2·8	232	23	3·7	1·7	218					1	2·0	2·0	120		·		
7·2 ,,	20	3·7	1·3	116	4	4·1	3·0	174	23	3·8	1·2	228										·		
9·0 ,,	13	4·1	3·0	096	2	2·7	2·0	155	14	3·5	1·1	275										·		

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·2	1·1	105	31	2·3	2·0	212	31	4·6	4·2	202	31	3·6	3·1	206	31	1·0	0·6	073	31	0·9	0·6	10
0·15 a. g.	27	6·1	3·7	127	27	6·6	5·7	220	27	9·2	8·7	200	26	7·3	6·3	215	22	6·0	4·7	087	30	4·4	2·8	09
0·3 a.m.s.l.	27	6·2	3·8	129	27	6·3	5·5	232	27	8·8	8·1	206	26	7·6	6·8	218	22	7·3	5·6	097	30	4·9	3·4	09
0·6 ,,	27	7·5	4·1	145	25	6·6	5·0	246	27	7·2	6·1	214	27	7·4	6·2	223	20	8·5	6·7	109	29	6·1	3·8	10
0·9 ,,	26	7·3	4·4	163	25	6·6	4·9	263	27	6·4	4·8	229	26	6·9	5·2	240	19	7·9	5·9	113	28	6·6	4·5	11
1·5 ,,	26	6·7	3·3	166	25	6·6	5·3	277	25	7·2	4·4	255	21	6·6	5·3	277	18	7·9	5·5	105	25	7·3	4·2	11
2·1 ,,	17	6·2	2·4	155	23	5·8	4·7	273	21	6·5	4·9	266	16	5·4	4·2	273	15	7·6	5·5	107	23	6·3	2·6	11
3·0 ,,	6	3·5	2·3	152	14	4·4	3·1	244	12	4·3	2·7	258	8	4·9	3·1	253	10	8·5	4·1	102	18	5·5	2·4	11
3·6 ,,					11	3·4	1·7	217	11	3·9	2·0	265	2	4·7	4·3	270	6	5·7	3·4	127	16	5·4	2·1	11
4·5 ,,					7	3·6	2·3	119	8	3·0	0·8	207	-				4	3·6	0·5	211	11	4·7	0·9	16
5·4 ,,					7	5·1	4·5	106	6	3·7	1·6	110					4	3·1	0·5	334	8	3·9	1·3	09
6·0 ,,					5	7·2	7·0	084	5	4·4	3·2	092					3	3·5	0·9	163	5	2·9	2·1	12
7·2 ,,					3	9·2	9·2	090	4	8·2	8·0	082					2	1·0	0·9	188	3	3·8	2·9	08
9·0 ,,					2	15·7	15·7	085	3	13·7	13·7	085					1	2·0	2·0	020		·		

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	1·8	277	31	2·8	1·5	281	31	2·3	0·9	287	31	1·9	0·8	230	31	0·9	0·2	083	31	1·1	0·7	170
0·15 a.g.	30	6·8	4·0	279	31	5·2	2·5	282	30	4·9	1·9	290	31	5·8	2·2	235	26	2·3	0·3	119	28	1·9	1·4	175
0·3 a.m.s.l.	30	5·3	3·1	202	31	5·0	2·5	282	30	4·4	1·8	290	31	4·7	1·9	230								
0·6 ,,	29	9·1	5·5	296	31	5·8	2·7	298	30	5·6	2·2	291	31	7·6	2·1	255								
0·9 ,,	26	8·5	5·2	301	28	6·4	3·1	325	30	6·1	2·2	298	31	7·0	1·6	279	26	2·1	0·4	059	28	1·9	1·4	174
1·5 ,,	20	5·9	4·0	318	21	6·8	3·4	005	29	6·0	1·9	335	30	5·7	1·3	332	25	3·8	1·8	214	26	3·1	1·5	188
2·1 ,,	18	6·1	3·2	349	17	5·0	2·6	022	25	5·6	1·9	001	26	6·0	2·0	357	14	5·6	3·0	228	16	4·0	1·6	180
3·0 ,,	13	6·3	3·4	349	11	4·6	2·8	358	18	5·6	3·3	356	22	5·6	3·4	020	4	5·7	4·8	193	7	2·5	1·5	230
3·6 ,,	9	5·1	4·1	340	9	5·4	3·5	014	17	5·9	3·3	346	11	4·1	2·7	045	4	4·7	3·5	177	5	2·5	1·2	232
4·5 ,,	6	4·7	3·6	331	5	3·1	1·5	344	12	6·4	3·0	335	1	5·0	5·0	070	2	4·7	3·7	148	3	1·7	1·2	196
5·4 ,,	6	4·2	0·9	225	3	3·5	2·5	312	10	5·8	2·3	330					1	4·0	4·0	175	2	2·7	1·8	146
6·0 ,,	6	4·3	0·7	128	3	3·2	1·5	325	8	5·8	3·2	234					1	5·0	5·0	160	2	2·3	1·4	136
7·2 ,,	5	4·2	3·8	114	2	4·7	3·3	030	6	5·9	2·7	040												
9·0 ,,	3	3·5	3·1	103	1	6·5	6·5	350	2	5·0	2·7	096												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2230				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	0·8	196	31	1·2	0·1	085	31	0·8	0·6	241	31	1·2	0·8	262	31	0·8	0·6	237	31	1·2	1·1	223
1·15 a.g.	29	3·2	1·3	204	28	2·8	0·5	093	27	6·9	5·0	249	28	5·1	3·6	272	28	6·9	4·6	244	23	5·6	5·0	223
0·3 a.m.s.l.																								
0·6 ,,									27	7·8	5·6	259	27	5·5	3·7	275	28	7·5	5·2	250	23	2·9	2·6	217
0·9 ,,	29	3·0	1·1	204	28	2·7	0·5	056	23	10·3	7·4	282	27	7·1	4·6	274	27	8·4	5·6	266	22	7·9	6·8	245
1·5 ,,	28	3·8	1·9	189	28	4·5	2·3	183	17	10·2	6·6	293	22	7·3	4·5	300	23	8·5	5·3	283	16	9·3	7·7	273
2·1 ,,	25	5·0	2·2	213	19	5·4	3·1	176	11	7·5	4·7	302	16	6·8	3·7	300	19	7·1	3·6	270	11	8·6	6·6	282
3·0 ,,	14	4·4	2·1	197	8	4·1	3·1	176	8	5·1	2·1	032	9	5·9	1·2	056	11	5·0	2·1	300	8	5·4	3·7	290
3·6 ,,	7	4·9	3·1	166	4	4·1	3·8	155	6	5·7	1·3	058	5	6·2	2·0	161	7	5·2	2·6	040	8	4·0	2·1	304
4·5 ,,	3	3·3	3·1	124	1	9·0	9·0	155	1	6·0	6·0	320	4	4·3	2·4	123	2	1·7	1·7	120	4	3·7	0·7	004
5·4 ,,	2	2·5	2·5	076	1	3·0	3·0	130					2	5·0	3·1	096					3	4·7	2·3	049
6·0 ,,													2	5·5	4·0	107					3	3·3	1·7	102
7·2 ,,																					2	6·5	6·5	100
9·0 ,,																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER.												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·5	236	31	1·5	1·3	212	31	1·7	0·6	275	31	2·0	0·4	142	31	2·2	1·2	310	31	1·4	0·5	126
0·15 a.g.	25	5·5	4·3	246	27	5·4	4·6	227	31	7·1	0·4	256	28	5·1	1·1	242	31	8·0	5·0	285	28	4·0	1·4	176
0·3 a.m.s.l.																					28	4·1	1·7	189
0·6 ,,	25	3·7	2·7	243	27	3·5	2·9	218	31	7·6	4·4	255	28	7·0	1·5	252	31	8·7	5·6	285	28	6·0	3·1	226
0·9 ,,	25	6·3	5·1	254	27	6·5	5·5	244	31	8·8	4·6	256	29	4·7	1·9	269	31	10·5	6·9	285	22	6·2	3·7	248
1·5 ,,	22	6·2	5·3	277	23	7·1	5·7	273	31	6·9	3·2	287	28	5·3	1·1	315	28	7·6	4·4	302	15	5·5	1·5	244
2·1 ,,	15	5·4	4·3	276	17	7·2	6·3	294	29	5·7	2·0	357	24	5·0	2·9	351	20	5·2	1·7	015	11	4·9	2·0	178
3·0 ,,	9	5·9	3·8	263	10	4·7	4·0	280	21	6·2	4·2	015	16	5·5	4·0	351	18	5·9	3·4	042	11	4·0	1·6	163
3·6 ,,	7	4·3	3·1	222	7	3·2	1·5	282	18	6·2	4·8	032	12	5·6	3·2	360	12	5·2	3·1	012	9	4·3	1·9	166
4·5 ,,	4	5·0	3·9	192	4	2·9	1·9	178	4	5·0	3·1	066	11	5·7	3·3	006	1	5·0	5·0	015	6	3·4	2·2	159
5·4 ,,	1	5·5	5·5	170	3	2·8	2·4	132	1	4·5	4·5	075	9	6·5	3·5	346					5	3·5	3·1	126
6·0 ,,	1	4·0	4·0	130	2	5·7	5·2	111					7	5·9	2·7	335					4	4·6	4·3	106
7·2 ,,													4	5·0	3·2	090					1	3·0	3·0	115
9·0 ,,													1	4·0	4·0	080								

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	1·0	138	31	1·8	1·2	192	31	2·1	1·3	208	31	2·1	1·5	190	30	2·2	2·1	233	31	2·7	2·4	229
0·15 a.g.	28	4·8	2·4	141	24	4·9	3·3	200	28	4·9	2·8	215	24	5·5	3·9	210	30	6·9	4·9	245	31	6·3	5·3	227
0·3 a.m.s.l.	28	4·9	2·6	150	24	3·7	2·0	202	28	4·4	2·6	206	24	4·4	3·2	203	30	3·7	2·8	240	31	5·4	4·5	231
0·6 ,,	28	5·8	2·8	155	23	6·8	4·5	240	28	5·8	3·2	226	24	7·1	4·7	228	30	6·7	5·5	240	31	6·1	5·0	226
0·9 ,,	26	6·1	2·7	152	21	7·0	5·0	252	24	6·5	3·3	325	23	6·7	4·5	251	30	7·0	6·2	234	30	6·0	4·1	232
1·5 ,,	19	5·7	3·1	216	12	6·5	4·8	252	20	6·4	2·5	240	15	6·7	5·3	268	30	6·3	4·0	216	22	5·2	2·8	156
2·1 ,,	12	5·1	2·9	232	9	6·4	5·0	254	15	5·5	3·2	255	8	6·7	5·5	271	30	5·3	1.6	168	17	5·1	3·0	110
3·0 ,,	6	4·3	2·1	202	8	5·1	3·6	255	13	4·9	1·0	155	2	7·5	7·5	252	28	5·0	3·2	056	14	5·4	3·1	095
3·6 ,,	4·	3·7	0·7	206	2	5·5	3·3	224	7	3·1	1·1	155					27	5·4	3·0	050	13	4·3	2·0	086
4·5 ,,	1	5·5	5·5	265	1	6·5	6·5	270	1	1·5	1·5	260					25	4·5	2·8	053	10	4·7	2·8	079
5·4 ,,																	24	5·1	3·5	059	6	4·7	2·6	136
6·0 ,,																	23	6·0	3·5	074	6	5·3	3·7	092
7·2 ,,																	23	6·8	3·6	084	5	6·2	3·0	091
9·0 ,,																	13	7·0	3·3	029	3	9·0	5·3	073

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	3·1	2·5	226	31	1·7	1·7	215	31	2·6	0·9	088	31	2·6	0·7	117	31	2·2	0·7	131	31	2·5	2·1	258
0·15 a.g.	28	5·7	3·7	224	31	7·8	7·1	213	28	5·8	1·7	112	28	4·7	1·3	113	29	7·0	2·8	111	31	7·4	6·5	254
0·3 a.m.s.l.	28	4·1	3·0	221	31	6·6	6·0	208	28	6·2	2·2	114	28	4·9	1·7	107	29	7·3	3·2	117	31	8·1	7·4	258
0·6 ,,	28	5·3	3·5	217	31	8·7	8·1	220	28	8·6	1·9	122	28	5·5	1·7	115	29	9·1	4·0	128	31	9·3	8·7	267
0·9 ,,	28	5·1	4·0	215	31	8·7	7·7	227	23	8·7	0·8	163	27	6·2	1·5	116	27	9·3	3·6	131	31	9·4	9·0	276
1·5 ,,	28	4·5	3·4	219	29	6·5	4·2	224	18	7·6	1·2	262	25	6·0	1·3	120	26	6·6	1·4	134	30	9·8	8·5	290
2·1 ,,	28	3·8	0·4	265	24	5·2	2·3	109	16	7·2	0·9	074	20	7·0	6·0	174	21	6·3	0·5	332	30	8·6	7·4	289
3·0 ,,	28	4·5	1·8	021	20	6·4	5·7	067	12	6·3	1·9	005	16	6·0	0·5	350	7	4·6	1·7	290	30	8·3	6·7	276
3·6 ,,	27	4·6	2·5	001	8	5·9	4·5	066	7	5·1	1·7	349	8	3·6	1·3	125	4	4·0	1·9	272	30	7·7	6·5	264
4·5 ,,	25	5·0	3·0	356	7	8·7	3·3	017	3	3·5	2·3	319	4	4·8	1·3	260	1	4·0	4·0	290	30	7·3	5·8	265
5·4 ,,	25	5·5	2·5	001	4	5·5	3·5	343	3	2·8	2·2	316	3	2·8	2·0	270					30	7·1	3·5	262
6·0 ,,	24	6·4	2·0	012	4	6·4	3·7	341	3	2·7	1·5	346	2	2·5	2·5	282					30	6·1	1·9	269
7·2 ,,	24	6·1	2·0	070	3	4·2	3·8	021	3	3·0	2·5	042	1	2·5	2·5	195					30	5·5	0·9	100
9·0 ,,	14	6·8	1·6	090	1	7·5	7·5	090	1	0·5	0·5	225	1	5·5	5·5	035					28	8·8	7·3	087

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·1	3·6	259	31	2·6	1·2	197	31	3·1	2·3	213	31	2·0	0·7	277	31	4·0	3·3	286	31	2·7	1·5	288
0·15 a.g.	30	5·7	5·2	264	30	4·8	1·2	171	30	6·5	4·6	218	23	5·7	3·5	288	26	7·1	6·4	282	20	7·0	5·6	299
0·3 a.m.s.l.	30	5·9	5·5	264	30	5·0	1·7	213	30	7·4	5·3	230	23	6·2	4·5	288	26	7·5	6·7	283	20	7·5	6·0	297
0·6 ,,	30	6·7	6·0	268	30	5·3	3·7	242	30	8·2	6·1	247	22	8·2	6·9	290	24	9·0	8·4	292	20	9·4	8·1	298
0·9 ,,	30	7·6	7·0	279	30	5·7	4·6	260	30	8·5	7·0	260	18	9·7	8·9	293	18	8·3	7·6	298	16	9·5	8·6	302
1·5 ,,	29	9·1	8·5	291	30	7·7	6·5	272	29	8·6	7·5	278	15	11·1	10·7	294	14	7·0	6·2	301	13	9·7	9·1	303
2·1 ,,	28	8·3	7·3	289	30	8·7	7·8	278	29	8·4	7·4	285	10	8·7	8·2	301	10	6·5	5·9	304	11	7·7	7·3	300
3·0 ,,	24	7·0	6·0	271	31	8·9	7·7	275	21	7·6	6·5	291	7	6·1	4·7	305	3	9·3	9·3	275	8	5·9	5·5	317
3·6 ,,	21	7·0	6·2	261	31	7·9	6·5	269	11	6·9	5·5	288	4	3·4	2·1	010	2	6·5	6·4	248	6	5·2	4·8	307
4·5 ,,	16	6·1	4·9	267	31	7·5	5·7	267	5	5·5	2·8	242	4	3·7	2·8	003	1	1·5	1·5	215	2	5·7	3·0	008
5·4 ,,	12	3·8	2·1	256	31	6·4	3·7	266	4	4·4	3·1	099	4	4·6	3·3	010	1	2·0	2·0	185	1	4·0	4·0	025
6·0 ,,	11	4·0	1·4	189	31	5·8	2·5	262	3	4·8	4·8	095	4	5·4	3·6	023	1	2·5	2·5	100	1	2·5	2·5	040
7·2 ,,	7	5·6	5·0	086	31	4·6	1·2	076					2	6·0	5·4	087	1	4·5	4·5	055				
9·0 ,,	5	8·7	8·4	088	28	7·1	5·4	078					1	10·0	10·0	080								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	MINICOY												NAGPUR/SONEGAON											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·5	3·2	280	31	4·3	4·0	287	31	4·5	4·1	282	31	1·5	1·2	260	31	4·4	3·7	284	31	3·6	2·9	300
0·15 a.g. .	31	6·6	5·8	288	30	7·9	7·3	289	29	6·7	6·3	285	31	6·8	5·8	275	29	6·3	5·0	278	31	6·4	4·8	281
0·3 a. m. s.l. .	31	7·1	6·4	288	30	8·1	7·5	287	29	7·1	6·6	285												
0·6 ,, .	31	8·5	7·9	289	30	9·2	8·5	288	29	8·1	7·6	288	31	7·6	6·8	279	29	5·9	4·8	283	31	6·7	5·4	281
0·9 ,, .	31	9·3	8·7	290	30	10·3	9·7	291	29	8·8	8·4	291	31	8·7	7·4	287	25	6·9	5·5	295	31	7·1	5·6	286
1·5 ,, .	30	10·0	9·3	292	28	11·4	10·9	294	28	9·5	9·1	293	31	9·0	7·1	292	17	8·1	7·2	303	31	6·7	5·5	294
2·1 ,, .	26	9·5	8·7	289	22	10·4	9·8	295	24	9·4	9·0	293	31	6·8	5·2	295	5	4·9	3·7	272	31	5·6	4·4	296
3·0 ,, .	20	10·1	9·5	280	17	9·6	8·4	289	16	6·9	6·6	290	31	5·5	2·7	306	2	2·7	1·8	247	31	5·4	3·6	302
3·6 ,, .	15	8·2	7·9	283	13	8·3	7·5	290	9	4·8	4·2	317	31	5·1	1·5	327	2	2·3	1·6	358	31	5·4	3·2	325
4·5 ,, .	11	8·2	6·4	285	7	6·6	5·6	308	3	3·8	1·1	330	30	4·6	2·4	048	1	4·0	4·0	025	31	5·4	2·1	006
5·4 ,, .	8	8·8	4·4	289	5	4·6	2·9	308	1	4·0	4·0	035	30	4·9	2·9	071	1	4·0	4·0	070	31	5·1	2·1	048
6·0 ,, .	6	8·7	3·2	310	3	5·7	1·3	089					29	5·3	3·5	082	1	3·0	3·0	100	30	6·3	5·4	083
7·2 ,, .	5	6·8	4·2	080	2	4·7	4·7	066					28	6·9	6·0	094					29	10·2	9·7	092
9·0 ,, .	1	9·0	9·0	080	2	8·0	7·7	072					28	9·4	8·6	090					29	14·2	14·0	094

Station	NAGPUR/ SONEGAON				NEW DELHI/SAFDARJUNG																POONA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·7	1·2	178	31	2·7	1·2	253	31	3·2	1·3	282	31	2·5	0·7	076	31	2·1	0·6	150	31	0·6	0·6	262
0·15 a.g. .	29	6·3	4·1	284	30	7·9	2·7	251	31	5·3	1·1	279	31	6·9	2·1	098	31	7·2	2·7	189	29	5·9	5·8	258
0·3 a.m. s.l. .					30	5·1	1·7	255	31	5·1	1·0	281	31	2·9	0·7	075	31	5·6	2·0	180				
0·6 ,, .	29	7·1	5·0	291	30	9·7	3·2	255	31	5·5	1·9	295	31	7·0	1·7	088	31	8·5	3·1	188	29	2·6	2·6	260
0·9 ,, .	28	8·1	5·7	298	30	10·3	3·6	265	30	6·0	1·6	304	31	6·8	1·0	094	20	8·5	3·0	199	29	7·7	7·4	264
1·5 ,, .	26	7·6	6·3	299	30	7·7	1·9	228	23	7·2	2·5	314	31	5·6	0·4	345	27	7·1	0·9	226	17	10·3	10·0	277
2·1 ,, .	20	6·9	5·1	293	30	5·6	2·3	341	13	7·6	4·1	330	31	5·4	2·5	321	22	7·1	1·6	357	7	8·1	7·5	280
3·0 ,, .	12	4·7	3·0	298	30	5·6	3·5	358	10	5·5	3·9	333	31	6·9	4·3	329	12	5·4	1·1	003	3	7·0	6·7	285
3·6 ,, .	7	4·9	3·1	324	28	5·5	3·1	003	7	5·5	4·2	326	30	6·5	4·3	331	2	4·3	0·6	002	3	4·5	4·3	287
4·5 ,, .					28	4·4	2·2	337	4	7·1	5·3	320	30	7·1	5·2	337					2	2·0	2·0	297
5·4 ,, .					30	4·8	0·6	327					28	6·6	4·3	331					1	1·0	1·0	360
6·0 ,, .					30	5·2	0·3	196					28	6·0	3·0	330					1	3·5	3·5	005
7·2 ,, .					29	6·0	0·6	355					29	5·9	2·0	293					1	3·0	3·0	110
9·0 ,, .					29	6·6	1·5	135					30	7·9	1·6	306								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	POONA								PORT BLAIR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	2·2	265	31	1·1	1·0	255	31	3·5	3·3	227	31	5·6	4·9	230	31	4·1	3·7	229	31	3·0	2·8	224
0·15 a.g.	30	7·3	7·1	266	31	6·5	6·4	260	29	8·0	7·2	240	28	7·7	6·8	234	31	7·8	7·1	242	28	6·6	6·1	233
0.3a.m.s.l.									29	9·1	7·5	238	28	7·7	6·8	234	31	7·8	7·1	242	28	7·3	6·7	234
0·6 ,,	30	4·4	4·3	271	31	3·2	3·1	260	29	10·0	9·5	239	28	8·8	7·9	236	31	9·4	8·8	249	27	8·5	7·9	239
0·9 ,,	30	8·1	7·9	270	31	8·1	7·9	264	29	10·0	9·4	244	19	7·8	6·9	236	30	9·6	8·8	250	23	7·6	6·8	243
1·5 ,,	19	9·4	9·1	273	23	10·8	10·4	272	29	9·7	9·0	250	9	5·9	3·7	252	29	9·2	8·3	252	18	5·6	4·9	242
2·1 ,,	13	9·4	8·9	274	16	8·0	7·5	273	29	8·6	8·0	250	7	5·1	2·9	267	29	7·9	6·7	255	10	4·5	3·3	235
3·0 ,,	6	5·3	5·0	268	11	4·0	3·2	267	29	7·6	6·1	260	3	3·8	1·1	232	28	7·2	5·7	248	8	3·4	1·7	294
3·6 ,,	4	3·7	2·0	258	10	3·5	1·5	269	29	8·4	5·4	255	2	4·7	4·2	241	29	7·4	5·3	250	4	4·0	2·1	295
4·5 ,,	3	2·3	1·5	190	4	2·7	1·0	071	29	8·9	5·0	257	1	1·0	1·0	275	28	7·0	3·3	266	1	1·0	1·0	020
5·4 ,,	2	6·0	5·1	053	2	6·0	6·0	103	29	8·3	3·5	249	1	2·0	2·0	315	28	6·6	2·4	259				
6·0 ,,	2	7·5	7·5	088	2	7·5	7·5	106	29	8·4	3·5	236	1	2·5	2·5	005	27	5·8	0·4	232				
7·2 ,,	1	6·0	6·0	075	2	8·7	8·7	088	29	6·7	1·3	190	1	5·0	5·0	045	25	5·7	3·2	100				
9·0 ,,	1	8·0	8·0	065					23	8·4	6·6	087					21	9·9	7·2	079				

Station	RAIPUR												RAXAUL								SILIGURI/ BAGHDOGRA			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	1·7	221	31	2·5	1·7	212	31	2·2	1·7	220	31	1·3	1·2	080	31	1·3	1·0	093	31	2·6	2·0	065
0·15 a.g.	29	6·8	5·6	231	30	6·5	4·7	254	25	6·9	5·2	238	25	7·0	6·7	089	30	5·1	3·8	105	18	5·4	5·2	073
0·3 a.m.s.l.													25	7·7	7·5	097	30	5·3	4·1	107	18	5·4	5·3	082
0·6 ,,	29	8·0	6·0	260	30	6·9	5·0	258	25	7·4	5·6	254	25	8·8	8·7	108	29	5·7	4·8	109	18	5·6	5·4	093
0·9 ,,	27	8·3	5·9	275	27	6·9	4·9	267	24	7·5	5·1	268	24	8·5	8·3	111	29	6·0	5·1	111	13	5·7	5·7	086
1·5 ,,	21	7·2	4·9	291	23	7·1	4·4	282	22	6·5	4·5	274	21	8·0	7·5	106	27	6·4	5·3	116	9	5·1	4·9	090
2·1 ,,	15	5·3	2·9	285	18	6·4	4·3	300	19	6·2	4·1	268	16	7·0	5·9	099	23	6·3	4·3	120	8	3·8	3·6	101
3·0 ,,	11	5·0	1·9	279	10	4·1	0·4	057	13	4·0	2·2	250	11	5·4	4·3	100	17	4·9	2·8	123	7	3·8	2·5	121
3·6 ,,	7	5·0	0·7	356	7	3·7	0·9	179	5	2·9	1·8	227	8	5·6	3·7	104	15	4·6	1·3	130	5	5·2	1·9	207
4·5 ,,	3	3·2	2·6	150	4	3·5	1·9	123	1	4·0	4·0	180	4	4·1	2·6	137	12	4·4	1·1	142	4	3·4	2·9	199
5·4 ,,	1	6·0	6·0	115	1	6·0	6·0	095	1	3·0	3·0	200	3	2·3	0·7	143	10	3·4	0·8	151	1	5·5	5·5	250
6·0 ,,	1	7·0	7·0	105	1	3·0	3·0	100					2	3·7	3·0	065	7	3·1	1·4	131	1	4·5	4·5	250
7·2 ,,	1	7·0	7·0	095	1	6·0	6·0	075					1	6·0	6·0	100	1	7·0	7·0	110	1	7·5	7·5	240
9·0 ,,					1	11·0	11·0	070																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	SILIGURI/BAGHDOGRA								SRINAGAR								TIRUCHCHIRAPPALLI							
Time in I.S.T.	1730				2330				0530*				1730*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	0·9	061	31	2·3	1·6	059	27	0·6	0·3	274	28	0·9	0·4	135	31	5·7	5·7	272	31	7·2	5·4	271
0·15 a.g.	26	3·7	2·5	076	19	4·5	3·9	077									30	8·9	8·7	275	31	8·0	6·4	274
0·3 a.m.s.l.	26	3·7	2·6	081	19	4·5	3·8	081									30	10·0	9·9	275	31	8·5	7·1	274
0·6 ,,	25	4·0	3·0	099	19	4·4	3·6	093									30	13·3	13·2	276	31	9·4	8·6	272
0·9 ,,	24	4·6	3·5	105	17	4·8	3·7	102									30	12·5	12·3	278	31	9·2	8·5	271
1·5 ,,	20	5·1	3·4	118	13	6·0	4·1	113									30	9·1	8·5	277	31	9·1	7·9	270
2·1 ,,	14	5·7	3·6	117	5	5·0	3·0	124	26	2·3	1·3	007	26	2·9	0·5	030	28	8·3	7·5	279	28	8·9	7·5	272
3·0 ,,	6	6·1	2·5	125	4	3·5	1·8	166	26	2·2	0·8	287	26	2·4	1·6	318	23	7·9	7·3	286	22	8·1	7·0	288
3·6 ,,	5	4·8	1·5	169	2	3·5	3·1	134	25	2·6	0·6	307	26	2·9	2·0	292	21	7·5	6·3	282	14	6·5	4·9	279
4·5 ,,	1	6·5	6·5	145					25	3·2	1·2	252	26	3·8	1·5	280	15	6·9	4·8	272	13	6·2	3·8	280
5·4 ,,	1	3·0	3·0	170					24	4·0	1·3	258	26	4·4	1·9	279	12	5·8	2·9	258	9	4·7	1·0	304
6·0 ,,									23	4·6	2·8	257	26	6·3	1·5	263	10	5·5	0·9	205	9	4·9	0·5	038
7·2 ,,									22	7·5	5·5	244	26	8·4	6·5	267	7	5·8	4·6	095	7	7·1	6·5	085
9·0 ,,									19	14·6	12·4	245	22	12·0	10·1	252	5	7·7	5·9	080	6	11·0	10·7	089

Station	TIRUCHCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6·7	6·0	264	31	2·6	2·4	338	31	3·5	3·2	316	31	4·2	4·1	305	31	2·6	2·5	321	31	0·9	0·9	243
0·15 a.g.	28	9·8	8·8	266	31	8·9	8·5	330	31	7·0	6·6	311	31	9·2	9·1	302	30	7·3	7·0	311	30	4·0	3·4	263
0·3 a.m.s.l.	28	10·3	9·3	268	31	9·1	8·6	329	31	7·8	7·4	310	31	9·2	9·1	302	30	8·5	8·3	317				
0·6 ,,	28	12·0	10·9	270	31	11·5	11·1	311	31	9·4	9·1	310	31	11·4	11·1	305	29	11·4	11·0	311				
0·9 ,,	27	11·7	10·8	274	31	13·0	12·7	305	28	11·1	10·6	309	31	12·4	11·8	307	28	12·4	12·0	309	30	5·2	4·2	265
1·5 ,,	25	9·0	8·1	280	31	14·3	13·8	301	17	12·3	11·5	310	31	13·2	12·3	305	27	12·2	11·8	305	23	5·9	3·0	261
2·1 ,,	22	7·7	6·4	277	31	13·0	12·6	296	12	10·9	9·6	305	31	13·2	12·2	303	19	11·1	10·8	297	20	5·1	1·8	122
3·0 ,,	15	5·8	4·4	270	31	11·3	11·2	290	5	6·4	5·5	316	31	11·8	11·3	291	9	7·5	6·5	311	15	4·8	3·5	085
3·6 ,,	9	6·4	3·1	259	31	9·3	8·4	290	2	3·5	3·2	302	31	11·1	9·9	291	6	4·9	1·7	308	14	4·2	2·2	085
4·5 ,,	6	6·7	1·3	233	31	6·7	4·9	275	1	4·0	4·0	355	31	6·5	4·6	280	2	3·0	1·9	035	8	4·3	3·4	038
5·4 ,,	3	5·8	1·0	045	31	5·9	2·5	278	1	1·0	1·0	045	31	6·2	3·0	280	2	5·3	4·9	084	4	5·4	4·3	061
6·0 ,,	2	5·7	2·9	034	31	5·3	0·5	026	1	3·0	3·0	065	31	5·4	1·8	298	2	5·7	4·5	090	3	4·3	2·5	093
7·2 ,,					31	6·7	3·0	064	1	7·5	7·5	085	31	6·3	2·3	074								
9·0 ,,					28	8·8	7·9	085					29	9·6	7·6	087								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	1·3	242	31	1·1	1·0	230	31	1·5	1·3	274	31	2·1	1·9	270	31	0·7	0·5	276	31	5·7	5·1	265
0·15 a.g.	30	5·0	3·7	243	28	3·7	2·8	243	27	6·5	5·4	275	28	7·3	6·7	275	27	5·7	5·1	277	30	8·3	7·7	260
0·3 a.m.s.l.									25	8·9	7·7	277	28	9·0	8·4	279	27	7·5	6·9	281	30	9·6	9·1	262
0·6 ,,									23	10·4	9·6	280	28	11·6	11·0	283	27	9·6	9·0	284	29	11·2	10·7	263
0·9 ,,	30	5·6	3·8	250	28	4·7	3·6	252	10	8·9	8·2	287	17	12·3	11·5	289	18	10·3	9·7	286	25	11·8	11·3	262
1·5 ,,	24	6·1	4·4	250	24	6·3	4·3	262	5	7·0	6·8	301	8	8·8	8·5	295	13	7·6	7·3	293	16	9·5	8·6	253
2·1 ,,	16	4·5	1·4	272	20	4·3	0·7	343	4	6·0	5·9	311	2	3·0	3·0	285	5	4·9	4·3	243	6	7·8	5·0	242
3·0 ,,	7	3·8	2·2	003	17	4·8	2·2	020	2	3·7	3·7	333	2	2·3	2·1	210	4	3·5	2·4	323	3	4·2	2·4	116
3·6 ,,	7	3·8	3·2	012	5	5·7	4·2	023					1	3·0	3·0	180	1	4·5	4·5	340				
4·5 ,,	6	3·1	1·9	035	1	3·5	3·5	315					1	3·0	3·0	165								
5·4 ,,	1	3·0	3·0	280																				
6·0 ,,	1	4·5	4·5	275																				
7·2 ,,																								
9·0 ,,																								

Station	VERAVAL								VIJAYWADA/GANNAVARAM												VISHAKHAPATNAM			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·7	5·3	261	31	5·6	5·0	254	31	2·1	1·7	245	31	2·7	1·6	267	31	1·9	1·2	224	31	2·8	2·5	285
0·15 a.g.	30	8·1	7·8	260	30	8·2	7·8	254	23	6·3	5·5	248	30	4·9	3·1	261	27	6·1	4·5	224	31	6·2	5·4	294
0·3 a.m.s.l.	30	8·9	8·7	261	30	9·1	8·6	259	23	8·6	7·7	258	30	5·5	3·8	265	27	6·9	5·3	233	31	7·0	6·4	276
0·6 ,,	30	9·9	9·7	262	29	9·9	9·4	261	23	10·6	9·7	264	30	7·0	5·7	278	27	7·3	5·8	248	31	7·7	6·7	255
0·9 ,,	22	9·0	8·6	269	27	10·0	9·6	264	23	10·9	10·1	277	29	8·1	7·3	283	27	7·9	6·5	263	31	8·0	6·9	257
1·5 ,,	15	6·8	6·1	263	18	7·3	6·4	256	22	10·3	9·3	286	29	9·9	9·5	287	27	8·9	7·9	272	31	8·3	6·9	280
2·1 ,,	11	5·5	3·6	255	13	5·0	2·8	198	20	8·3	7·3	282	29	10·5	10·0	286	25	8·4	7·7	286	31	8·2	7·1	280
3·0 ,,	9	4·4	0·9	117	11	4·4	1·8	114	14	7·7	7·2	285	21	7·6	6·9	282	20	7·4	6·6	280	31	5·6	4·3	279
3·6 ,,	8	4·6	2·9	091	9	4·8	2·8	090	10	4·8	3·3	278	20	7·7	6·5	277	15	4·5	3·1	272	31	5·3	3·2	278
4·5 ,,	8	5·1	4·6	093	6	4·5	3·1	071	8	5·1	2·7	268	19	5·8	4·2	278	12	3·5	2·1	262	31	4·9	2·0	268
5·4 ,,	7	5·9	5·5	093	1	2·5	2·5	060	6	4·6	0·9	224	15	4·6	2·5	265	8	3·4	1·8	192	31	5·2	0·8	290
6·0 ,,	7	6·9	6·6	090	1	0·5	0·5	250	5	3·9	1·4	103	10	4·1	1·5	278	4	4·3	4·1	110	31	4·7	1·0	075
7·2 ,,	5	7·5	7·2	083					4	4·7	4·4	078	8	4·1	3·0	096	2	5·7	5·7	116	31	6·1	4·1	085
9·0 ,,									3	7·3	7·2	095	5	11·0	10·5	081					27	10·6	9·8	091

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Station	VISHAKHAPATNAM																							
Time in I.S.T.	1130				1730*				2330															
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·4	3·3	238	31	3·1	2·5	274	31	2·4	2·2	225												
0·15 a.g.	29	5·2	4·1	231	31	5·5	4·6	279	31	5·1	4·8	235												
0·3 a.m.s.l.	29	5·6	4·5	238	31	6·0	5·1	269	31	6·3	6·0	242												
0·6 ,,	28	5·4	4·3	252	31	6·9	6·2	253	30	7·4	6·9	253												
0·9 ,,	26	6·7	5·2	274	31	7·3	6·3	260	28	7·0	6·3	265												
1·5 ,,	21	8·6	6·9	288	31	7·9	6·5	278	25	8·7	7·5	275												
2·1 ,,	18	7·2	5·8	290	31	7·9	5·7	277	24	7·4	6·5	278												
3·0 ,,	12	5·8	4·9	263	31	7·1	5·4	274	20	6·1	5·5	280												
3·6 ,,	8	5·3	4·0	250	31	6·3	4·6	265	10	5·3	3·6	266												
4·5 ,,	4	3·1	0·4	296	31	5·2	2·7	250	5	4·7	2·5	110												
5·4 ,,	1	0·5	0·5	165	31	4·4	0·6	295	4	6·5	4·2	095												
6·0 ,,					30	4·6	1·3	062	2	8·5	8·5	080												
7·2 ,,					30	5·7	4·0	070																
9·0 ,,					24	9·7	8·6	085																

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

AHMADABAD

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	25	11·4	9·7	096
12·0	21	14·0	13·4	095
14·1	16	22·0	21·6	097
16·2	10	26·0	24·5	084
18·0	8	24·2	23·5	090
21·0	4	20·7	20·1	098

1730 hr. *

Ht. in Km.	n	V	v	D
10·5	19	11·3	11·0	099
12·0	17	16·5	16·1	096
14·1	13	24·2	23·7	092
16·2	6	27·8	27·5	089
18·0	5	25·5	25·4	089

ALLAHABAD/BAMHRAULI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	15	8·2	6·5	085
12·0	7	12·4	11·8	077

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	16	7·0	6·1	091
12·0	4	13·4	13·3	087
14·1	2	12·7	12·4	110
16·2	1	29·5	29·5	100

ANANTAPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	17·7	17·5	095
12·0	2	27·7	27·5	085

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	9·5	9·5	100

BAHRAICH

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	4	8·5	7·9	088
12·0	2	10·3	10·2	078

BANGALORE

0530 hr. @

Ht. in Km.	n	V	v	D
10·5	3	14·0	14·0	093
12·0	3	29·8	29·1	092

1730 hr. @

Ht. in Km.	n	V	v	D
10·5	2	10·7	10·5	109

BEGAMPET

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	21·5	21·5	090

BHAGALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	5·0	4·2	087
12·0	1	7·0	7·0	085
14·1	1	10·0	10·0	090
16·2	1	18·0	18·0	055

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	5·0	5·0	110

BHUBANESHWAR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	12·5	12·5	090

BHUJ/RUDRAMATA

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	9·0	9·0	090
12·0	1	8·5	8·5	100

BOMBAY/SANTACRUZ

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	16	17·7	10·6	102
12·0	10	19·7	19·3	095
14·1	5	34·4	34·0	090
16·2	2	34·3	33·3	094
18·0	1	31·5	31·5	090
21·0	1	27·0	27·0	080

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	23	15·7	15·2	092
12·0	17	23·2	22·4	096
14·1	12	34·2	33·4	089
16·2	4	30·0	29·0	096
18·0	3	25·2	24·3	091

CALCUTTA/DUM DUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	26	13·1	12·0	083
12·0	25	17·9	17·2	073
14·1	19	21·1	20·4	070
16·2	4	22·3	21·6	062
18·0	2	25·0	25·0	080

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	24	13·3	12·1	077
12·0	22	16·8	15·8	070
14·1	17	20·5	19·5	062
16·2	4	23·7	23·0	063
18·0	1	25·0	25·0	060

GADAG

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	16·0	16·0	080
12·0	1	20·0	20·0	085
14·1	1	30·0	30·0	090
16·2	1	10·0	10·0	095

GAUHATI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	11	5·1	4·1	070
12·0	9	8·5	8·0	078
14·1	3	16·7	16·6	066
16·2	2	17·0	17·0	083

1130 hrs.

Ht. in Km.	n	V	v	D
10·5	1	2·0	2·0	200

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	11	5·0	3·7	025
12·0	9	8·1	6·0	044
14·1	6	12·0	11·5	057
16·2	2	21·5	20·9	055
18·0	1	14·0	14·0	105

GOPALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	18·5	18·5	090

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	17·3	17·2	095
12·0	1	22·0	22·0	095

GWALIOR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	6·0	6·0	105

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	4·0	4·0	165

JODHPUR

0530*

Ht. in Km.	n	V	v	D
10·5	8	9·5	6·5	067
12·0	6	15·3	11·3	082
14·1	1	23·5	23·5	035
16·2	1	27·5	27·5	190
18·0	1	16·0	16·0	095
21·0	1	30·5	30·5	115
24·0	1	59·0	59·0	100

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	8·0	4·7	103
12·0	3	9·3	5·5	116
14·1	3	13·6	12·2	093
16·2	3	10·2	7·3	063
18·0	1	31·5	31·5	100
21·0	1	34·0	34·0	085
24·0	1	32·5	32·5	015

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	4	6·6	3·1	069
12·0	1	7·0	7·0	030

2330 hr.

Ht. in Km.	n	V	v	D
10·5	1	6·0	6·0	095

MADRAS/MINAMBAKKAM.

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	24	15·0	14·2	085
12·0	21	23·2	23·1	078
14·1	19	29·3	29·0	082
16·2	12	31·0	30·4	079
18·0	3	21·3	21·1	077
21·0	1	16·0	16·0	065

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	14·0	14·0	095
12·0	2	19·3	19·3	075
14·1	2	31·0	31·0	095
16·2	1	37·0	37·0	100
18·0	1	25·0	25·0	075
21·0	1	22·0	22·0	100

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	24	12·2	11·2	078
12·0	23	19·5	18·6	074
14·1	20	30·7	30·1	076
16·2	15	32·8	32·8	080
18·0	11	23·0	22·7	084
21·0	1	20·0	20·0	070

MANGALORE/BAJPE

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	12·5	12·5	095

MINICOY

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	13·5	13·5	110

NAGPUR/SONEGAON

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	28	12·9	12·4	090
12·0	28	17·3	17·1	084
14·1	22	25·9	25·0	080
16·2	18	30·9	30·1	082
18·0	13	29·6	28·4	087
21·0	7	17·9	17·4	075
24·0	2	23.5	23·3	082

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	27	14·2	14·0	094
12·0	26	20·0	19·6	086
14·1	22	26·7	25·0	085
16·2	16	29·3	28·7	083
18·0	10	29·2	28·8	088
21·0	4	15·7	15·7	095
24·0	2	26·0	25·8	080

NEW DELHI/SAFDARJUNG

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	29	6·3	1·4	152
12·0	29	7·8	2·5	140
14·1	27	9·0	4·8	092
16·2	25	10·7	8·2	081
18·0	21	16·1	13·6	080
21·0	17	18·9	18·6	090
24·0	6	23·5	22·6	080
27·0	8	23·0	23·0	075

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Ht. in Km.	n	V	v	D
		1730 hr.*		
10·5	29	6·9	1·0	090
12·0	27	8·0	2·5	155
14·1	25	7·8	4·2	104
16·2	22	12·5	9·7	087
18·0	16	17·2	16·6	093
21·0	7	19·3	19·3	095
24·0	2	16·7	16·6	098
		PORT BLAIR*		
		0530 hr.		
10·5	17	13·7	13·1	080
12·0	12	19·3	18·5	088
14·1	8	25·0	24·8	087
16·2	2	38·0	37·7	088
		1730 hr.*		
10·5	17	12·5	11·7	076
12·0	14	17·8	17·0	074
14·1	8	30·0	29·1	077
		SRINAGAR		
		0530 hr.*		
10·5	19	16·9	15·5	254
12·0	20	16·9	16·4	250
14·1	13	15·2	14·0	243
16·2	9	8·7	6·7	293
18·0	4	5·7	2·6	276
21·0	1	19·0	19·0	325
		1730 hr.*		
10·5	18	12·9	11·6	245
12·0	17	14·0	12·1	236
14·1	13	13·2	10·6	245
16·2	8	11·7	3·3	205
18·0	4	7·0	2·3	235
		TRUCHCHIRAPPALLI		
		0530 hr.		
10·6	3	17·0	16·5	093
12·0	2	25·3	25·0	079
		1730 hr.		
10·5	5	13·4	13·0	093
12·0	5	18·4	18·2	091
14·1	4	28·1	28·1	086
16·2	1	33·0	33·0	080

Ht. in Km.	n	V	v	D
		TRIVANDRUM		
		0530 hr.*		
10·5	26	15·7	15·0	092
12·0	24	24·6	24·2	078
14·1	17	35·3	33·6	078
16·2	8	21·7	21·4	094
18·0	3	14·3	12·8	080
		1730 hr.*		
10·5	28	17·8	17·0	089
12·0	28	25·1	23·5	078
14·1	28	30·8	30·4	083
16·2	17	27·4	26·8	083
18·0	9	25·9	22·4	086
21·0	2	13·5	8·0	131
		VIJAYWADA/GANNAVARAM		
		0530 hr.		
10·5	2	17·7	12·7	128
12·0	1	18·5	18·5	110
		VISHAKHAPATNAM		
		0530 hr.*		
10·5	25	15·3	15·0	090
12·0	24	21·5	21·2	086
14·1	20	28·6	28·0	080
16·2	17	28·3	28·0	082
18·0	13	21·0	20·7	095
		1730 hr.*		
10·5	24	14·2	13·3	090
12·0	22	21·1	20·1	082
14·1	21	27·9	27·1	080
16·2	17	29·8	29·4	085
18·0	11	25·4	24·7	089
21·0	6	23·9	23·5	097
24·0	3	20·3	9·7	081

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 14 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

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

RADIOSONDE DATA

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

(A) From Ascents at 00 Hours GMT.

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (996 mb)						ALLAHABAD/BAMHRAULI (989 mb)						BANGALORE (907 mb)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	299·0	301	297	296·8	30	098	299·7	302	298	298·6	31	921	292·7	294	291	291·
1000	30	023	..	..	..	..	30	000	..	..	..	..	31	080	..	..	..	..
900	30	949	294·6	297	291	292·2	30	931	296·6	299	294	293·6	31	991	292·1	293	291	291·
850	30	1444	292·3	296	289	289·5	30	1430	293·7	296	292	291·4	31	1481	289·5	292	287	287·
800	30	1964	289·7	293	285	285·6	30	1960	290·9	294	289	288·3	31	1997	287·6	289	285	284·
700	30	3097	286·2	289	283	277·6	30	3087	285·0	287	281	282·0	31	3117	282·4	285·	279	278·
600	30	4376	278·7	282	275	271·5	29	4368	278·7	281	276	275·3	30	4383	276·3	280	270	272·
500	30	5843	269·8	274	264	..	29	5841	271·1	275	268	269·0	30	5834	266·9	272	262	..
400	30	7579	260·0	265	255	..	29	7584	261·6	269	259	..	27	7546	255·6	260	249	..
300	29	9712	245·2	251	238	..	25	9740	248·8	254	244	..	26	9645	240·7	244	235	..
250	28	11004	235·7	246	230	..	22	11042	240·4	246	236	..	20	10904	230·7	235	225	..
200	26	12506	222·5	229	215	..	21	12609	228·0	235	221	..	24	12370	219·8	224	214	..
175	25	13368	216·0	224	207	..	21	13446	220·9	228	214	..	24	13204	212·2	218	206	..
150	24	14331	209·0	217	203	..	18	14437	214·1	220	207	..	24	14197	205·0	211	199	..
125	21	15428	202·5	211	195	..	14	15539	206·4	211	199	..	24	15221	199·2	205	192	..
100	19	16737	197·0	203	191	..	9	16901	203·3	211	197	..	24	16529	197·2	204	190	..
80	17	18009	200·3	211	194	..	5	18214	204·4	208	201	..	22	17879	201·2	211	193	..
70	14	18808	202·6	213	195	..	5	19088	207·6	212	204	..	21	18695	204·3	216	196	..
60	8	19808	204·9	211	196	..	5	19985	210·2	216	202	..	18	19614	206·3	212	198	..
50	7	20891	208·4	215	201	..	..	..	..	..	..	..	17	20691	209·6	215	200	..
40	..	..	..	..		..	..	..	..	..	..	..	13	22100	212·4	221	203	..
30	..	..	..	..	..	..	..	..	..	..	..	..	8	23851	215·9	221	206	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTACRUZ (1003 mb)						CALCUTTA/DUM DUM (1001 mb)						GAUHATI (997 mb)					
Surface	31	013	298·6	300	297	297·0	31	006	300·0	302	298	295·1	25	049	299·8	301	298	298·3
1000	31	043	..	..	..	..	31	020	..	..	..	..	25	025	..	..	..	..
900	31	963	293·0	295	291	291·2	31	944	294·4	296	292	292·4	25	951	295·1	298	293	293·6
850	31	1455	290·3	293	288	288·2	31	1438	291·6	294	289	289·6	25	1448	292·6	295	290	291·2
800	31	1972	287·8	291	285	285·2	31	1963	289·1	293	288	287·0	25	1969	289·7	292	287	288·6
700	31	3094	283·1	286	279	277·7	31	3089	283·9	286	280	281·3	25	3098	283·9	287	281	282·6
600	31	4365	276·8	281	273	270·3	30	4363	277·5	281	274	274·1	25	4373	277·6	281	274	275·3
500	30	5828	269·0	274	264	..	30	5832	269·9	274	267	..	23	5840	270·5	274	266	..
400	30	7557	259·3	264	253	..	30	7566	260·6	263	256	..	20	7578	261·2	265	258	..
300	19	9699	246·1	252	241	..	27	9708	246·3	249	240	..	12	9741	248·3	253	243	..
250	16	10998	237·4	244	232	..	26	12004	238·2	241	234	..	11	11047	239·4	244	234	..
200	13	12527	226·2	236	220	..	24	12524	225·4	232	222	..	8	12559	227·5	231	223	..
175	9	13364	218·0	225	211	..	19	13392	219·6	225	215	..	6	13418	219·5	223	214	..
150	7	14367	211·5	218	207	..	17	14363	211·6	216	207	..	6	14438	210·7	215	205	..
125	..	..	..	..	..	..	9	15487	203·9	210	199	..	5	15497	203·0	212	198	..
100	..	..	..	..	..	..	5	16831	198·0	204	194	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 00 Hours GMT.

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (977 mb.)						MADRAS/MINAMBAKKAM (1004 mb.)						NAGPUR/SONEGAON (967 mb).					
	No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	300·9	306	298	295·8	31	015	299·4	304	296	296·0	30	311	297·3	300	296	295·6
1000	30	007	..	..	..	..	30	053	..	..	..	..	30	018	..	..	..	..
900	30	933	296·5	303	292	290·8	30	975	294·6	297	292	288·7	30	945	295·1	299	293	291·6
850	30	1428	299·3	300	292	288·4	30	1469	291·6	295	289	286·6	30	1448	292·5	295	290	289·3
800	30	1950	292·2	296	284	285·0	30	1987	288·2	292	284	284·2	30	1963	289·4	292	283	288·9
700	28	3079	288·3	292	279	276·7	30	3105	281·1	284	279	277·9	30	3092	283·9	290	281	280·4
600	26	4362	278·5	284	272	269·4	30	4360	273·9	278	270	271·7	30	4368	277·6	282	274	272·2
500	25	5824	270·6	275	265	..	30	5802	265·7	270	261	..	30	5841	269·8	273	267	..
400	24	7564	260·9	264	256	..	30	7505	254·8	259	249	..	29	7568	259·3	263	253	..
300	20	9721	248·3	251	245	..	30	9590	239·6	247	233	..	29	9697	244·6	249	240	..
250	16	11023	239·2	243	236	..	28	10848	229·8	237	222	..	29	10973	234·4	240	228	..
200	12	12539	227·4	230	226	..	25	12306	217·0	224	210	..	29	12460	221·5	230	212	..
175	9	13424	220·8	228	218	..	23	13143	211·1	219	203	..	25	13321	215·4	223	209	..
150	7	14401	211·1	215	205	..	21	14093	204·3	215	197	..	23	14293	207·9	215	201	..
125	6	15500	201·3	207	198	..	18	15129	197·7	205	190	..	21	15385	201·5	209	195	..
100	5	16803	198·4	200	196	..	17	16440	195·6	201	188	..	18	16709	195·3	201	191	..
80	..	..	..	..	..	..	10	17733	200·0	211	196	..	14	18009	199·6	203	193	..
70	..	..	..	..	..	..	10	18519	203·3	219	195	..	10	18831	198·6	205	195	..
60	..	..	..	..	..	..	7	19422	203·7	217	197	..	9	19742	201·8	209	197	..
50	..	..	..	..	..	..	5	20526	205·8	217	199	..	8	20818	205·7	214	200	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI /SAFDARJUNG (977 mb.)						PORT BLAIR (999 mb.)						SRINAGAR (835 mb.)					
Surface	31	209	300·5	302	297	297·2	31	079	297·6	300	296	296·8	29	1588	291·5	295	287	289·3
1000	31	—002	..	..	..	..	29	076	..	..	..	..	29	019	..	..	..	..
900	31	931	297·7	301	295	292·7	29	995	293·2	299	289	291·7	29	939	..	..	..	..
850	31	1432	295·2	299	292	290·8	29	1486	290·5	295	287	288·4	29	1439	..	..	..	..
800	31	1957	292·0	295	290	288·3	29	2003	287·8	292	284	285·0	29	1951	291·2	297	287	287·2
700	31	3094	285·4	288	283	281·0	29	3121	281·8	285	277	279·0	29	3086	285·0	291	282	280·9
600	31	4376	279·1	281	276	272·3	29	4381	274·6	281	271	271·5	28	4359	276·6	281	274	272·5
500	31	5851	271·7	275	269	..	29	5830	266·3	274	263	..	27	5817	268·3	272	265	..
400	30	7601	262·1	266	257	..	28	7542	256·1	264	249	..	26	7544	259·9	264	253	..
300	26	9761	248·5	251	246	..	27	9644	242·2	256	234	..	24	9664	247·8	255	242	..
250	26	11065	239·4	245	237	..	23	10904	230·0	239	219	..	21	10989	238·8	242	235	..
200	23	12596	227·6	232	224	..	21	12367	217·7	225	212	..	16	12509	227·5	231	225	..
175	22	13470	220·4	225	216	..	15	13199	211·4	215	206	..	14	13392	220·6	223	216	..
150	21	14444	212·4	216	207	..	13	14108	205·0	211	198	..	13	14367	214·2	218	209	..
125	21	15556	204·9	209	199	..	9	15221	201·3	205	197	..	12	15506	207·3	212	201	..
100	19	16878	200·0	205	195	..	7	16494	201·3	203	198	..	7	16870	202·3	205	199	..
80	17	18224	201·4	205	197	..	7	17824	202·4	207	195	..	..	..	..	..	..	..
70	17	18983	204·6	207	199	..	6	18751	205·6	211	197	..	..	..	..	..	..	..
60	16	19924	209·4	214	204	..	5	19546	208·2	213	201	..	..	..	..	..	..	..
50	10	21049	214·1	217	209	..	..	..	..	..	..	..	..	..	..	..	..	..
40	6	22426	219·0	228	213	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 00 Hours GMT.

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Standard Pressure Suface mb.	TRIVANDRUM Surf. Pr. (1002 mb.)						VISHAKHAPATNAM (999 mb.)											
	No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	296·8	298	295	295·3	31	041	299·8	301	298	296·8						
1000	31	081	..	..	..	..	31	027	..	..	..	..						
900	31	998	292·2	295	289	288·3	31	956	295·7	299	293	290·4						
850	31	1489	289·3	293	285	285·3	31	1452	292·6	295	289	287·8						
800	31	2004	286·5	290	281	282·4	31	1973	289·6	292	286	285·1						
700	31	3120	281·2	285	277	274·9	31	3101	283·4	285	279	278·7						
600	31	4377	273·4	278	269	267·9	31	4372	276·9	279	270	270·9						
500	31	5815	264·7	269	261	..	31	5834	268·9	274	263	..						
400	31	7518	254·4	261	248	..	31	7541	258·3	263	252	..						
300	29	9592	238·3	245	231	..	28	9676	243·5	249	235	..						
250	27	10842	228·1	235	221	..	26	10959	233·1	240	225	..						
200	26	12296	215·6	222	209	..	24	12447	221·6	229	211	..						
175	26	13111	209·2	216	204	..	21	13288	213·7	221	207	..						
150	26	14056	202·1	209	197	..	21	14245	206·9	214	196	..						
125	23	15104	196·4	203	192	..	21	15337	200·4	207	191	..						
100	21	16393	197·1	206	192	..	20	16632	196·6	208	189	..						
80	15	17746	203·0	211	196	..	17	17941	200·2	207	195	..						
70	14	18611	205·3	211	199	..	14	18737	204·1	211	195	..						
60	10	19478	208·0	215	201	..	13	19644	208·3	215	199	..						
50	8	20551	209·4	217	203	..	8	20776	210·4	217	199	..						
40	6	21937	212·2	219	207	..												
30																		
20																		
10																		

RADIOSONDE DATA

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

(B) From Ascents at 12 Hours GMT.

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (996 mb.)						ALLAHABAD/BAMHRAULI (988 mb.)						BANGALORE (906 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	304·8	308	304	299·8	31	098	302·3	308	299	299·0	31	921	297·9	301	295	292·2
1000	31	009	..	..	..	..	31	−012	..	..	..	..	31	046	..	..	..	..
900	31	952	297·6	302	294	293·3	31	925	297·6	300	296	294·3	31	974	297·3	301	294	291·7
850	31	1448	293·9	298	292	291·1	31	1425	294·5	297	293	291·1	31	1472	293·5	297	290	289·3
800	31	1971	290·3	294	286	288·3	31	1951	291·6	293	289	288·2	31	1992	289·5	293	287	286·0
700	31	3102	285·6	289	280	279·9	31	3087	286·3	289	283	282·1	31	3117	282·7	286	279	279·5
600	31	4381	278·4	282	274	274·0	31	4372	279·6	283	277	274·3	31	4383	276·0	280	272	272·5
500	30	5851	270·6	275	266	268·7	29	5848	271·9	274	270	263·5	31	5841	268·2	273	264	..
400	30	7590	260·3	266	255	..	29	7596	262·5	265	260	..	31	7564	257·6	262	251	..
300	28	9724	245·4	252	240	..	28	9755	249·2	253	247	..	26	9682	242·6	249	238	..
250	26	11013	235·3	244	226	..	26	11058	239·7	243	235	..	24	10950	232·1	240	225	..
200	25	12575	223·7	232	216	..	22	12591	228·3	232	223	..	24	12427	219·8	227	211	..
175	22	13386	216·6	225	206	..	20	13424	221·5	227	214	..	23	13267	212·6	220	206	..
150	21	14366	209·5	218	204	..	16	14469	214·4	221	210	..	23	14219	205·2	214	200	..
125	20	15457	202·9	210	194	..	12	15561	205·0	209	201	..	22	15284	199·4	209	191	..
100	18	16762	197·6	203	190	..	10	16888	198·0	203	195	..	22	16598	196·2	201	189	..
80	12	18080	199·7	207	193	..	..	..	..	..	..	..	19	17898	200·2	206	192	..
70	10	18865	202·0	212	194	..	..	..	..	..	..	..	17	18683	203·1	209	197	..
60	7	19849	206·6	218	197	..	..	..	..	..	..	..	16	19601	205·3	213	197	..
50	5	21052	210·0	215	202	..	..	..	..	..	..	..	16	20675	207·8	219	193	..
40	..	..	..	..	..	..	..	..	..	..	..	..	10	22052	209·9	216	208	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (1003 mb.)						CALCUTTA/DUMDUM (999 mb.)						GUAHATI (996 mb.)					
Surface	31	013	300·9	302	299	297·3	31	006	301·9	304	299	298·5	30	048	301·6	305	299	298·6
1000	31	041	..	..	..	..	30	002	..	..	..	..	25	005	..	..	..	..
900	31	963	293·7	295	292	293·7	30	933	296·1	300	294	292·9	25	940	296·1	298	293	293·4
850	31	1457	290·9	294	288	288·0	30	1429	293·5	297	291	290·2	25	1434	293·6	296	291	290·8
800	31	1971	288·4	292	286	285·6	30	1952	290·8	294	288	287·6	25	1957	290·4	293	289	287·4
700	31	3097	283·7	288	281	277·9	30	3085	285·3	289	281	281·8	25	3090	285·0	287	283	281·8
600	31	4369	277·5	281	274	271·1	30	4366	279·2	283	275	..	25	4369	278·1	281	277	275·3
500	31	5834	270·0	276	267	270·0	29	5844	271·6	279	269	..	23	5844	271·7	276	270	267·5
400	30	7570	260·7	265	256	..	28	7595	262·1	268	258	..	23	7571	262·3	265	258	..
300	23	9713	246·4	249	243	..	25	9738	247·3	252	243	..	13	9761	249·0	252	247	..
250	22	11003	237·0	241	233	..	22	12036	237·8	243	232	..	12	11072	240·6	250	237	..
200	18	12519	225·6	231	220	..	21	12553	225·8	237	222	..	10	12595	227·5	232	223	..
175	16	13392	219·1	225	214	..	17	13417	218·7	224	215	..	9	13465	220·4	224	217	..
150	16	14368	212·3	219	208	..	17	14389	211.5	217	208	..	6	14451	212·8	218	208	..
125	15	15476	204·4	212	200	..	13	15491	203·8	213	198	..	..	..	..	..	..	..
100	12	16801	198·4	204	193	..	11	16829	198·2	211	193	..	..	..	..	..	..	..
80	9	18054	198·4	204	193	..	..	..	..	..	..	..	..	..	..	..	..	..
70	7	18820	202·0	207	197	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 00 Hours GMT.

August 1962 (Sravana 10—Bhadra 9, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (976 mb.)						MADRAS/MINAMBAKKAM (1002 mb.)						NAGPUR/SONEGAON (966 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	305.7	311	298	296.7	31	015	303.6	309	299	296.9	31	311	301.5	306	297	295.
1000	29	—004	..	..	..	..	31	036	..	..	..	..	31	002	..	..	..	..
900	29	932	300.4	306	294	292.3	31	969	297.0	302	294	290.9	31	944	297.2	301	294	291.
850	29	1433	296.6	300	296	289.0	31	1466	293.4	296	291	288.9	31	1442	293.6	297	292	288.
800	29	1958	293.4	299	288	286.3	31	1987	289.3	292	285	287.0	31	1958	290.4	293	287	286.
700	29	3100	287.0	292	282	279.5	31	3111	282.3	285	277	280.0	31	3090	284.5	287	281	280.
600	25	4380	279.8	285	276	273.7	31	4373	275.4	279	271	273.6	31	4345	278.5	281	273	278.
500	22	5854	272.2	276	266	..	31	5826	267.4	270	262	..	31	5837	270.2	273	265	270.
400	21	7581	263.3	267	259	..	31	7537	256.2	261	248	..	31	7571	259.4	264	256	..
300	14	9778	250.0	252	248	..	29	9631	240.6	245	235	..	29	9700	244.8	249	241	..
250	9	11091	241.9	250	237	..	26	10886	229.9	235	225	..	29	10981	234.7	241	227	..
200	8	12628	229.1	232	225	..	25	12348	218.0	223	212	..	28	12475	222.0	229	219	..
175	7	13490	222.3	226	218	..	22	13208	212.9	216	207	..	25	13305	214.4	221	210	..
150	..	..	..	..	..	..	20	14146	205.3	213	201	..	25	14268	206.9	218	199	..
125	..	..	..	..	..	..	19	15202	198.2	204	192	..	19	15330	200.2	207	197	..
100	..	..	..	..	..	..	19	16511	194.8	202	182	..	17	16657	195.6	200	190	..
80	..	..	..	..	..	..	16	17813	198.6	207	193	..	9	17930	197.1	203	193	..
70	..	..	..	..	..	..	15	18565	201.3	205	197	..	8	18699	199.5	206	195	..
60	..	..	..	..	..	..	10	19463	204.8	211	196	..	5	19604	201.8	207	195	..
50	..	..	..	..	..	..	8	20560	209.9	217	207	..	..	..	..	..	..	..
40	..	..	..	..	..	..	5	21989	210.5	215	205	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (975 mb.)						PORT BLAIR (998 mb.)						SRINAGAR (832 mb.)					
Surface	31	209	305.1	310	301	297.9	31	079	299.3	302	295	296.9	31	1588	299.9	304	294	292.1
1000	30	—018	..	..	..	..	31	064	..	..	..	..	31	049	..	..	..	..
900	30	926	300.0	306	296	293.5	31	985	293.2	297	291	291.3	31	898	..	..	..	..
850	30	1429	296.4	301	293	290.6	31	1477	290.5	294	287	288.4	31	1405	..	..	..	..
800	30	1956	293.0	296	290	287.2	31	1993	287.5	289	284	285.1	30	1941	298.1	309	291	286.6
700	30	3095	286.3	289	281	279.6	31	3111	281.6	284	276	278.0	30	3097	289.0	295	279	279.2
600	30	4379	279.9	282	278	271.4	30	4366	273.6	277	269	271.0	30	4388	276.6	283	271	271.0
500	30	5858	272.4	275	268	263.2	29	5810	265.0	270	259	..	30	5861	270.1	273	263	264.6
400	30	7610	262.6	267	260	..	27	7516	254.7	268	248	..	29	7601	261.2	266	257	..
300	25	9775	248.9	253	245	..	22	9615	241.1	249	231	..	25	9753	247.8	253	243	..
250	24	11080	239.6	249	237	..	19	10865	233.2	240	225	..	25	11055	238.9	244	235	..
200	23	12607	227.7	232	223	..	17	12327	218.7	227	214	..	18	12578	227.7	232	223	..
175	22	13434	220.8	227	216	..	12	13167	211.8	222	207	..	13	13452	221.8	226	214	..
150	22	14461	212.7	217	207	..	11	14095	205.5	217	196	..	9	14452	216.7	221	213	..
125	22	15576	204.6	211	197	..	8	15228	201.0	209	194	..	9	15602	209.6	215	203	..
100	20	16902	198.3	210	192	..	5	16572	200.6	205	197	..	7	16938	203.1	207	196	..
80	13	18233	202.2	209	197	..	..	..	..	..	..	..	5	18298	205.2	213	196	..
70	11	19034	204.5	214	198	..	..	..	..	..	..	..	..	..	..	..	..	..
60	10	19958	208.8	218	200	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 12 Hours GMT.

August 1962 (Śravana 10—Bhadra 9, 1884 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1001 mb.)						VISHAKHAPATNAM (997 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	300.5	302	297	295.8	31	041	302.0	307	300	297.4
1000	31	070	..	..	..	..	31	014	..	..	..	..
900	31	993	293.7	298	291	289.0	31	948	296.4	299	293	290.9
850	31	1486	290.8	295	288	285.9	31	1446	293.7	296	290	288.2
800	31	2004	288.1	292	284	282.3	31	1969	290.8	295	287	285.6
700	31	3125	283.7	285	279	275.3	31	3101	284.7	288	282	280.2
600	31	4392	276.0	279	272	268.0	31	4377	277.9	281	274	273.8
500	31	5847	267.7	271	263	..	31	5846	270.1	275	267	..
400	31	7564	256.7	262	252	..	30	7585	259.3	264	255	..
300	30	9659	240.2	246	233	..	25	9708	244.0	251	237	..
250	29	10914	229.0	235	223	..	25	10988	234.3	244	226	..
200	29	12377	217.1	225	209	..	23	12477	222.9	231	214	..
175	29	13200	213.8	220	201	..	21	13343	217.2	225	207	..
150	29	14153	203.1	215	193	..	21	14320	210.0	218	202	..
125	27	15203	198.4	208	191	..	19	15419	204.3	210	194	..
100	26	16504	196.5	205	184	..	19	16758	199.0	204	192	..
80	21	17788	199.1	205	190	..	16	18078	201.4	206	196	..
70	17	18578	201.1	211	196	..	15	18894	203.5	211	197	..
60	13	19504	203.9	212	195	..	11	19830	206.1	212	202	..
50	13	20607	206.8	215	198	..	9	21004	211.4	217	209	..
40	8	21828	206.7	211	203	..	8	22431	214.7	221	210	..
30	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..

INDIAN WEATHER REVIEW, 1962

Monthly Weather Report

SEPTEMBER

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Chief features :—

(i) Good monsoon activity over the country outside northeast India ;

(ii) Spells of heavy rains causing floods (a) in Telangana during the middle of the month and (b) in the Punjab (I) during the second and fourth weeks;

(iii) Formation of two depressions and one cyclonic storm in the Bay of Bengal and their movement ;

(iv) Rapid withdrawal of the southwest monsoon from most parts of north and central India towards the end of the month.

Last month's low pressure area over the south Peninsula moved westwards, weakened and became unimportant over the Laccadive area by 2nd. Under its influence the spell of general rainfall continued in the Peninusula during the first week. Calicut recorded 11 cm of rain on 3rd; Vellore 9 cm on 4th and Gannavaram 11cm on 5th.

A well marked low pressure area appeared over east Madhya Pradesh on 1st and persisted over the central parts of the country until it became weak and unimportant on 8th. It caused very heavy rains in Madhya Pradesh and neighbourhood during this period. Sagar recorded 17 cm of rain on 7th and Pachmarhi 14 cm on 7th. Following the heavy rainfall the river Narmada was in floods on 7th and 8th and as a result, the Khalaghat bridge on the Agra-Bombay highway was under 2 ft. of water.

Under the influence of a low pressure wave from the east a low pressure area formed over north Andaman Sea on the 6th. Moving westwards, it intensified into a depression on the 8th with its centre at 0830 hrs. IST about 350 kms east of Kakinada. It crossed the Circars coast near Kakinada on the night of 8th-9th. Thereafter, it moved rapidly westnorthwestwards and emerged into the northeast Arabian Sea near Dwarka by the morning of 11th. Later it moved slowly northwestwards towards Mekran coast, weakened and merged into the seasonal low by 16th. In association with this disturbance, abundant rainfall occurred in the Bay Islands and in the areas lying between Circars and Kathiawar coasts. Some of the noteworthy amounts of rainfall recorded were : Gopalpur 13 cm and Masulipatam 12 cm on 9th, Bombay (Santacruz) 21 cm and Raigarh 13 cm on 10th, Veraval 22 cm, Rajgarh 15 cm and Porbandar 13 cm on 11th.

Under the influence of another low pressure wave from the east, a depression formed in the west central Bay of Bengal on 16th with its centre about 300 kms southeast of Kalingapatam. It intensified into a deep depression by the same evening and crossed the Circars—Orissa coast near Gopalpur on the night of 17th-18th. Moving westnorthwestwards, it was over west Madhya Pradesh on 19th with centre near Betul. Later, it moved northwards and was over the Punjab(I) by the evening of 21st. Thereafter, it weakened rapidly and merged into the seasonal low by 23rd. Under its influence, very heavy rainfall occurred in the Bay Islands, northern parts of the Peninsula, central parts of the country and in the Punjab(I). Some of the noteworthy amounts were : Pachmarhi 23 cm and Nagpur 18 cm on 19th, Indore 17 cm and Khandala and Khandwa 16 cm each on 20th, Ratlam 27 cm, Ambala 20 cm, Nainital 18 cm, Chandigarh 17 cm and Simla 16 cm on 21st and Nainital 19 cm on 22nd. According to press reports, the heavy rains in Telangana caused flooding of the Musi river and affected 40,000 people in the cities of Hyderabad and Secunderabad. Road, rail and air traffic was also disrupted. 19 persons lost their lives due to house collapse in Hyderabad. The very heavy rains in Madhya Pradesh and the Punjab(I) led to the Narmada and other rivers in Madhya Pradesh, the Jammuna, Ravi and the Beas in the Punjab(I) and Delhi areas and the Jhelum in Srinagar valley to rise in spate causing many breaches and inundations over vast areas. The floods in the Punjab(I) were particularly heavy and many towns and villages were seriously affected. The services of the army were mobilised for flood relief.

A depression moving northwestwards across lower Burma entered the north Bay of Bengal on 20th. It intensified into a cyclonic storm and crossed the Sunderbans coast by the morning of 21st. Continuing to move northwestwards it weakened and lay as a depression over east Uttar Pradesh and neighbourhood on 23rd. It persisted there, but weakened gradually and became unimportant by 26th. In association with it, the monsoon was active in the States of West Bengal and Bihar and in east Uttar Pradesh. A few of the noteworthy rainfall recorded were : Purulia 13 cm, Contai 12 cm and Midnapore and Calcutta (Dum Dum) 11 cm each on 22nd, Daltonganj 39 cm and Sabour 19 cm on 23rd and Bahraich 15 cm on 26th. The major rivers in West Bengal and east Uttar Pradesh were reported to have risen in spate due to the heavy rains.

In association with a westerly trough moving slowly eastwards across Russian Turkistan, the moist easterlies penetrated into northwest India outside Rajasthan causing a good spell of rain there from 7th. Dehra Dun recorded 12 cm of rain on 8th, Ludhiana 25 cm on 10th, Bhatinda 13 cm on 11th and Mussoorie 16 cm on 17th. The spell of

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heavy rainfall continued later under the influence of the deep depression over the Punjab(I) mentioned earlier. During this period a deep upper air trough in the westerlies also moved slowly across northwest India and intensified the precipitation over these areas particularly over the Western Himalayas where heavy snowfalls were reported. According to a late press report, the continuous heavy snowfall caused sudden land and snow slides at many places in the Lahaul valley where nearly 2500 people were trapped and 30 of them lost their lives. Due to continuing bad weather over the area air rescue was impossible till 30th.

With the establishment and strengthening of the westerlies over north India, the southwest monsoon withdrew rapidly from northwest India on 28th and from Uttar Pradesh, west Madhya Pradesh and from Gujarat and Maharashtra States on 29th.

Rainfall for the month was in moderate excess in east Uttar Pradesh, east Rajasthan, Saurashtra and Kutch, the Konkan, Vidarbha and the Arabian Sea Islands, in slight excess in the Bay Islands, Bihar Plateau, Gujarat Region, Madhya Maharashtra, the Madras State and north Interior Mysore and normal in Gangetic West Bengal, Orissa, Bihar Plains and south Interior Mysore. It was in slight defect in east Madhya Pradesh, in moderate defect in Sub-Himalayan West Bengal, and Rayalaseema and in large defect in Assam. It was in large excess over the rest of the country outside Himachal Pradesh.

Mean maximum temperature was below normal in east Uttar Pradesh, the Punjab(I) and Jammu and Kashmir and normal over the rest of the country, outside Himachal Pradesh. Mean minimum temperature was normal over the country outside Himachal Pradesh.

Mean relative humidity in the morning was above normal in West Uttar Pradesh, the Punjab(I), east Rajasthan and Interior Mysore and normal over the rest of the country outside Himachal Pradesh.

Mean cloud amount in the morning was above normal in the Bay Islands, east Uttar Pradesh, the Punjab(I), Jammu and Kashmir, east Rajasthan, west Madhya Pradesh, the Madras State, north Interior Mysore and the Arabian Sea Islands. It was normal over the rest of the country outside Himachal Pradesh.

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

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

R. Ananthakrishnan,

for DIRECTOR GENERAL OF OBSERVATORIES

Poona 5 ;

The 16th February, 1963.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST	Relative humidity % 1730 hrs. IST	Cloud 0830 hrs. IST	Cloud 1730 hrs. IST
1	2	3	4	5	6	7	8	9
DIVISION								
1. Assam (Including Manipur and Tripura	98·8 −173·2	36	32·0 +1·0	24·5 +0·4	82 −2	79	5·4 −0·4	4·7
2. West Bengal	260·1 −44·0	86	31·7 0	54·4 0	83 0	81	5·4 0	5·5
3. Orissa	233·9 −5·3	98	31·8 +0·2	25·5 +0·2	82 0	80	5·9 +0·6	6·5
4. Bihar	225·8 +8·8	104	31·7 +0·2	24·6 −0·2	82 +1	78	5·0 +0·1	5·6
5. Uttar Pradesh	273 9 +89·8	149	31·8 −1·0	24·2 −0·1	84 +6	75	4·4 +1·0	4·7
6. Punjab (I) Includcluding Himachal Pradeh and Dehi*	433·9 +291·8	305	32·0 −2·0	22·5 −0·7	83 +11	68	3·4 +0·9	2·8
7. Jammu and Kashmir	92·7 +43·3	188	24·0 −1·1	11·1 −0·8	66 −5	53	3·9 +1·5	4·4
Sub Division								
1. Bay Islands	521·7 +79·7	118	28·5 +0·1	23·8 +0·6	88 +4	91	7·5 +1·3	7·5
2. Assam (Including Manipur, Tripura).	98·8 −173·2	36	32·0 +1·0	24·5 +0·4	82 −2	79	5·4 −0·4	4·7
3. Sub-Himalayan, West Bengal.	288·6 177·1	62	31·3 −0·2	24·9 +0·2	82 −1	78	5·2 +0·4	4·8
4. Gangetic, West-Bengal.	249·8 +4·4	102	31·9 0	25·6 −0·1	83 0	82	5·4 −0·1	5·7
5. Orissa	233·9 −5·3	98	31·8 +0·2	25·5 +0·2	82 0	80	5·9 +0·6	6·5
6. Bihar Plateau	234·2 +22·6	111	31·1 +0·1	23·9 −0·1	82 +1	79	5·5 +0·5	6·2
7. Bihar Plains	220·7 +0·6	100	32·3 +0·2	25·3 −0·4	81 +1	77	4·6 −0·3	5·0
8. Uttar Pradesh, East	284·9 +85·2	143	31·7 −1·1	24·4 −0·4	85 +5	77	5·2 +1·5	4·9
9. Uttar Pradesh, West.	258·6 +96·0	159	32·0 −0·8	23·9 +0·2	83 +7	72	3·3 +0·3	4·3
10. Punjab (India)(Including Delhi).	433·9 +291·8	305	32·0 −2·0	22·5 −0·7	83 + 11	68	3·4 +0·9	2·8
11. Himachal Pradesh	305·9 ..		29·5 ..	19·7 ..	90 ..	76	3·1 ..	3·8
2. Jammu and Kashmir	92·7 +43·3	188	24·0 −1·1	11·1 −0·8	66 −5	53	3·9 +1·5	4·4
3. Rajasthan, West	87·4 +40·9	188	35·1 −0·5	24·3 −0·3	75 +5	50	2·5 +0·3	3·1
4. Rajasthan, East	150·6 +45·4	143	31·4 −1·0	22·5 −0·7	79 +6	68	4·0 +1·0	4·9
5. Madhya Pradesh (West).	328·0 +133·5	169	29·8 −0·6	22·2 0	87 +5	75	5·8 +1·1	6·0

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative Humidity % 0830 hrs. IST	Relative Humidity % 1730 hrs. IST	Cloud 0830 hrs. IST	Cloud 1730 hrs. IST
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	119·0 +43·2	157	33·0 −0·8	23·3 −0·5	77 +5	60	3·3 +0·7	4·1
9. Madhya Pradesh	273·6 +62·8	130	30·2 −0·2	22·6 0	85 +3	76	5·7 +0·9	6·2
10. Gujarat State	142·9 +28·6	125	32·4 +0·3	24·3 +0·2	85 +3	68	4·5 0	4·6
11. Maharashtra State	312·6 +80·5	135	29·9 −0·3	22·5 0	86 +4	72	5·9 +0·5	6·2
12. Andhra Pradesh	245·4 +89·0	157	31·7 −0·7	24·3 −0·2	81 +4	70	5·8 +0·3	6·2
13. Madras State	117·0 +21·0	122	33·4 −0·2	24·5 −0·1	73 +2	66	5·4 +1·2	6·1
14. Mysore	216·0 +40·0	123	28·5 −0·5	21·2 +0·3	88 +5	71	6·3 +0·7	6·4
15. Kerala	412·3 +210·6	204	29·1 0	23·9 +0·1	90 +5	83	6·5 +0·9	6·4
Sub' Division—*contd.*								
16. Madhya Pradesh (East).	204·4 −27·3	88	30·7 +0·3	23·1 +0·1	83 +1	77	5·6 +0·6	6·3
17. Gujarat Region	200·9 +38·6	124	32·6 0	24·0 0	87 +4	66	4·9 +0·2	4·5
18. Saurashtra and Kutch.	110·7 +23·1	126	32·2 +0·4	24·4 +0·3	84 +2	69	4·2 0	4·6
19. Konkan	433·8 +109·5	134	29·5 +0·3	24·2 +0·2	88 +2	81	6·1 +0·2	5·7
20. Madhya Maharashtra.	231·0 +35·6	118	29·8 −0·7	20·8 −0·1	86 +4	66	5·6 +0·5	6·2
21. Marathwada	316·7 +127·1	167	29·9 −0·7	21·2 −0·1	83 +4	71	5·8 +0·5	6·5
22. Vidarbha	292·5 +95·8	149	30·3 −0·4	23·2 0	86 +4	74	6·1 +0·9	6·5
23. Coastal Andhra Pradesh.	267·8 +120·9	182	32·2 −0·8	25·1 −0·3	82 +4	75	5·8 +0·4	6·2
24. Telangana	312·4 +134·3	175	30·9 −0·4	23·3 −0·1	85 +4	71	5·8 +0·3	6·2
25. Rayalaseema	104·0 −45·9	69	31·9 −1·0	23·5 −0·2	76 +2	56	5·8 +0·2	6·1
26. Madras State	117·0 +21·0	122	33·4 −0·2	24·5 −0·1	73 +2	66	5·4 +1·2	6·1
27. Coastal Mysore	479·1 +162·8	151	28·7 −0·1	23·8 +03	90 0	84	6·6 +0·6	6·4
28. Interior Mysore North.	175·2 +18·1	112	29·4 −0·6	21·0 +0·1	86 +6	66	6·0 +1·0	6·3
29. Interior Mysore, South.	138·2 +6·1	105	27·8 −0·6	20·1 +0·5	88 +6	71	6·5 +0·5	6·5
30. Kerala	412·3 +210·6	204	29·1 0	23·9 +0·1	90 +5	83	6·5 +0·9	6·4
31. Arabian Sea Islands.	201·8 +46·1	130	29·5 −0·1	24·9 −0·3	83 +3	82	6·9 +2·3	7·1

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

*Data of Himachal Pradesh not included.

Sub-Divisian and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, per hours			Whether phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean maximum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heards	Fog	Dust-strom	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·4	..	31·7	1	23·1	..	21·7	24,26	288·7	459·1	..	95·4	15	20	..	14·9	10·6	..	0	25	0	0	0	0	0	0	0	0	0
Long Island	29·4	..	31·7	30	23·7	..	21·7	29	328·8	547·4	..	118·8	25	21	..	6·3	3·5	..	0	22	0	0	2	0	0	0	0	2	0
Port Blair	28·5	+0·1	30·2	1	23·8	+0·6	22·2	9,24	198·1	521·7	+79·7	79·8	15	19	—2·9	20·7	16·0	—0·7	2	22	0	0	0	1	0	0	0	2	0
Carnicobar	29·4	..	30·7	22	24·0	..	22·4	29	206·4	410·2	..	65·2	11	19	..	7·1	4·7	..	1	21	0	0	3	0	0	0	0	0	0
Nancowry	29·6	..	31·2	22	24·9	..	22·5	2	90·8	403·3	..	102·8	5	13	..	8·9	7·5	..	0	17	0	0	0	0	0	0	0	0	0
Kondul	28·8	..	29·8	22	24·5	..	23·2	11	71·9	222·9	..	53·2	11	17	..	..	..	..	0	22	0	0	2	0	0	0	0	0	0
Assam (including Manipur, Tripura)																													
Pasighat	31·5	..	34·8	22	23·6	..	22·0	13	40·4	222·4	..	78·2	18	9	..	5·0	7·2	..	0	12	0	0	4	0	0	0	0	0	0
Dibrugarh (Mohanbari)	31·4	+1·6	34·2	23	23·9	+0·5	21·8	18	22·1	110·8	—241·0	35·9	18	8	—7·4	1·6	2·8	—0·3	1	15	0	0	8	3	0	0	0	0	0
Digboi (R)																													
Northlakhimpur	31·6	+0·1	34·6	10	24·0	+0·1	22·8	4	16·1	200·3	—263·0	49·0	14	10	—3·9	5·7	3·2	..	1	15	0	0	7	1	0	0	0	0	0
Sibsagar	31·6	+0·7	33·9	30	25·0	+0·4	22·9	25	17·9	155·7	—144·8	54·7	30	11	—3·8	4·4	3·2	+0·3	0	15	0	0	13	0	0	0	0	0	0
Gohpur	33·2	..	34·3	6days	22·2	..	21·1	5days	0	109·8	..	59·0	14	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Mazbat	..	..	..	..	..	..	..	..	10·0	133·9	..	79·2	5	7	..	(c) 4·5	(c) 1·7	..	0	9	0	0	2	0	0	0	0	0	0
Jorhat (Aerodrome)	32·0	..	34·6	4	24·6	..	22·9	30	13·9	147·1	..	49·3	25	8	..	..	..	..	0	12	0	0	6	0	0	0	0	0	0
Tangla	33·9	..	37·2	2	24·3	..	21·8	27	22·0	89·5	..	27·0	14	6	..	3·6	1·4	..	0	6	0	0	0	0	0	0	0	0	0
Tezpur	32·3	+0·7	34·4	30	22·5	—2·2	21·1	22	0·7	87·9	—122·4	22·6	14	7	—5·7	6·0	4·4	+2·1	0	13	0	0	6	0	0	0	0	0	0
Golaghat	32·5	..	..	..	24·3	..	..	..	..	(b) 52·0	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Rangia	33·6	..	36·7	14	24·7	..	22·4	2	26·8	51·2	..	22·7	14	5	..	(c) 6·5	(f) 4·2	..	0	5	0	0	1	0	0	0	0	0	0
Chaparmukh	33·4	..	36·1	30	25·5	..	23·8	15,16	0	141·6	..	56·6	4	5	..	6·2	4·7	..	0	5	0	0	0	0	0	0	0	0	0
Gopalpara	33·3	..	35·6	30	25·5	..	23·0	28	12·0	45·2	..	27·0	14	3	..	1·4	0·8	..	0	4	0	0	0	0	0	0	0	0	0
Gauhati.	33·1	+1·2	35·0	30	25·6	+1·0	24·3	23,25	..	24·9	—142·5	8·0	5	4	—5·3	..	0	—2·1	0	6	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	32·6	+0·7	33·9	29,30	25·1	+0·9	21·7	15	8·4	25·2	—142·2	16·7	5	3	—6·3	7·1	4·9	..	1	6	0	0	13	0	0	0	0	0	0
Dhubri (Rupsi)	32·4	..	34·7	3	24·9	..	22·3	27	103·5	163·7	..	44·8	23	6	..	6·1	3·7	..	0	9	0	0	15	2	0	0	0	0	0
Dhubri	31·3	+1·5	33·6	5	26·1	+0·9	23·3	23	47·6	83·8	—272·3	47·6	23	4	—8·5	(d) 7·1	(c) 5·8	+0·5	0	5	0	0	3	0	0	0	0	0	0
Lumdihg	33·5	+2·1	35·3	10	26·0	+2·0	21·7	26	28·3	97·9	—89·6	64·0	26	7	—3·8	3·0	1·7	..	0	8	0	0	7	0	0	0	0	0	0
Tura	29·8	..	32·9	9	20·4	..	18·6	27	267·7	338·5	..	71·4	13	12	..	4·5	4·0	..	1	14	0	0	0	0	0	0	0	0	0
Haflong	29·4	..	31·8	19	21·8	..	20·5	11	28·1	55·3	—196·7	18·2	6	6	—6·9	..	..	..	0	13	0	0	5	2	0	0	0	0	0
Silchar (Kumbhirgram)	32·9	..	36·1	9	24·1	..	22·6	6	34·7	259·8	..	48·8	6	12	..	5·4	5·2	..	2	14	0	0	12	0	0	0	0	0	0
Silchar	31·8	—0·3	35·2	13	25·1	+0·5	22·8	6	22·0	249·2	—139·9	47·0	17	14	—2·2	2·3	1·4	—0·7	0	14	0	0	12	0	0	0		0	0
Imphal (Tulihal)	30·4	+1·6	32·0	20	21·0	+0·5	19·3	9	16·4	17·5	—118·2	6·4	26	3	—8·0	6·2	3·5	—0·9	1	7	0	0	10	1	0	0	0	0	0
Kailashahar	33·0	..	35·5	9	24·7	..	22·7	17	28·2	212·4	..	83·8	11	12	..	2·6	1·4	..	0	14	0	0	16	3	0	0	0	0	0
Agartala	32·2	+0·8	35·3	9	24·8	+0·3	23·7	28	82·9	77·3	—205·7	30·3	3	7	—6·7	4·0	5·4	—1·0	2	13	0	0	15	3	0	0	0	0	0
SUB-HIMALAYAN West Bengal																													
Baghdogra	32·0	+0·3	34·4	21	23·6	—0·3	21·7	24	60·7	308·8	—124·9	85·0	14	14	—0·2	6·9	(j) 6·0	+0·9	0	18	0	0	12	2	0	0	0	0	0
Jalpaiguri	29·9	—1·3	32·7	3	24·9	+0·5	23·7	16	36·2	385·8	—153·2	94·0	5	12	—4·4	9·7	6·8	+4·4	0	15	0	0	13	0	0	0	0	0	0
Cooch Bihar	32·3	..	34·2	3,10	24·7	..	22·6	22	131·6	231·5	—365·9	66·5	12	7	—10·1	6·2	4·0	..	0	14	0	0	14	3	0	0	0	1	0
Balurghat	32·9	..	35·0	9	24·2	..	22·2	22	141·6	184·2	..	60·4	16	8	..	7·0	5·2	..	2	9	0	0	0	0	0	0	0	0	0
Malda	32·0	+0·3	34·4	9	26·1	+0·4	24·4	22,23, 27	121·0	228·4	—64·2	50·6	1	9	—2·6	8·7	6·7	+0·4	0	12	0	0	8	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	32·4	+0·4	34·5	3	24·6	—1·3	..	..	28·0	112·0	—120·2	19·6	23	11	—0·5	5·0	3·2	—0·8	0	15	0	0	1	0	2	0	0	0	0
Suri	31·8	..	33·8	6	25·4	..	23·8	22	..	224·4	..	84·0	6	8	..	..	7·0	..	0	10	0	0	2	0	0	0	0	0	0
Asansol	31·7	—0·5	34·4	21	25·3	+0·3	23·2	30	95·1	173·9	—35·6	50·3	22	10	—0·7	9·9	7·7	+1·3	0	12	0	0	9	0	0	0	0	0	0
Shanti Niketan	31·8	..	34·0	6	25·4	..	23·1	6	70·3	218·2	..	87·6	22	7	..	6·5	4·8	..	3	12	0	0	13	0	0	0	0	0	0
Krishnanagar	32·8	+0·5	35·0	3,7,15	25·5	—0·1	21·7	23	102·7	174·3	—27·9	59·0	22	10	—1·2	4·0	3·5	—1·0		13	0	0	9	0	0	0	0	0	0
Purulia	31·4	0	35·4	1	24·7	+0·4	22·4	30	68·0	225·0	—44·2	133·6	22	9	—4·0	4·3	3·4	—1·4	0	14	0	0	2	0	0	0	0	0	0
Bankura I	32·7	..	35·2	6	..	..	..	..	103·5	193·2	—6·7	57·0	23	8	—3·0	3·2	2·7	..	0	14	0	0	0	0	0	0	0	0	0
Burdwan	32·4	+0·2	34·3	2	25·8	—0·1	23·0	29	101·7	156·9	—66·6	64·4	22	8	—3·3	(b) 23·0	9·2	+6·3	0	11	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	31·9	..	34·0	3	..	..	..	..	137·2	249·1	..	103·6	22	12	..	..	..	..	0	16	0	0	16	6	0	0	0	0	0

(b)—Mean of 29 days (c)—Mean of 28 days (d)—Mean of 27 days (j) Mean od 21 days (f)—Mean of 25 days. (i)—Total for 19 days. (R)—Register not received.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetre					No. of rainy days (2.5 mm. or more)		Wind speed, per hour			Whether phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-strom	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*Contd.*																													
Calcutta (Dum-Dum)	32·2	+0·3	34·0	26	25·5	—0·4	23·6	23	140·3	280·3	—6·1	109·1	22	13	—0·4	9·7	7·2	—1·2	0	16	0	0	11	0	0	0	1	0	0
Calcutta	32·5	+0·3	34·4	8	26·1	+0·5	22·8	23	81·7	228·1	—24·6	95·7	22	11	—2·2	9·9	6·5	+2·0	1	13	0	0	17	0	0	0	0	4	0
Midnapore	32·0	—0·1	37·4	20	25·5	—0·1	23·4	23	96·0	316·4	+100·3	117·0	22	11	—0·9	7·2	5·6	+2·5	0	15	0	0	0	0	0	0	0	0	0
Contai	31·0	—0·1	33·2	8	26·0	+0·1	22·3	23	195·9	519·4	+174·6	118·1	22	9	—5·1	10·6 (b)	9·0	+0·8	0	12	0	0	0	0	0	0	0	0	0
Sagar Island	30·3	—0·6	32·2	8	26·6	+0·2	18·4	22	208·2	368·1	+105·2	78·8	22	16	+3·1	18·0	18·0	+4·5	0	19	0	0	6	0	0	0	0	1	0
Sandheads	31·8	..	35·2	15	27·3	..	23·7	11	170·0	226·1	+104·4	80·2	21	11	+2·6	..	..	..	0	14	0	0	2	0	0	0	0	0	0
Orissa																													
Baripada	31·9	..	34·2	2	25·0	..	23·4	21	234·8	370·8	..	86·6	22	13	..	3·2	1·9	..	0	19	0	0	9	1	0	0	0	0	0
Jharsuguda	31·7	+0·4	33·9	16	24·5	+0·1	22·3	30	38·8	154·5	—101·2	36·8	15	12	—1·1	10·0	7·5	+0·3	1	15	0	0	13	1	0	0	0	1	0
Keonjhargarh	29·7	..	32·6	2	22·8	..	20·4	7	79·1	177·3	..	29·4	10	10	..	7·1	5·4	..	0	15	0	0	2	0	0	0	0	0	0
Balasore	31·2	—0·4	33·5	2	25·7	+0·1	23·7	23	103·9	363·4	+82·5	69·6	10	14	+1·1	9·9	7·2	+3·2	0	19	0	0	9	0	0	0	0	0	0
Sambalpur	32·7	+1·2	34·3	2	24·7	—0·2	21·7	16	67·9	188·9	—41·0	47·1	16	10	—1·4	8·1	6·3	+1·8	0	13	0	0	3	0	0	0	0	0	0
Angul	31·7	+0·1	33·7	7	25·0	+0·3	22·6	30	70·6	146·6	—40·1	40·6	18	11	—0·1	9·8	6·2	+0·1	0	13	0	0	0	8	0	0	0	0	0
Cuttack	32·7	+0·5	35·1	2	26·0	+0·6	24·4	10	132·2	228·2	—19·7	49·6	10	12	—0·6	7·9	5·7	+2·8	0	14	0	0	6	0	0	0	0	0	0
Chandbali	31·4	—0·2	33·9	1	25·2	—0·5	22·8	21	26·4	162·8	—63·8	45·2	9	10	—4·1	11·5	8·5	+0·3	0	15	0	0	0	0	0	0	0	0	0
Bolangir	32·6	..	35·5	15	24·6	..	23·2	13,18	147·6	203·8	..	79·0	3	8	..	8·9	7·2	..	0	13	0	0	0	0	0	0	0	0	0
Phulbani	30·1	..	32·3	6,7	22·8	..	20·3	27	106·6	139·5	..	26·0	18	11	..	3·6	2·8	..	0	19	0	0	0	0	0	0	0	0	0
Titlagarh	32·4	..	33·9	2,6,7	24·1	..	22·3	26,27	111·0	238·6	..	67·2	2	12	..	(c) 4·0	(c) 3·6	..	0	18	0	0	0	0	0	0	0	0	0
Bhubaneswar	31·8	+0·4	33·9	7	25·5	+0·4	23·4	21	171·6	305·8	+0·8	89·4	10	13	—0·4	13·6	9·8	—1·1	0	15	0	0	13	1	0	0	0	0	0
Puri	31·5	+0·1	33·5	30	27·3	+0·8	25·2	10	119·6	227·2	—2·7	81·4	9	9	—3·1	19·8	19·7	+6·7	0	11	0	0	7	0	0	0	0	0	0
Gopalpur	31·4	0	33·2	26	25·9	+0·1	23·6	30	155·3	327·8	+137·8	130·6	9	9	—0·5	17·5	14·4	+3·9	0	10	0	0	13	0	0	0	0	0	0
Koraput	..	..	..	..	..	..	..	..	104·8	189·2	—45·1	37·5	15	9	—4·9	..	..	..	0	10	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	31·9	+0·2	33·9	6,9	24·9	+0·1	23·8	4 days	70·7	132·1	—111·5	52·0	23	7	—5·5	9·4	6·7	+3·6	1	13	0	0	1	0	0	0	0	0	0
Daltonganj	31·9	—0·2	34·6	15	24·3	+0·2	21·5	23	166·2	293·8	+112·4	88·2	23	7	—2·3	8·5	6·2	+1·7	0	17	0	0	2	0	0	0	0	0	0
Hazaribagh	28·9	—0·4	31·7	21	22·1	—0·3	19·7	30	111·7	217·7	—9·4	68·4	22	10	—1·5	12·1	9·7	+1·2	0	16	0	0	10	2	0	0	0	0	0
Dhanbad	31·5	..	33·9	21	24·3	..	22·4	24	39·0	105·2	..	35·2	22	7	..	9·7	7·3	..	1	11	..	0	4	0	0	0	0	0	0
Ranchi	29·8	+0·9	37·9	14	22·1	—0·1	20·4	23	100·7	279·2	+43·0	77·6	21	12	—0·3	7·4	5·4	—1·0	0	13	0	0	1	0	0	0	0	0	0
Ranchi Aerodrome	28·7	..	31·0	6	22·2	..	19·7	30	..	189·1	..	53·5	21	11	..	(p) 12·7	10·6	..	0	15	0	0	8	0	0	0	0	0	0
Jamshedpur	32·5	+0·3	35·5	2	25·3	0	23·6	22	146·0	273·8	+93·2	94·8	22	11	—0·2	9·1	7·0	+2·0	1	14	0	0	9	0	0	0	0	1	0
Jamshedpur (P.B.O.)	31·7	..	33·9	2,6	24·7	..	22·9	27	87·5	226·7	..	71·5	22	11	..	10·1	7·2	..	1	13	0	0	14	0	0	0	0	0	0
Chaibasa	31·6	—0·2	33·6	16	24·5	+0·1	22·5	21	79·0	208·8	+7·9	59·6	2	11	—0·6	5·0	3·0	+0·4	0	12	0	0	3	0	0	0	0	0	0
Bihar Plains																													
Motihari	30·1	—1·9	..	..	25·0	0	22·3	25	20·0	81·0	—148·9	30·0	23	6	—3·1	..	..	..	0	7	0	0	0	0	0	0	0	0	0
Forbesganj	33·3	..	36·2	21	25·0	..	22·9	16	64·6	297·6	..	1050	15	11	..	10·0	7·1	..	0	15	0	0	13	1	0	0	0	0	0
Darbhanga	32·5	+0·7	35·6	21	24·7	—1·1	22·2	12	28·8	131·0	—103·7	54·9	23	7	—2·4	8·2	9·7	+5·5	0	7	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	245·6	+25·9	71·6	23	10	+0·5	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Chapra	32·6	..	35·5	7	25·3	..	23·1	24	129·4	330·5	+140·5	113·0	24	9	+0·3	10·8	6·6	..	1	10	0	0	2	0	0	0	0	0	0
Purnea	32·2	+0·5	34·4	10	25·0	—0·2	23·3	27,28	47·9	250·9	—43·7	78·6	7	11	—0·5	7·6	4·7	+1·6	1	12	0	0	6	0	0	0	0	0	0
Patna	32·3	+0·2	35·8	21	26·1	0	23·6	25	67·2	148·0	—70·4	69·2	23	8	—1·2	8·6	7·9	+2·6	1	12	0	0	1	0	0	0	0	0	0
Patna Aerodrome	31·8	..	34·3	5	25·5	..	22·8	26,27	63·0	177·6	..	55·8	23	11	..	10·1	6·7	..	0	16	0	0	6	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	126·8	—81·2	81·8	23	4	—5·5	..	..	..	1	6	..	..	..	..	..	..	..	..	..
Bhagalpur	32·9	+0·4	35·3	5	25·8	—0·1	23·2	21	59·3	234·2	—11·4	194·7	23	5	—5·9	10·1	7·2	+1·2	0	10	0	0	12	0	0	0	0	0	0
Sabaur	32·1	+0·3	33·9	4	24·9	—0·8	22·8	22	69·4	261·0	+48·7	189·6	23	7	—2·8	12·0	8·8	+1·6	0	10	0	0	12	0	0	0	0	0	0
Jamui	31·4	..	34·3	6	25·7	..	23·9	30	118·5	279·0	..	75·9	23	11	..	7·0	5·0	..	0	12	0	0	0	0	0	0	0	0	0
Dehri	31·2	..	33·6	14,21	25·0	..	22·3	26	69·0	203·6	+15·9	79·4	23	15	+6·1	6·5	6·6	..	0	15	0	0	2	0	0	0	0	0	0
Gaya	31·7	—0·8	34·3	6,21	25·1	0	22·0	30	127·6	275·6	+85·1	105·0	23	9	—0·3	11·0	8·8	+1·6	1	11	0	0	13	0	0	0	0	2	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich	31·4	—1·5	34·2	3	24·6	—0·1	19·3	26	122·0	373·4	+155·5	145·6	26	10	+2·7	10·3	7·1	+3·9	0	17	0	0	10	0	0	0	0	0	0
Nautanwa	33·8	..	38·4	21	..	..	..	..	36·6	147·0	..	41·6	16	9	..	8·9	5·5	..	0	10	0	0	0	0	0	0	0	0	0
Bardoi	32·1	—1·0	35·0	16	24·4	—0·6	18·4	30	223·9	322·7	+137·1	99·6	8	11	+4·4	10·7	6·8	+1·0	0	16	0	0	2	0	0	0	0	0	0
Gonda	30·9	—1·9	33·4	4 days	25·0	—0·1	20·6	30	189·0	367·9	+135·7	93·2	15	13	+2·8	7·1	5·1	+0·1	0	16	0	0	3	0	0	0	0	0	0

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

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East) —*Contd.*																													
Lucknow	31·9	—1·4	34·5	15	23·5	—1·2	18·8	26	91·5	211·5	+23·5	79·0	25	9	+1·1	5·6	3·9	+1·2	0	9	0	0	1	0	0	0	0	0	0
Lucknow Aerodrome	31·6	—1·7	34·1	15	24·0	+0·3	18·9	30	156·3	287·1	+99·1	76·4	25	8	+0·1	13·7	10·6	..	0	16	0	0	7	0	0	0	0	0	0
Faizabad	31·2	..	33·8	6	24·7	..	20·7	26,30	138·3	244·7	..	5·77	12	19	..	5·0	3·4	..	0	10	0	0	23	0	0	0		0	0
Gorakhpur	32·6	+0·2	35·4	21	24·4	—0·7	20·5	26	75·9	228·5	+12·1	68·0	1	11	+1·7	..	..	..	0	14	2	6	15	1	2	0	4	0	0
Kanpur	31·7	—1·0	33·9	10	24·1	—0·5	19·9	26,30	51·8	106·4	—66·1	21·0	22	10	+2·7	14·7	10·4	+2·2	0	11	0	0	0	0	0	0	0	0	0
Kanpur Aerodrome	31·7	..	33·8	3	24·8	..	20·6	26	92·3	154·7	..	48·3	17	9	..	..	..	..	0	9	0	0	7	0	0	0	0	0	0
Sultanpur	31·1	..	33·5	5	24·8	..	20·5	24	20·6	306·8	..	97·0	17	11	..	7·6	5·5	..	0	11	0	0	6	0	0	0	0	0	0
Azamgarh	30·9	..	33·9	5	22·9	..	18·9	26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fatehpur	31·6	—1·2	34·0	10	24·3	—0·5	19·2	30	92·0	211·6	..	53·2	25	11	+2·4	8·5	5·7	+1·4	0	15	0	0	1	0	0	0	0	0	0
Ballia	32·5	..	35·0	22	24·4	..	20·5	23	37·8	234·4	..	95·8	23	9	..	3·1	2·5	..	0	11	0	0	0	0	0	0	0	0	0
Banda	34·0	..	36·6	4,11	22·6	..	18·7	30	41·2	162·4	..	29·2	24	10	..	4·2	3·0	..	0	13	0	0	0	0	0	0	0	0	0
Allahabad Baruta uli	32·1	—1·0	35·6	15	24·6	—0·2	20·0	26	108·5	352·6	+140·3	872·	4	10	+0·5	8·6	5·8	—0·2	0	17	0	0	11	0	0	0	0	0	0
Varanasi Babatpur	31·5	—0·8	34·1	6,21	25·0	—0·4	20·6	26	108·0	325·8	+64·8	94·0	23	10	0	14·7	11·0	+2·3	1	15	0	0	9	0	0	0	0	0	0
Varanasi	31·7	—1·1	35·3	21	24·8	—0·4	20·5	26	198·8	346·8	+163·4	95·2	23	12	+3·3	8·5	6·0	+1·5	0	13	0	0	2	0	0	0	0	0	0
Uttar Pradesh West																													
Mukhim (R)																													
Tehri (R)																													
Dehra Dun	29·0	—0·3	31·4	6,20	19·8	—1·0	14·7	29,30	150·6	491·2	+221·5	115·0	8	12	+1·1	5·0	3·9	+1·3	0	16	0	0	16	0	0	0	0	0	0
Roorkee	32·1	—0·4	36·6	20	23·6	+0·8	16·9	30	125·5	199·5	+37·7	61·0	21	9	+3·0	8·4	6·3	+3·6	0	1	0	0	0	3	0	0	0	0	0
Mansiari (R)																													
Najibabad	32·3	..	34·8	6	22·9	..	15·6	30	31·0	177·9	..	63·2	22	8	..	6·1	5·0	..	0	8	0	0	11	0	0	0	0	0	0
Meerut	32·4	—0·8	35·6	6	24·1	+0·4	19·4	29,30	..	366·0	+217·2	100·0	9,14	6	+0·9	..	11·0	..	0	8	0	0	0	0	0	0	0	0	0
Bareilly	31·9	—0·8	34·5	5	24·4	+0·1	18·3	30	113·8	30·0	+139·5	122·8	22	11	+4·2	10·4	6·7	+4·1	0	14	0	0	3	0	0	0	0	0	0
Aligarh	32·3	—1·2	35·6	6	24·1	—0·3	16·7	30	113·6	236·6	+102·0	49·4	22	10	+3·9	15·3	12·3	+6·0	0	11	0	0	1	0	0	0	0	0	0
Mainpuri	32·7	—1·1	35·1	21	25·5	+1·3	19·2	30	89·5	159·9	+30·6	42·1	22	9	+2·6	3·9	2·6	—0·1	1	14	0	0	0	0	0	0	0	0	0
Agra	32·7	—1·1	41·0	24	24·2	—0·4	18·0	30	36·5	181·9	+65·6	58·0	22	8	+2·4	3·0	4·1	—1·4	0	8	0	0	0	0	0	0	0	0	0
Agra Aerodrome	32·7	..	35·5	11	23·0	..	16·4	30	131·6	148·3	..	41·7	7	9	..	..	..	..	0	11	0	0	9	0	0	0	0	0	0
Orai (R)																													
Jhansi	32·6	—0·6	35·0	21	25·1	+1·0	22·9	25	81·6	104·0	—45·9	23·3	8	9	+2·0	5·8	4·1	—0·7	(a) 0	(b) 10	0	0	0	0	0	0	0	0	0
Punjab (India) (including Delhi)																													
Pathankot	29·9	—2·9	34·4	4	20·5	—1·9	15·6	30	88·9	205·2	+33·9	70·2	22	8	+0·5	7·7	5·9	—1·0	0	12	0	0	7	0	0	0	0	0	0
Amritsar (Rajasansi	31·9	—2·5	36·6	4	23·1	—0·3	16·9	30	139·9	474·4	+379·3	308·4	22	11	+7·2	10·4	8·1	+1·0	0	13	0	0	8	0	0	0	0	3	0
Adampur Aerodrome	..	..	..	..	22·5	..	15·7	30	212·9	341·5	..	123·7	12	10	..	..	..	..	0	11	0	0	7	2	0	0	0	0	0
Ludhiana	31·7	—3·2	37·1	4,5	22·5	—1·3	15·2	30	412·6	609·7	+509·4	254·4	10	10	+6·2	5·8	3·5	+1·6	0	10	0	0	3	0	0	0	0	0	0
Ferozepore	32·1	..	37·4	4	21·6	..	16·2	30	174·0	310·8	..	164·8	22	10	..	4·6	2·8	..	0	10	0	0	2	0	0	0	0	0	0
Halwara Aerodrome	30·9	..	36·2	7	23·0	..	17·5	30	283·7	..	..	..	..	..	..	..	..	..	..	..	0	0	9	0	0	1	0	0	0
Chandigarh	31·7	—0·8	36·5	6,7	22·2	0	16·7	30	417·8	719·3	+492·9	171·6	21	12	+5·3	7·3	5·4	..	0	12	0	0	0	0	0	0	0	0	0
Ambala	32·7	—1·7	37·5	4	23·1	—0·2	18·2	30	236·4	653·2	+523·4	196·6	21	9	+4·3	..	..	..	0	10	0	0	0	0	0	0	0	0	0
Ambala Aerodrome	31·4	..	36·0	4	22·7	..	16·2	30	276·3	722·4	..	233·5	21	11	..	..	..	..	0	13	0	0	0	8	0	0	0	0	0
Patiala	31·5	..	37·2	4	23·6	..	17·1	30	235·2	446·4	+223·6	1224·6	21	9	+3·0	9·8	6·9	..	0	9	0	0	3	0	0	0	0	0	0
Bhatinda	32·1	..	36·9	4	23·2	..	16·7	30	..	354·6	..	125·0	11	8	..	6·2	3·9	..	0	9	0	0	0	0	0	0	0	0	0
Karnal	32·1	..	36·0	7,8	23·4	..	17·0	30	234·0	386·0	..	250·0	21	6	..	..	..	..	0	7	0	0	0	0	0	0	0	0	0
Hissar	33·5	—2·4	37·9	7	22·7	—0·9	16·0	30	65·1	180·0	+108·6	61·8	21	5	+1·9	8·2	6·2	—0·4	0	7	0	0	1	2	0	0	0	0	0
New Delhi (Safdarjung	32·9	—0·8	36·2	5	23·7	—0·6	17·3	30	94·7	183·1	+60·2	56·6	14	8	+3·4	11·5	8·9	—0·1	0	9	0	0	8	0	0	0	0	3	0
Palam Aerodrome	32·7	..	35·7	5,6	23·3	..	15·0	30	103·9	170·3	..	58·1	14	8	..	..	..	..	0	9	0	0	4	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	29·0	—0·9	33·1	8	18·9	—0·4	14·9	29	111·2	305·9	+82·5	87·4	21	16	+3·1	0	0	—1·9	0	18	0	0	4	2	0	0	0	0	0
Bilaspur	(b) 30·1	..	..	..	(b) 20·4	..	..	..	..	..	..	..	..	..	..	..	0	..	0	..	..	..	..	..	..	..	..	..	..

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

Sub-Division and stations	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 mm. or 0·2mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir																														
Misgar (R)																														
Gilgit (R)																														
Skardu (R)																														
Dras	..	..	..	..	..	..	..	..	..	41·2	+23·7	12·6	28, 30	4	+2·7	..	..	..	0	6	1	0	0	0	0	0	0	0	0
Sonamarg	..	..	..	..	..	..	..	..	..	231·4	+153·9	72·5	22	13	+5·9	..	..	..	0	16	1	0	0	0	0	0	0	0	0
Leh	20·9	0	25·3	11,12	6·6	+1·2	1·5	30	13·4	31·2	+24·3	25·2	22	1	+0·1	6·4	5·3	+2·4	0	5	0	0	0	0	0	0	0	0	0
Srinagar	25·2	—3·4	31·0	5	13·2	+1·3	7·1	30	47·7	105·4	+ ·5	27·2	22	6	+2·5	5·0	4·4	+0·9	1	8	0	0	2	0	0	0	0	0	0
Srinagar Aerodrome	24·4	..	30·0	10	13·0	..	6·1	29	30·1	92·0	..	33·7	22	6	..	..	..	..	0	7	0	0	2	0	0	0	0	0	0
Gulmarg	16·7	—0·8	24·5	10	4·8	—1·4	—2·4	29	64·1	114·6	+48·1	28·6	22	9	+3·7	7·4	4·6	—0·1	0	15	1	1	4	9	..	..	..	...	..
Qazigund (R)																														
Banihal	24·9	..	28·9	19	13·5	..	7·2	28,29	117·4	236·6	..	127·0	22	6	..	..	..	..	0	11	0	0	2	0	0	0	0	0	0
Jammu	33·3	0	38·1	2	19·6	—4·3	16·5	25,26, 30	..	32·5	—56·6	10·0	23	4	—0·1	..	5·9	..	0	4	0	0	0	0	0	0	0	0	0
Jammu Aerodrome	31·9	..	35·3	17	22·8	..	17·2	26,29, 30	115·4	242·9	..	172·8	22	7	..	..	..	..	0	7	0	0	10	0	0	0	0	0	0
Rajasthan (West)																														
Ganganagar	33·5	—2·9	38·9	6	23·5	—1·4	18·3	27	107·9	162·3	+66·9	52·3	12	7	+3·4	4·7	3·2	—1·6	0	8	0	0	1	0	0	0	0	0	0
Anupgarh (R)																														
Mahajan	36·1	..	39·0	4 days	..	..	..	..	2·5	2·5	..	2·5	21	1	..	3·1	1·7	..	0	1	0	0	0	0	0	0	0	0	0
Churu	33·9	..	38·0	4	24·1	..	16·9	30	65·1	104·9	..	71·8	21	6	..	12·2	8·3	..	0	8	0	0	5	1	0	0	0	0	0
Bikaner	35·6	—0·7	39·2	7	24·4	—0·7	18·1	30	64·3	85·2	+51·9	47·0	21	5	+2·9	6·9	5·8	—2·9	0	5	0	0	0	0	0	0	0	0	0
Nagaur	32·1	..	37·8	8	24·0	..	18·7	30	0·9	38·2	..	21·0	10	3	..	10·2	8·5	..	0	4	0	0	1	0	0	0	0	0	0
Phalodi	35·4	..	39·6	9	24·0	..	18·9	30	85·4	118·0	+93·9	56·6	13	5	+3·3	14.6	13·2	..	0	6	0	0	5	0	1	0	0	0	0
Jaisalmer	34·5	..	41·0	9	24·3	..	19·3	28	0·9	17·8	..	13·4	22	2	..	13·2	10·0	..	0	3	0	0	0	0	0	0	0	0	0
Jodhpur	34·9	+0·3	38·3	9	24·7	+0·9	18·6	28	44·0	52·3	—8·7	31·2	21	3	+0·2	11·6	8·3	3·4	0	5	0	0	5	0	0	0	0	2	0
Barmer	36·2	+1·1	41·0	8	24·4	+0·1	20·6	26	7·0	19·0	+0·5	17·0	20	1	—0·4	7·7 (g)	7·3 (c)	—1·9	0	2	0	0	1	0	0	0	0	0	0
Munabao	36·3	..	41·0	8,9	36·3	..	20·5	26,28, 29	..	..	..	..	..	..	..	11·3	8·9	..	..	..	..	..	..	..	..	..	..	..	..
Rajasthan (East)																														
Pilani	33·7	..	37·5	4,6,7	23·3	..	15·5	30	30·7	115·7	..	67·1	21	5	..	11·6	9·1	..	0	5	0	0	0	0	0	0	0	0	0
Sikar	32·4	..	35·6	7	22·0	..	13·9	30	96·8	140·1	..	70·0	10	5	..	10·2	6·0	..	0	10	0	0	0	0	0	0	0	0	0
Alwar	32·8	..	36·0	4	23·8	..	16·9	30	75·8	134·3	..	35·4	22	13	..	4·3	2·3	..	1	14	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	32·0	—1·9	35·0	7	23·1	+0·4	16·8	30	79·7	113·1	+31·3	46·4	14	7	+2·3	..	..	..	0	12	0	0	4	0	0	0	0	2	0
Dholpur	32·4	..	34·8	5	23·8	..	17·0	30	98·9	133·0	..	42·4	22	7	..	6·6	46	..	0	10	0	0	6	1	0	0	0	0	0
Ajmer	32·0	—0·2	36·0	8	23·5	—0·1	17·1	29	65·8	134·0	+65·4	49·0	21	6	+2·0	11·4	9·2	+2·6	0	10	0	0	4	1	0	0	0	0	0
Tonk	32·6	..	35·0	5,6	23·7	..	17·5	30	18·2	97·6	..	35·0	13	7	..	11·3	8·4	..	1	11	0	0	0	0	0	0	0	0	0
Bhilwara	31·3	..	33·5	8	22·6	..	17·2	30	33·7	111·6	..	26·4	21	9	..	10·3	8·0	..	0	12	0	0	3	0	0	0	0	0	0
Kota (Aerodrome	32·1	..	35·0	4,6	24·1	..	20·6	27	24·0	111·7	..	31·1	6	8	..	14·7	11·7	..	3	11	0	0	8	0	0	0	0	0	0
Kota	32·0	—1·5	34·2	5,6	20·8	—3·9	19·0	6	70·5	166·9	+47·3	36·0	20	9	+3·3	8·8	7·0	+2·8	0	12	0	0	4	0	0	0	0	0	0
Erinpura (Jawai Dam).	33·1	..	36·1	9,10	23·7	..	20·0	30	73·5	93·4	..	54·4	21	7	..	2·9	2·7	..	0	8	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam).	31·3	..	33·2	2,6	23·5	..	19 9	29	4·0	193·1	..	65·0	21	8	..	9·3	6·5	..	0	13	0	0	9	0	0	0	0	0	0
Udaipur	30·3	—0·6	32·5	4	21·3	—0·5	16·2	28	114·7	171·3	+73·5	31·4	18	9	+3·6	4·8	3·0	..	1	11	0	0	5	0	0	0	0	0	0
Jhalawar	30·9	—1·0	33·8	5	23·6	+0·7	19·1	30	56·2	167·8	+9·6	62·0	21	9	+2·1	8·2	5·6	+0·6	1	15	0	0	3	0	0	0	0	0	0
Madhya Pradesh (West)																														
Gwalior	31·8	—0·5	34·6	3,4	23·9	—0·5	18·7	30	207·4	222·0	+34·8	68·8	17	11	+3·6	11·4	7·1	..	0	15	0	0	13	0	0	0	0	0	0
Sheopur	31·7	—0·8	33·9	4	23·5	0	17·8	30	94·9	147·3	+34·9	24·2	21	13	+7·0	9·6	7·0	+0·9	0	16	0	0	8	0	0	0	0	0	0
Shivpuri	30·2	..	32·6	5	22·3	..	16·8	30	156·6	212·6	..	40·0	6, 21	10	..	10·0	7·7	..	0	12	0	0	1	0	0	0	0	0	0
Nowgong	31·9	—0·5	33·6	16	23·0	—0·7	17·0	30	59·0	184·1	+36·5	98·0	5	7	—0·2	7·9	5·4	+2·5	0	14	0	0	1	0	0	0	0	0	0
Guna	29·9	—0·7	32·5	10	22·1	+0·2	17·7	30	129·7	240·7	+1·7	53·2	21	10	+1·4	13·1	9·8	..	0	13	0	0	9	0	0	0	0	0	0
Nimach	30·1	—1·0	32·5	5	22·3	+0·5	18·8	28	63·2	223·9	+97·7	65·8	21	10	+3·7	11·7	9·5	—0·2	0	12	0	0	5	0	0	0	0	0	0
Rajgarh	30·8	..	32·7	10,22	22·4	..	18·3	30	96·3	362·0	..	65·3	21	2	..	11·2	9·0	..	0	12	0	0	0	0	0	0	0	0	0
Sagar	28·9	—1·1	31·0	9,10	20·8	—0·8	17·8	27	235·0	427·0	+234·0	173·0	7	14	+4·4	10·2	7·9	..	0	18	0	0	11	0	0	0	0	0	0
Ratlam	29·7	—0·3	31·8	3,4	21·9	—0·2	17·9	28	228·2	565·4	+302·9	266·4	21	11	+1·3	11·0	8·3	+0·4	0	17	0	0	7	0	0	0	0	0	0
Bhopal (Bairagarh)	29·5	—0·4	31·7	15	21·8	—0·1	18·6	30	112·6	387·9	+123·2	154·8	12	10	—0·2	16·0	12·7	+2·2	3	18	0	0	14	0	0	0	0	0	0

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

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 mm. or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West) (*Contd.*)																													
Ujjain	29·1	..	31·8	4	22·2	..	18·6	30	..	443·9	..	106·0	20	15	..	..	11·2	..	0	18	0	0	5	0	0	0	0	0	0
Narsinghpur	30·9	..	33·0	9	23·1	..	22·2	26	63·8	319·7	..	87·8	5	14	..	6·3	4·1	..	0	16	0	0	0	0	0	0	0	0	0
Hoshangabad	30·3	—0·1	32·4	3	22·1	—0·8	19·5	27	104·3	278·1	+65·8	51·6	12	13	+3·5	7·2	5·7	+2·3	0	19	0	0	5	0	0	0	0	0	0
Indore	28·5	—1·2	31·3	4	21·6	+0·8	17·5	29	99·2	407·4	+243·3	169·8	20	10	+1·6	19·3	15·9	..	0	17	0	0	10	0	0	0	2	0	0
Rajpur (Jhabua)	30·2	..	32·4	10	22·8	..	18·0	29,30	177·0	293·8	..	109·4	20	9	..	13·0	8·9	..	0	10	0	0	5	0	0	0	0	0	0
Chindwara	28·5	—0·5	30·7	4	21·8	+0·5	18·0	27	120·0	249·1	+53·8	76·2	19	12	+0·8	10·3	6·7	+0·3	2	15	0	0	4	0	0	0	0	0	0
Seoni	29·1	—0·3	31·1	2	22·0	+0·7	20·0	27	85·6	327·3	+109·1	125·0	11	14	+3·1	11·9	6·9	+2·1	1	19	0	0	5	0	0	0	0	0	0
Betul	27·8	—0·5	30·2	10	21·4	+0·4	17·6	27	224·4	477·2	+221·3	112·3	19	18	+6·6	9·1	6·6	+0·5	0	21	0	0	4	0	0	0	0	0	0
Khandwa	..	..	..	..	22·6	—0·2	20·0	7,29	141·8	454·8	+310·3	156·2	20	14	+6·9	14·2	9·6	+1·6	0	19	0	0	2	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	31·2	0	33·9	1	23·6	—0·2	19·7	30	94·6	241·8	+66·8	64·0	16	14	+5·1	8·8	6·7	+1·4	0	16	0	0	7	0	0	0	0	0	0
Sidhi	31·4	..	34·5	15	23·9	..	19·8	30	120·5	218·5	..	54·0	24	11	..	8·4	5·3	..	0	12	0	0	0	0	0	0	0	0	0
Umaria	30·9	+0·7	32·5	7	23·0	+0·2	19·1	30	57·7	168·1	—63·8	66·8	4	7	—3·4	8·3	5·4	+0·3	0	18	0	0	1	0	0	0	0	0	0
Jabalpur	31·1	+0·5	33·7	9	23·6	+1·2	21·6	26,27	63·3	148·4	—65·2	36·3	4	13	+3·3	8·3	5·5	+2·0	0	16	0	0	12	0	0	0	0	0	0
Ambikapur	29·9	+0·4	32·0	16	22·0	—0·1	17·2	30	60·2	125·6	—98·2	21·4	23	14	+1·6	10·3	8·1	+0·6	0	16	0	0	5	0	0	0	0	0	0
Pendra	28·8	+0·1	30·8	16	21·4	..	18·7	27,30	65·8	148·4	—32·3	29·2	19	14	+2·7	9·8	7·3	..	0	20	0	0	11	0	0	0	0	0	0
Mandla	30·2	0	32·0	10	22·0	—0·3	19·8	28,30	56·7	156·1	—53·1	23·0	19	13	+1·7	6·8	3·8	+0·7	1	17	0	0	12	0	0	0	0	0	0
Champa	31·5	0	33·0	2,16	23·9	—0·9	21·5	30	78·1	263·1	+29·0	61·4	11	16	+4·1	7·7	5·9	—0·3	1	17	0	0	15	0	0	0	0	0	0
Raigarh	32·1	+0·3	33·6	8,28	24·2	—0·5	22·2	30	91·8	452·4	+111·0	146·4	10	51	+0·3	3·7	2·6	—2·7	0	17	0	0	1	0	0	0	0	0	0
Raipur	31·3	+0·1	32·7	24	23·8	—0·1	22·4	26	43·8	104·6	—90·7	21·0	2	10	—0·3	10·7	8·6	+1·0	2	13	0	0	8	0	0	0	0	0	0
Kanker	30·5	+0·6	31·7	1,2	23·6	+0·9	20·8	26	151·4	232·7	—27·4	54·7	4	10	—2·3	8·3	6·5	+0·7	0	13	0	0	5	0	0	0	0	0	0
Jagdalpur	29·7	+0·1	31·7	8	22·5	+0·6	19·8	26	124·5	187·7	—76·	63·9	19	14	+0·	6·9	4·9	..	2	19	0	0	14	3	0	0	0	0	0
Gujarat Region																													
Deesa	33·7	..	37·1	11	23·7	..	18·0	30	31·8	61·3	..	29·2	21	3	..	9·9	7·8	..	0	7	0	0	0	0	0	0	0	0	0
Radhanpur	34·5	..	37·5	9,10, 11	23·6	..	18·3	29	12·0	63·	..	38·3	21	3	..	8·8	6·4	..	0	5	0	0	0	0	0	0	0	0	0
Idar	31·9	..	34·7	10	23·6	..	20·2	28,30	8·8	142·5	..	57·0	14	4	..	9·4	6·3	..	0	11	0	0	0	0	0	0	0	2	0
Ahmedabad	33·0	—0·7	36·0	11	24·0	—0·1	19·4	27,30	35·9	169·9	+64·2	60·1	21	8	+2·8	7·2	5·6	—1·6	0	14	0	0	6	0	0	0	0	0	0
Dohad	..	..	..	..	22·1	—0·7	17·5	28	102·0	222·8	+47·2	90·0	21	6	—1·0	21·8	15·6	—1·3	0	6	0	0	1	0	0	0	0	0	0
Baroda Aerodrome	32·6	..	35·2	11	24·4	..	20·7	30	30·6	190·0	..	135·0	20	8	..	9·8	8·2	..	0	9	0	0	3	0	0	0	0	0	0
Baroda	33·1	+0·5	35·6	4	24·8	+0·7	21·3	30	29·2	165·0	—10·0	103·4	20	8	+1·1	5·1	2·8	—2·0	0	10	0	0	4	0	0	0	0	0	0
Broach	32·2	—0·5	35·4	30	24·3	—0·2	21·0	30	156·4	243·5	+35·8	103·0	19	9	+1·4	9·0	7·2	—0·4	0	14	0	0	2	0	0	0	0	0	0
Surat	32·2	+0·7	35·4	30	24·9	+0·5	22·0	27	60·7	203·3	+56·0	51·4	20	11	+3·6	9·8	8·8	+2·7	0	16	0	0	4	0	0	0	0	0	0
Saurashtra & Kutch																													
Bhutakia Bhimasar (R) Naliya	31·3	..	..	..	23·4	..	18·0	28,29	9·5	126·4	..	95·6	11	4	..	14·8	9·3	..	2	5	0	0	2	0	0	0	0	0	0
Bhuj (Rudramata)	33·2	—0·2	37·3	10	23·8	+0·1	17·9	27	27·9	60·1	+14·1	29·6	11	3	+0·8	16·2	11·9	—2·1	0	5	0	0	2	0	0	0	0	0	0
Kandla	34·1	..	37·6	11	23·4	..	18·3	27	16·2	47·4	..	29·0	11	4	..	23·9	20·0	..	0	6	0	0	4	0	0	0	0	0	0
New Kandla	32·8	..	35·7	10	25·5	..	22·7	27,28	14·5	35·0	..	17·8	11	4	..	23·9	21·5	..	0	0	6	0	0	4	0	0	0	1	0
Mandvi	30·8	+0·3	33·4	11	25·7	+0·3	..	..	8·0	69·0	—35·4	57·0	10	3	—3·2	(b) 26·6	26·8	+0·3	0	4	0	0	0	0	0	0	1	0	0
Surendranagar	34·1	+0·9	35·9	11	24·7	+0·4	21·7	27	26·3	93·9	—42·8	35·5	19	6	—1·3	13·9	12·8	—0·5	0	7	0	0	4	0	0	0	0	0	0
Jamnagar Aerodrome)	32·7	+0·8	35·8	11	24·0	+0·4	19·4	28	8·4	68·9	+12·3	62·2	11	2	—0·7	..	..	..	0	4	0	0	2	0	0	0	0	1	0
Dwarka	30·2	+0·6	31·7	10	..	..	..	..	10·6	87·0	+49·7	72·2	11	3	+1·0	18·1	17·1	+3·4	0	3	0	0	1	0	0	0	0	0	0
Rajkot	33·2	+0·9	36·0	11	22·6	+0·1	19·2	28	54·2	70·0	—87·3	36·7	11	4	—2·1	22·2	18·3	+0·9	0	9		0	3	0	0	0	0	0	0
Bhaunagar Aerodrome	33·4	—0·2	35·5	5	24·6	+0·5	21·0	30	5·1	62·3	—35·7	26·2	20	6	+0·3	21·7	19·4	+5·4	0	13	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	30·2	..	32·3	30	24·8	..	21·3	28	48·2	125·7	..	91·5	11	6	..	19·2	14·0	..	0	7	0	0	2	0	0	0	0	0	0
Porbander	30·2	+0·4	32·4	30	25·7	+0·6	22·8	28	62·6	167·8	+78·4	131·4	11	6	+·2	13·4	12·7	—1·3	0	7	0	0	0	0	0	0	0	0	0
Keshod	31·1	..	33·6	30	23·2	..	19·8	28	138·0	203·2	..	166·8	11	6	..	23·0	15·8	..	1	10	0	0	3	1	0	0	0	0	0
Mahuva	31·5	..	33·6	4,6	..	..	..	..	39·9	21·32	..	99·9	10	9	..	13·2	9·8	..	1	10	0	0	0	0	0	0	0	0	0
Veraval	30·2	..	32·7	30	24·7	..	21·3	11	182·5	317·7	+254·4	222·2	11	8	+4·1	18·8	17·0	..	0	11	0	0	2	0	0	0	0	1	0

(b)—Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (25 mm. or more)		Wind speed, km. per hour			Whether phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean maximum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 mm. or 0·2 mm	Precipitation (0.3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Konkan																													
Dahanu	29.8	+0.3	31.0	15	24.9	+0.5	22.4	27	180.8	396.8	+36.5	112.5	10	12	+0.5	16.7	14.5	−1.8	0	17	0	0	0	0	0	0	1	0	0
Bombay (Santacruz)	29.9	+0.4	31.2	30	23.6	+0.2	21.6	25	170.8	590.3	+192.8	212.4	10	22	+9.4	14.4	11.0	..	1	22	0	0	3	0	0	0	0	0	0
Bombay	30.6	+0.9	32.1	6	24.9	+0.6	23.4	28	111.0	341.3	+77.4	85.1	10	13	+0.3	7.9	6.5	−4.8	0	21	0	0	3	0	0	0	0	0	0
Alibag	29.3	+0.1	30.3	30	24.4	0	22.5	28	..	428.0	+162.1	110.6	19	15	+0.5	..	16.3	+2.1	0	20	0	0	1	0	0	0	0	0	0
Bhira	29.1	..	34.2	30	22.6	..	20.2	27	333.3	744.6	..	147.4	20	21	..	3.1	1.8	..	0	24	0	0	0	0	0	0	0	0	0
Harnai	28.8	+0.3	30.0	24,27	24.3	0	23.1	10,11	212.8	545.4	+203.2	85.8	17	19	+3.6	14.2	12.6	−0.7	0	20	0	0	0	0	0	0	0	0	0
Ratnagiri	29.2	..	30.9	14	22.7	..	20.6	10	212.4	445.0	+144.8	74.8	18	18	+5.0	12.8	10.6	..	0	23	0	0	0	0	0	0	0	0	0
Devgarh	28.9	−0.1	30.7	26	23.9	−0.2	22.0	17,18	109.0	353.8	+26.8	69.0	17	18	+1.9	15.1	14.4	−0.7	0	19	0	0	0	0	0	0	0	0	0
Vengurla	29.5	+0.2	30.8	3	23.5	0	21.4	28	90.4	369.9	+32.2	59.2	19	16	−0.2	10.7	6.4	..	1	17	0	0	2	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	31.2	..	34.0	30	23.1	..	20.6	23,27	73.5	143.8	..	44.8	9	9	..	11.2	8.9	..	0	9	0	0	0	0	0	0	0	0	0
Jalgaon	31.4	−0.5	34.6	2	22.7	−0.2	18.8	30	5.15	200.0	+46.4	34.5	17	11	+3.2	15.1	11.8	+1.0	1	18	0	0	14	0	0	0	0	0	0
Malegaon	30.9	−0.6	33.2	4.7	21.5	+0.3	17.4	29	54.3	172.3	+25.2	81.8	10	9	+1.3	11.9	8.6	−0.9	0	11	0	0	1	0	0	0	0	0	0
Deolali (Aerodrome)	28.1	..	31.8	30	20.8	..	17.4	28	51.3	176.1	..	107.2	10	5	..	14.7	11.0	..	0	8	0	0	3	1	0	0	0	0	0
Ahmednagar	29.1	−1.0	32.6	2	19.9	0	15.8	27	110.2	233.3	+67.2	83.1	10	13	+4.4	10.1	7.0	−3.0	0	15	0	0	2	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	706·4	+11.7	157.0	20	21	−0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Poona Aerodrome)	28.5	..	31.8	3	20.0	..	16.8	26	26.7	97.6	..	56.9	10	5	..	..	..	..	0	12	0	0	2	0	0	0	0	0	0
Poona	29.1	−0.1	32.6	30	20.4	−0.1	17.4	26,27	32.8	107.7	−26.7	57.7	10	4	−3.6	6.8	4.5	−6.3	5	11	0	0	0	1	0	0	0	0	0
Jeur	30.1	−1.3	33.	29,30	20.6	−0.3	17.3	27	128.6	232.3	+91.0	90.9	10	11	+3.3	11.7	10.7	−1.4	0	12	0	0	0	0	0	0	0	0	0
Baramati	30.1	−0.4	33.3	29	20.7	−0.3	17.3	26	135.4	190.6	+60.7	110.2	10	7	+0.1	14.3	11.6	−2.0	0	10	0	0	1	0	0	0	0	0	0
Sholapur	29.9	1.6	32·9	30	21.4	−0.3	19.6	26	170.3	289.7	+96.9	78.2	10	10	+0.9	11.2	8.6	−1.7	1	16	0	0	0	0	0	0	0	0	0
Miraj	29.1	0	32.8	29,30	20.2	+0.3	16.9	27	30.2	105.6	+7.1	58.0	9	6	+0.3	..	..	..	0	12	0	0	2	0	0	0	0	0	0
Kolhapur	28.1	−0.6	33.2	30	20.2	−0.3	17.3	26	30.6	72.4	−23.4	16.0	9	9	+1.1	16.8	12.4	−1.0	1	14	0	0	1	4	0	0	0	0	0
Marathwada																													
Aurangabad	29.7	−0.4	34.2	2	20.9	+0.2	17.6	27	78.2	245.2	+75.3	86.6	10	10	+1.0	16.0	12.1	+1.0	2	18	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	29.3	..	31.5	1,2	19.4	..	15.5	29	62.7	214.2	..	55.1	10	15	..	17.5	13.5	..	1	19	0	0	4	0	0	0	0	0	0
Parbhani	30.2	−0.9	32.8	2	21.5	−0.4	19.4	28	77.0	388.2	+178.8	94.8	15	14	+4.0	13.3	9.7	−0.5	0	16	0	0	5	0	0	0	0	0	0
Nander	30.3	..	33.5	30	21.9	..	20.0	29	31.3	17.0	..	65.1	17	16	..	7.4	6.5	..	0	16	0	0	0	0	0	0	0	0	0
Bir	30.1	..	32.8	29	21.3	..	19.0	28	76.6	240.3	..	59.6	9	10	..	9.7	6.4	..	0	13	0	0	15	0	0	0	0	0	0
Vidharbha																													
Gondia	31.0	+0.3	33.3	9	23.8	−0.1	21.9	26	95.5	193.4	−27.8	39.0	19	12	+0.5	6.8	4.4	−0.1	0	20	0	0	7	0	0	0	0	0	0
Nagpur (Sonegaon)	30.9	−0.4	33.5	2	22.9	−0.4	20.4	26,27	93.8	380.4	+176.9	184.4	19	13	+2.4	14.4	10.8	..	2	16	0	0	12	1	0	0	0	1	0
Amraoti	30.3	−0.9	33.9	30	22.1	−0.4	19.4	25	57.0	205.9	+5.25	63.1	19	11	+2.7	15.7	11.3	+4.4	0	17	0	0	8	0	0	0	0	0	0
Akola	30.5	−1.4	33.6	30	23.1	+0.3	20.5	25	85.3	301.3	+154.0	51.1	14	13	+5.4	12.6	9.6	+1.7	1	17	0	0	0	0	0	0	0	0	0
Bramhapuri	30.9	..	32.4	2,3,18	24.0	..	21.9	24	67.0	200.0	..	70.0	19	12	..	8.1	5.8	..	0	18	0	0	5	0	0	0	0	0	0
Buldana	28.3	+0.5	31.0	2	..	..	..	..	67.0	207.8	+1.8	74.8	4	10	+1.1	12.6	10.7	−0.4	0	13	0	0	0	0	0	0	0	0	0
Yeotmal	29.4	−0.8	32.6	2	22.1	+0.2	19.6	25	106.0	231.2	+20.0	96.2	19	11	+1.3	17.2	13.6	+1.8	1	13	0	0	4	0	0	0	0	0	0
Chanda	31.1	−0.5	33.8	2	24.1	+0.5	21.9	26	149.7	397.2	+170.9	130.9	18	15	+4.3	10.6	6.8	+1.8	3	19	0	0	12	0	0	0	0	0	0
Pusad	31.3	..	34.1	2	23.2	..	20.1	27	51.8	145.5	..	26.3	10	11	..	13.6	9.1	..	0	14	0	0	2	0	0	0	0	0	0
Sironcha	31.3	−0.3	34.4	2	24.2	−0.3	22.5	14	151.7	422.7	+218.3	70.6	19	16	+3.2	7.8	5.3	+0.8	0	20	0	0	10	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	32.0	−0.1	34.2	27	25.5	−0.3	23.7	2	129.4	262.9	+86.9	102.6	9	9	−0.1	13.3	10.6	+3.4	0	11	0	0	12	0	0	0	0	0	0
Vishakhapatnam	32.1	−0.4	34.6	27	25.6	0	24.2	16	212.2	304.3	+137.9	72.2	14	12	+2.9	16.2	10.4	+1.7	0	17	0	0	8	0	0	0	0	0	0
Kakinada	32.0	−0.4	35.2	28	25.5	−0.1	23.1	17	56.4	162.2	+5.7	58.0	9	7	−1.8	11.9	9.7	+2.9	0	9	0	0	0	0	0	0	0	0	0
Nidadavole	31.4	..	34.1	27	25.1	..	22.9	14	69.8	219.6	..	48.0	9	11	..	11.0	9.0	..	0	13	0	0	5	0	0	0	0	0	0
Rentachintala	33.1	−1.2	36.0	29	24.5	−0.7	22.6	30	80.8	254.4	+133.5	90.0	9	10	+2.2	10.8	7.6	−1.9	0	12	0	0	0	0	0	0	0	0	0
Gannavaram	31.6	−0.8	34.4	26	24.8	−0.4	22.4	5	84.7	377.2	+244.3	111.8	5	12	+2.5	13.8	11.0	−0.1	0	20	.. 0	0	12	0	0	0	0	0	0
Nagajunkanda	33·1	..	35·8	27	28·2	..	22·9	17	31·8	207·9	..	82·0	30	11	..	17·9	14·2	..	0	13	0	0	6	0	0	0	0	0	0
Masulipatam	31.1	−1.4	33.7	25	24.8	−0.5	22.5	5	70.5	347.0	+185.2	117.0	9	12	+2.1	4.5	3.6	−3.6	0	13	0	0	7	0	0	0	0	0	0
Ongole	32.6	..	36.9	29	25.6	..	23.5	17	21.5	109.8	..	19.2	5	11	..	11.0	7.4	..	1	15	0	0	1	0	0	0	0	0	0
Nellore	33.3	−1.5	36.1	13	25.3	−0.4	23.3	4	40.1	166.3	+53.0	48.2	16	9	+3.1	5.3	3.5	−3.4	0	13	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	32.0	0	35.8	2	24.4	−0.1	23.1	14	146.8	286.6	+104.7	57.4	10	12	+1.5	8.6	5.9	+0.8	0	16	0	0	4	0	0	0	0	0	0
Nizamabad (R)																													

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed Km. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Totale fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground fort	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Telangana —*contd.*																													
Hanamkonda	30.9	—0.3	34.1	2	23.1	—0.5	21.7	19	71.6	211.4	+25.0	75.2	18	10	+0.9	12.4	9.1	+2·2	0	13	0	0	3	0	0	0	0	0	0
Hakimpet Aerodrome)	28.3	..	31.6	14,26	21.1	..	19.9	17	88.4	401.3	..	104.6	17	10	..	..	..	..	0	13	0	0	5	0	0	0	0	0	0
Bhadrachalam	31.7	—0.5	34.5	2	24.3	—0.1	22.6	13	76.0	329.0	+148.8	90.0	18	14	+2.4	6.6	4.6	—0.5	0	18	0	0	2	0	0	0	0	0	0
Hyderabad (Begaurpet)	29·0	—0·8	31·7	30	21·5	+0·2	20·0	25	143·9	422·5	+258·7	88·3	9	11	+1·5	18·3	14·7	+3·9	1	14	0	0	4	0	0	0	0	1	0
Khammam	31·9	..	35·4	2	24·2	..	22·6	17	79·0	315·2	..	88·0	6	15	..	7·9	4·9	..	0	17	0	0	5	0	0	0	0	0	0
Mahbubnagar	29·9	..	33·0	29	21·6	..	19·8	18	30·8	278·8	..	50·2	19	14	..	12·2	9·9	..	0	20	0	0	3	0	0	0	0	0	0
Rayalaseema																													
Kurnool	30·8	—1·4	33·9	2	22·9	—0·4	20·3	27	45·4	86·5	—64·9	19·0	14	7	—2·2	14·9	12·6	+2·8	0	17	0	0	1	0	0	0	0	0	0
Nandyal*																													
Anantapur	32·0	—0·3	34·7	30	23·3	+0·2	21·2	27	6·0	77·2	—68·1	25·4	16	9	+2·2	15·6	12·6	—0·8	0	10	0	0	2	0	0	0	0	0	0
Cuddapah	32·8	—1·4	35·7	30	24·4	—0·3	22·7	18	0	148·4	—4·8	46·0	13	8	0·3	7·7	5·4	—2·5	0	11	0	0	0	0	0	0	0	0	0
Arogyavaram	29·0	..	30·7	3	21·0	..	19·4	28	2·4	206·4	..	70·0	5	8	..	14·3	10·4	..	0	11	0	0	1	0	0	0	0	0	0
Madras State																													
Madras	33·1	..	35·0	23	25·0	..	22·2	24	..	136·2	..	42·5	5	7	..	..	8·4	..	1	14	0	0	7	0	0	0	0	0	0
Madras (Minawbakkan)	33·3	—1·1	35·4	26	24·8	—0·3	23·1	5	55·4	129·8	+10·9	24·4	30	7	+1·0	13·5	10·3	—2·6	2	15	0	0	8	1	0	0	0	6	0
Vellore	33·3	—0·1	36·0	4	23·8	—0·3	22·1	4	5·8	248·8	+74·1	87·3	4	8	—0·1	9·4	7·1	+2·1	1	10	0	0	10	0	0	0	0	0	0
Tambaram (Aerodrome)	33·9	..	36·1	26	24·8	..	22·4	28	50·0	95·2	..	32·5	14	7	..	..	..	..	0	9	0	0	8	1	0	0	0	0	0
Tiruppattur	31·9	..	33·8	25	21·6	..	19·2	20	13·1	123·5	..	55·2	26	8	..	8·2	5·4	..	0	8	0	0	0	0	0	0	0	0	0
Mettur Dam R.S.	32·6	..	33·8	4 days	24·0	..	22·1	1	6·4	117·8	..	80·3	1	6	..	6·5	5·7	..	0	10	0	0	0	0	0	0	0	0	0
Cuddalore	33·3	—0·3	35·3	20	23·9	—1·0	21·1	26	12·7	193·1	+60·8	81·7	7	10	+3·8	10·2	8·6	+2·3	1	11	0	0	5	0	0	0	0	0	0
Kallakkurichchi	33·9	..	36·2	25	24·2	..	19·9	28	4·4	49·4	—95·1	20·0	26	5	—2·6	8·7	6·8	..	1	12	0	0	1	0	0	0	0	0	0
Salem	32·3	—0·9	34·2	26,29, 30	23·5	+0·7	22·0	26	50·6	195·4	+41·2	60·0	14	7	—1·5	8·5	6·7	+1·7	0	12	0	0	8	0	0	0	0	0	0
Coimbatore (Pilamedu)	31·6	..	34·3	2	21·9	..	19·7	29	18·8	78·9	..	45·2	29	5	..	32·8	27·1	..	0	7	0	0	6	0	0	0	0	0	0
Coimbatore	31·1	—0·4	35·0	2	20·9	—0·7	19·6	6	5·8	48·0	+7·6	15·4	28	5	+1·7	17·3	13·7	+6·1	0	9	0	0	3	0	0	0	0	0	0
Nagappatinam	33·8	+0·1	35·5	8,10	25·5	+0·3	22·5	16,26	1·2	141·0	+57·2	72·8	16	3	—2·1	12·2	10·0	+2·3	1	5	0	0	4	0	0	0	0	0	0
Tiruchchirappalli	34·5	0	36·4	21	24·7	+0·1	21·8	28	11·7	193·1	+73·2	75·6	28	5	—1·0	21·5	16·5	—0·6	1	7	0	0	6	0	0	0	0	0	0
Vedaranniyam	33·3	..	35·6	30	25·8	..	22·3	26	20·0	72·4	..	23·6	26	6	..	9·1	7·4	..	0	8	0	0	2	0	0	0	0	0	0
Atirampattinam	33·1	..	36·0	30	25·2	..	22·3	15	0·4	81·8	..	34·6	1	4	..	13·7	11·5	..	0	8	0	0	10	0	0	0	0	0	0
Madurai	34·9	+0·6	37·5	24	24·7	+0·3	22·3	28	16·8	90·6	—28·8	38·6	26	6	—0·5	8·2	6·1	+1·0	0	7	0	0	2	0	0	0	0	0	0
Madurai (Aerodrome)	34·6	..	36·9	21	24·6	..	22·2	19	14·8	24·9	..	6·4	4	4	..	16·5	13·2	..	0	6	0	0	10	0	0	0	0	0	0
Tondi	32·8	..	37·3	19	25·6	..	22·5	1	5·4	101·6	..	77·0	1	4	..	18·1	14·7	..	0	6	0	0	7	0	0	0	0	0	0
Pamban	31·8	0	33·5	2	25·9	0	23·9	13	18·3	18·3	—10·7	18·3	13	1	—0·9	20·2	15·2	+2·6	0	1	0	0	0	0	0	0	0	0	0
Tuticorin	34·1	+0·2	36·9	21	25·6	—0·4	24·2	3,13,19	0	2·0	—5·5	2·0	1	0	—1·2	21·4	16·9	+0·2	0	1	0	0	0	0	0	0	0	0	0
Palayankottai	35·1	—0·3	37·8	26	25·7	—0·2	23·6	29	87·8	94·4	+67·4	38·0	29	3	+1·0	9·6	6·7	—6·5	0	5	0	0	1	0	0	0	0	0	0
Kanniyakumari	29·6	..	32·6	1	24·3	..	21·8	9	22·8	78·0	..	23·0	29	7	..	19·9	17·0	..	0	8	0	0	1	0	0	0	0	0	0
Coastal Mysore																													
Karwar	28·8	+0·4	30·0	26	24·2	+0·4	22·0	9,13,28	96·4	413·0	+121·2	57·6	6	18	+2·5	13·1	9·9	..	0	20	0	0	0	0	0	0	0	0	0
Honavar	28·3	—0·6	30·1	27	22·7	—0·5	21·4	29	84·0	564·1	+173·4	75·7	24	19	+0·8	10·5	8·5	+4·8	0	21	0	0	1	0	0	0	0	0	0
Mangalore (Bajpe)	28·6	..	30·2	27	22·9	..	21·6	22	156·9	545·4	..	78·6	19	19	..	11·8	8·3	..	0	24	0	0	1	2	0	0	0	0	0
Mangalore	29·0	—0·1	30·8	27	24·5	+1·0	23·2	6 days	106·1	460·1	+193·9	84·9	9	19	+3·5	11·2	8·3	+2·0	0	23	0	0	0	0	0	0	0	0	0
Interior Mysore North																													
Bidar	28·3	—0·6	31·8	30	20·9	—0·3	19·2	22	154·6	346·0	+129·1	98·0	18	11	0	19·1	14·5	+2·1	0	13	0	0	3	0	0	0	0	0	0
Gulbarga	29·9	—1·5	33·4	30	21·6	—0·3	19·4	26	38·8	160·2	—29·3	40·6	9	10	—0·1	16·4	12·5	+1·6	0	14	0	0	0	0	0	0	0	0	0
Bijapur	29·9	—0·9	33·6	30	21·1	+0·1	18·4	18	36·2	224·8	+84·1	65·6	9	9	+1·0	10·3	8·5	—1·2	0	13	0	0	0	0	0	0	0	0	0
Raichur	31·2	—0·6	34·0	29,30	22·3	—0·3	22·0	17	50·4	132·2	—26·0	49·6	9	7	—2·4	15·4	14·1	+2·2	0	10	0	0	0	0	0	0	0	0	0
Belgaum	27·6	+0·4	32·3	30	19·7	+1·1	16·5	26	35·4	84·2	—34·4	21·8	9	9	—0·1	9·6	8·8	—0·5	0	16	0	0	0	0	0	0	0	0	0
Belgaum (Sambra)	27·1	—0·3	30·5	30	19·5	..	16·4	27	40·2	86·3	..	19·2	2	9	..	17·7	12·7	..	1	13	0	0	0	0	0	0	0	0	0
Gadag	29·3	—0·3	33·9	29	20·6	+0·2	18·7	17,25, 26	51·4	103·7	—15·2	34·8	10	8	+1·6	12·2	10·6	—2·6	0	17	0	0	2	0	0	0	0	0	0

* Data not reliable.

Sub-Division and station	Air temperature in C°								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed km. per hour			Wheather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore South																													
Bellary	31·7	—0·8	35·0	29	23·4	+0·6	21·5	17	33·0	48·0	—75·7	20·0	2	5	—2·1	13·6	12·0	+1·9	0	7	0	0	0	0	0	0	0	0	0
Chitra Durga	27·9	—1·2	31·6	30	20·7	+0·7	19·2	1	17·1	113·2	+2·2	36·8	1	7	—0·1	10·7	10·4	+0·9	1	13	0	0	3	0	0	0	0	0	0
Shimoga	28·4	0	31·0	30	20·8	+0·3	19·7	24	93·0	138·6	+49·1	26·8	6	9	+0·5	7·4	4·6	—1·9	0	18	0	0	0	0	0	0	0	0	0
Agumbe	24·4	..	27·4	1,27,28	19·0	..	16·2	29	..	1060·7	..	133·0	19	24	..	..	..	..	0	24	0	0	0	0	0	0	0	0	0
Balehonnur	24·7	0	27·5	30	18·2	+0·1	17·3	24	..	298·0	+102·9	81·3	3	18	+2·0	..	..	..	0	25	0	0	0	0	0	0	0	0	0
Hassan	26·0	—1·2	29·5	29	18·6	+0·4	17·9	18,19, 20	12·5	42·9	—67·1	8·0	19	8	—0·1	12·9	9·7	+1·5	0	10	0	0	1	0	0	0	0	0	0
Bangalore	27·6	—0·2	30·0	30	19·4	+0·9	18·1	6	63·7	188·7	+19·5	34·4	25	11	+2·1	14·2	11·0	+1·7	2	16	0	0	7	1	0	0	0	0	0
Bangalore (Aerodrome)	27·8	..	30·5	30	18·8	..	17·3	18	95·9	242·1	..	48·5	13	13	..	..	..	..	2	18	0	0	7	0	0	0	0	0	0
Mysore	28·1	—0·9	31·3	30	19·8	+0·6	18·3	1,23	38·8	137·8	+12·1	77·0	1	7	—1·2	11·1	10·7	+1·0	1	14	0	0	3	0	0	0	0	0	0
Kerala																													
Calicut	29·2	+0·1	30·9	23,24	23·9	+0·2	21·9	13	92·6	375·0	+173·3	106·2	3	15	+3·3	11·8	11·5	+4·4	0	18	0	0	1	0	0	0	0	0	0
Palghat	29·7	..	32·2	1	23·0	..	21·0	12	120·1	291·1	..	54·0	16	15	..	14·7	11·7	..	2	24	0	0	2	0	0	0	0	0	0
Fort Cochin	28·7	+0·4	30·4	24	24·0	—0·1	22·4	6	76·5	408·0	+213·2	72·6	5	18	+4·3	16·7	11·9	+4·8	0	26	0	0	2	0	0	0	0	0	0
Cochin (Naval Air Station)	29·3	..	30·7	11	23·9	..	22·3	12	90·5	432·3	..	71·1	5	20	..	11·2	9·0	..	0	25	0	0	7	0	0	0	0	3	0
Alleppey	29·1	—0·3	30·6	24,28	23·9	+0·1	22·7	5	82·9	612·5	+316·5	215·0	12	14	—1·8	15·7	14·1	+4·3	0	21	0	0	5	0	0	0	0	0	0
Punalur	29·8	..	33·9	29	22·8	..	21·2	9	86·4	330·4	..	87·4	5	14	..	6·0	4·3	..	0	15	0	0	0	0	0	0	0	0	0
Trivandrum	29·4	—0·3	31·8	29	23·7	+0·4	21·6	9	67·3	253·8	+139·3	91·6	9	12	+3·9	14·7	9·4	+0·1	1	18	0	0	4	0	0	0	0	0	0
Trivandrum (Aerodrome)	29·4	..	32·1	29	23·6	..	21·6	9	..	263·6	..	95·4	9	12	..	..	6·4	..	1	17	0	0	2	0	0	0	0	0	0
Arabian Sea Islands																													
Amindivi*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	22·4	—0·6	25·5	4	13·7	—1·7	1·0	26,27	91·0	262·0	—4·3	78·0	22	12	+2·9	4·3	0·4	—2·1	0	16	0	0	0	5	0	0	0	0	0
Dharamsala	25·3	—0·9	28·9	25	18·1	—1·2	11·2	28	112·4	248·4	—279·5	55·4	21	13	—0·5	4·9	3·1	—0·5	0	18	0	0	6	0	0	0	0	0	0
Simla	18·7	—1·5	21·7	4	13·6	+0·1	9·6	27	146·8	383·2	+213·5	158·0	21	13	+3·7	1·5	1·5	—0·2	0	16	0	0	4	5	0	0	0	0	0
Dharampur	..	..	..	..	..	..	..	..	..	474·3	+293·7	52·3	9	12	+4·5	..	..	..	0	13	0	0	0	0	0	0	0	0	0
Lokpal	7·7	..	10·1	6	2·0	..	—2·1	30	..	392·2	..	41·8	14	24	..	..	..	..	0	25	0	3	0	30	0	0	0	0	0
Badrinath (R)																													
Joshimath	22·6	..	26·1	6,7	15·1	..	11·8	3	35·0	218·5	..	36·0	22	18	..	4·7	3·7	..	0	22	0	0	2	15	0	0	0	0	0
Mussoorie	19·4	—0·3	22·0	20	14·1	0	10·7	26,27, 28	157·5	625·5	+372·8	168·0	8	15	+2·2	8·8	7·7	+1·6	0	18	0	0	11	4	0	0	0	0	0
Mukteswar (Kumaun)	19·1	—0·7	23·3	3	12·9	+0·1	9·6	26	116·8	350·6	+149·2	13·4	22	15	+4·9	9·6	10·4	+2·4	0	23	0	0	3	21	0	0	0	0	0
Nainital	20·1	—0·8	22·3	5	13·4	—1·4	—1·1	22	91·0	597·0	+266·2	193·0	22	14	+1·5	10·0	7·1	+0·1	0	19	0	0	0	0	0	0	0	0	0
Kalimpong	25·0	+1·3	29·1	29,30	17·2	—1·6	13·4	19	115·4	166·2	—121·3	61·0	24	7	—5·7	5·5	4·4	—4·6	0	7	0	0	0	0	0	0	0	0	0
Darjeeling	19·3	+0·1	22·8	21	14·5	+0·1	13·1	25	138·8	294·8	—185·3	50·2	22	15	—2·0	2·7	2·3	0	0	21	0	0	2	6	0	0	0	0	0
Kohima	24·5	..	26·7	22	18·4	..	15·3	26	110·7	154·9	..	24·0	3	13	..	4·1	3·3	..	0	17	0	0	0	6	0	0	0	0	0
Shillong	24·0	+0·5	25·6	9,10	16·1	—0·3	13·2	25	200·7	186·6	—112·9	39·4	25	16	—1·3	4·1	3·5	+1·1	0	20	0	0	1	0	0	0	0	0	0
Cheerapunji	24·9	+2·0	26·9	24	20·2	+2·1	17·2	23,25	51·0	61·2	—1039·9	10·2	10	10	—9·2	(d) 3·3	1·8	—4·5	0	14	0	0	2	4	0	0	0	0	0
Abu	24·8	+0·3	29·4	11	15·5	—2·7	11·1	28	64·8	103·2	—134·8	53·6	21	7	—0·6	10·8	7·2	—1·5	0	11	0	0	0	2	0	0	0	0	0
Mijal	26·4	..	29·4	10	20·3	..	18·7	11	57·0	336·6	..	60·0	14	17	..	10·7	13·2	..	0	18	0	0	0	15	0	0	0	0	0
Pachmarhi	24·9	—0·4	27·8	2	18·8	—0·1	15·5	27	165·2	745·4	+385·0	225·8	19	19	+5·9	7·7	7·6	+0·5	0	24	0	0	12	17	0	0	0	0	0
Mahabaleshwar	19 9	0	24·2	30	15·6	—0·4	13·7	26	119·0	828·1	+98·1	139·6	20	20	—2·6	13·9	13·4	+0·8	1	22	0	0	0	26	0	0	0	0	0
Mercara	22·5	+0·4	26·4	26,27, 29	16·7	+0·1	15·4	6	183·8	348·8	+67·4	51·0	9	23	+4·8	14·1	12·7	+4·3	0	26	0	0	0	0	0	0	0	0	0
Dotacamund	17·9	—0·2	22·4	14	10·1	—0·5	8·0	4	69·4	136·4	—11·7	30·6	26	13	+1·0	12·4	6·8	+1·2	0	23	0	0	2	0	0	0	0	0	0
Coonoor (R)																													
Kodaikanal	17·9	+0·8	20·1	24	11·3	+0·2	9·8	18	89·2	144·7	—40·2	21·4	2	12	+0·1	12·7	13·9	+2·2	0	19	0	0	4	3	0	0	0	0	0
Nepal																													
Katmandu	28·0	..	30·1	30	18·5	..	13·2	28	19·2	84·0	..	25·4	1	8	..	1·6	1·0	..	1	15	0	0	5	0	0	0	0	0	0
Sikkim																													
Gangtok	18·1	..	20·0	7,20	10·7	..	7·5	27	..	216·9	..	27·0	15	21	..	..	..	..	1	29	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	30·4	..	33·2	6	24·1	..	21·4	26	136·0	233·6	..	101·5	22	10	..	11·6	8·4	..	0	12	0	0	0	0	0	0	0	0	0
Hazaribagh	28·6	..	31·3	6	22·0	..	19·3	30	83·0	175·9	..	67·0	22	9	..	10·2	6·1	..	0	15	0	0	7	1	0	0	0	0	0

(a) Mean of 27 days. (R) Register not received. *Data given as addenda in December 1962 issue.

Sub-Division and station	Air temperature in C								Rainfall in milimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.	Precipitation (0.3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories Damodar Catchment—*contd.*																													
Konar	..	..	..	..	..	..	..	..	57·2	163·3	..	68·8	22	12	..	..	..	..	0	15	0	0	0	6	0	0	0	0	0
Bokaro	32·0	..	34·8	1	24·3	..	21·3	30	108·9	259·2	..	105·6	22	12	..	10·0	7·7	..	3	17	0	0	7	0	0	0	0	0	0
Maithon	31·8	..	34·4	21	25·4	..	24·2	15,23, 24	53·2	107·1	..	35·1	23	6	..	..	..	..	1	8	0	0	1	0	0	0	0	0	0
Ramgarh	31·3	..	34·3	16	24·0	..	21·0	30	118·3	245·0	..	65·6	22	11	..	3·3	2·1	..	0	18	0	0	1	0	0	0	0	0	0
Panchet Hills	32·2	..	34·9	21	25·5	..	22·6	30	65·1	111·6	..	24·8	3,23	7	..	7·9	5·7	..	1	13	0	0	6	0	0	0	0	0	0
Durgapur	33·0	..	34·7	26	24·0	..	21·9	23,24	66·8	243·5	..	66·0	22	11	..	12·7	9·0	..	0	13	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	30·8	..	33·4	15	22·4	..	18·8	30	..	234·1	..	33·9	11	16	..	..	..	..	1	19	..	..	..	..	..	..	..	..	..
Hiradud	32·5	..	34·4	7	25·3	..	23·7	13	43·2	171·8	..	52·5	16	10	..	8·1	5·8	..	2	13	0	0	5	0	0	0	0	0	0
Bhimkund	30·7	..	33·3	8	23·2	..	21·6	21	90·4	184·1	..	52·0	22	8	..	6·0	2·8	..	0	18	0	0	20	1	0	0	0	0	0
Sonepur	32·3	..	33·8	1,7	24·9	..	23·0	27	..	58·8	..	16·5	13	6	..	..	4·7	..	1	13	..	..	..	..	..	..	..	..	..
Khijrawan	30·4	..	32·2	1	23·4	..	22·1	28,30	62·5	118·2	..	24·0	18	11	..	8·0	6·0	..	0	16	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	29·8	..	32·4	29	22·9	..	20·2	27	280·4	445·5	..	113·6	16	18	..	5·8	4·3	..	1	21	0	0	3	0	0	0	0	0	0
Punasa	30·3	..	32·8	14	23·4	..	20·3	29	103·3	317·4	..	126·0	20	16	..	5·9	4·7	..	0	18	0	0	0	0	0	0	0	0	0
Thikri	31·1	..	34·4	2	23·5	..	19·4	29	..	342·5	..	205·0	20	16	..	..	..	..	0	19	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Dharoi	32·4	..	33·0	5 days	25·6	..	25·2	4 days	9·5	98·0	..	40·0	11	4	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	22·5	..	24·7	20	11·4	..	6·2	28	0	39·1	..	12·2	21	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	41·6	399·4	..	97·2	16	16	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Timure	25·1	..	27·5	3	15·8	..	12·4	29	5·7	159·9	..	27·7	24	17	..	..	..	..	0	24	..	..	..	..	..	..	..	..	..
Pokhara	28·8	..	31·5	21	20·7	..	17·9	27	54·8	469·7	..	92·2	16	16	..	3·9	3·1	..	1	19	0	0	0	0	0	0	0	0	0
Gorkha*																													
Nuwakot	29·7	..	31·4	25	19·7	..	18·0	27,28	7·6	288·8	..	70·0	7	12	..	..	..	..	1	17	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	25·1	..	26·9	4	18·3	..	15·6	28	66·4	268·0	..	47·4	26	13	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhara	22·0	..	25·4	2	15·1	..	11·9	26	92·7	318·1	..	122·8	22	15	..	4·7	4·6	..	2	19	0	0	8	22	0	0	0	0	0
Sallyana	25·8	..	27·8	6,15, 20	17·8	..	15·3	27	3·8	91·3	..	26·5	22	5	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Butwal	32·3	..	35·9	21	24·3	..	21·3	27	76·5	286·2	..	88·0	16	12	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Baghmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	26·7	..	28·8	20	17·4	..	16·1	21	75·1	240·2	..	60·5	15	16	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	40·0	351·4	..	37·0	15	25	..	..	..	..	1	26	..	..	..	..	..	..	..	..	..
Walung Chunj Gola	16·1	..	21·0	28	8·0	..	6·0	26	75·0	246·4	..	23·0	15	22	..	..	..	..	0	27	..	..	..	..	..	..	..	..	..
Taplethok	26·7	..	30·1	10	(b) 17·7	..	15·8	26	63·8	398·2	..	45·0	14	24	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..
Bhospur	24·5	..	26·6	10	17·7	..	16·3	16	29·0	74·0	..	37·0	16	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Taplejung	24·3	..	26·2	3,10	16·7	..	14·4	27	22·9	223·7	..	34·2	14	17	..	..	..	..	1	22	0	0	4	9	0	0	0	0	0
Okhaldhunga	23·2	..	27·1	13	18·5	..	16·4	26	39·7	70·9	..	28·5	16	3	..	..	..	..	5	11	..	..	..	..	..	..	..	..	..
Chainpur	23·5	..	27·7	30	19·3	..	18·2	16,25	28·2	227·0	..	65·2	1	13	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..
Angbung	(b) 28.1	..	30.4	30	(c) 20.0	..	17.8	26	13.8	126.9	..	35.0	1	11	..	..	..	..	1	13	..	..	..	..	..	..	..	..	..
Barahakeshetra	31.5	..	24.4	2	23.1	..	21.8	26,27	731.9	924.1	..	208.6	15	18	..	6.0	3.7	..	1	22	0	0	6	0	0	0	0	0	0
ista Catchment																													
Gangtok	24.0	..	27.1	5	16.4	..	14.8	25	75.7	296.5	..	38.2	15	18	..	4.8	3.8	..	1	24	0	0	2	19	0	0	0	0	0
Gezing	25.9	..	28.9	21	17.1	..	15.5	26	40.7	221.4	..	69.0	14	14	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..

*Data not available. †Data included under Nepal. (b) Mean of 29 days. (c) Mean of 26 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1962 (BHADRA 10, ASVINA 8, 1884 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1008.0	1004.9	..	27.0	25.2	24.4	30.5	86	..	5.4	..	6.2	0	1	23	0	0	1	0	0	21	2	0	6	0
	1730	,,	1005.8	1002.7	..	26.2	25.0	24.5	30.7	88	..	5.2	..	8.4	0	2	23	0	0	0	0	0	22	3	0	5	0
Long Island	0830	25	1008.3	1005.4	..	27.2	25.8	25.2	32.1	88	..	6.8	..	1.7	0	0	11	0	0	0	0	0	5	5	1	19	0
	1730	,,	1006.3	1003.4	..	26.1	24.9	24.4	30.5	89	..	6.7	..	2.4	0	0	13	0	0	0	0	0	4	8	1	17	0
Port Blair	0530	79	1007.3	998.3	..	24.4	23.8	23.5	28.9	95	..	7.2	..	10.4	0	0	27	0	0	0	0	1	17	9	0	3	0
	0830	,,	1008.9	999.9	—0.7	26.5	24.9	24.3	30.4	88	+4	7.5	+1.3	16.9	0	9	20	0	0	0	0	0	22	7	0	1	0
	1130	,,	1007.7	998.8	..	27.1	24.9	24.0	29.8	83	..	7.7	..	20.5	0	14	15	0	0	0	0	1	17	9	2	1	0
	1730	,,	1006.5	997.6	..	25.5	24.3	23.9	29.7	91	..	7.5	..	12.1	0	5	23	0	0	0	0	1	18	4	5	2	0
	2330	,,	1008.0	999.0	..	24.8	24.1	23.	29.7	94	..	6.4	..	10.4	0	2	23	0	0	0	0	1	16	6	2	5	0
Car Nicobar	0830	10	1009.7	1008.5	..	27.6	25.4	24.4	30.5	84	..	6.7	..	5.9	0	0	30	0	0	0	0	1	23	3	3	0	0
	1730	,,	1007.3	1006.1	..	26.1	24.7	24.2	30.2	88	..	6.6	..	3.5	0	0	19	0	0	0	0	1	12	6	0	11	0
Nancowry	0830	26	1010.2	1007.3	..	27.6	25.2	24.1	30.0	81	..	5.5	..	5.6	0	0	28	0	0	0	0	1	17	9	1	2	0
	1730	,,	1007.7	1004.8	..	26.3	24.5	23.7	29.3	86	..	5.7	..	4.2	0	0	19	0	0	0	0	0	10	6	3	11	0
Kondul	0830	8	..	..	..	27.4	25.1	24.0	29.8	82	..	6.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	26.7	24.9	24.0	29.8	87	..	6.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1007.9	990.3	..	26.7	24.0	22.7	27.6	79	..	5.3	..	6.4	0	1	18	0	1	0	0	0	0	0	18	11	0
	1730	,,	1003.3	985.7	..	28.1	25.5	24.4	30.5	80	..	3.5	3.2	3.2	0	0	8	1	0	0	0	0	0	0	7	22	0
Dibrugarh (Mohanbari)	0230	111	1005.2	992.6	..	25.0	24.2	23.8	29.5	94	..	5.1	..	0.4	0	0	2	0	0	1	1	0	0	0	0	28	0
	0530	,,	1006.0	993.3	..	24.5	23.9	23.6	29.1	95	..	6.2	..	0.7	0	0	6	0	4	0	1	1	0	0	0	24	0
	0830	,,	1007.3	994.8	—0.6	27.3	25.1	24.1	30.0	83	—3	6.3	+0.5	5.1	0	1	21	1	15	1	2	1	0	1	1	8	0
	1130	,,	1006.0	993.6	..	29.3	25.7	24.1	30.0	75	..	5.9	..	5.7	0	1	27	1	14	4	3	1	2	1	2	2	0
	1730	,,	1003.1	990.7	..	28.7	25.9	24.7	31.1	79	..	3.8	..	1.0	0	0	10	2	4	0	1	0	0	1	2	20	0
	2330	,,	1005.5	993.0	..	25.5	24.4	23.9	29.7	91	..	4.6		0.9	0	0	4	0	3	0	0	0	0	1	0	26	0
Digboi (R)	0830																										
(R)	1730																										
North Lakhimpur	0830	102	1007.9	996.3	+0.8	27.2	25.1	24.1	30.0	84	0	6.2	+0.4	3.0	0	0	25	5	13	5	1	0	1	0	0	5	0
	1130	,,	1006.3	994.8	..	29.7	25.9	24.3	30.4	73	..	5.7	..	4.0	0	0	27	1	9	9	5	2	1	0	0	3	0
	1730	,,	1003.4	992.0	..	28.8	26.3	25.3	32.2	82	..	4.3	..	1.5	0	0	15	5	3	2	3	1	1	0	0	15	0
Sibsagar	0830	95	1008.0	997.2	+0.4	27.8	25.9	25.0	31.7	85	—2	6.8	+0.1	2.4	0	0	16	4	10	0	0	1	1	0	0	14	0
	1730	,,	1003.6	992.9	..	29.5	27.1	26.1	33.8	82	..	3.8	..	1.3	0	0	11	2	6	0	1	1	1	0	0	19	0
Gohpur	0830	..	..	..	..	27.3	26.0	25.5	32.6	90	..	1.5	..	..	..	..	..	0	14	2	12	2	0	0	0	0	0
	1730	..	..	..	..	31.0	28.3	37.3	36.3	80	1.0	..	..	..	..	..	..	0	1	5	13	11	0	0	0	0	0
Majbat	0830	77	..	..	..	..	..	..	..	..	..	3.6	..	2.0	0	0	15	0	3	9	1	0	0	1	0	15	1
	1730	,,	..	..	..	..	..	..	..	..	..	2.3	..	0.5	0	0	5	1	0	2	1	0	1	0	0	25	0
Jorhat	0530	90	1005.4	995.2	..	25.1	24.8	24.6	30.9	97	..	6.3	..	2.9	0	0	11	0	4	1	2	0	4	0	0	19	0
	0830	,,	4007.0	996.9	..	27.6	25.7	24.9	31.5	85	..	6.3	..	5.7	0	0	24	1	12	3	1	0	3	1	3	6	0
	1130	,,	1005.4	995.5	..	30.1	26.4	24.8	31.3	73	..	5.9	..	8.6	0	2	25	3	17	2	0	1	3	0	1	3	0
	1730	,,	1002.3	992.3	..	28.9	26.0	24.7	31.1	79	..	4.8	..	5.1	0	0	22	0	14	1	2	0	2	0	3	8	0
	2330	,,	1005.0	994.9	..	26.3	25.6	25.3	32.2	94	..	4.2	..	0.9	0	0	5	0	2	0	0	0	2	1	0	25	0
Tangla	0830	78	1005.9	997.2	..	28.4	25.7	24.5	30.7	80	..	4.7	..	0.4	0	0	3	0	1	2	0	0	0	0	0	27	0
	1730	,,	1002.1	993.4	..	29.7	26.6	25.3	32.2	78	..	3.0	..	0.3	0	0	2	0	2	0	0	0	0	0	0	28	0
Tezpur	0830	79	1007.8	998.9	—0.3	27.7	25.8	24.9	31.5	85	—1	5.6	—0.2	4.4	0	0	20	0	10	2	3	1	2	2	0	10	0
	1730	,,	1003.3	994.5	..	29.1	26.0	24.7	31.1	77	..	4.9	..	2.4	0	0	18	0	12	3	2	0	0	1	0	12	0
Golaghat	0830	..	..	..	..	28.2	25.4	24.2	30.2	79	..	(n) 6.9	..	..	0	0	0	0	0	0	0	0	0	0	0	17	0
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangia	0830	..	..	..	..	29.6	26.6	25.4	32.4	78	..	(c) 4.0	..	(c) 4.2	0	0	23	0	2	13	1	2	0	5	0	5	0
	1730	..	..	..	..	30.3	26.5	24.9	31.5	72	..	(c) 2.7	..	(c) 2.9	0	1	14	0	0	9	1	1	0	4	0	13	0
Chaparmukh	0830	66	1007.6	1000.2	..	29.4	26.3	25.1	31.9	78	..	3.4	..	3.6	0	0	30	1	0	18	5	5	0	1	0	0	0
	1730	,,	1002.9	995.6	..	30.4	26.8	25.3	32.2	74	..	3.4	..	3.3	0	0	30	6	3	14	0	4	0	3	0	0	0
Goalpara	0830	38	1007.1	1002.7	..	27.9	26.0	25.2	32.1	85	..	4.3	..	1.1	0	0	15	1	6	1	5	0	1	1	0	15	0
	1730	,,	1003.2	999.0	..	31.4	27.0	25.2	32.1	70	..	3.5	..	1.1	0	0	15	0	4	0	2	0	4	3	2	15	0
Gauhati	0830	55	..	..	..	29.6	26.6	25.4	32.4	78	—4	3.6	—1.8	0.1	0	1	0	0	0	0	0	0	0	0	0	29	0

(R) Register not received.

(n) Mean of 17 days.

(c) Mean of 28 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in gpm. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) (*Contd.*)																											
Gauhati (Bhorjor)	0230	54	1004.8	998.7	..	26.1	25.1	24.7	31.1	92	..	4.3	..	2.3	0	0	14	2	5	0	0	4	3	0	0	16	0
	0530	,,	1005.4	999.2	..	25.5	24.8	24.5	30.7	94	..	5.7	..	1.9	0	0	11	0	1	2	0	7	1	0	0	19	0
	0830	,,	1006.8	1000.8	—0.3	29.4	26.3	24.9	31.5	78	—1	5.1	—0.3	4.1	0	1	15	4	8	0	0	0	1	0	3	14	0
	1130	,,	1005.3	999.2	..	31.3	27.0	25.3	32.2	71	..	4.8	..	8.8	0	2	26	12	9	0	0	1	2	0	4	2	0
	1730	,,	1002.8	996.7	..	29.0	26.0	24.7	31.1	79	..	5.7	..	5.7	0	0	23	2	7	0	1	3	6	1	3	7	0
	2330	,,	1005.6	999.5	..	26.5	25.4	24.9	31.5	91	..	5.0	..	3.2	0	0	16	1	1	1	1	7	4	0	1	14	0
Dhubri (Rupsi)	0530	36	1004.4	1000.3	..	25.3	24.6	24.3	30.4	94	..	4.8	..	2.7	0	0	16	2	11	2	1	0	0	0	0	14	0
	0830	,,	1005.9	1001.9	..	29.0	26.5	25.5	32.6	81	..	5.4	..	5.7	0	0	28	0	8	7	6	4	2	1	0	2	0
	1130	,,	1004.7	1000.6	..	30.9	26.8	25.1	31.9	72	..	5.1	..	9.1	0	0	30	2	1	8	8	4	6	0	1	0	0
	1730	,,	1001.9	997.9	..	28.7	26.2	25.1	31.9	81	..	4.8	..	4.4	0	0	19	0	5	2	1	4	6	1	0	11	0
Dhubri	0830	35	1007.1	1003.2	—0.1	28.6	26.3	25.3	32.2	83	—2	3.0	2.2	(c) 4.5	0	0	22	0	12	1	4	3	1	0	1	6	0
	1730	,,	1003.4	999.5	..	29.1	26.5	25.4	32.4	80	..	3.4	..	(d) 1.5	0	0	11	0	1	4	1	5	0	0	0	16	0
Lumding	0830	149	1006.9	990.1	..	27.9	25.6	24.6	30.9	83	—2	4.7	..	0.6	0	0	6	0	1	2	2	1	0	0	0	24	0
	1730	,,	1002.4	986.0	..	29.3	26.3	25.3	32.2	79	..	3.6	..	0.4	0	0	4	0	0	1	0	1	0	0	2	26	0
Tura	0830	370	1007.3	996.1	..	26.0	24.0	23.1	28.3	84	..	6.2	..	3.2	0	0	23	1	3	2	4	5	5	2	1	7	0
	1730	,,	1003.3	962.3	..	27.3	25.2	24.2	30.2	83	..	6.7	..	3.7	0	0	24	4	6	2	1	2	6	0	3	6	0
Haflong	0830	682	1006.7	932.1	..	24.4	22.7	21.9	26.3	86	..	5.4	..	4.4	0	0	30	0	0	0	0	1	29	0	0	0	0
	1730	,,	1002.6	928.7	..	26.0	23.6	22.4	27.1	81	..	5.2	..	6.2	0	0	30	1	0	0	0	4	23	2	0	0	0
Silchar (Kumbhirgram)	0530	97	1004.6	993.7	..	24.5	23.9	23.6	29.1	95	..	5.6	..	2.5	0	0	18	0	4	10	1	0	1	2	0	12	0
	0830	,,	1005.7	994.8	..	27.8	25.3	24.1	30.0	81	..	5.1	..	3.7	0	0	22	0	3	10	4	4	0	0	1	8	0
	1130	,,	1003.9	993.2	..	30.8	26.4	24.5	30.7	70	..	4.2	..	3.8	0	0	26	0	0	7	1	1	6	8	3	4	0
	1730	,,	1001.2	990.5	..	29.8	26.4	25.0	31.7	75	..	4.9	..	2.6	0	0	19	2	3	1	1	0	1	9	2	11	0
	0830	29	1007.0	1003.7	—1.0	28.6	26.0	24.9	31.5	81	—3	5.2	—0.6	1.2	0	0	12	2	3	0	3	1	2	0	1	18	0
	1730	,,	1002.7	999.4	..	30.6	26.9	25.3	32.2	75	..	3.9	..	0.9	0	0	7	0	3	0	0	0	0	2	2	23	0
Imphal (Tulihal)	0530	781	1007.3	921.4	..	21.5	20.9	20.6	24.3	95	..	6.5	..	0.9	0	0	7	2	1	1	1	0	0	0	2	23	0
	0830	,,	1007.5	922.8	—0.2	25.3	22.3	20.7	24.4	77	—4	6.0	—0.1	3.3	0	0	23	5	3	0	8	3	0	2	2	7	0
	1130	,,	1005.2	921.4	..	28.3	23.1	20.5	24.1	63	..	5.7	..	4.5	0	2	27	0	0	1	5	5	11	4	3	1	0
	1730	,,	1003.1	918.8	..	26.1	22.8	21.1	25.1	75	..	6.2	..	5.2	0	0	24	0	1	4	9	1	4	5	0	6	0
	2330	,,	1007.1	921.7	..	22.7	21.8	21.4	25.5	92	..	5.6	..	2.5	..	..	15	2	3	2	0	0	0	3	5	15	0
Kailashahar	0530	29	1006.4	1003.1	..	25.4	24.8	24.5	30.7	95	..	5.6	..	1.1	0	0	9	0	3	0	1	4	1	0	0	21	0
	0830	,,	1007.6	1004.4	..	28.2	26.0	25.1	31.9	83	..	5.2	..	2.6	0	0	18	2	2	2	0	8	4	0	0	12	0
	1130	,,	1005.8	1002.6	..	31.5	27.0	25.1	31.9	69	..	5.6	..	3.4	0	0	27	7	8	1	1	4	1	0	5	3	0
	1730	,	1003·2	1000.0	..	30.4	27.3	26.1	33.8	77	..	5.9	..	1.4	0	0	10	1	1	0	0	4	0	0	3	20	0
Agartala	0230	16	1004.0	1002.2	..	25.7	25.0	24.7	31.1	95	..	5.2	..	4.3	0	0	13	0	0	1	8	4	0	0	0	17	0
	0530	,,	1004.6	1002.8	..	25.4	24.8	24.5	30.7	95	..	6.4	..	4.9	0	0	18	1	0	3	9	4	0	0	1	12	0
	0830	,,	1006.0	1004.2	0	28.5	26.3	25.4	32.4	83	—2	6.4	0	5.8	0	0	21	4	1	9	6	0	0	1	0	9	0
	1130	,,	1004.7	1003.0	..	30.9	27.1	25.5	32.6	73	..	6.1	..	6.9	0	2	21	3	1	0	5	3	2	4	5	7	0
	1730	,,	1002.3	1000.5	..	29.2	26.6	25.5	32.6	81	..	6.1	..	5.8	0	2	12	2	0	1	1	2	3	1	4	16	0
	2330	,,	1005.0	1003.2	..	26.3	25.5	25.3	32.2	94	..	5.3	..	3.9	0	1	10	0	0	1	7	2	0	0	1	19	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1004.4	989.7	..	25.7	24.9	24.5	30.7	93	..	4.7	..	5.3	0	1	21	11	1	6	1	0	1	1	1	8	0
	0530	,,	1004.9	990.1	..	24.6	24.0	23.7	29.3	95	..	5.6	..	3.6	0	1	14	6	2	3	1	1	1	0	1	15	0
	0830	,,	1006.4	991.7	+0.1	28.1	25.5	24.4	30.5	81	0	5.4	—0.4	8.1	0	1	25	2	1	17	3	1	1	1	0	4	0
	1130	,,	1005.2	990.7	..	30.5	26.2	24.3	30.4	71	..	5.2	..	10.0	0	1	25	0	1	11	9	2	3	0	0	4	0
	1730	,,	1002.5	987.9	..	29.0	26.2	25.0	31.7	81	..	5.3	..	5.5	0	3	14	2	1	6	2	0	3	3	0	13	0
	2330	,,	1005.5	990.7	..	26.5	25.4	24.9	31.5	91	..	4.5	..	7·2	0	2	23	13	4	3	4	1	0	0	0	5	0
Jalpaiguri	0830	83	1006.4	997.1	+0.5	27.4	25.5	24.7	31.1	86	[illegible]	4.4	0	5.2	0	0	30	7	14	7	0	1	0	0	1	0	0
	1730	,,	1002.3	993.1	..	29.6	26.2	24.8	31.3	75	..	4.0	..	6.9	0	0	28	4	5	5	1	4	7	2	0	2	0
Cooch Behar	0830	43	1006.5	1001.7	..	28.6	25.9	24.9	31.9	80	..	6.2	..	8.4	0	3	27	1	9	13	5	0	0	1	1	0	0
	1130	,,	1005.2	1000.4	..	30.9	26.8	25.1	31.9	71	..	6.2	..	9.5	0	2	26	0	10	10	5	0	0	1	2	2	0
	1730	,,	1002.6	997.8	..	29.3	26.6	25.4	32.4	80	..	5.9	..	3.7	0	0	14	0	1	5	2	2	2	0	2	16	0
Balurghat	0830	..	..	..	..	39.0	26.8	25.9	33.4	84	..	4.3	..	3.4	0	0	23	2	2	6	7	3	1	1	1	7	0
	1730	..	..	..	..	30.3	26.7	25.2	32.1	75	..	5.3	..	2.5	0	0	17	1	3	1	8	3	1	0	0	13	0
Malda	0830	31	1005.9	1002.4	—0.1	29.2	26.4	25.2	32.1	80	—1	5.8	+1.6	7.3	0	2	27	3	5	6	5	6	0	2	2	1	0
	1730	,,	1002.7	999.2	..	29.5	26.4	25.1	31.9	77	..	5.0	..	5.5	0	2	25	1	5	5	5	4	3	1	3	3	0

(c) Mean of 28 days.

(d) Mean of 27 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1962 (BHADRA 10—ASVINA 8, 1884 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	1005·4	1003·1	−1·0	28·5	26·5	25·5	32·6	83	+1	6·0	+0·6	5·2	0	0	24	1	1	9	2	6	3	1	1	6	0
	1730	,,	1001·5	999·4	..	29·1	26·4	25·3	32·2	81	..	5·9	..	3·7	0	1	15	0	0	4	2	9	0	1	0	14	0
Suri	0830	77	..	..	..	28·3	26·1	25·2	32·1	83	..	5·7	..	6·1	0	1	29	2	1	8	4	8	2	3	2	0	0
Asansol	0230	126	1003·4	989·2	..	26·0	25·3	25·1	31·9	94	..	4·4	..	4·9	0	1	15	0	0	4	8	2	0	1	1	14	0
	0530	,,	1003·7	989·4	..	25·5	25·1	25·0	31·7	96	..	4·9	..	4·2	0	0	16	1	0	6	5	1	1	2	0	14	0
	0830	,,	1005·2	991·1	−0·3	28·3	26·1	25·3	32·2	83	0	5·2	0	8·1	0	0	27	1	0	9	9	1	1	2	4	3	0
	1130	,,	1004·3	990·3	..	30·2	26·5	25·1	31·9	74	..	5·2	..	8·9	0	1	26	3	3	7	6	2	1	1	4	3	0
	1730	,,	1001·6	987·6	..	28·7	26·3	25·1	31·9	81	..	5·7	..	6·9	0	1	22	3	0	5	12	1	1	0	1	7	0
	2330	,,	1004·5	990·4	..	26·4	25·4	25·0	31·7	92	..	3·9	..	4·5	0	0	16	0	0	4	8	2	0	0	2	14	0
Shanti Niketan	0830	59	1005·8	999·1	..	28·3	26·0	25·1	31·9	83	..	5·9	..	7·5	0	2	17	2	1	5	5	3	1	0	2	11	0
	1130	,,	1004·9	998·3	..	30·2	26·5	24·9	31·5	73	..	5·4	..	6·8	0	2	24	6	2	6	4	8	0	0	0	4	0
	1730	,,	1002·0	995·4	..	28·7	26·1	25·0	31·7	81	..	5·9	..	4·0	0	1	16	2	2	3	1	9	0	0	0	13	0
Krishnanagar	0830	15	1005·7	1004·0	−0·2	28·9	26·8	26·0	33·6	85	+4	4·8	−0·6	1·1	0	0	10	0	0	0	0	9	1	0	0	20	0
	1730	,,	1002·1	1000·5	..	28·8	26·4	25·4	32·4	83	..	4·7	..	2·7	0	0	25	0	0	0	1	23	1	0	0	5	0
Purulia	0830	255	1005·3	977·1	0	27·6	25·1	24·0	29·8	81	−1	6·9	+1·5	6·9	0	0	29	0	1	0	18	2	0	0	8	1	0
	1730	,,	1001·8	973·8	..	28·1	24·9	23·5	28·9	77	..	7·6	..	4·5	0	0	25	1	2	2	10	3	2	0	3	5	2
Bankura	0830	100	1005·0	993·8	..	28·8	25·7	24·3	30·4	79	..	3·4	..	2·8	0	0	12	0	6	0	2	0	4	0	0	18	0
	1730	,,	1001·2	990·1	..	28·5	25·9	24·6	30·9	77	..	4·6	..	2·2	0	0	12	1	4	1	4	0	2	0	0	18	0
Burdwan	0830	32	1004·7	1001·1	−1·2	29·0	26·6	25·6	32·8	82	−1	4·3	−1·1	6·1	0	0	25	0	2	6	5	4	6	0	2	5	0
	1730	,,	1001·8	997·8	..	28·9	26·4	25·3	32·2	81	..	5·1	..	8·4	0	1	24	1	2	9	1	8	3	0	1	5	0
Barrackpore (Aerodrome)	0530	7	1003·9	1003·1	..	26·0	25·6	25·4	32·4	97	..	4·8	..	4·4	0	1	13	1	2	5	1	3	0	0	2	16	0
	0830	,,	1005·2	1004·5	−0·1	28·5	26·7	26·0	33·6	86	0	5·9	−0·3	8·6	0	2	21	3	2	5	4	3	2	3	1	7	0
	1130	,,	1004·5	1003·8	..	30·3	27·2	26·0	33·6	80	..	6·3	..	8·3	0	1	26	1	3	7	5	3	4	2	2	3	0
	1730	,,	1001·9	1001·1	..	28·5	27·6	26·2	34·4	88	..	6·1	..	6·2	0	1	22	2	2	3	6	4	3	1	2	7	0
	2330	,,	1005·1	1004·3	..	26·5	25·9	25·6	30·2	95	..	4·0	..	3·1	0	1	7	0	1	2	2	1	1	1	0	22	0
Calcutta (Dum Dum)	0230	6	1003·2	1002·5	..	26·7	25·6	25·1	31·9	93	..	3·4	..	4·7	0	1	16	2	3	3	3	5	1	0	0	13	0
	0530	,,	1003·7	1002·9	..	26·0	25·4	25·1	31·9	95	..	5·8	..	5·1	0	1	20	4	3	5	4	3	1	0	1	9	0
	0830	,,	1005·2	1004·5	−0·5	29·0	26·3	25·1	31·9	80	−1	6·1	0	8·6	0	1	27	4	5	5	4	6	4	0	0	2	0
	1130	,,	1004·2	1003·5	..	30·5	26·7	25·1	31·9	74	..	6·4	..	9·5	0	0	29	3	3	4	9	6	3	0	1	1	0
	1730	,,	1001·7	1001·0	..	28·4	26·1	25·1	31·9	82	..	6·2	..	6·9	0	0	25	0	2	3	4	11	4	0	1	5	0
	2330	,,	1004·3	1003·6	..	26·8	25·9	25·6	32·8	93	..	4·2	..	5·0	0	0	19	0	3	1	6	8	1	0	0	11	0
Calcutta	0830	6	1004·9	1004·2	−1·1	29·2	26·2	24·9	31·5	78	−5	6·3	+0·6	6·3	0	1	28	0	1	7	5	5	3	3	5	1	0
	1130	,,	1004·0	1003·2	..	30·5	26·5	24·6	30·9	70	..	6·7	..	5·4	0	1	28	2	3	3	4	11	1	3	2	1	0
	1730	,,	1001·5	1000·8	..	29·2	26·1	24·6	30·9	77	..	6·6	..	6·5	0	1	29	5	0	1	8	10	4	0	2	0	0
Midnapore	0830	45	1005·0	999·9	−0·8	27·7	25·8	24·9	31·5	85	+3	4·4	−0·1	3·4	0	0	21	5	3	3	2	3	4	1	0	9	0
	1730	,,	1001·7	996·7	..	28·6	26·0	24·9	31·5	81	..	5·2	..	3·4	0	1	26	1	2	1	5	13	4	0	1	3	0
Contai	0830	11	1004·8	1003·6	+0·1	28·9	26·4	25·4	32·4	82	−2	3·6	−1·8	3·4	0	0	25	4	4	2	6	1	6	1	1	5	0
	1730	,,	1001·7	1000·5	..	28·6	26·4	25·5	32·6	82	..	3·3	..	3·8	0	0	26	2	1	0	10	8	5	0	0	4	0
Sagar Island	0830	3	1004·5	1004·2	−1·1	28·7	26·7	25·9	33·4	85	+4	6·1	0	17·9	1	9	19	4	4	4	3	3	8	2	1	1	0
	1730	,,	1001·4	1001·1	..	28·8	26·7	25·8	33·2	85	..	6·3	..	18·6	1	8	21	3	2	1	6	9	6	1	2	0	0
Sandheads	0530	10	1003·1	1002·0	..	28·3	26·4	25·6	32·8	85	..	6·0	..	14·5	0	6	22	2	4	2	6	3	9	1	1	2	0
	0830	,,	1004·7	1003·6	−1·2	29·1	26·8	25·8	33·2	82	+3	6·0	+1·0	16·1	0	6	22	3	3	3	5	3	7	2	2	2	0
	1130	,,	1004·3	1003·2	..	29·5	26·9	26·0	33·6	81	..	5·9	..	16·5	1	6	21	2	4	4	5	3	8	2	0	2	0
	1730	,,	1001·9	1000·8	..	29·3	26·7	25·7	33·0	81	..	6·1	..	14·5	1	6	19	4	0	2	5	5	9	0	1	4	0
	2330	,,	1004·0	1003·0	..	28·7	26·9	26·1	33·8	85	..	1·7	..	17·5	0	6	23	4	1	1	6	7	7	1	2	1	0
Orissa																											
Baripada	0830	54	1006·0	999·9	..	27·9	25·8	24·9	31·5	84	..	4·6	..	2·6	0	0	25	4	5	1	3	3	4	2	3	5	0
	1730	,,	1002·7	996·6	..	28·1	26·0	25·1	31·7	84	..	6·2	..	1·6	0	0	14	0	0	2	6	2	1	0	2	16	1
Jharsuguda	0230	230	1002·9	977·1	..	25·1	24·1	23·6	29·1	93	..	4·6	..	5·3	0	0	22	1	5	2	4	4	2	3	1	8	0
	0530	,,	1003·1	977·3	..	24·7	24·0	23·7	29·3	94	..	5·4	..	5·4	0	0	21	4	5	2	4	2	2	2	0	9	0
	0830	,,	1004·6	979·0	−0·2	27·3	25·0	24·0	29·8	83	−1	6·7	+0·6	9·0	0	1	26	0	8	3	5	2	5	3	1	3	0
	1130	,,	1003·8	978·4	..	29·5	25·4	23·5	28·9	71	..	6·7	..	9·6	0	1	27	0	8	1	3	2	5	5	4	2	0
	1730	,,	1000·9	975·5	..	28·9	25·5	23·9	29·7	75	..	7·2	..	8·5	0	1	28	1	2	5	4	5	4	7	1	1	0
	2330	,,	1003·9	978·2	..	25·8	24·6	24·1	30·0	90	..	4·4	..	5·1	0	0	20	4	3	2	5	1	3	2	0	10	0
Keonjhargarh	0830	463	1002·7	951·6	..	25·8	23·5	22·4	27·1	81	..	6·2	..	4·2	0	0	30	5	6	4	4	0	0	6	3	0	0
	1730	,,	999·0	948·7	..	26·9	24·0	22·8	27·7	79	..	7·4	..	3·6	0	0	30	3	2	6	8	6	1	2	2	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Balasore	0830	20	1004·9	1002·7	—0·7	28·1	26·2	25·4	32·4	85	+2	6·7	+1·5	6·5	0	1	26	3	7	2	1	5	7	0	2	3	0
	1730	,,	1001·7	999·5	..	29·1	26·4	25·3	32·2	80	..	6·9	..	5·8	0	1	26	2	3	2	7	9	2	0	2	3	0
Sambalpur	0830	148	1004·7	988·1	—1·2	28·0	25·4	24·3	30·4	78	—4	4·8	—0·2	1·9	0	0	14	0	3	1	2	4	3	1	0	16	0
	1730	,,	1000·9	984·9	..	28·7	25·4	24·0	29·8	76	..	5·7	..	1·5	0	0	13	0	1	2	3	3	3	0	1	17	0
Angul	0830	139	1005·3	989·7	—0·4	27·5	25·0	23·9	29·7	81	—1	6·2	+0·8	3·9	0	0	20	2	4	3	2	1	2	3	3	10	0
	1730	,,	1001·7	986·3	..	28·5	25·4	24·0	29·8	77	..	6·5	..	4·6	0	0	25	1	3	8	6	2	3	2	0	5	0
Cuttack	0830	27	1004·7	1001·7	—1·3	29·1	26·5	25·6	32·8	82	+2	5·4	+0·4	5·1	0	0	17	0	0	5	2	1	5	1	3	13	0
	1730	,,	1001·9	998·9	..	29·3	26·4	25·2	32·1	79	..	6·1	..	5·4	0	1	16	0	0	1	6	4	2	2	2	13	0
Chandbali	0830	6	1004·7	1004·0	—0·7	28·9	26·8	25·9	33·4	83	0	6·3	+0·9	4·6	0	0	26	5	0	6	2	2	6	2	3	4	0
	1730	,,	1002·1	1001·4	..	28·8	26·5	25·5	32·6	82	..	6·8	..	5·1	0	1	27	2	3	3	13	2	4	0	1	2	0
Bolangir	0830	190	1005·4	984·2	..	27·4	24·9	23·9	29·7	81	..	5·3	..	3·5	0	0	30	3	4	0	3	8	5	3	4	0	0
	1730	,,	1001·5	980·4	..	28·7	25·5	24·3	30·4	77	..	5·9	..	3·3	0	0	30	3	3	2	4	3	4	7	4	0	0
Phulbani	0830	464	1002·8	951·9	..	26·2	23·9	22·8	27·7	81	..	4·9	..	0·3	0	0	2	0	0	0	1	0	1	0	0	28	0
	1730	,,	1000·1	949·3	..	26·4	24·2	23·3	28·6	82	..	5·1	..	0·7	0	0	5	0		2	2	0	1	0	0	25	0
Titlagarh	0830	211	1005·1	981·6	..	27·7	25·8	24·9	31·5	86	..	..	..	(b) 0·3	0	0	29	3	4	3	4	4	8	2	1	0	0
	1730	,,	1001·7	978·3	..	28·3	26·7	25·9	33·4	88	..	..	..	(b) 3·0	0	0	29	4	3	5	5	1	8	1	2	0	0
Bhubaneswar	0230	46	1003·1	997·9	..	26·5	25·7	25·5	32·6	94	..	3·7	..	4·1	0	0	14	2	3	2	1	2	4	0	0	16	0
	0530	,,	1003·3	998·1	..	26·1	25·4	25·1	31·9	95	..	4·8	..	5·1	0	2	14	3	4	0	2	2	4	0	1	14	0
	0830	,,	1005·0	999·8	+0·1	28·2	26·2	25·4	32·4	82	—3	5·3	—1·0	11·1	0	4	26	5	3	5	1	2	5	3	6	0	0
	1130	,,	1004·2	999·0	..	30·3	26·4	24·7	31·1	72	..	6·1	..	13·4	0	5	24	1	6	2	3	7	7	0	3	1	0
	1730	,,	1002·0	996·8	..	28·5	26·2	25·3	32·2	85	..	6·9	..	11·3	0	4	26	3	2	5	5	9	3	1	2	0	0
	2330	,,	1004·3	999·1	..	26·9	25·9	25·6	32·8	92	..	4·1	..	6·4	0	1	18	0	3	2	1	5	5	0	3	11	0
Puri	0830	6	1005·1	1004·3	—0·7	29·5	26·9	26·0	33·6	81	+1	5·5	+0·8	11·8	0	5	25	4	3	1	5	4	12	1	0	0	0
	1730	,,	1002·0	1001·3	..	29·2	26·9	26·1	33·8	83	..	5·7	..	18·7	0	12	18	0	3	2	8	6	9	2	0	0	0
Gopalpur	0530	17	1003·3	1001·4	..	26·1	25·2	25·0	31·7	93	..	6·1	..	8·2	0	0	24	4	1	0	1	0	9	2	7	6	0
	0830	,,	1005·0	1003·1	—0·8	28·4	26·1	25·2	32·1	83	+2	6·2	+2·0	7·6	0	1	27	7	1	2	1	4	9	1	3	2	0
	1130	,,	1004·4	1002·5	..	30·3	26·9	25·5	32·6	76	..	6·4	..	12·4	0	7	22	3	3	4	4	8	5	0	2	1	0
	1730	,,	1001·9	1000·0	..	28·6	26·4	25·5	32·6	83	..	6·9	..	14·5	0	9	21	2	1	5	5	8	6	1	2	0	0
	2330	,,	1004·2	1002·3	..	27·4	26·0	25·4	32·4	89	..	4·8	..	8·1	0	4	23	5	0	1	0	3	11	3	4	3	0
Koraput	0830	913	1470·6	906·3	—0·6	23·2	21·6	20·8	24·6	86	+5	5·9	+2·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1449·1	904·1	..	22·9	21·5	20·9	24·7	88	..	5·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1004·7	988·1	—1·1	27·9	26·1	25·2	32·1	85	+4	4·3	—0·4	4·7	0	0	20	0	3	6	5	3	0	2	1	10	0
	1730	,,	1002·1	985·5	..	28·5	26·3	25·5	32·6	84	..	4·2	..	3·1	0	0	18	0	3	8	5	1	0	0	1	12	0
Daltonganj	0830	221	1003·9	979·3	—1·6	27·6	24·9	23·5	28·9	79	0	6·0	+2·5	1·3	0	0	4	0	1	0	1	0	1	0	1	26	0
	1730	,,	1000·2	975·8	..	28·7	25·1	23·6	29·1	74	..	7·0	.	3·3	0	0	14	2	5	1	0	1	2	0	3	16	0
Hazaribagh	0830	611	1004·7	937·8	—0·5	25·2	23·1	22·0	26·4	83	+2	5·5	—0·1	10·2	0	5	20	1	0	2	8	4	5	0	5	5	0
	1730	,,	1001·5	934·9	..	25·7	23·5	22·7	27·6	83	..	6·2	..	9·3	0	1	25	4	0	3	7	5	2	0	5	4	0
Dhanbad	0830	257	1004·9	976·3	..	27·3	24·9	23·8	29·7	81	..	4·7	..	8·6	0	1	28	3	0	4	5	2	0	1	1	1	13
	1730	,,	1001·3	972·9	..	28·4	25·1	23·5	28·9	75	..	5·6	..	8·1	0	0	28	2	0	3	5	2	1	0	0	2	15
Ranchi	0830	655	1003·5	931·9	—1·7	25·0	22·7	21·7	25·9	81	0	5·5	+0·4	2·2	0	0	19	0	0	4	4	5	2	1	3	11	0
	1730	,,	999·5	928·5	..	25·9	23·2	22·0	26·4	79	..	6·1	..	2·5	0	0	22	0	2	1	11	2	3	0	3	8	0
Ranchi Aerodrome	0530	652	1003·6	931·9	..	22·7	22·1	21·7	25·9	94	..	6·2	..	5·8	0	1	20	1	0	6	2	3	6	1	2	9	0
	0830	,,	1004·7	933·4	..	24·9	22·6	21·5	25·6	83	..	6·1	..	9·0	0	1	25	4	1	8	2	3	7	1	0	4	0
	1130	,,	1003·5	932·8	..	27·1	23·3	21·6	25·8	72	..	6·2	..	10·3	0	1	28	1	0	10	5	4	5	1	3	1	0
	1730	,,	1000·1	929·6	..	26·4	23·4	22·1	25·9	77	..	(p) 6·5	..	(p) 8·5	0	0	14	0	1	3	2	3	2	1	2	1	0
Jamshedpur	0830	129	1004·9	990·5	—0·4	28·0	25·4	24·3	30·4	80	—1	5·1	—0·6	6·8	0	1	25	0	2	11	1	0	2	8	2	0	4
	1730	,,	1001·2	986·9	..	28·9	25·5	24·2	30·2	76	..	6·4	..	4·3	0	0	24	0	0	11	8	0	0	3	2	6	0
Jamshedpur (P.B.O.)	0530	142	1003·5	987·5	..	25·4	24·6	24·2	30·2	93	..	5·5	..	4·7	0	0	19	0	6	6	0	1	2	1	3	11	0
	0830	,,	1005·0	989·1	..	27·6	25·2	24·1	30·0	81	..	5·9	..	8·0	0	1	24	1	7	3	1	4	4	0	5	5	0
	1130	,,	1004·0	988·2	..	30·0	25·7	24·0	29·8	70	..	6·3	..	9·5	0	0	30	1	6	5	2	4	4	3	5	0	0
	1730	,,	1001·3	985·6	..	28·6	25·3	24·0	29·8	76	..	7·0	..	7·3	0	0	26	0	8	6	6	2	0	2	2	4	0
	2330	,,	1004·1	988·3	..	26·2	24·7	24·2	30·2	89	..	5·0	..	6·1	0	0	24	0	11	6	1	1	1	1	3	6	0
Chaibasa	0830	226	1004.8	979.5	—0.6	27.2	24.8	23.7	29.3	82	+1	6.5	+1.4	3.7	0	0	21	0	7	0	6	0	6	0	2	9	0
	1730	,,	1001.4	976.3	..	28.1	25.1	23.9	29.7	78	..	7.2	..	2.7	0	0	16	0	5	0	6	0	4	0	1	14	0
Bihar Plains																											
Motihari	0830	66	1005·3	997·9	—0·1	28·9	27·0	26·1	33·8	86	+6	(g) 5·0	+1·1	(g) 1·0	0	0	7	0	0	7	0	0	0	0	0	17	0
	1730	,,	1002·8	995·4	..	29·5	27·2	26·2	34·0	84	..	(g) 4·5	..	(g) 1·5	0	0	8	0	0	8	0	0	0	0	0	16	0

Sub-Division and station	Hour of observation I.S.T	Station of elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard baric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	10	21	22	23	24	25	26	27	28
Bihar Plains—*(Contd.)*																											
Forbesganj	0830	61	1005·8	999·0	..	28·4	26·1	25·1	31·9	82	..	4·8	..	9·4	0	2	28	1	5	15	4	0	0	3	2	0	0
	1730	,,	1002·0	995·3	..	29·9	26·6	25·3	32·2	77	..	4·6	..	6·7	0	1	24	0	2	12	5	0	1	5	0	5	0
Darbhanga	0830	49	1005·9	1000·4	+0·1	29·7	26·7	25·5	32·6	81	+4	2·6	—2·1	3·0	0	0	25	2	3	13	2	1	1	2	1	5	0
	1730	,,	1004·1	998·6	..	29·3	26·3	25·1	31·9	79	..	2·6	..	2·6	0	0	20	0	5	7	1	2	0	5	0	10	0
Chapra	0830	..	..	..	..	28·8	26·4	25·4	32·4	81	..	5·2	..	3·8	0	0	19	0	4	10	5	0	0	0	0	11	0
	1730	..	..	..	..	29·6	26·2	24·8	31·3	76	..	5·2	..	3·2	0	0	25	0	13	4	3	0	1	2	2	5	0
Purnea	0830	38	1006·1	1001·9	—0·1	28·4	26·4	25·5	32·6	85	0	4·6	—0·1	4·2	0	0	26	1	2	18	1	0	0	4	0	4	0
	1730	,,	1002·4	998·2	..	29·2	26·6	25·5	32·6	81	..	4·4	..	1·9	0	0	13	2	0	7	1	0	0	3	0	17	0
Patna	0830	53	1005·0	999·1	—0·6	28·8	25·6	24·2	30·2	79	0	4·3	—0·6	9·0	0	1	29	0	12	5	7	0	1	4	1	0	0
	1730	,,	1001·6	995·6	..	29·9	25·7	24·1	30·0	71	..	5·0	..	8·8	0	1	27	0	11	7	4	0	1	4	1	2	0
Patna Aerodrome	0530	60	1003·1	996·3	..	26·2	25·4	25·1	31·9	94	..	5·0	..	7·1	0	2	16	1	2	10	3	1	1	0	0	12	0
	0830	,,	1004·7	998·0	..	28·7	26·4	25·5	32·6	83	..	5·4	..	10·8	0	2	26	0	1	12	9	1	0	2	3	2	0
	1130	,,	1004·0	997·2	..	30·6	26·9	25·3	32·2	75	..	5·5	..	9·0	0	2	28	0	2	8	11	1	2	3	2	0	1
	1730	,,	1001·1	994·4	..	29·3	26·4	25·1	31·9	79	..	5·2	..	8·5	0	2	22	0	3	10	6	0	0	2	3	6	0
	2330	,,	1004·2	998·3	..	27·4	26·0	25·4	32·4	89	..	3·7	..	6·3	0	2	14	0	3	12	0	0	0	1	0	14	0
Bhagalpur	0530	49	1004·3	998·8	..	26·5	25·6	25·3	32·2	93	..	4·7	..	6·3	0	2	18	0	1	9	7	0	1	1	1	10	0
	0830	,,	1005·9	1000·4	+0·4	29·3	26·5	25·3	32·2	79	—3	5·2	—0·3	7·3	0	1	25	0	1	8	11	1	1	3	1	4	0
	1130	,,	1005·2	999·7	..	31·2	27·1	25·5	32·6	72	..	5·6	..	7·8	0	3	23	0	1	11	9	1	0	2	2	4	0
	1730	,,	1002·3	996·8	..	29·7	26·6	25·3	32·2	76	..	6·1	..	5·3	0	1	19	0	0	10	5	0	0	5	0	10	0
	2330	,,	1004·9	999·4	..	27·5	26·1	25·5	32·6	88	..	3·8	..	5·1	0	2	19	0	0	5	9	1	3	2	1	9	0
Sabaur	0830	37	1005·6	1001·3	+0·3	28·5	26·3	25·4	32·4	82	—1	5·4	—0·3	7·0	0	1	29	1	2	11	8	3	0	3	2	0	0
	1730	,,	1001·7	997·5	..	29·5	26·3	25·4	32·4	77	..	6·3	..	5·7	0	1	27	0	0	15	5	1	0	4	3	2	0
Jamui	0830	82	1006·6	997·3	..	28·9	27·1	26·4	34·4	87	..	3·5	..	3·3	0	0	29	0	0	21	1	2	0	1	4	1	0
	1730	,,	1003·1	993·8	..	28·8	27·2	26·6	34·8	88	..	5·0	..	2·6	0	0	25	2	2	16	0	1	0	2	2	5	0
Dehri	0830	107	1004·6	992·4	..	28·0	25·7	24·7	31·1	82	..	5·2	..	3·3	0	0	29	3	0	4	12	5	2	2	1	1	0
	1730	,,	1000·5	988·4	..	28·8	26·2	25·1	31·9	80	..	5·7	..	2·9	0	0	30	0	8	4	11	0	0	2	5	0	0
Gaya	0230	116	1003·1	990·0	..	26·2	25·4	25·1	31·9	93	..	4·4	..	5·7	0	1	17	0	2	9	4	0	2	0	1	12	0
	0530	,,	1003·3	990·2	..	25·7	25·0	24·7	31·1	95	..	4·9	..	5·7	0	1	16	1	2	8	3	2	1	0	0	13	0
	0830	,,	1005·1	992·0	—0·2	27·8	25·6	24·6	30·9	83	+8	5·3	+1·6	8·8	0	4	18	1	1	8	6	1	2	3	0	8	0
	1130	,,	1004·5	991·6	..	30·1	26·3	24·9	31·5	74	..	5·7	..	9·7	0	2	25	1	2	10	5	1	2	1	5	3	0
	1730	,,	1001·4	998·4	..	29·2	26·3	25·2	32·1	79	..	5·5	..	10·2	0	2	25	2	4	9	3	3	1	1	4	3	0
	2330	,,	1004·0	990·9	..	26·6	25·4	24·9	31·5	91	..	4·6	..	6·9	0	1	20	1	2	9	5	1	2	1	0	9	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1005·4	991·4	+0·2	26·8	25·1	24·2	30·2	85	+7	5·5	+2·7	7·9	0	0	27	0	2	15	4	1	0	1	4	3	0
	1730	,,	1001·8	988·3	..	28·5	25·6	24·2	30·2	75	..	5·3	..	5·0	0	0	26	1	3	10	5	0	0	4	3	4	0
Nautanwa	0830	99	1004·2	993·1	..	27·7	25·5	24·4	30·7	83	..	..	..	3·3	0	0	25	1	3	13	4	1	1	0	2	5	0
	1730	,,	1001·1	990·1	..	29·8	26·6	25·4	32·2	77	..	..	..	3·0	0	0	22	4	0	11	3	1	1	0	2	8	0
Hardoi	0830	142	1004·9	988·9	—0·8	26·8	25·4	24·7	31·3	88	+6	4·4	+1·1	5·6	0	0	25	1	1	12	3	1	0	4	3	5	0
	1730	,,	1001·6	985·8	..	28·9	26·1	24·8	31·5	80	..	4·2	..	5·4	0	0	26	7	0	8	3	2	1	1	4	4	0
Gonda	0830	110	1005·1	992·9	..	27·7	25·3	24·3	30·2	83	+2	5·0	+0·8	3·9	0	0	24	1	1	19	0	0	1	0	2	6	0
	1730	,,	1001·8	989·6	..	28·7	25·7	24·3	30·5	78	..	4·7	..	1·6	0	0	15	3	0	6	2	1	0	1	2	15	0
Lucknow	0830	111	1004·1	991·6	—1·0	26·9	25·5	25·0	31·5	88	+9	4·6	+1·0	2·9	0	0	25	1	8	7	2	1	1	4	1	5	0
	1730	,,	1001·3	988·9	..	28·5	25·5	24·1	30·2	78	..	5·0	..	2·9	0	0	29	2	9	0	9	0	0	1	8	1	0
Lucknow (Amausi)	0230	128	1002·9	988·5	..	25·4	24·7	24·3	30·4	94	..	4·3	..	6·0	0	1	18	2	5	5	1	1	0	1	4	11	0
	0530	,,	1003·1	988·7	..	24·9	24·3	24·0	29·8	95	..	5·3	..	6·8	0	2	17	0	6	7	1	0	0	2	3	11	0
	0830	,,	1004·5	990·3	—0·5	26·8	25·3	24·3	30·9	85	+10	5·5	+1·9	10·5	0	3	23	1	3	9	3	1	1	3	5	4	0
	1130	,,	1004·4	990·2	..	29·2	25·7	24·1	30·0	75	..	5·6	..	13·1	0	7	19	2	2	10	4	1	1	3	3	4	0
	1730	,,	1001·4	987·1	..	28·3	25·2	23·7	29·7	77	..	5·5	..	9·0	0	0	25	3	4	5	4	2	0	3	4	5	0
	2330	,,	1003·8	989·4	..	25·7	24·6	24·1	30·0	91	..	4·3	..	7·5	0	1	23	0	7	7	2	1	0	6	1	6	0
Faizabad	0830	102	1004·7	993·3	..	27·4	25·6	24·7	31·3	86	..	5·3	..	4·3	0	0	23	0	7	5	8	0	0	1	2	7	0
	1730	,,	1001·4	990·1	..	28·0	25·8	24·7	31·5	84	..	5·3	..	2·9	0	0	20	2	4	2	6	1	0	4	1	10	0
Gorakhpur	0830	77	1004.7	995.6	—1.2	28.4	25.8	24.7	30.0	81	0	4.3	+0.9	7.3	0	0	30	2	6	15	1	2	0	4	0	0	0
	1730	,,	1000.6	992.6	..	29.8	26.1	24.6	30.9	74	..	4.6	..	4.9	0	0	26	3	4	4	5	4	0	4	2	4	0
Gorakhpur P.B.O.	0230	78	1003.3	994.5	..	27.0	25.5	24.9	31.5	89	..	4.8	..	5.8	0	1	25	2	12	5	3	1	3	0	0	4	0
	0530	,,	1003.5	994.7	..	26.3	25.1	24.6	30.9	90	..	4.7	..	7.1	0	2	25	2	13	7	2	0	3	0	0	3	0

(R) Register not received

Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or hight in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in m. per hour	Wind speed (Km.p.h.): 62 to more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Clam	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
	1130	,,	1004.7	996.0	..	30.1	26.6	25.5	32.6	77	..	5.4	..	9.0	0	1	28	1	2	17	2	1	4	1	1	1	0
	2330	,,	1004.2	995.4	..	27.3	25.6	25.0	31.7	88	..	4.0	..	6.3	0	0	28	1	9	9	4	0	2	3	0	2	0
Kanpur . . .	0830	126	1005.3	991.1	+0.1	26.6	25.1	24.3	30.5	87	+5	5.2	+2.6	6.1	0	0	30	5	4	8	4	1	1	4	3	0	0
	1730	,,	1002.1	988.0	..	29.1	25.3	23.5	29.1	74	..	5.1	..	6.8	0	0	29	7	3	9	3	1	0	3	3	1	0
Kanpur (Aerodrome)	0530	126	1003.4	989.0	..	25.3	24.5	24.2	30.0	91	..	5.4	..	6.5	0	0	22	2	3	10	3	0	0	1	3	8	0
	0830	,,	1004.1	990.0	..	27.3	25.0	23.9	29.7	83	..	5.5	..	12.6	0	6	22	4	2	10	5	1	0	2	4	2	0
	1130	,,	1004.7	990.5	..	29.9	25.6	23.6	29.3	70	..	5.4	..	15.0	0	5	25	5	4	10	5	1	0	1	4	0	0
	1730	,,	1001.6	987.3	..	29.0	25.0	23.0	28.4	72	..	5.2	..	12.4	0	2	26	5	4	10	2	2	1	0	4	2	0
	2330	,,	1004.0	989.6	..	26.2	24.7	24.4	30.0	88	..	3.3	..	7.8	0	1	19	1	2	7	3	2	0	1	4	10	0
Sultanpur . .	0830	97	1004.8	993.9	..	27.4	25.8	25.6	31.9	87	..	5.2	..	2.9	0	0	22	0	0	13	5	0	0	2	2	8	0
	1730	,,	1001.3	990.4	..	28.5	25.9	24.8	31.1	83	..	4.9	..	2.2	0	0	20	0	3	9	1	0	0	4	3	10	0
Azamgarh . .	0830	78	1004.4	995.5	..	27.4	26.0	25.5	32.4	89	..	5.1	..	5.5	0	0	30	1	0	23	0	0	0	6	0	0	0
	1730	,,	1001.2	992.5	..	29.2	26.6	25.6	32.6	81	..	5.7	..	4.8	0	0	30	2	1	21	0	0	0	5	0	0	0
Fatehpur . .	0830	114	1004.7	991.9	..	26.9	25.1	24.3	30.4	89	+8	5.2	+1.5	7.3	0	1	29	2	4	11	3	2	1	3	4	0	0
	1730	,,	1001.3	988.6	..	28.7	25.7	24.3	30.5	78	..	4.5	..	6.1	0	0	30	3	7	9	2	1	2	0	6	0	0
Ballia . . .	0830	64	1003.1	996.1	..	28.0	26.2	25.4	32.4	82	..	4.5	..	2.4	0	0	17	0	1	11	5	0	0	0	0	13	0
	1730	,,	1002.2	995.1	..	29.8	27.2	25.9	34.0	80	..	4.6	..	1.3	0	0	11	1	2	7	1	0	0	0	0	19	0
Banda . . .	0830	121	1005.1	991.5	..	26.6	25.8	25.1	32.6	90	..	4.3	..	3.4	0	0	30	0	11	0	6	0	3	0	10	0	0
	1730	,,	999.3	985.8	..	29.3	26.6	25.4	32.4	82	..	4.0	..	2.1	0	0	30	0	10	0	4	0	6	0	10	0	0
Allahabad (Bamrauli)	0230	98	1002.7	991.7	..	25.7	24.8	24.5	30.5	93	..	5.0	..	3.7	0	1	18	1	3	8	3	1	1	1	1	11	0
	0530	,,	1002.9	991.8	..	25.5	24.7	24.3	30.4	93	..	5.9	..	4.0	0	0	21	2	5	7	4	0	0	2	1	9	0
	0830	,,	1004.6	993.5	—0.8	27.3	25.3	24.5	30.0	85	+6	5.7	+1.2	6.0	0	1	23	3	3	5	5	1	0	3	4	6	0
	1130	,,	1004.2	993.3	..	30.2	26.2	24.4	30.7	72	..	5.8	..	7.9	0	0	30	3	4	7	5	1	2	3	5	0	0
	1730	,,	1001.1	990.2	..	28.7	25.7	24.3	30.5	78	..	5.4	..	6.1	0	1	26	3	5	6	4	0	2	1	6	3	0
	2330	,,	1003.8	992.7	..	25.9	24.8	24.3	30.4	91	..	5.0	..	4.4	0	1	17	4	3	7	1	0	1	2	0	12	0
Varanasi (Babatpur)	0530	85	1004.0	994.3	..	25.7	25.0	24.7	31.1	94	..	5.8	..	7.3	0	0	24	1	5	8	3	2	4	1	0	6	0
	0830	,,	1005.5	995.8	+0.3	27.7	25.8	24.9	31.5	85	+2	5.5	+0.5	12.5	0	4	24	1	0	8	10	1	1	2	5	2	0
	1130	,,	1005.0	995.4	..	29.9	26.1	24.3	30.5	70	..	5.4	..	16.0	0	9	20	1	2	6	11	0	3	2	2	1	2
	1730	,,	1002.0	992.4	..	29.1	26.0	24.7	0.9	78	..	4.6	.	11.8	0	5	24	1	2	7	7	2	1	2	5	1	2
	2330	,,	1004.6	994.9	..	26.9	25.6	25.0	31.9	89	..	4.1	..	10.6	0	3	24	2	1	7	7	3	1	3	3	3	0
Varanasi . .	0830	76	1004.9	996.4	—0.3	27.6	25.2	25.1	31.7	87	+7	6·2	+2.0	2.0	0	0	28	1	1	6	7	1	2	5	5	2	0
	1730	,,	1000.6	991.9	..	29.5	26.5	25.2	32.2	79	..	5.4	..	1.8	0	0	22	2	1	5	1	2	0	7	3	8	1
Uttar Pradesh (West)																											
Mukhim (R)	0830																										
(R)	1730																										
Theri . . (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun .	0530	682	1004.7	929.3	..	21.6	20.7	20.3	23.8	92	..	5.6	..	2.5	0	0	25	8	6	1	0	1	0	7	2	5	0
	0830	,,	1005.5	930.4	—0.1	24.0	21.9	30.9	24.7	84	+4	4·4	+0.6	1.4	0	0	21	1	3	1	5	3	0	6	2	9	0
	1130	,,	1004.9	930.8	..	26.7	23.2	21.4	25.5	72	..	4.9	..	3.1	0	0	30	1	0	0	6	7	8	7	1	0	0
	1730	,,	1001.9	927.9	..	26.1	23.1	21.7	25.8	77	..	4.3	..	1.5	0	0	22	1	3	0	1	1	1	11	4	8	0
	2330	,,	1004.8	929.6	..	21.5	21.5	20.9	24.7	89	..	3.9	..	3.3	0	0	22	7	6	1	1	2	0	3	2	8	0
Mansiari (R)	0830																										
(R)	1730																										
Roorkee . . .	0830	274	1005.8	975.2	+0.5	26.3	24.1	23.1	28.3	83	+4	3.8	+0.9	1.5	0	0	21	0	0	0	14	0	1	0	6	9	0
	1730	,,	1003.3	97.3	..	30.1	25.3	23.2	28.1	68	..	4.3	..	1.5	0	0	22	0	0	0	13	0	1	0	8	8	0
Nagibabad . .	0830	270	1005.3	975.2	..	26.5	24.1	23.0	28.1	83	..	3.8	..	2.4	0	0	23	0	9	0	8	1	3	0	2	7	0
	1730	,,	1002·0	972.4	..	30.2	25.1	22.5	27.6	65	..	3.8	..	2.5	0	0	22	0	7	0	4	2	5	0	4	8	0
Meerut . . .	0830	222	1005.1	980.2	—0.2	27.5	25.1	24.0	29.8	83	+7	1.2	—1.2	5.4	0	0	28	0	3	8	7	0	0	9	1	2	0
Bareilly . . .	0830	173	1005.1	985.7	—0.2	27.6	25.3	24.	30.2	82	+2	4.4	+1.1	7.1	0	1	28	1	5	12	4	0	1	2	4	1	0
	1730	,,	1001.6	982.4	..	28.7	25.6	24.1	30.4	77	..	4.4	..	1.6	0	0	17	0	0	10	0	0	3	4	0	13	0
Bareilly PBO. . .	0230	172	1003.2	983.9	..	26.0	24.5	23.9	29.5	88	..	3.4	..	5.2	0	1	16	0	0	10	2	1	0	1	3	13	0
	0530	,,	1003.5	984.1	..	25.5	24.2	23.7	29.3	89	..	4.9	..	4.7	0	1	21	1	3	12	1	0	0	3	2	8	0
	1130	,,	1004.7	985.5	..	29.3	25.7	24.4	30.0	76	..	5.4	..	6.7	0	1	25	1	0	9	7	2	0	0	7	4	0
	2330	,,	1003.8	984.5	..	26.3	24.6	23.8	29.5	87	..	3.0	..	5.1	0	1	22	0	1	10	4	2	0	3	3	7	0
Aligarh . . .	0830	187	1004.8	983.8	..	26.9	24.9	24.0	29.8	84	+13	3.9	+13	2.9	0	0	28	2	0	15	1	0	0	8	2	2	0
	1730	,,	1001.2	980.3	..	29.6	25.0	22.7	27.9	69	..	5.3	..	2.4	0	0	25	6	0	10	1	2	1	1	4	5	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or high in gpm. of nearest standard isobaric level	Mean pressure in millibars: At Station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from	Mean wind speed km. per hour	Wind speed (K. p.h.): 62 or more	Wind speed (K. p.h.): 20 to 61	Wind speed (K. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) (Contd.)																											
Mainpur	0830	157	1004.7	987.2	−0.3	26.9	25.3	24.3	30.9	83	+8	1.2	−2.2	1.3	0	0	13	0	0	1	7	1	0	0	4	17	0
	1730	,,	1001.6	984.2	..	29.2	25.5	23.8	29.5	74	..	1.4	..	1.2	0	0	12	0	0	2	4	2	0	0	4	18	0
Agra	0830	169	1004.8	985.9	−0.4	27.1	24.6	23.7	28.9	86	+11	2.1	−1.0	0.3	0	0	1	0	0	0	1	0	0	0	0	29	0
	1730	,,	1001.3	982.6	..	29.4	25.4	23.5	29.1	72	..	4.8	..	1.7	0	0	6	0	2	0	3	0	0	0	1	24	0
Agra (Aerodrome)	0530	169	1003.3	984.2	..	24.5	23.7	23.4	28.1	93	..	3.9	..	6.4	0	1	19	2	0	9	3	0	1	3	2	10	0
	0830	,,	1004.7	985.7	..	26.8	25.7	24.2	30.4	86	..	4.0	..	8.9	0	2	22	2	1	7	4	0	1	4	5	6	0
	1130	,,	1004.6	985.9	..	29.9	25.8	23.8	29.8	71	..	4.4	..	11.6	0	2	27	4	2	6	6	1	2	2	6	1	0
	1730	,,	1001.5	982.8	..	28.7	25.1	23.4	28.9	74	..	4.9	..	8.3	0	1	25	4	5	4	6	1	1	0	5	4	0
	2330	,,	1003.9	984.9	..	25.5	24.1	23.3	28.8	87	..	3.1	..	5.7	0	1	17	1	1	8	2	0	4	1	1	12	0
Orai (R)	0830	141																									
(R)	1730	,,																									
Jhansi	0830	251	1005.1	977.2	0.5	27.5	24.9	23.7	29.3	81	+7	5.5	+2.6	1.2	0	0	18	6	1	2	1	0	0	5	3	12	0
	1730	,,	1001.6	973.9	..	29.7	25.0	22.7	27.9	68	..	5.8	..	1.1	0	0	17	8	2	1	1	0	0	4	1	13	0
Punjab (India) including Delhi																											
Pathankot	0530	312	1004.1	969.0	..	23.3	21.9	21.2	25.1	88	..	3.5	..	2.0	0	0	12	0	8	3	1	0	0	0	0	18	0
	0830	,,	1005.2	970.3	+0.2	25.3	22.7	21.3	25.3	79	+5	3.9	0.4	4.1	0	0	17	2	3	2	7	2	1	0	0	13	0
	1130	,,	1005.6	971.0	..	28.1	23.7	21.5	25.6	69	..	4.0	..	4.3	0	1	24	2	3	0	1	5	9	1	4	5	0
	1730	,,	1002.1	967.8	..	29.2	24.0	21.3	25.6	63	..	3.1	..	4.7	0	0	27	1	2	0	2	3	7	9	3	3	0
Amritsar (Rajasansi)	0530	234	1003.9	977.5	..	23.7	22.8	22.4	26.9	93	..	3.3	..	6.9	0	4	10	4	4	0	1	0	1	0	4	16	0
	0830	,,	1005.1	978.8	+0.5	25.7	23.6	22.6	27.3	84	+7	2.9	+0.9	6.4	0	3	14	2	3	3	4	1	0	1	3	13	0
	1130	,,	1005.6	979.5	..	28.7	24.5	22.6	27.3	71	..	4.0	..	11.3	0	7	20	1	4	7	6	2	0	2	4	3	1
	1730	,,	1002.1	976.3	..	29.8	24.5	22.0	26.3	65	..	2.4	..	9.0	0	2	23	2	4	5	2	1	2	3	5	5	1
Adamdur (Aerodrome)	*0530	238																									
	0830	,,	1003.7	977.2	..	24.9	23.7	23.1	28.5	91	..	3.7	..	8.6	0	3	23	3	1	4	6	4	2	0	6	4	0
	*1130	,,																									
	1730	,,	1001.0	974.9	..	28.5	24.5	23.1	27.4	74	..	3.6	..	9.7	0	1	28	3	1	6	4	1	1	4	9	1	0
	*2330	,,																									
Ludhiana	0830	247	1004.7	977.2	−0.3	25.4	23.7	23.1	27.9	87	+15	3.5	+1.7	3.5	0	0	4	1	0	0	2	0	0	1	0	26	0
	1730	,,	1001.4	974.4	..	29.2	25.3	23.7	28.9	72	..	3.3	..	3.3	0	0	26	4	2	4	2	2	0	7	5	4	0
Ferozepur	0830	200	1004.4	981.8	..	25.1	23.8	23.1	28.3	89	..	3.1	..	1.3	0	0	17	11	2	0	0	0	0	0	4	13	0
	1730	,,	1001.9	980.2	..	29.5	26.0	24.6	30.7	76	..	2.2	..	1.1	0	0	15	3	4	2	1	0	1	0	4	15	0
Halwara (Aerodrome)	0830	242	1005.9	978.8	..	25.3	24.0	23.1	28.6	87	.	3.8	..	8.5	0	1	24	3	1	5	7	0	1	1	7	5	0
	1730	,,	1003.9	976.9	..	28.9	24.4	21.9	26.9	68	..	3.4	..	12.1	0	3	27	4	1	7	4	0	1	1	12	0	0
Chandigarh	0830	347	1005.0	966.4	+0.7	26.2	22.5	22.3	26.6	80	+7	3.3	+0.6	6.1	0	1	23	0	2	0	12	0	7	0	3	6	0
	1730	,,	1001.4	963.3	..	28.2	23.9	21.8	25.8	67	..	4.0	..	4.0	0	0	29	0	2	0	4	0	11	0	12	1	0
Ambala	0830	272	1005.0	974.6	−0.1	25.8	24.0	23.2	28.4	86	+12	2.0	−0.5	2.6	0	0	19	0	3	0	7	0	0	2	7	11	0
	1730	,,	1001.0	971.4	..	29.3	25.2	23.3	28.6	72	..	1.1	..	1.8	0	0	17	1	1	0	12	0	0	1	2	13	0
Ambala (PBO)	0230	278	1003.1	972.0	..	25.3	23.6	22.8	27.6	87	..	3.1	..	7.2	0	1	24	1	3	3	10	0	0	1	7	5	0
	0530	,,	1003.1	972.2	..	24.6	23.2	22.6	27.3	89	..	3.4	..	5.7	0	1	21	0	1	7	6	0	2	1	5	8	0
	1130	,,	1005.3	974.4	..	28.7	24.5	22.8	27.3	71	..	4.4	..	7.5	0	2	24	0	1	0	14	0	2	1	8	4	0
	2330	,,	1003.6	972.5	..	26.0	23.9	23.1	27.9	85	..	2.6	..	7.2	0	1	21	1	6	0	5	0	0	5	5	8	0
Ambala (Aerodrome)	0530	274	1003.5	972.6	..	23.4	23.0	22.9	27.7	97	..	3.3	..	6.0	0	2	12	0	1	9	0	0	0	3	1	16	0
	0830	,,	1004.9	974.1	..	25.3	23.8	23.1	28.4	89	..	4.0	..	12.2	0	4	20	2	3	11	2	0	0	3	3	6	0
	1130	,,	1004.9	974.5	..	28.5	24.7	23.0	28.1	70	..	4.2	..	11.8	0	6	17	0	0	9	2	0	1	4	7	7	0
	1730	,,	1001.5	971.2	..	29.0	24.7	22.7	27.6	70	..	3.9	..	11.8	0	4	22	3	3	3	2	0	1	6	8	4	0
	2330	,,	1003.4	972.8	..	24.7	23.7	23.2	28.4	89	..	2.9	..	6.1	0	1	13	0	1	6	0	0	0	5	2	16	0
Patiala	0830	251	1004.9	976.8	..	26.2	24.1	23.1	28.3	84	..	3.6	..	6.8	0	0	24	0	0	6	12	0	0	0	6	6	0
	1730	,,	1002.2	974.8	..	28.9	24.3	22.1	26.6	69	..	3.1	..	6.1	0	0	19	5	1	0	4	0	0	0	9	11	0
Bhatinda	0830	211	1004.7	81.09	..	27.4	25.0	23.8	29.7	81	..	2.6	..	3.2	0	0	16	3	2	3	7	0	0	0	1	14	0
	1730	,,	1002.2	978.8	..	29.4	25.3	23.4	28.8	73	..	3.1	..	2.9	0	0	20	3	6	3	3	0	0	0	5	10	0
Karnal	0830	249	1003.6	976.0	..	28.1	24.7	23.2	28.3	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1001.1	973.5	..	29.5	25.2	23.1	28.4	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1003.7	978.8	..	24.0	23.3	23.0	27.9	94	..	2.6	..	3.1	0	0	22	0	1	6	3	1	5	6	0	8	0
	0830	,,	1004.9	980.2	−0.1	26.4	24.5	23.5	29.1	85	+20	2.8	+1.2	3.2	0	0	21	1	0	3	5	2	5	5	0	9	0
	1130	,,	1004.9	980.5	..	31.1	26.3	24.1	30.2	68	..	3.4	..	7.5	0	2	24	3	1	5	6	2	2	4	3	4	0
	1730	,,	1001.7	977.3	..	29.9	25.8	24.1	30.0	73	..	3.1	..	6.6	0	0	27	6	3	4	2	1	2	4	5	3	0
	2330	,,	1004.1	979.3	..	25.4	24.2	23.7	29.3	91	..	1.7	..	3.6	0	0	24	1	1	4	2	7	4	4	1	6	0

*Data not available. (R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperatrue in °C: Dry bulb	Mean temperatrue in °C: Wet bulb	Mean temperatrue in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) Including Delhi (*Contd*)																											
New Delhi (Safdarjang)	0230	216	1003.2	978.9	..	25.3	23.9	23.2	28.4	88	..	2.9	..	4·0	0	0	14	0	0	5	3	0	1	3	2	16	0
	0530	,,	1003.4	979.0	..	24.9	23.6	22.9	28.1	89	..	3.1	..	5.3	0	1	18	0	1	8	2	0	1	5	2	11	0
	0830	,,	1004.8	980.6	—0.4	27.1	24.3	23.0	28.1	79	+5	3.3	0	8.5	0	2	24	1	0	10	4	1	1	4	5	4	0
	1130	,,	1004.7	980.7	..	30.6	25.1	22.4	27.3	63	..	4.2	..	11.7	0	8	19	1	2	6	5	0	3	2	8	3	0
	1730	,,	1001.4	977·5	..	30.3	24.8	22.0	26.7	64	..	4.0	..	7.0	0	0	21	0	1	7	1	1	0	2	9	9	0
	2330	,,	1003.8	979.5	..	26.1	24.1	23.2	28.4	84	..	2.7	..	5.8	0	3	13	1	0	6	3	2	1	1	2	14	0
Palam (Aerodrome)	0230	233	1003.2	977.0	..	24.4	23.9	23.6	29.5	94	..	2.9	..	6.8	0	1	22	1	2	7	4	3	4	1	1	7	0
	0530	,,	1003.5	977.2	..	23.8	23.4	23.2	28.4	97	..	3.2	..	10.1	0	2	26	0	4	7	4	5	6	1	1	2	0
	0830	,,	1004.8	978.9	..	26.6	24.9	24.0	30.0	85	..	3.2	..	11.0	0	4	23	2	7	6	2	3	1	6	0	3	0
	1130	,,	1004.7	978.9	..	20.3	26.2	24.4	30.7	73	..	4.4	..	16.1	0	8	22	3	6	6	1	2	1	3	8	0	0
	1430	,,	1002.1	976.6	..	31.5	26.1	24.4	29.3	67	..	4.8	..	15.9	0	9	20	3	6	6	2	2	1	3	6	1	0
	1730	,,	1001.4	975.6	..	29·9	25.8	23.7	30.0	71	..	4.1	..	12.4	0	2	28	2	7	7	2	1	1	3	7	0	0
	2030	,,	1002.3	976.5	..	26.7	24.5	23.7	29.3	86	..	2.9	..	7.9	0	3	22	2	3	8	3	1	2	2	4	5	0
	2330	,,	1003.8	977.6	..	25.0	24.2	23.3	29.5	92	..	2.9	..	9.2	0	3	22	0	4	7	4	5	1	1	3	5	0
Himachal Pradesh																											
Mandi	0830	761	1005.4	922.2	+0.4	22.3	20.5	19.7	22.7	87	+1	4.2	+0.4	0.1	0	0	1	0	0	0	0	0	0	0	1	29	0
	1730	,,	1001.6	919.4	..	25.6	22.8	20.6	25.5	78	..	6.1	..	0.3	0	0	2	0	0	0	0	0	0	1	1	28	0
Bilaspur	*0830	493	1005.0	940.0	..	23.1	22.2	21.9	26.1	93	..	2.0	..	0.1	0	0	1	0	0	0	0	0	0	0	1	23	0
	†1730	,,	1001.0	937.1	..	27.5	23.7	22.2	25.6	74	..	1.5	..	0.1	0	0	1	0	1	0	0	0	0	0	0	27	0
Jammu and Kashmir.																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3045.9	661.8	..	7.5	2.6	−3.4	4.5	47	..	3.4	..	(b) 6.7	0	0	24	1	21	0	2	0	0	0	0	5	0
	0830	,,	3051.2	662.8	−4.4	11.9	5.4	2.1	5.3	42	−8	3.8	+0.9	2.8	0	0	13	0	1	0	2	7	3	0	0	17	0
	1730	,,	2999.1	659.5	..	17.6	8.5	−0.4	6.0	32	..	3.8	..	7.8	0	0	26	2	1	0	1	7	4	4	0	4	0
Srinaga	0830	1587	1482.7	839.8	−0.1	16.0	14.0	12.8	14.8	82	−3	3.9	+1.6	1.5	0	0	15	1	1	3	4	2	0	0	4	15	0
	1130	,,	1480.0	839.7	..	21.3	16.2	13.5	14.8	62	..	3.8	..	2.3	0	0	15	4	1	0	3	2	11	1	3	15	0
	1730	,,	1451.7	837.1	..	22.1	16.2	12.5	14.8	58	..	3.9	..	3.3	0	0	20	3	2	3	1	1	0	6	4	10	0
Srinagar (Aerodrome)	0530	1666	1464.9	830.6	..	13.8	11.9	10.5	12.8	81	..	3.7	..	1.3	0	0	4	0	1	1	1	0	0	1	0	26	0
	0830	,,	1472.0	831.5	..	16.5	13.4	11.3	13.6	73	..	4.1	..	3.4	0	0	21	3	2	3	2	5	0	1	5	9	0
	1130	,,	1472.5	831.7	..	20.9	15.3	11.7	13.8	58	..	4.2	..	4.7	0	1	20	4	4	3	2	2	0	3	3	9	0
	1730	,,	1443.1	829.2	..	22.9	15.1	10.0	12.0	49	..	4.3	..	5.7	0	1	19	3	3	1	1	3	1	1	7	10	0
	2330	,,	1463.9	830.7	..	15.7	12.7	10.7	12.9	73	..	2.6	..	1.9	0	1	4	0	0	1	2	0	0	1	1	25	0
Gulmarg	0830	2655	3104.6	739.1	−0.8	10.0	8.2	6.4	9.9	79	−7	4.1	+1.9	2.6	0	1	11	0	1	0	2	1	5	2	1	18	0
	1730	,,	3098.0	738.0	..	14.1	10.7	8.1	10.9	69	..	5.6	..	6.1	0	0	28	2	11	2	2	1	2	6	2	2	0
Banihal	0830	..	..	..	..	17.2	14.9	13.6	15.9	80	..	3.9	..	0.5	0	0	1	0	0	0	0	0	1	0	0	29	0
	1730	..	..	..	..	21.0	16.3	13.7	14.8	64	..	4.5	..	3.2	0	1	12	0	0	1	5	0	6	1	0	17	0
Jammu	0830	..	..	..	..	27.4	22.0	19.1	22.0	61	−7	..	..	..	0	0	30	9	9	0	3	6	3	0	0	0	0
Jammu (Aerodrome)	0530	292	1003.9	970.8	..	23.9	21.9	21.0	25.0	84	..	3.4	..	3.8	0	2	5	0	5	0	1	0	0	0	1	23	0
	0830	,,	1004.8	971.9	..	25.6	22.7	21.3	25.3	77	..	4.0	..	5.1	0	1	17	3	6	3	3	1	0	0	2	12	0
	1130	,,	1005.4	972.0	..	28.5	23.4	20.7	24.7	64	..	3.5	..	6.5	0	0	26	2	3	1	6	3	3	6	2	4	0
	1730	,,	1002.2	969.9	..	29.6	24.1	21.3	25.5	62	..	3.3	..	7.5	0	1	21	1	3	0	4	3	1	6	4	8	0
	2330	,,	1003.8	971.0	..	25.7	22.6	20.9	25.0	76	..	2.0	..	1.6	0	0	5	0	2	1	1	1	0	0	0	25	0
Rajasthan (West)																											
Ganganagar	0530	177	1003.4	983.5	..	24.6	22.9	21.7	26.4	86	..	2.8	..	0.4	0	0	3	0	2	1	0	0	0	0	0	27	0
	0830	,,	1004.5	984.6	−0.2	25.8	23.4	22.3	26.7	81	+12	2.4	+1.0	1.7	0	0	17	0	3	2	6	0	5	1	0	13	0
	1130	,,	1004.9	985.3	..	30.7	25.1	22.3	27.3	63	..	2.5	..	2.7	0	0	21	2	4	2	3	0	3	2	4	9	1
	1730	,,	1001·6	982·0	..	30·9	24·9	22·0	26·6	62	..	2·7	..	2·0	0	0	18	7	4	1	4	0	0	1	1	12	0
	2330	,,	1004·1	984·4	..	26·1	23·4	22·2	26·6	79	..	1·6	..	0·9	0	0	9	0	3	2	1	3	0	0	0	21	0
Anaupgarh	(R)0830																										
	(R)1730																										
Mahajan	0830	187	1002·7	981·9	..	28·5	25·3	23·2	29·5	73	..	2·0	..	(b) 1·6	0	0	11	0	3	0	0	3	3	1	1	18	0
	1730	,,	1000·0	979·5	..	32·4	25·1	20·7	25·8	55	..	2·4	..	(c) 2·1	0	0	12	1	1	0	1	4	1	1	3	14	0

*Observations for 29 days. †Observations for 28 days. (R) Register not received. (b) Mean of 29 days. (c) Mean of 26 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SL	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)— *Contd.*																											
Churu	0830	291	1004·8	972·3	..	26·8	24·0	22·6	27·6	75	..	2·7	..	9·5	0	0	27	1	1	6	1	2	3	10	3	3	0
	1730	,,	1001·8	969·6	..	30·6	24·1	20·6	24·7	58	..	3·4	..	12·4	0	0	30	14	1	2	1	1	1	5	5	0	0
Bikaner	0830	224	1004·4	979·5	−0·7	27·4	23·6	21·5	25·9	70	+2	0·8	−0·7	4·8	0	0	30	2	2	2	6	3	5	5	5	0	0
	1730	,,	1001·1	976·6	..	32·7	23·5	18·2	21·4	47	..	1·7	..	5·1	0	0	30	4	5	1	1	2	9	3	5	0	0
Bikaner P.B.O.	0530	224	1002·9	977·7	..	25·3	23·4	22·5	27·3	85	..	2·1	..	2·1	0	0	10	1	1	0	0	2	4	2	0	20	0
	1130	,,	1004·4	979·7	..	32·4	25·7	22·4	27·4	57	..	2·6	..	4·7	0	0	26	0	1	2	3	3	8	3	6	4	0
	2330	,,	1003·2	988·2	..	27·1	23·9	22·3	26·7	76	..	2·1	..	1·5	0	0	10	0	4	1	0	4	1	0	0	20	0
Nagaur	0830	298	1004·7	971·6	..	27·8	24·1	22·4	27·1	71	..	2·8	..	6·9	0	0	30	1	3	2	3	2	3	9	7	0	0
	1730	,,	1001·1	968·8	..	31·9	25·0	22·0	26·4	58	..	3·3	..	9·8	0	2	28	4	4	2	0	6	7	3	4	0	0
Phalodi	0830	234	1003·0	978·9	..	26·8	24·2	22·8	28·1	79	..	2·4	..	14·4	0	2	27	2	2	1	1	2	11	8	2	1	0
	1730	,,	1002·7	977·0	..	32·1	25·5	22·2	27·3	58	..	3·1	..	16·0	0	9	21	3	3	1	4	5	10	2	2	0	0
Jaisalmer	0830	242	1004·4	977·4	..	26·5	22·4	20·0	23·7	67	..	2·0	..	16·7	0	7	20	3	2	0	1	10	9	1	1	3	0
	1730	,,	1000·5	974·2	..	33·5	23·0	17·6	19·5	41	..	3·1	..	17·4	0	10	18	3	3	1	0	11	10	0	0	2	0
Jodhpur	0230	224	1003·2	978·2	..	26·7	23·4	21·6	25·9	75	..	2·7	..	4·9	0	0	20	0	4	1	0	0	10	4	1	10	0
	0530	,,	1003·3	978·1	..	25·5	22·9	21·5	25·8	79	..	2·8	..	6·4	0	0	26	2	5	0	0	1	9	8	1	4	0
	0830	,,	1005·0	979·9	+0·2	26·6	23·9	22·2	27·1	75	+2	3·5	+0·3	9·8	0	2	27	0	3	4	1	1	5	13	2	1	0
	1130	,,	1005·1	980·3	..	31·0	24·8	21·3	26·3	58	..	4·2 (b)	..	11·7	0	3	24	0	3	3	1	0	7	11	2	3	0
	1730	,,	1001·0	976·5	..	33·0	24·7	20·0	24·3	49	..	4·0	..	8·1	0	0	27	1	5	3	0	1	9	6	2	3	0
	2330	,,	1003·0	979·0	..	27·6	23·5	21·3	25·3	70	..	7·8	..	4·9	0	0	22	2	3	2	1	2	10	1	1	8	0
Barmer	0530	194	1003·2	981·3	..	26·1	23·2	21·6	25·9	78	..	2·7	..	3·9	0	0	25	0	0	0	1	1	9	12	2	5	0
	0830	,,	1004·8	983·1	−0·5	27·3	23·6	21·6	25·9	73	+2	3·1	+0·5	2·9	0	0	26	1	0	1	0	3	6	11	4	4	0
	1130	,,	1004·5	983·1	..	32·6	24·6	20·4	24·4	50	..	3·8	..	3·1	0	0	27	3	2	0	1	2	11	7	1	3	0
	1730	,,	1000·6	979·4	..	34·4	24·5	19·1	22·7	43	..	4·1	..	3·3	0	0	26	3	2	1	1	2	9	8	0	4	0
	2330	,,	1003·6	982·0	..	29·3	23·3	19·8	23·7	58	..	2·4	..	3·6	0	0	29	1	0	1	2	2	17	4	2	1	0
Munabao	0830	80	1005·0	996·1	..	26·9	23·7	22·0	26·7	76	..	(h) 4·7 (g)	..	(h) 10·2 (g)	0	3	19	1	0	2	0	5	0	1	1	1	2
	1730	,,	1001·0	992·2	..	34·0	24·9	20·3	24·1	46	..	3·3	..	9·3	0	2	22	2	3	0	0	3	12	1	2	0	1
Rajasthan (East)																											
Pilani	0830	301	1004·6	971·2	..	27·3	23·4	21·5	25·6	71	..	1·2	..	11·0	0	0	30	1	3	3	3	0	9	8	3	0	0
	1730	,,	1001·4	968·4	..	29·9	23·6	20·1	24·3	55	..	2·4	..	12·5	0	4	26	8	3	5	2	1	1	7	3	0	0
Sikar	0830	433	1005·3	957·5	..	26·8	24·1	22·9	27·6	78	..	4·0	..	2·4	0	0	24	1	0	4	7	0	1	8	3	6	0
	1730	,,	1001·5	954·3	..	29·7	24·9	22·0	27·4	68	..	3·7	..	1·3	0	0	13	0	2	3	0	1	0	5	2	17	0
Alwar	0830	271	1003·5	973·2	..	26·3	24·4	23·5	28·9	85	..	3·7	..	1·8	0	0	11	0	2	2	5	2	0	0	0	19	0
	1730	,,	1001·3	971·7	..	29·9	24·8	22·3	26·9	66	..	4·5	..	1·3	0	0	14	2	2	2	1	2	2	1	2	16	0
Jaipur (Sanganer)	0230	390	1002·7	959·3	..	24·2	22·9	22·2	26·7	89	..	2·5	..	4·0	0	0	22	7	0	8	1	0	1	2	3	8	0
	0530	,,	1003·0	959·4	..	23·7	22·6	22·0	26·4	90	..	3·7	..	4·6	0	1	21	8	3	5	2	0	1	0	3	8	0
	0830	,,	1004·3	961·0	−2·0	26·5	23·8	22·4	27·0	79	+7	3·6	+0·8	8·9	0	1	25	3	0	9	1	0	0	4	9	4	0
	1130	,,	1003·9	961·2	..	29·5	24·3	21·6	25·8	64	..	4·0	..	11·3	0	2	28	3	0	8	2	0	2	6	9	0	0
	1730	,,	1001·0	958·3	..	29·3	24·3	21·8	26·1	66	..	4·3	..	8·9	0	1	28	1	1	7	2	2	0	6	10	1	0
	2330	,,	1003·7	960·2	..	24·9	23·1	22·1	26·6	85	..	2·9	..	4·6	0	0	23	5	0	9	2	1	2	2	2	7	0
Dholpur	0830	176	1004·1 (b)	984·3 (b)	..	27·1	24·9	23·7	30·0	82	..	4·3	..	4·4	0	1	18	0	2	3	3	1	1	7	2	11	0
	1730	,,	1001·0	981·4	..	29·2	25·1	23·1	28·3	71	..	5·5	..	3·7	0	0	19	2	6	1	2	1	2	3	2	11	0
Ajmer	0830	486	1004·8	951·1	−1·6	25·6	22·2	20·6	24·3	74	+7	3·6	+0·8	10·3	0	1	27	0	3	2	2	0	9	10	2	2	0
	1730	,,	1001·2	948·4	..	29·5	23·2	20·1	23·8	59	..	4·4	..	10·2	0	2	28	5	2	5	1	1	4	6	6	0	0
Tonk	0830	272	1003·6	973·2	..	26·2	24·2	23·7	28·6	86	..	3·8	..	6·5	0	0	29	1	3	5	1	3	3	3	10	1	0
	1730	,,	1000·0	970·1	..	29·9	25·5	23·5	28·9	69	..	4·0	..	5·4	0	0	30	2	3	6	2	0	1	4	12	0	0
Bhilwara	0830		..	..	..	25·1	22·9	21·9	26·3	83	..	4·5	..	9·5	0	0	28	6	4	2	1	0	10	3	2	2	0
	1730	,,	..	..	..	29·9	23·7	20·4	24·3	59	..	6·0	..	11·0	0	3	25	6	6	1	1	2	5	0	5	2	2
Kota (Aerodrome)	0530	274	1003·5	972·6	..	24·9	23·5	22·8	27·7	88	..	4·7	..	11·3	0	3	25	3	5	1	0	0	5	14	0	2	0
	0830	,,	1004·7	974·2	..	26·5	23·9	22·6	27·4	80	..	4·6	..	13·7	0	5	25	2	1	6	1	0	3	11	6	0	0
	1130	,,	1004·7	974·4	..	29·5	24·7	22·3	26·9	66	..	4·7	..	15·7	0	9	20	2	3	6	0	0	2	8	8	1	0
	1730	,,	1001·3	971·1	..	29·6	24·5	21·9	26·4	65	..	5·3	..	11·9	0	2	26	9	1	3	1	1	2	7	4	2	0
	2330	,,	1003·9	973·4	..	25·9	24·0	23·1	28·3	85	..	3·7	..	10·5	0	4	24	1	2	2	0	0	9	11	3	2	0
Kota	0830	257	1004·8	976·2	−1·1	27·4	24·2	22·9	27·6	77	+8	4·5	+1·5	4·4	0	0	22	0	2	0	0	0	1	16	3	8	0
	1730	,,	1002·1	973·7	..	29·0	24·9	23·0	28·1	72	..	5·4	..	1·3	0	0	11	2	0	0	1	0	0	6	2	19	0
Erinpura (Jawai Dam)	0820	295	1005·8	972·8	..	26·0	23·5	22·2	26·7	81	..	4·1	..	2·5	0	0	16	0	1	0	0	5	5	5	0	14	0
	1730	,,	1002·0	969·4	..	30·1	24·7	22·2	26·6	63	..	4·2	..	2·5	0	0	15	0	1	0	2	1	7	3	1	15	0

(g) Mean of 24 days. (b) Mean of 29 days. (h) Mean of 23 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibrs: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibrs: At station level	Mean pressure in millibrs: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—*Contd.*																											
Chambal (Rawat Bhatta Dam)	0830	351	1004.8	965.7	..	25.6	23.7	22.8	27.6	84	..	4.2	..	4.0	0	0	28	1	3	1	3	1	6	6	7	2	0
	1730	,,	1001.5	963.1	..	28.7	24.5	22.2	27.4	69	..	4.7	..	4.5	0	0	29	1	7	2	2	1	5	6	5	1	0
Udaipur	0230	582	1004.2	939.9	..	22.7	21.5	20.9	24.7	90	..	0.4	..	0.3	0	0	3	0	0	0	0	1	1	1	0	27	0
	0530	,,	1004.4	939.9	..	22.0	21.0	20.5	24.1	91	..	3.7	..	0.5	0	0	2	0	0	0	0	0	0	2	0	28	0
	0830	,,	1005.7	941.6	—1.3	24.9	22.1	20.8	24.3	78	+3	4.1	+1.2	1.9	0	0	11	1	2	0	0	2	2	1	3	19	0
	1130	,,	1004.9	941.6	..	28.4	23.3	20.8	24.4	64	..	4.5	..	4.0	0	0	22	2	4	1	2	3	1	3	6	8	0
	1730	,,	1002.1	938.8	..	27.6	23.2	21.0	24.9	69	..	5.7	..	3.7	0	0	21	0	3	2	0	2	7	3	4	9	0
	2330	,,	1005.3	941.0	..	23.4	21.7	21.4	24.6	88	..	3.1	..	1.1	0	0	6	0	0	2	0	1	2	1	0	24	0
Jhalawar	0830	321	1004.4	968.5	—1.4	25.2	23.6	22.6	27.7	85	+4	4.3	+0.5	2.3	0	0	22	3	2	1	0	0	5	6	5	8	0
	1730	,,	1001.1	965.8	..	28.9	24.7	23.2	27.7	72	..	4.7	..	3.4	0	0	29	4	5	1	1	0	1	6	11	1	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1002.8	979.6	..	25.1	24.0	23.4	28.9	91	..	4.0	..	3.9	0	1	18	0	1	5	2	2	2	5	2	11	0
	0530	,,	1003.2	979.9	..	24.6	23.6	23.1	28.3	91	..	4.7	..	4.6	0	2	20	0	3	4	2	3	3	5	2	8	0
	0830	,,	1004.6	981.5	—0.2	27.0	24.7	23.6	29.1	82	+6	5.2	+1.4	7.0	0	2	27	1	4	6	3	2	1	2	10	1	0
	1130	,,	1004.3	981.4	..	29.9	25.5	23.5	28.9	69	..	5.7	..	9.5	0	3	27	1	5	6	2	1	0	5	10	0	0
	1730	,,	1001.5	978.5	..	28.5	24.9	23.2	28.4	75	..	5.6	..	6.3	0	1	28	4	4	5	2	4	0	1	9	1	0
	2330	,,	1003.9	980.7	..	25.3	24.2	23.7	29.3	90	..	4.2	..	4.7	0	0	26	2	3	6	4	3	5	2	1	4	0
Sheopur	0830	235	1004.6	978.3	—0.2	26.4	24.7	23.9	29.7	87	+6	4.8	+0.1	7.3	0	1	28	5	6	1	2	4	5	3	3	1	0
	1730	,,	1001.2	975.2	..	28.5	25.4	23.9	29.7	75	..	4.9	..	7.7	0	1	26	5	8	5	2	1	2	2	2	3	0
Shivpuri	0830	464	1004.2	952.9	..	25.1	23.3	22.5	27.3	86	..	4.8	..	9.1	0	2	27	3	3	5	1	2	3	7	4	1	0
	1730	,,	1001.5	950.7	..	27.4	24.0	22.5	27.3	76	..	5.4	..	7.8	0	1	29	1	8	1	3	2	4	2	9	0	0
Nowgong	0830	229	1004.5	978.9	—1.2	6.4	24.8	24.1	30.0	87	+6	5.6	+1.6	6.2	0	0	27	3	5	3	2	2	5	4	3	3	0
	1730	,,	1001.2	975.9	..	29.0	25.2	23.5	28.9	73	..	5.6	..	5.1	0	0	26	5	8	2	0	4	4	1	2	4	0
Guna	0530	478	1003.3	950.0	..	22.5	21.9	21.7	25.8	95	..	5.6	..	7.9	0	3	17	3	1	3	1	4	0	4	4	10	0
	0830	,,	1004.5	951.6	—1.1	25.2	23.4	22.6	27.4	86	+3	5.3	+1.6	7.3	0	2	27	2	2	4	1	2	2	13	3	1	0
	1130	,,	1104.3	952.1	..	27.8	24.3	22.9	27.9	75	..	6.5	..	12.4	0	6	23	5	1	3	1	2	1	6	10	1	0
	1730	,,	1001.3	948.9	..	26.9	23.7	22.3	26.9	77	..	5.9	..	11.7	0	2	28	5	2	3	0	1	0	8	11	0	0
	2330	,,	1004.1	951.0	..	23.7	22.6	22.1	26.6	91	..	4.3	..	5.5	0	2	19	2	2	3	3	5	2	3	1	9	0
Nimach	0830	496	1005.7	950.8	—1.2	24.5	22.7	21.9	26.3	85	+6	5.5	+1.9	10.5	0	3	24	0	4	1	0	0	7	10	2	3	0
	1730	,,	1002.5	948.3	..	27.7	23.2	21.0	24.9	68	..	5.3	..	11.1	0	3	27	5	7	0	0	0	7	9	0	0	0
Rajgarh	0830	382	1004.3	961.7	..	24.6	23.3	22.6	27.6	89	..	5.8	..	5.2	0	0	29	8	0	3	0	2	5	11	0	1	0
	1730	,,	1001.2	959.2	..	27.8	24.0	22.0	26.7	72	..	6.3	..	4.5	0	0	30	11	0	3	0	2	4	10	0	0	0
Sagar	0830	551	1004.3	943.7	—1.3	24.3	22.7	22.0	26.4	87	+6	4.9	+0.7	7.5	0	0	30	1	3	6	1	0	4	9	6	0	0
	1730	,,	1000.9	940.8	..	26.5	23.3	21.8	26.1	77	..	5.7	..	4.5	0	0	28	0	3	4	0	0	3	10	8	2	0
Ratlam	0830	486	1005.7	951.7	—0.5	24.2	22.5	21.7	25.9	87	—1	6.0	—0.2	9.7	0	1	29	2	3	2	0	0	5	14	4	0	0
	1730	,,	1002.3	949.0	..	27.3	23.6	21.7	26.3	72	..	6.4	..	9.9	0	1	29	2	3	1	1	1	4	11	7	0	0
Bhopal (Bairagarh)	0230	523	1003.3	945.3	..	23.0	22.2	21.8	26.1	93	..	5.6	..	11.2	0	5	23	4	3	1	2	1	2	6	9	2	0
	0530	,,	1003.3	945.3	..	22.5	21.9	21.6	25.8	95	..	6.5	..	13.1	0	8	21	2	4	1	0	3	2	6	11	1	0
	0830	,,	1005.0	947.2	—1.1	24.5	22.8	22.0	26.4	86	+3	6.6	+2.0	17.6	0	12	17	5	3	1	2	2	2	3	11	1	0
	1130	,,	1004.3	947.0	..	27.4	23.6	21.9	26.3	73	..	6.6	..	17.7	0	13	16	7	2	1	2	1	3	3	10	1	0
	1730	,,	1001.4	944.2	..	26.9	23.3	21.7	25.9	73	..	6.5	..	14.5	0	6	24	10	3	2	1	2	3	1	8	0	0
	2330	,,	1004.6	946.5	..	23.5	22.4	21.9	26.3	91	..	5.9	..	10.1	0	2	24	7	3	1	1	1	2	5	6	4	0
Ujjain	0830	..	..	..	..	24.6	23.0	22.3	26.9	87	..	5.3	..	13.2	0	6	21	1	1	1	0	0	1	12	11	3	0
Narsinghpur	0830	356	1004.6	964.9	..	25.4	23.8	23.0	28.1	87	..	4.9	..	6.7	0	0	27	3	2	0	2	1	8	3	8	3	0
	1730	,,	1000.6	961.9	..	28.3	24.5	22.8	27.6	73	..	4.5	..	4.9	0	0	27	4	3	0	2	2	4	9	3	3	0
Hoshangabad	0830	302	1005.3	971.4	—1.7	24.8	23.7	23.1	28.3	90	+5	5.9	+0.9	6.7	0	0	30	1	3	2	0	4	13	5	2	0	0
	1730	,,	1001.1	967.8	..	27.4	24.5	23.1	28.3	78	..	5.8	..	5.6	0	0	29	4	1	2	1	3	10	4	4	1	0
Indore	0530	567	1003.7	940.8	..	22.5	21.6	21.1	25.0	92	..	5.5	..	10.9	0	4	23	1	3	1	0	0	8	13	1	3	0
	0830	..	1005.3	942.7	—1.9	23.7	22.3	21.7	25.9	89	+6	5.7	+0.3	14.2	0	3	27	2	3	2	0	0	5	13	5	0	0
	1130	..	1004.8	924.7	..	26.3	23.1	21.7	25.9	76	..	5.3	..	14.3	0	8	22	3	2	3	0	1	7	9	5	0	0
	1730	..	1001.8	939.7	..	25.9	22.8	21.3	25.3	77	..	5.8	..	14.0	0	4	26	5	2	1	1	1	5	8	7	0	0
	2330	,,	1004.8	942.1	..	23.3	22.1	21.5	25.6	90	..	5.1	..	9.7	0	1	27	5	4	1	1	1	9	5	2	2	0
Rajpur (Jhabra)	0	93	1006.4	973.5	..	24.8	23.4	22.7	27.6	88	..	5.7	..	9.3	0	1	24	0	0	1	0	0	6	18	0	5	0
	1730	,,	1002.9	970.5	..	28.0	24.2	22.3	27.1	72	..	6.1	..	12.3	0	5	25	0	2	0	0	0	12	16	0	0	0
Chhindwara	0830	685	1004.6	929.5	—0.7	23.7	22.0	21.2	25.2	86	+4	5.7	+0.6	6.7	0	0	30	7	2	1	2	1	4	3	10	0	0
	1730	,,	1001.1	926.7	..	25.7	22.3	20.7	24.4	75	..	6.2	..	8.1	0	2	28	3	5	1	2	0	4	4	11	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Meanpressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Meanpressure in millibars: At station level	Meanpressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observtions: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Seoni	0830	619	1003.9	936.0	—1.9	24.1	22.6	21.9	26.3	87	+8	6.5	+2.2	4.5	0	0	28	4	1	2	2	0	6	3	10	2	0
	1730	,,	1001.1	933.8	..	26.2	23.0	21.7	25.8	77	..	6.8	..	4.1	0	0	28	2	6	1	4	0	4	1	10	2	0
Betul	0830	653	1005.6	933.5	—0.7	22.9	22.0	21.5	25.6	92	+6	7.0	+0.9	7.7	0	0	29	1	1	3	1	2	5	9	7	1	0
	1730	,,	1001.7	930.4	..	25.0	22.6	21.5	25.6	82	..	7.3	..	6.4	0	0	30	5	4	1	1	1	5	5	8	0	0
Khandwa	0830	318	1005.8	970.1	—1.5	24.9	23.3	22.5	27.3	87	+6	6.4	+2.0	3.5	0	0	30	3	0	0	2	2	8	10	5	0	0
	1730	,,	1002.1	966.9	..	27.7	24.3	22.7	27.6	75	..	6.8	..	3.7	0	0	29	3	0	0	0	1	11	4	10	1	0
Madhya Pradesh (East).																											
Satna	0530	317	1003.0	967.5	..	26.4	23.7	23.4	28.8	94	..	5.2	..	2.0	0	0	19	0	3	3	2	2	1	5	3	11	0
	0830	,,	1004.2	968.9	—0.9	26.4	24.3	23.3	28.6	83	+3	4.8	+0.7	2.2	0	0	26	0	3	5	4	0	1	10	3	4	0
	1130	,,	1004.0	969.0	..	28.8	24.9	23.1	28.3	72	..	5.8	..	4.4	0	1	27	3	3	3	4	2	2	3	8	2	0
	1730	,,	1001.1	966.0	..	27.6	24.7	23.3	28.6	78	..	6.0	..	2.3	0	0	26	9	0	8	1	0	0	8	0	4	0
	2330	,,	1003.7	968.3	..	25.2	24.2	23.7	29.3	91	..	4.9	..	2.3	0	0	19	0	1	6	5	1	1	3	2	11	0
Sidhi	0830	..	..	..	..	26.8	24.5	23.5	28.9	82	..	3.7	..	1.5	0	0	11	2	0	0	1	3	1	0	4	19	0
	1730	,,	..	..	..	27.9	24.6	23.0	28.1	76	..	4.4	..	3.3	0	0	14	2	1	1	2	3	1	0	4	16	0
Umaria	0830	459	1004.2	953.5	..	25.7	23.9	23.1	28.3	86	+6	5.3	+0.1	6.9	0	0	28	1	1	7	1	5	3	8	2	2	0
	1730	,,	1000.7	950.4	..	27.3	24.5	23.2	28.4	79	..	6.7	..	5.9	0	0	30	9	2	3	1	4	2	8	1	0	0
Jabalpur	0530	393	1003.0	959.3	..	24.0	23.3	22.9	27.9	94	..	5.6	..	1.8	0	0	14	1	3	0	0	3	4	2	1	16	0
	0830	,,	1004.4	960.9	—1.1	26.0	24.1	23.2	28.6	85	+4	6.1	+1.6	4.8	0	1	26	2	3	4	3	3	2	8	2	3	0
	1130	,,	1003.6	960.5	..	28.8	24.9	23.1	27.9	72	..	5.7	..	5.9	0	0	28	2	5	2	3	3	5	6	2	2	0
	1730	,,	1000.7	957.7	..	28·2	24.6	22.9	27.9	73	..	6.8	..	4.5	0	1	22	3	5	1	2	2	2	4	4	7	0
	2330	,,	1003.8	960.1	..	24.9	23.8	23.3	28.6	91	..	5.6	..	2.0	0	0	9	0	2	2	1	1	2	1	0	21	0
Ambikapur	0830	611	1004.9	937.8	—0.2	25.0	23.0	22.1	26.6	84	—1	5.1	+0.7	6.1	0	0	29	2	3	3	5	7	6	3	0	1	0
	1730	,,	1001.3	934.8	..	26.3	23.4	22.1	26.6	79	..	4.5	..	6.1	0	0	30	5	4	5	3	3	3	4	3	0	0
Pendra	0530	625	1003.6	934.7	..	22.2	21.5	21.1	25.0	94	..	6.5	..	4.9	0	1	24	4	1	0	2	7	4	3	4	5	0
	0830	,,	1004.7	936.2	—1.1	24.4	22.6	21.8	26.1	85	+3	6.3	+2.0	6.3	0	1	29	6	2	0	4	5	5	4	4	0	0
	1130	,,	1003.7	935.8	..	27.1	23.5	21.8	26.3	74	..	6.6	..	8.1	0	0	30	8	3	1	3	6	5	2	2	0	0
	1730	,,	1001.2	933.1	..	25.8	23.2	22.0	26.4	80	..	6.9	..	7.1	0	0	28	4	2	0	1	12	4	3	2	2	0
	2330	,,	1004.5	935.6	..	22.9	22.0	21.5	25.6	92	..	5.8	..	5.2	0	0	25	5	1	1	1	5	4	4	4	5	0
Mandla	0830	443	1004.6	955.6	—0·7	25.4	23.5	22.5	27.3	84	—2	5.8	+0.4	3.2	0	0	18	5	3	1	1	5	0	1	2	12	0
	1730	,,	1000.7	952.2	..	27.6	24.1	22.4	27.3	75	..	5.7	..	3.8	0	0	22	6	0	0	5	5	1	2	3	8	0
Champa	0830	245	1004.8	977.5	—0.3	26.9	24.8	23.8	29.7	83	—1	5.9	—0.1	3.1	0	0	22	3	2	4	2	4	3	4	0	8	0
	1730	,,	1001.2	974.1	..	28.3	24.9	23.4	28.8	76	..	6.7	..	4.7	0	0	27	4	4	4	0	5	5	3	2	3	0
Raigarh	0830	220	1004.5	979.9	—0.4	27.3	24.9	23.9	29.5	82	—1	5.8	—0.4	2.9	0	0	27	2	6	1	6	3	3	6	0	3	0
	1730	,,	1000.6	976.2	..	29.1	25.3	23.6	29.1	73	..	6.9	..	1.9	0	0	20	2	6	2	4	0	2	4	0	10	0
Raipur	0530	298	1003.4	970.0	..	24.6	23.9	23.5	28.9	94	..	6.0	..	3.5	0	0	20	3	1	1	2	5	4	3	1	10	0
	0830	,,	1004.9	971.7	—0.9	26.9	24.6	23.5	28.9	81	0	5.6	+1.0	7.7	0	1	25	2	2	2	2	4	7	6	1	4	0
	1130	,,	1004.2	971.3	..	29.2	25.0	23.1	28.3	70	..	6.1	..	8.1	0	0	28	1	2	3	0	3	6	9	4	2	0
	1730	,,	1001.2	968.3	..	28.3	24.8	23.1	28.3	75	..	6.7	..	6.9	0	0	24	4	3	2	0	6	5	3	1	6	0
	2330	,,	1004.2	970.9	..	25.8	24.3	23.7	29.3	88	..	4.5	..	7.1	0	1	24	4	2	1	0	8	7	3	0	5	0
Kanker	0830	402	1004.8	960.3	—1.0	26.0	23.7	22.6	27.4	81	—1	5.3	—0.3	1.6	0	0	16	0	3	0	0	0	11	1	1	14	0
	1730	,,	1001.3	957.2	..	27.5	24.2	22.7	27.6	76	..	5.6	..	1.8	0	0	24	1	2	0	1	0	13	1	6	6	0
Jagdalpur	0530	553	1003.6	942.5	..	22.8	22.0	21.6	25.8	93	..	5.2	..	1.2	0	0	5	0	1	0	0	2	2	0	0	25	0
	0830	,,	1004.8	944.1	—1.4	25.3	23.1	22.1	26.6	83	—1	5.9	+0.9	4.3	0	0	21	3	1	1	0	4	9	3	0	9	0
	1130	,,	1003.7	943.5	..	27.5	23.7	22.0	26.6	72	..	6.1	..	7.1	0	1	23	2	3	0	2	2	6	4	5	6	0
	1730	,,	1001.3	941.1	..	26.3	23.5	22.3	26.9	79	..	7.1	..	3.3	0	0	17	1	3	0	0	5	4	2	2	13	0
	2330	,,	1004.3	943.4	..	23.8	22.6	22.1	26.6	90	..	5.1	..	2.1	0	0	9	2	0	0	0	3	2	1	1	21	0
Gujarat Region																											
Deesa	0830	136	1005·6	990.3	—1.4	26.6	24.3	23.2	28.6	82	..	2.8	..	6.3	0	0	29	1	1	1	8	2	3	7	6	1	0
	1730	,,	1002.0	986.9	..	31.8	25.6	22.3	27.7	60	..	3.9	..	5.2	0	0	30	1	2	1	6	4	6	7	3	0	0
Radhanpur	0830	30	1005.6	1002.2	..	27.4	25.0	23.9	29.7	81	..	3.2	..	6.8	0	1	28	1	1	0	5	3	8	5	6	1	0
	1730	,,	1002.4	999.1	..	32.2	25.7	22.5	27.6	58	..	2.9	..	7.2	0	0	29	1	4	1	2	1	15	3	2	1	0
Idar	0830	219	1005.9	981.2	..	25.6	23.3	22.2	26.6	82	..	5.4	..	6.0	0	0	29	2	1	1	4	0	6	13	2	1	0
	1730	,,	1002.0	977.9	..	30.2	24.2	21.1	25.3	60	..	5.7	..	4.6	0	0	29	0	2	2	4	0	2	18	1	1	0
Ahmadabad	0230	55	1004.3	998.0	..	25.5	23.6	22.6	27.4	85	..	4.4	..	10.9	0	2	27	3	2	0	1	4	5	12	2	1	0
	0530	,,	1004.2	998.0	..	24.7	23.5	22.9	27.9	90	..	4.4	..	9.8	0	0	28	0	3	1	2	1	2	13	6	2	0
	0830	,,	1006.0	999.7	—1.8	26.3	24.4	23.5	28.9	85	+9	5.1	+1.0	12.9	0	8	20	0	1	2	3	2	1	10	9	2	0
	1130	,,	1006.1	999.9	..	29.9	25.1	22.8	27.9	67	..	5.4	..	14.6	0	6	24	4	2	1	1	2	2	10	8	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Colud amount (Oktas): Mean amount	Colud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region—*Contd.*																											
Ahmedabad—*Contd.*	1730	55	1002.6	996.3	..	31.1	25.0	22.0	26.5	60	..	4.2	..	12.1	0	3	26	2	4	2	2	0	6	8	5	1	0
	2330	,,	1005.2	998.9	..	26.5	24.1	23.0	28.1	82	..	4.8	..	9.3	0	0	27	1	0	2	2	6	7	7	2	3	0
Dohad . . .	0830	333	..	..	..	..	..	..	..	..	..	3.5	—2.0	17.5	0	14	15	0	2	1	0	1	13	9	3	1	0
	1730	,,	..	..	..	..	..	..	..	..	..	3.7	..	18.9	0	17	13	2	1	0	0	0	20	6	1	0	0
Baroda (Aerodrome)	0830	38	1006.2	1001.9	..	26.7	24.6	23.6	29.3	83	..	5.2	..	10.8	0	2	28	2	0	1	3	4	8	8	4	0	0
	1130	,,	1006.3	1002.1	..	29.9	25.2	23.0	28.3	68	..	5.7	..	11.8	0	5	25	1	0	1	3	2	9	10	4	0	0
	1730	,,	1002.7	998.5	..	30.5	25.2	22.6	27.6	65	..	4.6	..	11.7	0	5	25	1	2	0	1	4	8	8	6	0	0
Baroda . . .	0530	34	1004.6	1000.6	..	25.3	24.3	23.9	29.6	92	..	3.3	..	0.9	0	0	7	0	0	0	0	0	5	1	1	23	0
	0830	,,	1006.4	1002.4	—1.0	26.7	24.9	24.1	30.0	86	0	4.9	+0.3	2.4	0	0	18	0	2	0	0	0	9	7	0	12	0
	1130	,,	1006.4	1002.5	..	30.1	25.9	24.0	30.0	70	..	5.1	..	3.1	0	0	25	1	1	0	0	1	10	11	1	5	0
	1730	,,	1003.0	999.1	..	31.1	26.2	24.0	29.8	67	..	4.0	..	2.7	0	0	21	0	0	0	0	1	9	9	2	9	0
	2330	,,	1005.7	1001.7	..	26.4	24.8	24.0	30.0	87	..	3.7	..	1.4	0	0	13	0	0	0	0	0	12	1	0	17	0
Broach . . .	0830	17	1005.9	1003.9	—1.1	25.8	24.1	23.3	28.6	86	0	5.2	+0.8	3.7	0	0	30	0	2	0	0	5	12	4	7	0	0
	1730	,,	1002.6	1000.7	..	30.5	25.0	22.3	27.3	63	..	4.9	..	5.3	0	0	30	0	1	0	1	1	19	3	5	0	0
Surat . . .	0530	12	1005.1	1003.8	..	25.2	24.4	24.1	29.8	94	..	5.3	..	6.7	0	0	26	1	1	0	6	6	4	7	1	4	0
	0830	,,	1006.8	1005.5	—1.2	26.5	25.0	24.2	30.4	89	+8	5.9	+0.7	4.6	0	0	26	0	2	0	5	5	3	11	0	4	0
	1130	,,	1007.0	1005.7	..	29.5	25.8	24.1	30.0	74	..	5.9	..	10.0	0	1	29	1	1	1	0	7	6	7	7	0	0
	1730	,,	1003.7	1002.4	..	29.9	26.2	24.5	31.1	74	..	5.6	..	7.3	0	0	30	1	1	0	1	4	17	5	1	0	0
	2330	,,	1006.0	1004.7	..	26.7	25.3	24.6	31.1	89	..	4.5	..	10.4	0	0	28	1	2	0	1	11	11	2	0	2	0
Saurashtra and Kutch																											
Bhutakia (R)	0830	47																									
Bhimasar . (R)	1730	,,																									
Naliya . . .	0830	21	1004.9	1002.5	..	26.0	24.6	23.9	29.7	88	..	3.9	..	5.8	0	3	12	0	0	1	0	1	9	3	1	15	0
	1730	,,	1002.7	1000.3	..	29.0	25.0	23.0	28.4	71	..	4.4	..	13.8	0	8	20	0	1	0	1	0	16	7	3	2	0
Bhuj (Rudramata) .	0230	80	1003.9	994.8	..	25.1	23.7	23.0	28.1	88	..	2.3	..	7.2	0	1	22	0	0	0	1	1	8	10	3	7	0
	0530	,,	1003.7	994.6	..	24.4	23.2	22.5	27.4	90	..	2.1	..	7.7	0	3	17	0	1	0	2	0	7	9	1	10	0
	0830	,,	1005.3	996.1	—1.7	26.3	23.9	22.8	27.7	82	+9	4.0	+0.2	10.0	0	2	23	1	0	0	2	1	9	8	4	5	0
	1130	,,	1005.4	996.4	..	30.6	24.5	21.3	25.6	59	..	4.6	..	13.7	0	7	22	2	1	0	2	1	9	10	4	1	0
	1730	,,	1002.2	993.2	..	30.8	24.3	20.9	25.0	58	..	4.6	..	16.7	0	13	15	1	0	0	2	1	10	11	3	2	0
	2330	,,	1004.7	995.7	..	26.0	23.7	22.5	27.4	83	..	3.0	..	11.1	0	4	22	0	0	0	2	0	10	10	4	4	0
Kandla Aerodrome	0830	35	1005.8	1001.9	..	27.4	24.8	23.7	29.1	81	..	3.0	..	16.8	0	6	23	1	0	2	2	2	10	9	3	1	0
	1130	,,	1005.9	1002.0	..	31.3	25.8	23.3	28.6	64	..	4.0	..	19.0	0	10	20	0	3	0	2	5	10	6	4	0	0
	1730	,,	1002.5	998.6	..	31.7	25.8	23.0	28.3	62	..	3.6	..	22.9	0	18	12	0	0	1	2	3	20	2	2	0	0
New Kandla . .	0830	14	1006·2	1004·6	..	27·3	24·4	23·1	28·3	78	..	3·8	..	16·8	0	9	20	2	0	1	2	1	5	14	4	1	0
	1730	,,	1003·3	1001·7	..	31·0	24·9	21·8	26·6	60	..	4·0	..	27·0	0	21	9	0	0	0	3	1	13	13	0	0	0
Mandvi . . .	0830	9	1005·3	1004·2	—0·9	27·1	24·7	23·5	29·3	80	—7	4·3	—0·4	22·6	0	16	14	2	2	0	0	3	11	3	4	5	0
	1730	,,	1002·9	1001·3	..	29·0	25·5	23·9	30·1	75	..	(b) 4·4	..	(b) 31·4	2	23	4	0	0	0	1	1	19	1	0	0	7
Surendranagar .	0830	74	1005·9	997·5	—0·5	26·9	25·1	24·3	30·4	86	+2	4·5	+0·2	13·2	0	7	22	1	1	1	4	2	1	10	9	1	0
	1730	,,	1002·2	994·0	..	32·5	26·9	24·4	30·7	65	..	5·4	..	9·5	0	2	27	1	2	1	2	2	2	12	7	1	0
Jamnagar (Aerodrome)	0530	23	1004·3	1001·7	..	24·6	23·5	23·0	27·9	91	..	2·3	..	14·7	0	6	24	1	0	0	2	6	10	9	2	0	0
	0830	,,	1005·7	1003·1	—1·7	26·8	24·6	23·6	29·1	83	+5	3·2	—0·4	16·2	0	11	17	0	0	0	1	3	12	10	2	2	0
	1130	,,	1006·1	1003·6	..	30·6	24·9	22·1	26·9	61	..	4·9	..	22·6	0	23	6	0	3	0	1	1	5	16	3	1	0
	1730	,,	1002·9	1000·4	..	30·1	24·6	21·7	26·3	63	..	3·6	..	27·0	0	24	6	0	0	0	0	1	5	16	8	0	0
	2330	,,	1005·4	1002·8	..	26·0	24·1	23·1	28·6	84	..	2·4	..	17·9	0	12	17	0	0	0	0	2	9	15	3	1	0
Dwarka . . .	0830	11	1005·5	1004·2	—2·1	27·0	25·3	24·6	30·7	87	+2	3·6	—0·6	15·7	0	10	19	1	1	1	1	0	9	14	2	1	0
	1730	,,	1003·6	1002·3	..	28·6	26·0	24·9	31·5	80	..	2·9	..	19·6	0	16	14	1	0	0	0	0	7	19	3	0	0
Rajkot . . .	0830	138	1006·0	990·4	—0·9	25·6	24·1	23·4	28·9	88	0	3·3	—0·5	16·9	0	16	12	1	0	0	0	5	10	5	5	2	2
	1130	,,	1005·9	990·6	..	30·0	24·4	21·6	25·9	62	..	4·2	..	20·3	0	17	13	1	1	0	1	1	12	6	7	0	1
	1730	,,	1002·5	987·3	..	30·6	24·4	21·2	25·5	60	..	4·8	..	26·3	0	27	2	2	0	0	0	1	12	4	9	1	1
Bhaunagar Aerodrome	0830	11	1006·4	1005·2	—1·3	27·1	24·5	23·2	28·6	80	+9	4·4	—0·2	15·5	0	6	23	0	1	1	0	1	9	11	5	1	1
	1130	,,	1006·6	1005·4	..	30·4	25·1	22·5	27·6	64	..	5·5	..	20·1	0	14	16	1	2	1	0	3	7	6	10	0	0
	1730	,,	1002·9	1001·7	..	31·3	25·5	22·8	27·9	62	..	5·0	..	30·0	0	27	3	0	2	2	6	9	9	2	0	0	0
Porbander Aerodrome	0830	7	1006·1	1005·3	..	27·5	24·8	23·7	28·9	80	..	4·1	..	14·0	0	6	24	2	0	2	1	0	7	11	7	0	0
	1130	,,	1006·6	1005·8	..	29·2	25·2	23·4	28·8	71	..	3·9	..	17·7	0	12	18	2	0	0	0	1	6	19	2	0	0
	1730	,,	1003·8	1003·0	..	28·5	25·0	23·4	28·9	75	..	4·3	..	17·7	0	13	17	0	0	0	0	0	9	16	5	0	0
Porbander . .	0830	7	1006·2	1005·4	—0·7	27·0	25·0	24·0	30·0	84	—5	5·9	+1·3	10·3	0	2	28	2	0	1	2	0	6	14	5	0	0
	1730	,,	1004·0	1003·2	..	29·0	24·5	23·9	29·7	75	..	6·2	..	13·8	0	2	28	0	0	0	0	0	11	16	3	0	0

(R) Register not received.

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra & Kutch —(*contd.*)																											
Keshod	0330	51	1006·4	1000·6	..	25·9	24·4	23·7	29·3	86	..	2·7	..	10·9	0	4	26	2	1	2	1	4	7	10	3	0	0
	1130	,,	1006·7	1000·9	..	29·2	24·5	22·1	26·7	67	..	4·0	..	21·9	0	18	12	2	1	0	0	2	8	13	3	0	1
	1730	,,	1003·9	998·1	..	29·0	24·5	22·3	26·9	69	..	3·3	..	24·9	0	26	2	0	0	0	1	0	10	15	2	2	0
Mahuva	0830	9	1005·7	1004·7	..	25·8	24·5	23·9	29·7	89	..	6·6	..	5·3	0	0	29	1	1	0	1	2	7	7	10	1	0
	1730	,,	1003·2	1002·2	..	29·1	26·0	24·7	31·1	78	..	5·7	..	7·9	0	2	28	0	1	0	1	3	22	3	0	0	0
Veraval	0230	8	1004·8	1003·9	..	26·4	24·9	24·2	30·2	88	..	2·9	..	15·1	0	11	18	2	1	0	0	0	7	13	6	1	0
	0530	,,	1004·7	1003·8	..	25·9	24·5	23·9	29·7	89	..	3·6	..	13·1	0	7	19	3	1	0	0	0	5	9	8	4	0
	0830	,,	1006·5	1005·6	+1·6	27·0	25·2	24·3	30·5	86	+2	4·5	0·0	14·1	0	10	17	3	1	0	1	0	4	9	9	3	0
	1130	,,	1007·0	1006·1	..	29·3	25·9	24·4	30·5	76	..	4·5	..	17·2	0	11	19	1	0	1	0	1	5	17	5	0	0
	1730	,,	1004·1	1003·2	..	28·1	25·7	24·5	31·1	81	..	4·9	..	21·1	0	28	1	0	0	0	0	0	6	15	8	1	0
	2330	,,	1006·0	1005·1	..	26·9	25·1	24·4	30·4	86	..	3·3	..	14·8	0	8	19	1	0	0	0	0	6	14	6	3	0
Konkan																											
Dahanu	0830	5	1006·6	1006·1	−0·9	26·4	24·4	23·5	28·9	85	−2	7·0	+1·1	14·3	1	6	23	0	3	4	12	0	2	7	2	0	0
	1730	,,	1004·1	1003·6	..	28·5	25·1	23·5	29·1	75	..	6·3	..	16·7	0	12	18	5	0	0	0	1	8	12	4	0	0
Bombay (Santacruz)	0230	14	1005·7	1004·1	..	25·1	24·2	23·8	29·3	92	..	4·8	..	7·3	0	4	14	0	1	4	2	1	3	6	1	12	0
	0530	,,	1005·7	1004·0	..	24·9	24·1	23·7	29·3	93	..	4·8	..	8·7	0	3	19	2	2	4	3	0	3	6	2	8	0
	0830	,,	1007·4	1005·7	−1·6	26·3	24·8	24·1	30·0	88	+3	6·1	+0·4	9·5	0	3	25	1	2	6	2	5	4	6	2	2	0
	1130	,,	1007·5	1005·9	..	28·3	25·3	24·0	30·0	78	..	6·0	..	14·0	0	8	19	3	1	1	1	1	6	8	6	3	0
	1730	,,	1004·8	1003·2	..	27·9	24·9	23·6	28·9	78	..	5·3	..	15·9	0	7	22	2	0	0	0	0	3	12	12	1	0
	2330	,,	1007·0	1005·4	..	25·6	24·4	23·9	29·7	90	..	4·1	..	8·0	0	2	18	1	0	3	2	1	6	7	0	10	0
Bombay	0830	11	1007·5	1006·3	−1·4	27·0	25·1	24·3	30·4	86	+1	5·7	0	5·5	0	0	26	1	1	4	5	2	4	4	5	4	0
	1130	,,	1007.7	1006.5	..	29.0	26.1	24.8	31.5	78	..	5.6	..	5.7	0	1	26	1	1	2	2	3	6	8	4	3	0
	1730	,,	1005.0	1003.8	..	28.4	25.6	24.4	30.5	79	..	5.0	..	7.0	0	0	28	0	0	0	0	1	4	13	10	2	0
Alibag	0830	7	1007.4	1006.6	−1.6	26.4	24.7	24.0	29.7	87	+4	5.5	−0.3	14.0	0	7	22	3	1	0	4	7	7	2	5	1	0
Bhira	0830	96	1007.4	996.5	..	24.4	23.7	23.3	28.6	93	..	5.9	..	1.0	0	0	12	1	3	1	2	1	2	2	0	18	0
	1730	,,	1004.8	994.0	..	26.6	24.6	23.6	29.3	84	..	6.2	..	3.1	0	0	19	1	0	1	3	2	8	2	2	11	0
Harnai	0830	20	1007.5	1005.2	−0.9	26.3	24.7	24.0	29.8	83	+2	6.5	+0.6	7.5	0	2	26	2	3	4	5	4	3	2	5	2	0
	1730	,,	1005.2	1003.0	..	27.4	25.0	24.0	29.7	82	..	6.1	..	19.3	0	15	15	1	0	0	0	4	2	16	7	0	0
Ratnagiri	0830	35	1007.9	1003.9	−1.4	25.5	24.5	24.0	29.8	91	..	5.1	..	7.9	0	3	25	2	1	4	13	0	4	3	1	2	0
	1730	,,	1005.6	1001.7	..	27.7	25.2	24.0	30.0	80	..	5.4	..	13.9	0	7	23	4	0	0	1	0	7	7	11	0	0
Devgarh	0830	36	1008.2	1004.2	−0.7	25.6	24.6	24.1	30.0	92	+3	5.9	−0.3	8.6	0	2	27	0	3	10	2	1	3	7	3	1	0
	1730	,,	1005.7	1001.7	..	27.4	25.6	24.8	31.3	86	..	5.7	..	16.4	0	9	21	1	0	1	0	0	7	7	14	0	0
Vengurla	0230	9	1006.9	1005.9	..	24.6	24.2	23.9	29.8	96	..	5.2	..	1.3	0	0	6	2	0	0	1	0	2	1	0	24	0
	0530	,,	1007.0	1006.0	..	24.3	23.9	23.8	29.3	97	..	5.2	..	2.2	0	0	13	9	0	0	1	0	3	0	0	17	0
	0830	,,	1008.7	1007.7	−0.6	25.5	24.6	24.2	30.0	92	+3	5.8	−0.3	1.7	0	0	9	4	1	0	1	0	3	0	0	21	0
	1130	,,	1008.7	1007.7	..	28.5	25.7	24.5	30.7	79	..	5.4	..	5.5	0	0	26	3	1	0	0	2	12	6	2	4	0
	1730	,,	1006.2	1005.2	..	27.6	25.5	24.6	30.7	84	..	6.0	..	6.3	0	0	26	0	0	0	0	1	13	7	5	4	0
	2330	,,	1008.4	1007.4	..	25.3	24.6	24.3	30.4	94	..	4.9	..	1.9	0	0	9	4	0	0	1	0	1	3	0	21	0
Madhya Maharashtra																											
Nandurbar	0830	206	1006.7	983.5	..	26.1	24.3	23.4	28.9	86	..	4.5	..	14.3	0	8	22	0	0	1	0	1	6	22	0	0	0
	1730	,,	1003.3	980.4	..	28.1	25.0	23.4	29.3	77	..	5.1	..	13.0	0	4	26	1	1	0	0	0	6	21	1	0	0
Jalgaon	0830	201	1006.4	983.7	−0.7	25.0	23.6	22.9	27.9	88	+3	6.1	+1.1	12.3	0	7	23	0	0	1	0	2	6	20	1	0	0
	1730	,,	1003.4	981.0	..	29.1	24.6	22.5	27.3	69	..	6.1	..	13.7	0	6	24	2	1	2	0	0	2	16	7	0	0
Malegaon	0830	437	1006.7	957.9	−1.4	24.1	21.9	20.9	24.7	83	+7	5.9	+1.6	7.0	0	1	28	2	0	0	0	2	4	13	8	1	0
	1730	,,	1002.7	954.7	..	27.6	22.9	20.3	24.1	66	..	6.8	..	12.9	0	2	28	4	3	1	0	0	3	11	8	0	0
Deolali (Aerodrome)	0830	571	1008.0	944.5	..	22.6	21.6	21.2	25.0	92	..	6.6	..	9.7	0	1	24	0	0	0	1	0	18	6	0	5	0
	1730	,,	1005.0	942.2	..	24.9	22.1	20.8	24.6	79	..	6.8	..	13.2	0	0	29	0	1	0	0	1	16	8	3	1	0
Ahmednagar	0830	657	1007.6	935.0	−0.9	22.7	21.0	20.1	23.8	86	+8	6.7	+2.3	5.6	0	0	29	1	0	0	0	0	11	3	14	1	0
	1730	,,	1003.3	931.9	..	26.5	21.8	19.3	22.7	65	..	7.3	..	8.9	0	0	30	2	3	0	0	0	10	3	11	0	1
Poona (Aerodrome)	0230	593	1006.1	940.1	..	21.1	20.3	19.9	23.2	93	..	4.9	..	9.5	0	2	27	0	0	0	0	0	0	24	5	1	0
	0530	,,	1006.2	940.0	..	20.7	20.1	19.8	23.1	95	..	4.7	..	7.2	0	2	22	0	0	0	0	0	1	22	1	6	0
	0830	,,	1007.5	941.6	..	22.5	21.2	20.5	24.1	89	..	5.9	..	9.2	0	2	25	0	0	0	0	0	2	24	1	3	0
	1130	,,	1006.7	941.6	..	26.1	22.7	21.1	25.0	75	..	6.1	..	18.8	0	13	17	1	0	0	1	0	3	21	4	0	0
	1730	,,	1003.8	938.8	..	25.7	22.2	20.5	24.1	75	..	6.1		24.8	0	24	6	0	0	0	0	0	5	22	3	0	0
	2330	,,	1007.4	941.2	..	21.7	20.6	20.1	23.5	91	..	4.8	..	11.1	0	3	26	0	0	0	0	0	0	26	3	1	0
Poona	0530	559	1005.9	943.6	..	21.4	20.4	19.9	23.2	91	..	4.5	..	0.3	0	0	2	0	0	0	0	0	1	1	0	28	0
	0830	,,	1007.2	945.2	−1.5	23.3	21.4	20.4	24.1	84	+3	5.2	−0.2	1.1	0	0	9	0	0	0	0	0	4	5	0	21	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in milibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in milibars: At station level	Mean pressure in milibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra —*Contd*																											
Poona—*Contd.*	1130	559	1006.4	945.1	..	26.9	22.5	20.3	23.8	68	..	6.0	..	2.3	0	0	19	1	0	0	0	0	6	9	3	11	0
	1730	,,	1003.6	942.4	..	26.3	22.1	20.1	23.5	70	..	6.1	..	4.0	0	0	23	0	0	0	0	1	6	15	1	7	0
	2330	,,	1007.0	944.9	..	22.6	21.0	20.2	23.7	87	..	4.0	..	0.8	0	0	6	0	0	0	0	0	4	2	0	24	0
Jeur	0830	52	1006.8	948.8	—1.0	22.8	21.3	20.5	24.1	87	+6	5.4	+0.9	9.6	0	0	28	2	1	0	0	1	4	11	9	2	0
	1730	,,	1002.3	945.5	..	27.8	22.1	19.1	22.4	62	..	6.6	..	14.1	0	9	21	4	1	0	0	0	4	13	8	0	0
Baramati	0830	521	1007.3	946.2	—0.3	23.3	21.0	19.9	23.2	81	0	5.1	0	10.2	0	2	28	3	0	1	0	1	5	11	9	0	0
	1730	,,	1002.7	942.9	..	27.8	21.9	18.8	21.8	61	..	5.5	..	13.7	0	15	15	2	2	0	0	0	6	14	6	0	0
Sholapur	0530	479	1006.4	952.8	..	21.8	20.9	20.4	24.0	92	..	5.3	..	3.9	0	0	21	3	1	0	0	0	8	6	3	9	0
	0830	,,	1007.6	954.3	—0.9	23.9	21.8	20.9	24.6	84	+7	4.7	—0.3	5.7	0	0	29	4	2	0	0	0	12	8	3	1	0
	1130	,,	1006.6	954.0	..	27.5	22.8	20.6	24.3	68	..	5.7	..	11.1	0	2	28	5	1	1	0	0	3	12	8	0	0
	1730	,,	1002.7	950.5	..	28.7	22.9	20.1	23.7	63	..	6.0	..	9.6	0	0	30	5	1	0	0	0	12	5	7	0	0
	2330	,,	1006.8	953.5	..	23.9	21.8	20.8	24.6	84	..	5.6	..	7.8	0	0	29	3	4	1	0	0	9	9	3	1	0
Miraj	0830	554	1008.0	946.6	—1.1	22.7	21.1	20.2	23.8	87	+4	5.4	—0.9	..	0	0	13	1	0	0	0	0	0	11	1	17	0
	1730	,,	1004.1	943.7	..	27.2	21.7	18.7	21.8	63	..	5.7	..	..	0	0	28	1	0	0	0	0	1	24	2	2	0
Kolhapur	0530	570	1006.7	943.1	..	20.7	20.3	20.0	23.5	96	..	4.8	..	6.1	0	0	26	0	0	0	1	0	0	25	0	4	0
	0830	,,	1008.1	944.8	—0.7	22.4	21.2	20.6	24.3	90	+2	5.7	+0.3	9.0	0	1	26	1	0	1	0	0	2	23	0	3	0
	1130	,,	1007.1	994.6	..	25.9	22.3	20.5	24.3	73	..	5.7	..	13.9	0	5	25	1	2	2	0	0	3	19	3	0	0
	1730	,,	1004.3	941.9	..	25.3	22.0	20.5	24.1	76	..	5.4	..	17.1	0	12	18	0	0	0	0	0	3	27	0	0	0
	2330	,,	1007.9	944.5	..	21.9	20.9	20.5	24.1	92	..	4.4	..	10.3	0	5	27	0	0	0	0	0	0	28	2	0	0
Marathwada																											
Aurangabad	0830	581	1007·1	942·8	—1·4	23·3	21·3	20·3	23·8	84	+6	5·7	+0·4	13·9	0	7	21	2	2	0	0	0	5	19	0	2	0
	1730	,,	1003·1	939·7	..	26·2	22·2	20·3	23·8	72	..	6·4	..	15·1	0	8	22	5	3	0	0	0	2	16	4	0	0
Aurangabad (Chikalthan).	0230	579	1005·1	940·7	..	21·7	20·4	19·7	22·9	88	..	5·4	..	8·9	0	2	18	0	0	0	0	0	3	14	3	10	0
	0530	,,	1005·2	940·7	..	21·0	20·0	19·5	22·7	91	..	5·0	..	12·7	0	5	20	1	0	0	0	0	4	20	0	5	0
	0830	,,	1006·5	942·5	..	23·7	21·7	20·0	23·5	80	..	5·4	..	14·2	0	5	23	2	0	0	0	0	5	14	7	2	0
	1130	,,	1005·7	942·3	..	26·7	22·3	20·1	23·7	68	..	6·2	..	15·7	0	6	22	1	2	0	0	0	4	10	11	2	0
	1730	,,	1002·5	939·3	..	26·2	21·8	19·5	22·9	69	..	6·7	..	18·4	0	11	18	4	2	0	0	0	4	10	9	1	0
	2330	,,	1006·3	942·1	..	22·6	20·9	20·0	23·5	86	..	6·2	..	11·3	0	1	23	1	0	0	0	0	7	12	4	6	0
Parbhani	0830	423	1006·7	959·5	—0·2	24·2	22·1	21·0	24·9	83	+2	5·9	+0·7	12·7	0	5	24	1	1	0	0	0	4	17	6	1	0
	1730	,,	1002·6	956·0	..	27·3	23·1	20·8	24·9	70	..	6·5	..	10·7	0	4	25	6	2	0	0	1	3	10	7	1	0
Nander	0830	358	1006·5	966·5	..	25·0	22·8	21·7	25·9	82	..	5·2	..	11·0	0	1	24	0	0	0	0	2	9	10	4	5	0
	1730	,,	1003·1	963·2	..	28·2	23·9	21·7	26·1	69	..	4·2	..	6·8	0	0	23	0	0	0	0	0	10	10	3	7	0
Bir	0830	519	1007·4	949·8	..	23·8	21·8	20·9	24·7	84	..	5·7	..	6·5	0	1	26	1	0	0	0	0	7	5	14	3	0
	1730	,,	1003·0	946·4	..	27·7	22·7	20·3	23·8	67	..	6·3	..	7·7	0	0	27	0	4	0	0	0	9	3	11	3	0
Vidarbha																											
Gondia	0830	313	1005·1	970·2	—0·5	25·9	24·9	23·3	28·6	85	+1	7·1	+1·8	5·3	0	0	28	8	3	1	0	3	6	2	0	2	0
	1730	,,	1001·3	966·8	..	28·3	24·6	22·9	27·9	73	..	6·2	..	4·5	0	0	29	1	1	3	1	3	12	2	5	1	1
Nagpur (Sonegaon)	0230	310	1003·2	968·4	..	24·0	23·2	22·8	27·7	93	..	5·6	..	6·7	0	0	29	1	1	1	0	3	5	7	11	1	0
	0530	,,	1003·5	968·6	..	23·5	22·8	22·5	27·3	94	..	5·6	..	6·9	0	1	26	3	1	0	1	2	6	7	7	3	0
	0830	,,	1004·9	970·3	—1.4	25·8	23·8	22.9	27·9	84	+3	5·5	+0·8	9·6	0	2	28	5	1	2	1	1	6	7	7	0	0
	1130	,,	1004·2	969·9	..	28·6	24·7	22·9	27·9	72	..	6·6	..	12·1	0	5	24	4	1	1	2	1	4	2	14	1	0
	1730	,,	1001·3	967·1	..	28·0	24·3	22·4	27·1	73	..	6·1	..	9·3	0	2	27	1	2	2	0	2	5	7	10	1	0
	2330	,,	1004·4	969·6	..	24·6	23·3	22·7	27·6	90	..	5·3	..	5·5	0	0	24	2	2	1	1	2	5	5	6	6	0
Amraoti	0830	370	1005·5	964·2	—1·4	24·7	23·1	22·4	27·1	87	+7	5·9	+1·0	4·7	0	0	29	3	1	1	0	3	4	16	1	1	0
	1730	,,	1001·2	960·5	..	27·5	23·8	21·8	26·3	73	..	5·6	..	6·1	0	0	30	3	2	2	2	1	8	6	6	0	0
Akola Aerodrome	0530	309	1003·5	968·8	..	23·1	22·2	21·7	25·9	92	..	5·6	..	4·1	0	1	15	0	0	0	0	1	1	12	2	14	0
	2330	,,	1004·5	969·8	..	24·6	23·0	22·1	26·7	87	..	5·0	..	4·6	0	0	20	1	1	1	1	0	3	13	0	10	0
Akola	0830	282	1005·7	974·0	—1·6	24·8	23·1	22·3	26·9	86	+8	5·2	+0·4	6·5	0	0	29	0	0	0	0	0	1	27	1	1	0
	1130	,,	1004·8	973·5	..	27·9	24·1	22·3	26·9	71	..	6·0	..	6·9	0	0	28	1	1	0	1	0	4	19	2	2	0
	1730	,,	1001·6	970·5	..	28·6	24·3	22·0	26·4	69	..	7·1	..	4·1	0	0	29	1	1	2	0	1	1	19	4	1	0
Bramhapuri	0830	229	1004·8	979·1	..	25·6	24·2	23·5	29·1	88	..	6·0	..	6·7	0	0	29	6	1	0	2	7	4	7	2	1	0
	1730	,,	1001·4	976·0	..	28·4	25·1	23·6	29·3	76	..	6·6	..	6·0	0	0	27	5	1	1	1	5	4	7	3	3	0
Buldana	0830	650	1006·2	934·3	—0·5	22·1	20·8	20·2	23·5	89	+3	5·5	—0·4	1·7	0	0	22	0	2	0	0	0	0	0	20	8	0
	1730	,,	1002·1	931·3	..	26·7	22·7	20·7	24·7	74	..	6·5	..	1·2	0	0	17	0	2	0	0	0	0	0	15	13	0
Yeotmal	0830	451	1005·6	955·4	—0·6	24·0	22·5	21·7	25·9	87	+3	7·5	+2·2	22·5	0	23	7	2	1	1	0	1	4	9	12	0	0
	1730	,,	1001·6	952·0	..	26·8	23·4	21·6	25·9	74	..	7·0	..	14·6	0	6	24	1	2	1	1	2	7	9	7	0	0
Chanda	0830	193	1005·3	983·6	—1·5	26·3	24·3	23·4	28·8	84	+4	5·7	+1·1	8·7	0	0	30	3	2	1	4	3	3	9	5	0	0
	1730	,,	1001·5	980·1	..	28·3	25·1	23·7	29·3	77	..	6·7	..	7·5	0	3	26	3	3	3	2	2	4	8	4	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.pm. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed kms. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*contd.*)																											
Pusad	0830	334	1006·3	968·9	..	25·2	23·1	21·9	26·6	81	..	5·4	..	11·0	0	2	28	1	1	0	0	1	7	7	13	0	0
	1730	,,	1002·3	965·5	..	28·5	24·1	21·9	26·4	69	..	5·0	..	10·0	0	1	28	1	4	0	1	0	8	5	10	1	0
Sironcha	0830	125	1005·8	991·9	—0·8	26·3	24·8	24·1	30·0	88	+3	6·0	+0·3	4·2	0	0	29	3	1	2	3	3	8	5	4	1	0
	1730	,,	1002·0	988·3	..	28·5	25·6	24·2	30·4	77	..	6·4	..	5·7	0	0	28	2	8	1	7	2	5	1	4	2	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1004·9	1004·3	—1·0	28·3	26·2	25·3	32·2	84	+1	4·6	+0·1	7·9	0	1	28	4	3	0	1	1	6	7	7	1	0
	1730	,,	1001·7	1001·1	..	28·9	26·5	25·5	32·6	82	..	4·3	..	11·6	0	4	25	0	4	5	4	3	10	3	0	1	0
Vishakhapatnam	0230	3	1003·4	1002·6	..	26·7	25·2	24·6	30·7	89	..	4·8	..	6·3	0	0	18	1	0	0	1	0	9	1	6	12	0
	0530	,,	1003·3	1002·9	..	26·4	25·1	24·5	30·7	90	..	5·2	..	4·1	0	0	15	1	0	0	1	0	6	5	2	15	0
	0830	,,	1005·0	1004·6	—1·3	28·5	25·8	24·6	31·1	80	—1	5·6	—0·2	9·6	0	5	17	2	0	1	0	0	11	2	6	8	0
	1130	,,	1004·2	1003·8	..	30·6	26·3	24·5	30·7	71	..	6·4	..	12·7	0	6	19	1	0	3	4	4	8	4	1	5	0
	1730	,,	1001·9	1001·5	..	28·8	25·8	24·6	30·7	78	..	6·6	..	11·6	0	4	23	0	2	3	3	6	8	2	3	3	0
	2330	,,	1004·4	1004·0	..	27·1	25·6	24·9	31·5	88	..	4·7	..	5·7	0	0	18	1	0	1	1	1	8	3	3	12	0
Kakinada	0830	8	1005·6	1004·7	—1·1	27·7	25·7	24·8	31·3	85	+5	5·7	+0·3	13·8	0	2	28	0	1	0	0	0	29	0	0	0	0
	1730	,,	1002·1	1001·2	..	29·9	26·6	25·3	32·2	77	..	5·8	..	12·9	0	2	28	0	2	0	2	0	24	0	2	0	0
Nidadavolo	0830	12	1005·6	1004·2	..	26·9	25·4	24·8	31·1	89	..	6·9	..	5·1	0	0	28	2	1	0	0	0	13	8	4	2	0
	1730	,,	1002·1	1000·7	..	28·9	26·2	25·1	31·9	81	..	6·8	..	4·9	0	0	28	0	0	0	3	0	18	5	2	2	0
Rentachintala	0830	106	1006·3	994·4	..	27·3	24·3	22·8	27·4	77	+7	5·8	+0	2·7	0	0	28	0	0	0	0	0	3	24	1	2	0
	1730	,,	1002·0	990·3	..	30·1	25·0	22·5	27·6	66	..	6·8	..	2·2	0	0	28	4	0	2	0	3	4	11	4	2	0
Gannavaram	0230	24	1003·7	1000·9	..	25·9	25·1	24·8	31·1	94	..	5·5	..	8·9	0	3	19	0	1	0	2	1	8	7	3	8	0
	0530	,,	1004·1	1001·4	..	25·3	24·5	24·1	30·0	93	..	6·1	..	7·9	0	3	22	0	1	2	0	0	9	12	1	5	0
	0830	,,	1006·1	1003·4	—0·5	27·0	25·3	24·5	30·7	87	+7	6·2	+0·6	10·0	0	4	23	1	0	1	1	3	6	11	4	3	0
	1130	,,	1005·4	1002·7	..	29·6	25·9	24·3	30·4	74	..	6·5	..	12·3	0	6	23	1	0	1	1	5	5	12	4	1	0
	1730	,,	1002·4	999·7	..	29·1	25·8	24·4	30·4	77	..	6·7	..	8·3	0	1	27	1	1	1	2	6	3	9	5	2	0
	2330	,,	1005·0	1002·3	..	26·6	25·5	25·0	31·7	91	..	5·7	..	8·3	0	3	21	1	0	3	2	6	4	6	2	6	0
Nagarjunkonda	0830	..	..	..	..	28·1	24·0	22·0	26·6	70	..	5·1	..	15·7	0	9	20	2	1	0	0	1	3	15	7	1	0
	1730	..	..	..	..	30·9	24·6	21·6	25·6	59	..	5·8	..	19·3	0	9	21	6	1	0	1	3	1	15	3	0	0
Coastal Andhra Pradesh																											
Masulipatam	0830	3	1006·1	1005·8	—1·1	27·4	25·4	24·5	30·7	84	+3	6·7	+1·3	4·7	0	0	27	1	0	0	0	5	10	8	3	3	0
	1730	,,	1002·4	1002·1	..	29·1	26·1	24·9	31·1	79	..	6·4	..	4·3	0	0	27	2	0	2	4	3	7	7	2	3	0
Ongole	0830	12	1006·3	1005·0	..	28·7	25·2	23·6	29·3	75	..	5·7	..	4·4	0	0	30	4	1	0	2	1	3	9	10	0	0
	1730	,,	1002·4	1001·1	..	30·8	25·7	23·4	28·9	67	..	6·6	..	4·3	0	0	30	2	3	8	2	0	1	11	2	0	1
Nellore	0530	20	1004·6	1002·4	..	26·1	24·4	23·6	29·3	86	..	6·2	..	0·3	0	0	2	0	0	0	0	0	0	1	1	28	0
	0830	,,	1006·8	1004·6	—0·9	28·1	24·8	23·2	28·6	75	+5	6·2	+0·8	0·9	0	0	10	0	0	0	0	0	0	10	0	20	0
	1130	,,	1005·8	1003·6	..	31·6	25·6	22·8	27·9	61	..	5·7	..	3·0	0	0	27	0	0	0	0	0	0	25	2	3	0
	1730	,,	1003·0	1000·8	..	31·0	25·7	23·3	28·6	65	..	6·8	..	2·4	0	0	23	0	0	0	0	0	0	22	1	7	0
	2330	,,	1005·5	1003·2	..	27·4	25·5	24·7	31·1	86	..	5·3	..	0·3	0	0	3	0	0	0	0	0	0	3	0	27	0
Telangana																											
Ramagundam	0830	156	1005·6	987·9	—0·6	26·1	24·4	23·5	29·3	86	+6	5·1	—0·6	3·3	0	1	13	1	0	0	1	0	4	6	2	16	0
	1730	,,	1001·7	984·3	..	29·8	25·4	23·4	28·8	70	..	6·2	..	4·7	0	0	28	2	5	1	0	0	8	7	5	2	0
Nizamabad (R)	0830	381																									
(R)	1730	,,																									
Hanamkonda	0830	269	1005·9	975·9	—1·3	25·7	23·6	22·6	27·3	84	+7	4·5	—0·5	2·3	0	0	30	5	1	0	0	6	3	11	4	0	0
	1730	,,	1002·6	973·0	..	28·6	24·5	22·6	27·3	71	..	5·3	..	2·5	0	0	30	12	2	0	0	5	1	7	3	0	0
Hakimpet (Aerodrome)	0530	613	1005·1	937·3	..	21·9	20·9	20·4	24·0	90	..	5·9	..	16·1	0	9	21	3	1	0	0	0	1	19	6	0	0
	0830	,,	1006·1	938·5	..	23·6	21·4	20·4	23·8	82	..	6·1	..	20·1	0	16	14	5	2	0	0	0	0	13	10	0	0
	1130	,,	1005·3	938·1	..	26·1	22·2	20·5	23·8	71	..	6·2	..	22·2	0	17	13	3	1	1	0	0	2	11	12	0	0
	1730	,,	1002·8	936·1	..	26·5	22·3	20·3	24·3	70	..	6·3	..	17·7	0	8	22	7	1	0	0	1	1	13	7	0	0
Bhadrachalam	0831	111	1005·6	993·1	—0·9	26·6	24·8	24·1	29·8	85	+1	7·5	+1·3	4·5	0	0	30	6	3	11	2	1	3	4	0	0	0
	1730	,,	1001·8	989·5	..	29·9	25·8	24·2	30·0	74	..	7·0	..	8·9	0	0	30	4	8	0	1	1	4	7	5	0	0
Hyderabad Begampet).	0230	545	1004·7	944·3	..	22·6	21·5	20·9	24·7	91	..	5·7	..	9·9	0	4	18	1	0	0	0	0	3	11	7	8	0
	0530	,,	1005·1	944·6	..	22·0	21·1	20·6	24·4	92	..	5·7	..	12·5	0	7	19	2	0	0	0	0	4	13	7	4	0
	0830	,,	1006·6	946·4	—0·8	23·8	21·8	20·8	24·7	83	+3	6·2	+0·9	13·9	0	6	24	5	1	1	0	0	1	11	11	0	0
	1130	,,	1005·6	945·9	..	26·7	22·6	20·7	24·4	70	..	6·3	..	16·9	0	9	21	5	0	1	1	0	2	9	12	0	0
	1730	,,	1002·3	943·0	..	27·0	22·6	20·6	24·1	69	..	6·2	..	14·5	0	7	21	7	1	0	0	0	3	9	8	2	0
	2330	,,	1005·9	945·6	..	23·5	21·9	21·2	25·0	87	..	5·4	..	9·0	0	5	15	3	1	0	0	0	4	7	5	10	0

(R)—Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibar: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibar: At station level	Mean pressure in millibar: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—(*contd.*)																											
Khammam	0830	112	1007·6	993·4	..	26·3	24·8	24·2	30·0	89	..	5·8	..	6·0	0	1	18	3	0	0	0	1	0	15	0	11	0
	1730	,,	1001·9	989·5	..	29·6	25·6	23·8	29·5	72	..	6·6	..	4·7	0	1	19	3	0	0	0	0	0	16	1	10	0
Mahbubnagar	0830	505	1006·9	950·8	..	24·1	22·1	21·0	25·2	84	..	5·6	..	9·5	0	1	29	4	1	0	0	0	2	10	13	0	0
	1730	,,	1002·5	947·4	..	28·2	23·3	20·9	24·7	66	..	7·0	..	4·5	0	0	29	1	2	0	1	0	5	8	12	1	0
Rayalaseema																											
Kurnool	0830	281	1007·9	976·3	—0·5	25·1	22·3	20·9	24·6	77	+2	5·7	+0·3	11 1	0	1	29	1	0	0	0	0	2	22	5	0	0
	1730	,,	1003·0	972·1	..	29·6	23·3	19·8	23·4	57	..	6 3	..	11 6	0	3	26	2	0	0	0	0	0	19	8	1	0
Nandyal*	0830																										
	1730																										
Anantapur	0530	350	1006.1	966.9	..	23.6	21.3	20.1	23.4	81	..	5.4	..	7.9	0	2	19	1	0	0	0	0	1	17	1	9	1
	0830	,,	1007.7	968.6	—0.4	25.4	22.1	20.3	23.8	74	—1	6.1	+0.3	12.1	0	6	22	0	0	0	0	0	2	19	7	2	0
	1130	,,	1006.6	968.0	..	28.9	22.9	19.7	22.9	59	..	6.0	..	15.5	0	8	22	2	1	0	0	0	1	20	6	0	0
	1730	,,	1002.6	964.3	..	30.2	22.8	18.8	21.7	52	..	6.4	..	13.1	0	8	19	5	2	0	0	0	1	14	5	3	0
	2330	,,	1006.7	967.8	..	25.7	22.0	20.0	23.5	72	..	4.9	..	10.0	0	5	19	3	0	0	0	0	5	5	1	6	0
Cuddapah	0830	130	1007.9	993.2	—0.9	27.0	23.8	22.3	26.9	76	+5	5.5	+0.1	1.9	0	0	10	0	0	0	0	0	0	10	0	20	0
	1730	,,	1002.9	988.6	..	31.0	24.8	21.9	26.3	59	..	5.5	..	2.1	0	0	12	0	0	0	0	0	0	10	2	18	0
Arogyavaram	0830	701	1007.8	931.1	..	24.1	20.6	18.8	21.7	73	..	5.5	..	9.1	0	3	26	2	0	0	2	1	2	9	13	1	0
	1730	,,	1003.1	927.5	..	27.3	21.5	18.5	21.3	60	..	6.6	..	10.2	0	1	29	10	0	0	0	0	3	7	10	0	0
Madras State																											
Madras	0830	6	1007.4	1006.7	..	27.8	24.8	23.5	28.8	78	..	5.5	..	8.7	0	0	29	0	0	0	0	0	16	12	1	1	0
Madras (Minambakkam)	0230	16	1005.3	1003.6	..	26.4	25.1	24.6	30.7	90	..	5.3	..	6.1	0	1	18	0	0	0	0	8	4	6	1	11	0
	0530	,,	1005.7	1003.9	..	25.6	24.5	23.9	29.8	91	..	5.8	..	4.1	0	0	17	0	0	0	0	5	1	10	1	13	0
	0830	,,	1007.5	1005.7	—0.7	27.7	25.0	23.7	29.3	79	+7	5.9	+0.9	10.4	0	1	28	0	0	0	0	3	8	17	1	1	0
	1130	,,	1006.6	1004.9	..	31.0	25.6	23.2	28.4	64	..	5.4	..	14.9	0	7	23	1	2	0	0	1	9	11	6	0	0
	1730	,,	1003.7	1002.0	..	29.7	26.0	24.4	30.7	74	..	6.1	..	11.4	0	1	29	1	2	5	6	4	5	6	1	0	0
	2330	,,	1006.7	1004.9	..	26.9	25.5	24.9	31.7	89	..	5.4	..	7.7	0	0	25	0	0	2	2	14	2	4	1	5	0
Vellore	0530	214	1006.3	982.1	..	24.4	22.5	21.6	25.6	85	..	6.1	..	1.3	0	0	6	0	0	0	0	0	2	4	0	24	0
	0830	,,	1007.7	983.7	—0.6	26.5	23.4	21.9	26.3	76	+3	6.4	+2.4	6.3	0	0	26	0	1	0	0	0	3	20	2	4	0
	1130	,,	1006.6	983.0	..	30.4	24.7	22.0	26.4	61	..	6.2	..	5.9	0	0	27	0	0	0	0	0	1	25	1	3	0
	1730	,,	1003.2	979.6	..	30.9	24.6	21.6	25.6	59	..	6.9	..	2.8	0	0	18	1	1	1	0	3	4	6	2	12	0
	2330	,,	1007.0	983.0	..	26.4	23.7	22.4	27.1	79	..	6.2	..	(b) 2.1	0	0	9	0	0	1	0	1	4	3	0	20	0
Tambaram (Aerodrome)	0830	29	1007.2	1004.0	..	27.9	25.8	24.9	31.5	84	..	5.6	..	11.3	0	0	30	0	0	0	0	2	7	15	6	0	0
	1730	,,	1003.5	1000.3	..	29.6	26.7	25.3	32.6	78	..	5.7	..	14.5	0	2	27	1	2	1	7	8	2	5	3	1	0
Tiruppattur	0830	390	1008.2	964.7	..	25.1	22.6	21.4	25.3	80	..	5.9	..	4.1	0	0	26	10	3	3	0	0	0	6	4	4	0
	1730	,,	1003.5	960.8	..	28.9	23.5	20.8	24.6	63	..	6.6	..	7.1	0	1	28	9	1	1	0	0	1	10	7	1	0
Mettur Dam R.S.	0830	244	..	..	..	26.9	23.9	22.4	27.3	77	..	4.8	..	4.5	0	0	30	0	7	0	8	0	11	0	4	0	0
	1730	,,	..	..	..	30.6	25.3	22.7	27.9	65	..	6.1	..	5.0	0	0	29	0	2	0	1	0	18	0	8	1	0
Cuddalore	0530	12	1005.6	1004.3	..	25.5	23.9	23.2	26.4	88	..	5.9	..	2.5	0	0	11	0	0	0	0	1	10	0	0	19	0
	0830	,,	1007.8	1006.5	—0.9	27.9	24.9	23.5	28.7	77	+2	5.7	+1.1	6.0	0	0	27	0	1	0	0	0	24	2	0	3	0
	1130	,,	1006.8	1005.5	..	31.4	25.7	23.1	28.3	62	..	5.7	..	8.4	0	1	29	1	0	0	1	1	16	9	2	0	0
	1730	,,	1003.8	1002.5	..	30.0	26.1	24.4	30.7	73	..	5.6	..	10.3	0	1	28	0	2	4	11	3	6	2	1	1	0
	2330	,,	1006.8	1005.5	..	26.9	25.1	24.3	30.4	86	..	6.0	..	7.2	0	0	26	0	0	0	7	9	9	1	0	4	0
Kallakurichichi	0830	127	1007.4	993.1	..	27.4	24.3	22.9	27.9	77	..	4.6	..	6.5	0	1	23	0	2	2	0	0	19	0	1	6	0
	1730	,,	1003.0	989.0	..	31.3	25.2	22.3	26.9	60	..	5.9	..	6.9	0	1	25	0	6	2	2	0	13	0	3	4	0
Salem	0530	278	1006.8	975.6	..	23.6	22.2	21.5	25.6	88	..	6.8	..	2.0	0	0	17	0	0	0	0	4	7	6	0	13	0
	0830	,,	1008.5	977.3	—1.0	25.8	22.9	21.4	25.6	77	—1	5.8	1.1	2.1	0	0	16	0	0	0	0	3	5	5	3	14	0
	1130	,,	1007.0	976.3	..	29.5	23.9	21.2	25.0	62	..	6.2	..	5.0	0	0	28	0	0	0	0	4	8	12	4	2	0
	1730	,,	1003.4	972.9	..	30.0	23.9	20.8	24.7	59	..	6.8	..	4.1	0	0	21	0	1	0	0	0	5	12	3	9	0
	2330	,,	1007.6	976.4	..	25.3	22.9	21.6	25.9	81	..	6.5	..	3.7	0	0	19	0	0	0	0	4	11	3	1	11	0
Coimbatore (Pilamedu)	0530	399	1007.2	962.5	..	22.6	22.0	21.7	25.9	95	..	5.7	..	19.3	0	17	12	0	0	0	1	7	19	0	0	1	2
	0830	,,	1008.7	964.3	..	24.9	23.3	22.4	27.3	86	..	5.1	..	22.1	0	18	11	0	0	1	0	10	17	1	0	1	0
	1130	,,	1007.4	963.6	..	29.0	24.9	22.9	28.3	71	..	4.8	..	30.0	0	23	7	0	0	1	1	8	16	3	0	0	1
	1730	,,	1004.7	960.7	..	27.0	24.0	22.5	27.4	77	..	5.9	..	36.2	0	28	2	0	0	0	0	8	18	4	0	0	0
	2330	,,	1008.3	963.7	..	23.4	22.5	22.1	26.4	92	..	5.7	..	27.6	0	28	2	0	0	0	0	8	19	3	0	0	0
Coimbatore	0830	409	1009.1	963.7	—0.3	24.9	21.6	19.8	23.2	74	—7	6.4	+2.5	23.1	0	26	4	0	0	0	1	14	14	1	0	0	0
	1730	,,	1004.9	959.9	..	27.2	22.6	20.2	23.7	66	..	7.0	..	21.9	0	22	8	0	0	0	0	10	15	5	0	0	0
Nagappatinam	0830	9	1008.4	1007.3	—0.7	27.9	24.4	22.7	27.6	73	+1	5.5	+1.3	10.0	0	1	28	1	0	0	0	0	13	15	0	1	0
	1730	,,	1004.3	1003.2	..	30.6	26.0	24.0	29.8	69	..	6.2	..	15.7	0	9	21	0	0	1	7	9	11	2	0	0	0

*Data not reliable. (b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or highest of nearest standard of isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 62	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(contd.)																											
Tiruchirapalli	0230	88	1006.2	996.3	..	25.9	22.6	20.8	24.7	74	..	(b) 4.8	..	12.7	0	8	15	0	0	0	0	0	1	21	1	7	0
	0530	,,	1006.6	996.6	..	25.4	22.4	20.8	24.6	76	..	5.1	..	10.3	0	0	26	0	6	0	0	0	1	23	2	4	0
	0830	,,	1008.3	998.4	—0.9	27.7	23.3	21.1	25.0	68	—4	4.7	+0.5	15.5	0	10	18	0	0	0	0	0	2	24	2	2	0
	1130	,,	1007.1	997.4	..	31.7	24.1	20.3	23.8	51	..	4.4	..	21.3	0	16	14	0	0	0	0	0	2	24	4	0	0
	1730	,,	1003.9	994.1	..	31.2	23.8	19.9	23.4	53	..	6.3	..	19.4	0	15	13	0	2	0	3	5	2	12	14	2	0
	2330	,,	1007.7	997.8	..	26.8	22.8	20.6	24.4	70	..	5.4	..	15.1	0	9	16	0	0	0	1	2	4	18	0	5	0
Vedaraniyam	0830	4	1008.4	1007.9	..	28.9	25.7	24.3	30.4	76	..	5.0	..	6.5	0	0	29	2	1	0	0	8	8	4	6	1	0
	1730	,,	1004.6	1004.1	..	29.5	26.7	25.6	32.6	80	..	4.6	..	9.0	0	2	27	0	0	5	15	9	0	0	1	0	0
Atiram Pattinah	0830	6	1008.0	1007.3	..	28.4	24.6	22.8	27.7	73	..	5.5	..	6.5	0	0	28	4	0	0	0	1	7	6	10	2	0
	1730	,,	1004.2	1003.5	..	30.1	26.2	24.6	30.7	73	..	5.7	..	22.0	0	21	9	0	2	0	2	16	9	1	0	0	0
Madurai	0830	133	1008.3	993.4	—0.2	27.7	25.2	24.1	30.0	81	+15	4.1	—0.7	3.9	0	0	30	9	0	1	0	2	1	11	4	0	2
	1730	,,	1004.2	989.4	..	31.1	27.7	26.5	34.4	76	..	49	..	9.9	0	4	26	1	1	1	2	6	6	7	5	0	1
Madurai (Aerodrome)	0530	130	1006.6	991.7	..	25.5	22.3	20.7	24.3	76	..	5.4	..	7.5	0	1	23	14	0	0	0	1	2	5	2	6	0
	0030	,,	1008.3	993.6	..	28.2	23.3	20.7	24.7	65	..	5.5	..	12.3	0	2	27	10	0	0	3	1	5	5	5	1	0
	1130	,,	1007.3	992.8	..	32.1	24.0	19.8	23.2	49	..	5.6	..	17.4	0	9	19	6	1	0	1	0	3	11	6	2	0
	1730	,,	1004.2	989.6	..	30.6	23.6	20.0	23.4	55	..	6.5	..	25.2	0	16	14	1	2	2	3	3	2	13	4	0	0
Tondi	0830	5	1008.4	1007.8	..	28.2	24.1	22.2	26.6	71	..	5.1	..	3.8	0	0	10	0	1	0	2	2	4	1	0	20	0
	1730	,,	1004.6	1004.0	..	29.9	26.1	24.4	30.7	73	..	6.0	..	27.5	0	25	5	0	0	1	12	14	1	0	2	0	0
Pamban	0830	11	1008.2	1006.9	—1.1	28.6	26.0	24.9	31.5	80	+3	4.6	+1.7	6.8	0	1	18	0	0	0	4	3	11	1	0	11	0
	1730	,,	1005.0	1003.7	..	28.7	26.6	25.8	33.0	85	..	4.5	..	11.7	0	8	19	0	0	0	10	12	4	0	1	3	0
Tuticorin	0830	4	1009.0	1008.6	0	29.7	24.2	21.5	25.6	62	+3	4.6	+1.4	13.1	0	5	25	1	2	0	0	0	3	22	2	0	0
	1730		1005.1	1004.7	..	31.4	24.7	21.3	25.6	57	..	6.0	..	21.0	0	16	14	0	1	0	4	6	0	19	0	0	0
Palayan Kottai	0830	51	1008.9	1003.2	+0.1	29.0	23.5	20.7	24.4	61	+3	5.4	+1.5	4.0	0	0	20	1	0	0	0	0	0	12	7	10	0
	1730	,,	1005.3	999.6	..	30.5	23.7	20.2	23.7	55	..	6.3	..	10.5	0	2	26	0	0	0	0	1	6	17	4	2	0
Kanniyakumari	0830	37	1009.5	1005.4	..	26.4	24.0	22.9	27.9	81	..	5.8	..	16.9	0	10	20	0	0	0	0	0	3	24	3	0	0
	1730	,,	1006.6	1002.5	..	27.0	24.5	23.4	28.6	81	..	6.0	..	17.6	0	14	16	0	0	0	0	0	3	25	2	0	0
Coastal Mysore																											
Karwar	0830	4	1008.4	1007.9	—1.1	25.6	24.5	23.9	29.8	91	+1	6.0	0	7.0	0	1	26	3	7	3	1	5	0	2	1	3	5
	1730	,,	1006.0	1005.5	..	27.2	25.3	24.4	30.7	85	..	6.1	..	14.5	0	7	23	0	0	0	5	1	5	6	12	0	1
Honavar	0830	26	1009.2	1006.3	—1.1	24.7	23.7	23.3	28.4	92	+1	7.2	+1.0	3.9	0	0	29	1	1	20	2	4	0	1	0	1	0
	1730	,,	1006.5	1003.6	..	26.9	24.8	23.9	29.7	48	..	6.4	..	8.2	0	0	30	0	0	1	0	6	8	9	6	0	0
Mangalore (Bajpe)	0230	102	1007·7	996·1	..	23·9	23·4	23·0	28·3	95	..	6·0	..	5·2	0	0	19	4	0	2	4	0	3	1	5	11	0
	0530	,,	1007·9	996·3	..	23·6	23·1	22·8	27·9	95	..	5·9	..	4·7	0	0	20	0	2	5	2	1	2	2	6	10	0
	0830	,,	1009·6	998·0	..	24·8	23·8	23·3	28·6	91	..	6·6	..	6·3	0	0	26	2	3	3	5	2	1	5	5	4	0
	1130	,,	1009·2	997·7	..	27·5	24·7	23·5	28·8	79	..	6·6	..	10·9	0	0	30	4	0	0	0	2	11	5	8	0	0
	1730	,,	1006·6	995·1	..	26·7	24·4	23·3	28·6	82	..	6·4	..	12·5	0	0	30	1	1	0	0	0	9	8	11	0	0
	2330	,,	1009·4	997·8	..	24·4	23·7	23·4	28·6	94	..	5·7	..	6·6	0	0	24	0	0	0	3	4	4	2	11	6	0
Mangalore	0830	22	1009·6	1007·1	—1·1	25·9	24·3	23·6	29·1	87	—1	6·5	+0·7	2·9	0	0	30	6	3	6	0	4	2	4	5	0	0
	1730	,,	1006·8	1004·3	..	27·4	25·0	24·0	29·7	82	..	6·7	..	4·5	0	0	30	1	0	0	0	0	10	11	8	0	0
Interior Mysore (North)																											
Bidar	0830	664	1006·8	933·7	..	22·5	20·9	20·0	23·5	85	+2	5·2	+0·4	15·7	0	8	22	3	1	0	0	0	14	1	11	0	0
	1730	,,	1002·4	930·2	..	26·5	21·8	19·3	22·7	66	..	5·0	..	14·4	0	7	23	1	2	0	0	0	11	2	14	0	0
Gulbarga	0830	458	1007·3	956·2	—1·1	23·7	21·9	21·0	25·0	85	+7	6·8	+1·9	10·7	0	0	29	2	1	0	0	0	5	15	6	1	0
	1730	,,	1002·9	952·8	..	28·3	22·7	19·8	23·5	63	..	6·7	..	10·3	0	5	25	4	3	0	0	0	6	11	6	0	0
Bijapur	0830	594	1007·8	941·6	—1·4	22·5	21·4	20·7	24·7	90	+12	6·1	+1·3	2·9	0	0	26	2	0	0	0	1	1	21	1	4	0
	1730	,,	1002·7	938·3	..	28·2	22·6	20·0	23·2	64	..	6·3	..	4·1	0	0	28	2	0	0	0	0	1	24	1	2	0
Raichur	0830	400	1007·3	962·6	—1·4	24·6	22·0	20·7	24·3	79	+3	5·8	+1·7	6·9	0	0	29	0	0	0	0	0	13	6	9	1	1
	1730	,,	1002·6	959·0	..	29·2	22·8	19·2	22·5	58	..	6·5	..	5·5	0	0	30	0	0	0	3	0	13	0	14	0	0
Belgaum	0830	753	1008·7	925·8	—0·8	21·4	20·3	19·8	22·9	91	+4	6·1	+0·2	4·[illegible]	0	0	25	0	0	1	0	0	2	21	1	5	0
	1730	,,	1004·8	923·0	..	24·4	21·5	20·1	23·5	78	..	6·7	..	8·[illegible]	0	0	30	0	0	0	0	0	0	16	11	0	3
Belgaum (Samra)	0530	747	1007·3	924·7	..	19·4	19·4	19·1	22·1	9	..	5·3	..	8·7	0	5	14	0	0	0	0	0	5	12	2	11	0
	0830	,,	1008·6	926·3	..	21·7	20·2	19·5	22·7	87	..	6·4	..	10·1	0	4	23	2	1	0	0	0	4	14	5	3	1
	1130	,,	1007·5	926·2	..	24·9	20·9	19·3	22·4	70	..	6·1	..	18·9	0	16	12	3	2	0	0	0	2	15	6	2	0
	1730	,,	1005·1	923·7	..	24·0	20·9	19·3	22·4	76	..	6·4	..	21·5	0	19	11	0	0	0	0	0	3	19	8	0	0
Gadag	0530	650	1007·3	935·1	..	20·9	22·2	19·9	23·2	94	..	6·0	..	8·0	0	0	27	0	0	0	0	0	4	21	2	3	0
	0830	,,	1008·5	936·7	—0·7	22·4	21·0	20·2	23·8	88	..	5·9	+0·5	7·7	0	0	27	1	0	0	0	0	5	19	2	3	0
	1130	,,	1007·1	936·3	..	26·6	21·7	19·3	22·4	66	..	6·2	..	2	0	0	30	2	1	0	0	0	0	22	5	0	0

(b) Mean of 27 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level of height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	V pour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amoun (Oktas): Mean amount	Cloud amoun (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (North)—*(contd.)*																											
Godag—(contd.)	1730	650	1004·3	933·6	..	26·2	21·5	18·9	22·1	67	..	6·8	..	8·5	0	0	26	0	1	0	1	0	3	19	2	4	0
	2330	,,	1008·4	936·4	..	21·9	20·8	20·2	23·8	90	..	6·1	..	10·3	0	0	30	0	0	0	0	0	10	20	0	0	0
Interior Mysore (South)																											
Bellary . . .	0830	449	1007·6	957·7	−1.2	25·1	23·1	22·1	26·6	83	+13	6·0	+1·0	9·3	0	0	28	0	0	0	0	0	0	0	28	2	0
	1730	,,	1002·8	953·9	..	29·4	25·3	23·5	28·9	71	..	6·3	..	10·9	0	1	29	1	0	0	0	0	0	0	29	0	0
Chitra Durga . .	0830	733	1008·5	927·8	−0·8	21·8	20·3	19·5	22·1	87	+7	6·3	+1·0	9·3	0	0	28	0	0	0	0	0	12	16	0	2	0
	1730	,,	1003·9	924·6	..	25·8	21·3	18·7	22·7	67	..	6·6	..	7·1	0	0	28	0	0	0	0	0	3	25	0	2	0
Shimoga . . .	0830	571	1008·7	945·5	−0·6	23·0	21·2	20·3	23·8	85	0	7·5	+1·0	2·9	0	0	19	1	1	0	1	3	9	3	1	11	0
	1730	,,	1004·7	942·3	..	25·5	21·8	20·1	23·5	73	..	7·2	..	5·1	0	0	23	0	0	0	0	4	13	3	3	7	0
Agumbe . . .	0830	..	..	..	..	21·6	21·1	20·8	24·7	95	..	6·7	..	3·1	0	0	29	0	6	2	0	3	16	2	0	1	0
Bachonnur . .	0830	..	..	..	..	19·7	19·2	18·9	21·8	95	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan . . .	0830	960	1489·6	904·1	..	20·2	19·3	18·8	21·8	92	+10	6·9	+1·1	4·1	0	0	30	0	0	0	1	0	4	19	6	0	0
	1730	,,	1472·4	901·4	..	23·5	20·2	18·3	21·3	74	..	6·6	..	4·7	0	0	30	0	0	0	0	0	2	21	7	0	0
Bangalore . .	0230	921	1471·9	906·4	..	20·1	19·3	18·9	21·8	93	..	5·3	..	8·1	0	0	26	0	0	0	0	0	10	15	1	4	0
	0830	,,	1491·4	908·3	−0·8	20·8	19·5	18·9	21·8	89	+5	6·7	+0·1	11·3	0	4	24	2	0	0	0	0	8	15	3	2	0
	1130	,,	1493·2	907·8	..	24·4	20·6	18·6	21·4	71	..	6·7	..	13·3	0	9	19	2	0	0	0	0	5	14	7	2	0
	1730	,	1467·8	905·1	..	24·6	20·7	18·7	21·6	71	..	7·0	..	11·9	0	7	19	4	0	0	0	0	10	11	1	4	0
Bangalore Aerodrome	0530	897	1471·4	908·9	..	19·9	19·4	19·2	22·1	96	..	6·6	..	10·9	0	3	22	0	0		0	1	4	20	0	5	0
	0830	,,	1490·8	910·8	..	21·4	19·9	19·1	22·1	87	..	6·9	..	14·2	0	5	24	1	0	0	0	0	3	22	3	1	0
	1130	,,	1493·1	910·3	..	24·8	21·0	19·2	22·1	71	..	6·9	..	17·0	0	11	18	4	0	0	0	0	3	19	3	1	0
	1730	,,	1467·3	907·5	..	24·9	21·3	19·4	22·7	73	..	6·9	..	12·4	0	6	19	3	0	0	0	0	4	16	2	5	0
	2330	,	1485·5	910·3	..	21·1	20·1	19·6	22·8	91	..	6·5	..	11·0	0	2	22	0	0	0	0	0	5	18	0	6	1
Mysore . . .	0830	767	1009·3	925·0	−0·7	21·9	20·2	19·3	22·4	85	+6	5·5	−0·3	9·2	0	3	27	1	0	0	1	1	8	12	7	0	0
	1730	,,	1005·4	922·3	..	24·9	20·9	18·8	21·8	69	..	5·6	..	12·8	0	5	24	0	3	0	1	5	4	8	8	1	0
Kerala																											
Calicut . . .	0530	5	1008·5	1007·9	..	24·5	23·6	23·2	28·3	92	..	6·0	..	8·4	0	5	11	2	2	2	0	0	1	1	8	14	0
	0830	,,	1010·2	1009·6	+0·6	25·3	24·1	23·5	28·9	90	+2	6·1	+0·7	7·5	0	1	26	3	3	2	0	0	3	6	10	3	0
	1130	,,	1010·2	1009·6	..	27·3	25·0	23·9	29·7	82	..	5·2	..	13·8	0	5	25	0	1	0	0	0	8	14	7	0	0
	1730	,,	1007·5	1006·9	..	27·3	25·0	23·9	29·7	82	..	6·0	..	13·0	0	5	25	0	0	0	0	0	4	12	14	0	0
	2330	,	1010·1	1009·5	..	25·5	24·2	23·6	29·3	89	..	5·0	..	12·0	0	7	17	4	1	2	0	0	3	6	8	6	0
Palghat . . .	0830	97	1010·0	998·9	..	24·9	23·8	23·2	28·4	90	..	7·0	..	9·9	0	0	29	0	0	1	0	0	3	24	1	1	0
	1730	,,	1006·5	995·6	..	27·3	24·4	23·0	28·3	78	..	7·1	..	14·2	0	3	27	1	0	0	0	0	5	23	1	0	0
Fort Cochin . .	0830	3	1010·3	1010·0	−0·9	26·2	24·7	24·0	29·8	88	+4	7·2	+2·1	6·4	0	2	24	4	4	2	1	1	2	6	6	4	0
	1730	,,	1007·2	1006·9	..	27·1	24·9	23·9	29·7	83	..	6·8	..	7·9	0	0	30	1	1	0	0	0	2	9	17	0	0
Cochin (Naval Air Station)	0230	3	1008·7	1008·4	..	25·1	24·2	23·7	29·3	92	..	6·9	..	4·7	0	1	11	0	0	2	0	1	0	5	4	18	0
	0530	,,	1008·8	1008·5	..	24·5	23·8	23·4	28·9	93	..	6·7	..	5·2	0	2	10	0	0	2	0	0	1	4	5	18	0
	0830	,,	1010·4	1010·1	..	26·2	24·4	23·7	29·1	86	..	6·6	..	5·7	0	0	22	3	1	6	2	0	2	3	5	8	0
	1130	,,	1010·5	1010·2	..	28·1	25·1	23·9	29·5	78	..	6·4	..	12·6	0	3	25	2	0	0	0	1	8	5	12	2	0
	1730	,,	1007·9	1007·6	..	27·4	24·8	23·6	29·1	80	..	6·7	..	12·4	0	2	28	0	0	0	0	0	2	19	9	0	0
	2330	,,	1010·3	1010·0	..	25·4	24·3	23·7	29·5	90	..	6·8	..	5·5	0	2	11	1	1	0	0	0	1	7	3	17	0
Alleppey . .	0830	4	1010·4	1010·0	−0·3	26·0	24·9	24·5	30·5	95	+8	6·7	+0·4	7·5	0	3	23	3	5	1	1	0	1	3	12	4	0
	1730	,,	1007·6	1007·2	..	27·6	25·6	24·7	31·1	85	..	6·6	..	19·2	0	17	13	0	0	0	0	0	7	23	0	0	0
Punalur . . .	0830	34	1010·2	1006·4	..	25·0	24·1	23·7	29·3	93	..	6·7	..	0·6	0	0	5	1	0	0	0	0	1	1	2	25	0
	1730	,,	1007·0	1002·2	..	28·1	24·7	23·1	28·3	75	..	7·1	..	4·8	0	0	28	2	0	0	0	0	3	12	11	2	0
Trivandrum . .	0230	64	1008·4	1001·1	..	24·3	23·6	23·3	28·6	94	..	5·2	..	5·6	0	0	25	8	0	0	0	0	0	1	16	5	0
	0530	,	1008·7	10001·3	..	23·9	23·4	23·2	28·3	96	..	5·9	..	4·8	0	0	22	9	0	0	0	0	0	1	12	8	0
	0830	,	1010·5	1003·1	−0·5	25·8	24·1	23·4	28·6	87	+4	6·0	+0·5	6·5	0	0	27	4	0	0	0	0	0	0	23	3	0
	1180	,	1009·9	1002·7	..	27·9	24·7	23·3	28·4	77	..	6·0	..	11·2	0	2	28	3	0	0	0	0	0	7	20	0	0
	1730	,,	1007·5	1000·2	..	26·9	24·5	23·3	28·8	81	..	6·2	..	10·7	0	1	29	1	0	0	0	0	0	7	22	0	0
	2330	,,	1010·1	1002·8	..	24·8	23·9	23·4	28·9	92	..	5·0	..	7·6	0	1	24	6	0	0	0	0	0	3	16	5	0
Trivandrum (Aerodrome)	0830	8	1010·4	1009·5	..	26·3	24·4	23·6	28·9	85	..	5·9	..	8·3	0	1	27	9	0	0	0	0	0	0	19	2	0
Arabian Sea Islands																											
Amini* . .	0830	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
	1730	4																									
Minicoy* .	0530	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data given as addenda in December 1962 issue.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud aimount (Oktas): Mean amount	Cloud aimount (Oktas): Deapurture from normal	Mean wind speed, kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of obseration: Wind direction: N	NE	E	E	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Arabian Sea Islands —(*contd.*)																											
Minicoy*—(contd.)	1130	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1419·0	798·0	0	15·8	14·2	13·2	15·2	85	+1	5·2	+2·7	5·2	0	0	29	0	18	0	4	0	2	0	2	1	3
	1730	,,	1410·0	797·9	..	19·4	16·8	14·7	16·7	79	..	6·8	..	3·2	0	0	30	0	5	1	11	1	6	5	0	0	1
Dharmsala	0830	1211	1562·2	885·5	+4·9	21·5	18·4	16·6	18·9	75	+2	4·6	+1·1	2·2	0	1	9	1	5	1	0	1	0	2	0	20	0
	1730	,,	1559·3	885·0	..	23·1	20·4	19·0	22·1	78	..	5·9	..	3·1	0	0	26	2	1	0	0	1	14	8	0	4	0
Simla	0830	2202	1468·1	780·5	—0·5	15·1	14·7	14·1	16.1	91	+20	4·7	+1·1	2·1	0	0	30	1	0	0	9	1	12	0	7	0	0
	1730	,,	1464·1	780·2	..	16·2	15·7	15·4	17·5	95	..	6·0	..	2·0	0	0	30	0	4	1	4	0	14	0	7	0	0
Lokpal	0830	..	..	..	..	3·4	2·6	1·7	6·9	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830																										
Joshimath	0830	..	..	..	..	17·1	15·6	14·6	17·0	86	..	5·0	..	4·2	0	1	22	3	5	8	2	1	0	3	1	7	0
	1730	..	..	..	..	19·4	17·0	15·4	17·7	77	..	5·9	..	3·1	0	0	21	0	0	5	2	1	5	3	4	9	1
Mussoorie	0830	2042	1465·0	795·0	—1·3	16·7	15·0	14·0	15·9	89	+1	5·7	+0·9	2·9	0	0	18	3	1	0	3	6	4	0	1	12	0
	1730	,,	1447·0	793·4	..	16·8	16·2	16·3	17·7	91	..	6·9	..	2·0	0	0	17	2	1	0	6	7	1	0	0	13	0
Mukteswar (Kumaun)	0830	2311	3134·6	772·2	+0·1	15·5	14·2	13·3	15·3	85	+4	5·6	+1·3	9·1	0	2	27	1	8	9	1	0	4	4	2	1	0
	1730	,,	3114·7	770·2	..	16·2	15·3	14·7	17·0	91	..	5·9	..	12·0	0	4	04	1	2	6	2	1	4	9	3	2	0
Nainital	0830	1953	1470·0	803·7	+0·4	17·2	15·4	14·1	15·9	83	+4	5·0	+0·3	5·5	0	2	15	0	0	9	7	0	0	0	1	13	0
	1730	,,	1438·4	800·9	..	17·8	16·0	14·3	17·0	83	..	5·5	..	8·1	0	2	28	3	0	9	8	4	2	4	0	0	0
Kalimpong	0830	1209	1468·3	876·0	—1·8	21·1	19·4	18·4	21·1	85	—4	1·8	—3·9	3·1	0	0	30	4	0	0	2	0	0	0	24	0	0
	1730	,,	1466·5	875·8	..	21·5	19·5	18·3	21·0	83	..	1·9	..	3·1	0	0	30	0	0	0	30	0	0	0	0	0	0
Darjeeling	0830	2128	1454·8	786·5	—2·3	17·1	16·0	14·9	16·9	90	+6	6·0	—0·4	1·4	0	1	4	2	1	0	0	0	1	0	0	25	1
	1730	,,	1431·3	784·3	..	17·1	16·1	15·4	17·5	88	..	6·2	..	0·9	0	0	3	0	0	0	0	0	1	0	0	27	2
Kohima	0830	1406	1530·7	862·5	..	20·7	18·9	17·9	20·5	85	..	5·8	..	3·9	0	0	30	3	3	1	0	1	2	0	15	0	5
	1730	,,	1481·7	857·5	..	21·5	20·0	19·3	22·4	88	..	6·7	..	6·0	0	0	30	1	2	0	0	0	1	1	25	0	0
Shillong	0830	1500	1488·9	850·0	+1·2	22·0	18·9	17·1	19·5	74	—5	5·5	—0·1	2·1	0	0	17	2	1	4	3	1	1	0	5	13	0
	1730	,,	1467·1	847·0	..	20·5	19·3	18·7	21·6	90	..	7·5	..	0·2	0	0	1	0	0	0	1	0	0	0	0	29	0
Cherrapunji	0830	1313	1464·6	865·1	—2·5	21·2	19·5	18·6	21·4	85	+1	4·8	—1·3	(d) 2·7	0	0	23	0	7	9	3	0	2	2	0	4	0
	1730	,,	1458·7	864·6	..	21·0	19·8	19·2	22·2	88	..	5·3	..	(d) 2·3	0	0	21	3	5	3	5	3	2	0	0	6	0
Abu	0830	1195	1473·7	878·1	—0·6	20·1	18·4	17·4	20·0	85	+5	5·1	+0·7	0·7	0	0	9	2	0	0	2	1	1	2	1	21	0
	1730	,,	1454·6	876·3	..	22·4	19·9	18·6	21·3	79	..	3·7	..	1·2	0	0	13	1	0	1	2	1	6	1	1	17	0
Aijal	0830	..	..	..	..	23·0	21·3	20·5	24·1	87	..	6·2	..	2·0	0	0	30	3	2	19	2	2	0	1	1	0	0
	1730	..	..	..	..	24·0	22·6	22·0	26·4	88	..	6·8	..	2·0	0	0	30	8	5	4	1	2	1	9	0	0	0
Pachmarhi	0830	1075	1469·1	889·8	—1·2	21·2	20·5	20·0	23·5	93	+10	7·0	+1·8	4·9	0	0	29	1	3	3	0	3	1	0	18	1	0
	1730	,,	1444·3	887·0	..	23·0	21·3	20·4	24·1	86	..	6·1	..	4·9	0	0	28	2	4	0	1	2	1	6	12	2	0
Mahabaleshwar	0830	1382	1480·7	860·1	—1·3	17·2	16·9	16·7	19·0	97	0	6·8	—0·2	9·8	0	0	30	2	1	2	0	0	12	2	11	0	0
	1730	,,	1462·0	858·2	..	18·2	13·1	18·0	20·6	99	..	7·3	..	10·1	0	0	30	2	0	0	0	0	14	6	8	0	0
Mercara	0830	1152	1495·7	885·0	0	18·7	18·2	17·8	20·5	95	+3	5·9	—0·5	12·1	0	1	29	0	0	0	0	0	0	16	14	0	0
	1730	,,	1474·1	882·2	..	20·2	19·0	18·4	21·1	92	..	6·7	..	12·3	0	0	30	0	0	1	0	0	0	21	8	0	0
Ootacamund	0830	2249	1494·5	778·4	—0·4	13·5	12·8	12·1	14·3	91	+8	5·6	—0·1	3·5	0	0	20	0	1	0	0	0	4	14	1	10	0
	1730	,,	1472·6	776·6	..	14·5	13·3	12·5	14·5	88	..	6·4	..	4·7	0	0	20	0	0	0	0	0	2	16	2	10	0
Coonoor (R)	0830	1747	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kodaikanal	0830	2343	3140.1	770.3	0	13.8	12.0	10.7	12.9	82	+6	6.0	+1.5	9.5	0	5	15	4	1	0	0	0	0	2	13	10	0
	1130	,,	3146.4	770.3	..	16.1	14.0	12.6	14.7	80	..	7.0	..	9.5	0	2	28	5	1	0	4	2	1	2	15	0	0
	1730	,,	3120.2	768.4	..	14.2	13.2	12.6	14.5	90	..	6.9	..	8.7	0	4	20	5	0	0	0	1	0	4	14	6	0
Nepal																											
Katmandu	0830	1324	1477.0	865.3	..	21.5	19.7	18.7	21.6	84	..	6.4	..	0.1	0	0	1	0	0	1	0	0	0	0	0	29	0
	1130	,,	1469.8	864.4	..	25.4	20.9	18.4	21.4	66	..	6.0	..	0.1	0	0	1	0	0	0	0	1	0	0	0	29	0
	1730	,,	1447.9	862.3	..	22.7	20.3	19.1	22.1	80	..	6.5	..	0.4	0	0	3	0	0	1	1	0	0	0	1	27	0
Sikkim																											
Lachen	0830	..	..	..	..	15.0	13.4	12.2	14.2	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeoro logical Observatories Damodar Catchment																											
Tilaiya	0830	..	..	..	..	26.9	24.6	23.5	29.1	82	..	5.2	..	9.1	0	0	29	2	1	11	6	1	2	2	3	1	1
	1730	..	..	..	..	27.7	24.5	23.0	28.2	76	..	6.2	..	9.5	0	3	25	0	1	13	5	0	0	4	5	2	0

(R) Register not received.

(d) Mean of 27 days.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Departure from normal	Relative humidity %	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed kms per hour	Wind speed (Kms. p.h.): 62 or more	Wind speed (Kms. p.h.): 20 to 61	Wind speed (Kms. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(contd.)																											
Hazaribagh	0830	..	..	..	..	24.9	22.9	22.0	26.6	84	..	5.4	..	5.6	0	0	26	3	0	4	7	5	2	1	4	4	0
	1730	..	..	..	..	25.3	23.1	22.1	26.6	83	..	5.8	..	5.1	0	0	21	3	0	6	4	2	2	0	4	9	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	5.7	..	8.6	0	2	28	0	0	13	5	0	0	9	3	0	0
	1730	..	..	..	..	..	..	..	..	..	..	5.6	..	7.3	0	0	30	0	0	16	2	1	0	10	1	0	0
Bokaro	0830	..	..	..	..	28.3	25.5	24.3	30.4	79	..	6.0	..	4.7	0	0	30	0	7	0	10	0	7	0	6	0	0
	1730	..	..	..	..	28.9	26.5	25.5	32.7	82	..	7.2	..	4.7	0	0	30	2	9	0	8	0	4	1	6	0	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	4.9	..	9.4	0	0	30	0	0	7	9	4	4	6	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	4.9	..	11.6	0	0	30	0	0	6	13	4	5	2	0	0	0
Ramgarh	0830	..	..	..	..	27.2	24.5	23.3	28.6	79	..	4.8	..	1.7	0	0	16	2	3	2	1	1	0	5	2	14	0
	1730	..	..	..	..	27.5	24.7	23.4	28.9	79	..	6.2	..	1.6	0	0	16	1	3	3	2	2	1	2	2	14	0
Pauchet Hill	0830	..	..	..	..	29.0	25.8	24.5	30.7	77	..	7.3	..	5.5	0	0	28	0	10	1	7	0	4	0	6	2	0
	1730	..	..	..	..	28.7	25.7	24.4	30.5	78	..	7.5	..	4.6	0	0	25	0	4	1	13	1	3	0	3	5	0
Durgapur	0830	..	..	..	..	28.1	26.1	25.3	32.2	85	..	5.1	..	7.3	0	0	30	2	0	1	7	17	2	1	0	0	0
	1730	..	..	..	..	28.8	26.4	25.3	32.4	82	..	5.1	..	5.5	0	0	29	2	1	1	12	11	1	0	1	1	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	26·0	23·8	22·8	27·7	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1004·7	986·9	..	28·3	25·4	24·1	30·0	78	..	4·9	..	2·9	0	0	27	0	1	2	10	7	2	2	0	3	3
	1130	..	1003·9	986·4	..	30·6	26·0	23·9	29·7	68	..	5·7	..	3·3	0	0	27	0	2	3	8	5	6	1	1	3	1
	1730	..	1001·1	983·5	..	29·6	25·5	23·8	29·5	72	..	6·4	..	2·6	0	0	22	0	0	0	11	2	4	3	0	8	2
Bhimkund	0830	..	..	..	..	26·5	24·2	23·1	28·3	82	..	6·0	..	3·3	0	0	18	0	6	0	3	1	7	0	1	12	0
	1730	..	..	..	..	27·2	24·5	23·3	28·6	79	..	6·5	..	2·7	0	0	19	0	4	0	7	1	5	1	1	11	0
Sonepur	0830	..	..	..	..	28·7	26·2	25·2	32·1	82	..	..	..	5·7	0	0	30	2	5	7	3	1	7	5	0	0	0
Khijrawan	0830	..	..	..	..	26·5	24·1	22·8	27·7	80	..	5·0	..	9·4	0	0	30	3	1	2	3	3	4	13	1	0	0
	1730	..	..	..	..	27·0	24·1	22·8	27·7	78	..	5·9	..	12·1	0	2	28	2	0	0	4	0	15	9	0	0	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	25·3	23·7	23·0	28·1	87	..	6·2	..	7·4	0	0	24	0	2	1	0	4	13	3	1	6	0
	1730	..	..	..	..	27·4	24·3	22·7	27·6	77	..	6·0	..	3·5	0	0	17	0	4	0	1	1	7	4	0	13	0
Punasa	0830	..	..	..	..	25·2	24·1	23·5	28·6	90	..	..	..	5·9	0	0	23	0	1	0	0	0	12	7	3	7	0
	1730	..	..	..	..	27·9	24·9	23·4	28·6	77	..	..	..	3·4	0	1	12	0	0	0	0	0	8	3	2	17	0
Thikri	0830	..	..	..	..	25·9	24·1	23·2	29·3	86	..	6·6	..	..	0	0	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment.																											
Dharoi	0830	..	..	..	..	27·1	24·4	23·1	28·3	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30·6	26·0	24·0	29·8	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	16·9	13·2	10·9	13·0	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·8	13·1	10·9	13·0	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	24·2	22·3	21·6	25·8	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·5	22·9	21·9	26·3	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	18·1	16·9	16·2	18·4	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·4	18·6	17·7	20·2	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	23·8	21·7	20·6	24·4	83	..	5·5	..	2·3	0	0	16	3	1	2	6	1	2	1	0	14	0
	1130																										
	1730	..	..	..	..	25·7	22·6	21·2	25·0	77	..	5·8	..	2·7	0	0	18	2	3	3	8	1	0	0	1	12	0
Gorkha*	0830																										
	1730																										
Nuwakot	0830	..	..	..	..	23·1	22·1	21·6	25·8	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·8	22·3	21·1	25·0	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh	0830	..	..	..	..	21·0	19·7	19·1	22·1	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·8	21·0	20·1	23·5	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghare Catchment																											
Dadeldhura	0830	..	..	..	..	17.9	16.9	16.3	18.6	91	..	5.7	..	6.1	0	0	26	1	0	10	11	0	2	1	1	4	0
	1730	..	..	..	..	18.4	17.3	16.8	19.0	90	..	5.2	..	4.9	0	0	27	7	1	3	3	2	4	2	5	3	0

*Data not available.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW		Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories— *(contd.)*																											
Ghagara Catchment —(contd.)																											
Sallayana . .	0830	..	..	..	..	21.1	19.4	18.5	21.3	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21.0	19.5	18.7	21.6	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal . . .	*0830	..	..	..	..	28.7	25.6	24.1	30.0	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu‡ . .	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara . .	0830	..	..	..	..	20.2	19.2	18.7	21.6	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21.9	19.9	19.0	22.0	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua . . .	0830	..	..	..	..	18.7	17.3	16.8	19.1	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.8	17.6	17.2	19.6	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola .	0830	..	..	..	..	13.6	11.9	10.9	13.0	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11.5	11.1	10.8	12.9	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok . .	0830	..	..	..	..	21.8	19.5	18.3	21.0	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21.5	19.9	19.1	22.1	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur . . .	0830	..	..	..	..	20.3	18.9	18.2	20.9	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19.5	18.8	18.5	21.3	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung . .	0830	..	..	..	..	20.0	18.4	17.6	20.1	87	..	6.4	..	..	..	..	..	1	0	0	1	0	0	0	1	27	0
	1130	..	..	..	..	22.6	19.9	18.5	21.6	78	..	6.1	..	..	..	..	..	3	0	0	0	1	2	5	7	12	0
	1730	..	..	..	..	20.2	18.3	17.4	19.7	84	..	7.0	..	..	..	..	..	0	0	0	0	3	7	2	0	18	0
Okhaldhunga . .	0830	..	..	..	..	19.9	18.7	18.1	20.8	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.4	17.6	17.2	19.6	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur . .	0830	..	..	..	..	21.8	20.5	19.9	23.2	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22.4	21.0	20.3	23.8	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung . .	†0830	..	..	..	..	23.1	21.3	20.4	24.0	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	††1730	..	..	..	..	24.1	20.6	18.6	21.4	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra . .	0830	146	1006.6	990.2	..	27.0	24.9	24.0	29.7	84	..	4.3	..	2.6	0	0	24	2	3	0	0	2	3	3	6	6	0
	1130	,,	1005.4	989.1	..	29.3	25.9	24.5	30.5	76	..	5.7	..	4.7	0	0	27	0	2	0	3	0	18	4	0	3	0
	1730	,,	1003.2	987.0	..	27.1	25.7	25.1	31.9	89	..	5.5	..	2.1	0	0	19	0	6	3	3	3	3	0	1	11	0
Tista Catchment																											
Gangtok . . .	0830	1812	1485.5	818.6	..	18.7	17.4	16.7	19.0	88	..	5.6	..	1.9	0	0	23	6	12	0	3	1	1	0	0	7	0
	1130	,,	1473.9	817.9	..	21.9	19.3	18.1	20.8	79	..	5.8	..	3.7	0	0	29	2	2	0	3	6	10	4	2	1	0
	1730	,,	1456.5	816.0	..	19.7	18.1	17.3	19.7	86	..	6.6	..	2.3	0	0	22	1	2	1	3	6	6	2	1	8	0
Gezing . . .	0830	..	..	..	..	20.8	19.5	18.9	21.8	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20.4	19.0	18.3	21.0	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

‡Data included under Nepal. †Observation for 29 days. ††Observation for 28 days. *Observation for 26 days.

MONTHLY MEANS OF UPPER WINDS

During the month , observations of velocity and direction of upper winds were made at 54 stations in Indi Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 14 stations some observatio were made by means of pilot balloons while the other observations by the radiowind method. In the case of Ba galore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars these stations, their co-ordinate and the approximate times of the regular pilot balloon and rawin ascents at ea station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against t scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N *	Long. E. *	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1. Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2. Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	
3. Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4. Ambala	30°23′	75°46′	279	1st April, 1941	0530	1130	1730	2330
5. Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6. Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7. Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8. Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9. Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10. Bareilly	28°22′	79°21′	181	12th January, 1943	0530		1730	
11. Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12. Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13. Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14. Bhubaneshwar	20°16′	85°50′	54	5th December, 1942	0530		1730	2330
15. Bhuj Rudramata	23°15′	69°45′	90	14th September, 1937	0530		1730	2330
16. Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17. Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18. Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19. Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20. Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530		1730	
21. Dehra Dun	30°19′	78°03′	692	1st October, 1948	0530		1730	
22. Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
23. Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24. Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25. Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26. Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27. Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28. Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29. Impha/ITulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30. Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31. Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32. Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530*	1130	1730	2330
33. Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34. Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35. Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36. Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37. Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38. Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39. Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40. Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41. New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42. Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43. Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44. Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45. Raxaul	26°59′	48°51′	83	28th October, 1957	0530		1730	
46. Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47. Srinagar	34°06′	74°48′	1603	1st August, 1962	0530*		1730*	
48. Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49. Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50. Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51. Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52. Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53. Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54. Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

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

19—28 D.D.G. Obs./66

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	1·2	0·9	135	30	1·2	0·6	204	30	1·1	0·6	143	30	2·1	1·1	272	30	3·5	1·9	288	30	1·9	0·7	247
0·15 a.g. .	29	4·6	3·1	142	29	3·5	1·4	243	28	4·5	2·9	175	30	6·3	3·6	283	29	4·2	2·2	268	30	4·3	2·2	256
0·3 a.m.s.l. .	29	4·9	3·1	150	29	3·7	1·7	229	28	4·6	2·8	183	30	6·9	4·0	284	29	4·2	2·1	268	30	4·5	2·4	260
0·6 ,, .	29	4·9	3·2	146	29	4·1	2·0	200	28	4·5	2·3	171	30	7·3	4·5	288	27	5·1	2·5	278	30	4·9	2·7	268
0·9 ,, .	29	4·4	3·1	143	28	4·4	2·3	172	27	3·9	2·3	172	30	5·9	3·4	267	25	5·3	2·6	286	30	5·8	3·1	279
1·5 ,, .	29	4·5	2·9	135	27	4·7	3·2	163	27	4·2	3·0	157	30	4·8	1·3	230	18	5·2	1·1	262	30	6·8	3·2	274
2·1 ,, .	27	5·1	3·5	132	25	5·2	2·8	152	26	4·1	3·3	150	30	5·3	0·5	182	9	5·5	0·8	314	30	6·2	1·8	263
3·0 ,, .	23	6·1	4·7	148	23	4·3	3·5	123	22	4·3	3·5	155	30	5·9	0·9	093	5	5·4	0·4	113	30	5·7	1·3	237
3·6 ,, .	19	4·2	3·4	150	22	4·4	3·3	113	9	3·9	2·5	148	29	5·9	1·3	047	5	4·5	0·5	229	30	6·0	0·8	241
4·5 ,, .	12	4·4	3·6	147	18	4·1	3·1	094	5	5·5	5·2	166	28	7·3	1·2	001	4	5·2	0·9	284	30	7·0	1·4	294
5·4 ,, .	9	4·9	4·2	138	15	4·1	3·3	096	2	4·5	4·5	160	28	7·3	1·4	278	2	9·0	8·5	243	30	6·6	1·7	270
6·0 ,, .	7	4·3	3·5	107	13	4·4	3·7	059	2	5·5	5·2	158	28	7·4	1·4	306	2	12·3	11·9	243	30	6·3	1·3	290
7·2 ,, .	6	4·3	3·1	112	8	4·1	1·9	089					28	8·7	1·8	350	1	8·0	8·0	260	30	7·1	1·6	342
9·0 ,, .	2	6·0	5·5	082	5	5·2	4·3	079					24	8·3	2·0	090					25	8·3	0·9	095

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·5	1·2	215	30	1·1	0·7	075	30	1·9	0·6	058	30	1·5	0·3	050	30	1·3	0·8	060	30	1·8	0·7	10[illegible]
0·15 a.g. .	29	5·7	3·4	215	30	5·3	1·7	064	30	4·1	1·2	050	30	4·9	1·2	047	26	6·5	2·1	105	28	6·4	2·2	08[illegible]
0·3 a.m.s.l. .	29	5·6	3·3	220	30	5·2	1·7	064	30	4·3	1·2	057	30	4·9	1·2	047	26	6·8	2·3	110	28	2·9	1·0	08[illegible]
0·6 ,, .	28	5·3	3·0	218	30	5·9	1·6	075	29	5·5	0·9	060	30	5·8	2·5	063	26	8·1	3·0	105	28	6·9	0·9	11[illegible]
0·9 ,, .	25	4·1	1·3	235	30	6·2	1·5	078	28	6·5	1·1	069	30	5·9	2·2	066	26	8·1	2·2	130	28	6·2	0·7	14[illegible]
1·5 ,, .	22	3·9	0·9	308	30	6·4	1·4	078	19	7·2	2·9	087	30	5·9	1·6	111	25	7·0	2·4	140	25	5·0	0·9	32[illegible]
2·1 ,, .	17	3·3	0·6	280	30	6·0	1·4	098	14	7·1	2·8	110	30	5·8	2·1	112	24	7·4	2·4	140	21	4·0	0·6	32[illegible]
3·0 ,, .	15	4·1	0·6	168	30	6·3	1·8	106	10	6·0	3·7	172	30	5·8	2·7	111	19	4·8	2·6	143	20	3·8	0·5	05[illegible]
3·6 ,, .	2	1·5	0·7	096	28	5·8	2·4	116	7	7·0	5·6	165	30	5·7	2·2	130	8	4·0	2·0	155	17	4·0	2·3	17[illegible]
4·5 ,, .					27	6·0	2·8	130	5	9·4	8·6	188	29	5·5	1·6	138					11	6·3	4·5	18[illegible]
5·4 ,, .					27	6·3	2·4	146	5	9·5	9·2	199	29	6·3	1·3	152					9	7·7	6·6	21[illegible]
6·0 ,, .					27	5·7	1·9	147	5	9·2	8·9	207	29	6·3	1·4	180					9	9·5	7·3	23[illegible]
7·2 ,, .					27	5·8	2·0	125	4	8·9	7·3	198	28	5·9	0·9	202					1	15·5	15·5	22[illegible]
9·0 ,, .					24	5·5	2·3	140	1	5·0	5·0	220	24	5·2	1·3	197								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·4	0·3	140	30	1·9	0·8	326	30	1·7	0·4	355	30	2·1	1·8	264	30	3·5	2·9	286	30	2·8	2·4	268
0·15 a.g.	27	3·9	1·5	101	25	4·9	3·0	309	28	6·6	2·5	360	28	6·5	5·7	265	29	6·6	5·5	292	26	7·1	5·9	265
0·3 a.m.s.l.	27	2·4	0·7	108	25	2·9	1·6	301	28	2·6	0·9	344												
0·6 ,,	27	4·0	1·2	107	25	5·1	2·6	313	28	6·7	2·2	360	28	7·7	6·9	268	29	6·7	5·8	286	26	8·0	6·6	268
0·9 ,,	26	5·6	1·7	116	25	5·1	2·5	306	28	6·2	1·6	359	29	9·4	8·3	282	29	7·4	6·4	283	26	9·3	7·7	273
1·5 ,,	24	5·4	0·5	038	23	5·0	2·4	317	27	5·2	1·0	324	27	9·1	8·1	289	28	8·0	6·9	281	26	8·5	7·0	286
2·1 ,,	17	4·1	0·8	033	22	4·5	1·8	312	26	4·7	0·8	270	24	8·1	7·0	292	24	8·3	7·2	283	23	7·2	6·1	291
3·0 ,,	14	5·2	3·0	146	18	5·1	0·5	235	20	5·7	1·0	300	16	6·3	5·0	288	20	7·6	6·5	285	15	5·3	4·4	279
3·6 ,,	12	6·7	4·5	164	15	5·6	1·0	183	5	4·1	2·5	149	16	5·9	4·1	284	16	6·7	5·9	279	7	5·4	3·7	293
4·5 ,,	8	8·2	6·6	199	10	5·7	2·8	191					13	5·3	2·2	282	11	6·5	3·4	300	3	3·0	1·5	018
5·4 ,,	8	8·8	8·2	191	5	7·4	7·1	205					9	3·8	0·7	283	9	6·0	1·5	298	2	3·0	2·3	076
6·0 ,,	8	10·2	9·4	202	5	9·1	8·0	226					9	5·2	0·7	037	7	5·4	1·2	061	2	4.7	3·7	082
7·2 ,,	6	16·3	15·8	223	2	11·7	11·3	246					8	6·1	3·7	058	5	5·5	3·4	050	1	9·5	9·5	140
9·0 ,,	2	27·0	26·4	233									3	11·0	10·2	095	2	9·3	8·3	125				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·2	0·5	090	30	1·6	1·2	111	30	1·0	0·5	125	30	3·4	3·1	259	30	4·6	3·3	290	30	3·0	2·5	261
0·15 a.g.	25	4·4	1·2	133	28	4·5	2·4	125	28	6·3	3·6	149	28	8·5	7·1	269	27	7·1	4·9	298	26	7·8	5·8	272
0·3 a.m.s.l.	25	4·6	1·1	140	28	4·7	2·7	123	28	6·7	3·8	152												
0·6 ,,	25	5·6	0·8	157	28	5·7	3·3	131	27	6·6	3·6	156												
0·9 ,,	25	5·3	1·6	152	28	6·0	3·0	137	26	5·9	3·9	164	28	10·1	8·5	285	27	7·4	5·7	297	26	9·4	7·3	290
1·5 ,,	22	4·8	1·9	124	28	6·5	2·8	125	26	5·5	2·8	165	26	10·2	7·9	302	27	8·1	6·1	303	25	9·7	7·7	298
2·1 ,,	20	4·3	2·0	122	27	5·5	2·6	138	24	5·5	3·3	161	21	7·1	4·5	307	20	7·3	4·2	296	23	7·5	5·6	302
3·0 ,,	20	4·6	2·7	120	26	5·2	3·0	131	23	5·8	4·5	142	12	4·3	3·3	305	5	3·0	2·8	312	12	4·6	3·5	288
3·6 ,,	13	4·2	2·1	101	18	4·6	1·6	120	14	3·5	2·4	142					1	6·0	6·0	240	3	4·2	3·5	225
4·5 ,,	12	4·6	3·0	048	11	4·6	2·0	160	8	3·6	2·0	198												
5·4 ,,	6	4·3	0·7	074	8	4·3	3·6	094	4	3·4	1·9	148												
6·0 ,,	5	3·9	0·7	011	6	4·3	3·9	280	2	2·3	1·0	133												
7·2 ,,	3	5·3	4·6	035	1	5·5	5·5	120	1	2·5	2·5	190												
9·0 ,,	3	4·8	4·7	084																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·0	0·8	072	30	1·6	1·1	094	30	1·1	0·5	079	30	3·3	2·8	271	30	4·8	4·1	264	30	3·8	3·1	264
0·15 a.g.	26	6·0	3·6	112	27	5·1	3·4	108	29	4·9	1·3	097	12	6·0	4·9	288	27	6·1	5·0	358	24	5·4	3·5	280
0·3 a.m.s.l.	26	6·3	3·7	107	27	5·3	3·4	110	29	5·1	1·2	094												
0·6 ,,	26	7·6	4·7	116	26	5·9	3·3	112	28	6·6	1·8	101												
0·9 ,,	26	7·4	4·4	114	25	6·9	3·9	112	28	7·1	2·5	115												
1·5 ,,	22	6·9	4·1	101	19	7·2	4·2	114	26	7·7	4·2	124	12	8·9	7·5	296	27	6·6	5·8	355	24	6·0	5·0	286
2·1 ,,	22	5·9	4·6	104	15	6·8	3·8	125	26	7·4	4·8	120	12	8·9	7·6	297	9	4·7	3·3	320	21	6·1	5·1	290
3·0 ,,	20	5·2	4·3	107	12	6·1	4·6	143	24	6·9	5·3	125	11	7·6	5·7	303	6	4·6	2·4	360	19	6·0	4·6	301
3·6 ,,	16	5·0	3·8	127	10	5·7	3·6	153	24	6·4	4·7	132	12	7·8	5·2	293	5	6·4	2·8	008	17	5·7	3·9	292
4·5 ,,	16	5·3	3·2	152	8	5·7	4·9	192	23	6·0	3·5	141	9	5·8	4·0	310	5	6·3	2·4	060	15	5·1	2·4	304
5·4 ,,	15	5·1	2·1	197	8	8·0	7·0	204	22	5·9	2·7	173	7	5·1	0·7	014	4	6·4	3·6	089	12	4·5	0·5	134
6·0 ,,	10	5·5	2·8	204	8	8·9	8·0	210	21	6·0	2·2	184	7	4·6	1·8	083	3	7·5	7·1	093	11	4·5	2·6	092
7·2 ,,	8	5·4	3·2	231	6	11·1	10·2	220	16	6·4	2·7	226	5	6·7	5·2	064	1	8·0	8·0	060	10	5·8	4·4	084
9·0 ,,	6	8·2	5·1	251	4	18·4	18·4	233	14	7·1	4·4	234	5	7·8	7·6	092	1	8·0	8·0	075	10	8·5	8·2	094

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·9	2·5	262	30	1·5	0·7	057	30	1·7	0·7	073	30	2·8	2·5	277	30	3·9	3·1	280	30	2·2	1·7	277
0·15 a.g.	20	7·0	4·9	271	26	5·9	2·1	067	29	4·6	1·1	099	23	6·6	5·3	281	28	6·3	5·2	288	26	6·3	4·0	290
0·3 a.m.s.l.					26	5·5	2·1	063	29	4·3	1·0	088												
0·6 ,,					24	7·5	1·3	094	29	5·2	1·1	104	23	4·9	3·8	285	28	6·1	4·8	288	26	4·4	2·8	288
0·9 ,,					23	7·6	1·3	102	29	5·3	0·9	114	23	8·0	6·3	294	28	7·0	5·8	289	26	7·5	5·3	292
1·5 ,,	19	9·7	7·2	346	19	6·3	1·3	062	28	6·0	0·9	078	20	8·4	6·3	299	28	8·0	7·0	074	26	8·3	6·6	293
2·1 ,,	17	8·8	7·7	342	18	5·1	2·0	084	24	5·7	1·5	038	19	8·8	6·6	300	24	7·2	5·9	284	25	8·2	6·8	293
3·0 ,,	14	7·5	7·0	335	16	4·5	2·3	104	21	4·8	0·8	056	16	5·7	4·2	284	22	6·5	5·2	288	22	6·5	4·6	292
3·6 ,,	11	5·3	4·1	296	11	3·7	2·8	125	17	4·9	1·4	129	15	4·5	2·5	245	18	6·6	5·0	283	12	5·2	4·0	294
4·5 ,,	8	4·6	1·9	357	9	4·2	1·9	147	15	4·8	1·4	137	12	6·2	1·6	262	10	6·1	5·0	278	3	5·5	5·5	294
5·4 ,,	5	4·1	2·2	342	6	3·2	1·4	175	11	5·5	2·5	218	10	5·9	1·6	293	8	5·2	1·6	273	1	4·0	4·0	005
6·0 ,,	3	3·0	2·3	292	5	3·0	1·8	113	8	7·0	4·6	219	10	5·7	1·4	300	7	3·3	0·5	016	1	2·5	2.5	050
7·2 ,,	2	2·3	2·3	017	2	3·5	0·7	067	5	11·0	8·1	219	7	3·3	2·8	040	3	2·7	1·6	083				
9·0 ,,					1	4·5	4·5	250	1	20·0	20·0	230	4	6·9	6·3	086	2	5·7	4·5	068				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·0	1·4	080	30	2·1	0·9	095	30	3·7	1·3	307	30	3·7	1·3	307	30	2·6	0·6	309	30	1·9	0·1	042
0·15 a.g.	29	5·9	3·1	108	29	5·2	2·6	117	25	7·6	4·0	314	29	6·3	2·9	315	24	5·8	2·6	355	28	4·8	0·5	254
0·3 a. m.s.l	29	6·6	3·0	113	29	5·8	3·1	117													28	5·4	1·0	235
0·6 ,,	29	7·2	3·3	120	29	6·4	3·6	122	25	6·5	3·1	310	29	5·2	2·7	314	24	5·3	2·3	338	28	5·7	1·0	250
0·9 ,,	27	6·5	3·1	130	29	6·9	4·1	134	19	8·0	4·9	325	27	6·6	4·0	336	23	6·9	3·5	342	28	6·5	0·8	285
1·5 ,,	25	5·2	2·5	120	28	6·9	4·3	139	15	5·5	4·0	353	21	6·6	4·5	340	21	6·5	3·2	011	26	6·4	0·7	021
2·1 ,,	24	5·2	2·7	125	26	5·4	3·2	145	13	4·2	2·5	360	15	6·6	3·2	004	17	5·7	2·1	002	23	5·2	0·6	020
3·0 ,,	24	4·6	2·8	150	26	5·3	3·2	141	9	4·8	1·9	009	9	5·9	0·4	020	11	6·5	1·1	040	20	5·5	0·3	058
3·6 ,,	24	4·1	3·0	150	25	4·8	2·8	140	8	6·3	1·6	167	4	3·6	2·9	249	2	6·0	5·9	196	15	4·2	0·7	190
4·5 ,,	22	3·8	3·0	146	19	3·5	1·2	150	2	7·3	6·0	177	1	7·0	7·0	275					10	2·9	2·0	092
5·4 ,,	21	4·0	2·5	150	15	3·7	0·9	175	1	6·5	6·5	205	1	12·0	12·0	260					9	4·8	3·8	088
6·0 ,,	20	3·7	1·9	150	14	3·6	1·0	207	1	8·5	8·5	220									9	5·7	4·6	102
7·2 ,,	14	3·3	2·8	171	8	3·6	1·9	188	1	13·0	13·0	215									3	6·5	4·5	134
9·0 ,,	8	5·7	2·7	115	5	1·9	1·5	116													1	10·5	10·5	135

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·3	1·6	144	30	2·2	0·7	163	30	2·4	1·3	219	30	5·0	3·7	241	30	3·7	2·9	245	30	0·7	0·5	240
0·15 a.g.	26	6·0	3·3	162	27	5·6	2·6	184	28	7·1	5·8	251	30	6·6	5·1	236	29	7·4	6·1	246	29	7·6	4·1	235
0·3 a. m.s.l.	26	6·2	3·5	165	27	6·1	3·2	184	28	7·9	6·5	255	30	7·1	5·3	236	29	8·2	6·7	248	29	5·5	2·8	220
0·6 ,,	25	6·1	2·7	174	26	6·6	3·2	179	28	8·9	7·2	254	30	7·2	4·5	242	29	8·7	6·5	251	29	9·1	5·7	250
0·9 ,,	20	6·2	1·8	202	26	6·8	2·7	175	27	7·6	5·8	247	27	6·6	3·7	253	28	7·3	4·6	250	29	7·8	4·1	235
1·5 ,,	16	7·2	2·1	286	24	6·1	1·2	169	25	5·9	2·6	231	25	5·0	2·5	273	28	6·0	1·6	211	29	4·9	1·5	308
2·1 ,,	15	7·3	2·4	306	22	5·5	1·2	196	24	5·7	2·2	175	19	5·0	2·3	277	26	5·8	0·5	144	28	4·9	2·1	030
3·0 ,,	10	5·3	1·8	073	16	4·9	0·2	202	22	6·0	1·9	078	14	7·5	2·2	299	22	6·7	0·7	085	26	5·4	2·6	051
3·6 ,,	6	4·3	2·7	091	5	5·8	2·7	181	9	5·5	1·2	033	13	6·8	1·7	249	7	5·7	1·6	101	25	5·8	3·1	055
4·5 ,,	3	4·2	3·5	070					2	5·5	4·7	006	12	7·6	3·1	273	5	6·8	2·0	289	17	6·8	2·9	027
5·4 ,,	1	5·0	5·0	085					1	3·0	3·0	210	8	5·4	2·1	238	2	4·5	4·5	349	5	6·3	3·9	238
6·0 ,,	1	4·0	4·0	065					1	4·0	4·0	195	7	4·1	1·6	252	2	4·5	4·5	007	5	9·9	6·9	247
7·2 ,,	1	7·0	7·0	065					1	3·0	3·0	235	6	5·0	1·3	016					2	6·5	1·7	235
9·0 ,,													4	4·3	1·3	323					2	7·3	5·6	298

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	BIKANER								BOMBAY / SANTACRUZ															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·1	0·1	326	30	0·5	0·2	190	30	1·9	1·3	263	30	2·7	1·4	239	30	4·2	3·6	267	30	2·4	1·6	224
0·15 a.g. . .	28	4·6	1·0	300	30	6·4	2·7	140	30	4·6	3·3	267	29	4·4	2·9	242	30	6·4	5·4	276	29	5·1	2·8	245
0·3 a. m.s.l. .	28	4·0	0·9	280	30	4·9	2·2	130	30	5·0	2·6	261	29	5·3	4·0	251	30	6·0	4·9	274	29	5·8	3·8	215
0·6 ,, .	28	4·9	0·8	288	30	6·4	2·3	152	30	5·6	4·4	265	27	5·4	4·1	261	30	6·1	4·7	274	28	5·9	4·1	263
0·9 ,, .	28	4·4	0·9	285	28	5·7	2·5	170	30	5·9	4·8	263	22	5·5	3·9	265	30	5·4	4·5	271	25	5·6	4·2	270
1·5 ,, .	28	4·6	1·6	292	28	5·0	2·0	258	30	5·5	3·9	260	10	4·5	2·7	274	30	6·4	5·2	260	23	5·3	3·7	267
2·1 ,, .	26	5·0	2·2	287	28	5·6	2·2	298	28	5·5	3·7	260	6	4·3	2·2	257	29	5·2	4·1	248	17	4·1	2·2	288
3·0 ,, .	24	6·6	2·8	305	22	6·2	3·4	345	28	5·3	2·7	253	2	4·5	4·4	208	29	4·3	3·2	259	15	4·2	2·6	281
3·6 ,, .	20	7·1	2·8	296	10	5·7	1·9	028	28	4·9	2·5	268	2	5·5	5·5	218	29	4·4	2·8	257	14	4·3	1·3	283
4·5 ,, .	18	7·1	3·8	277	2	4·0	3·5	340	27	5·4	0·5	004	2	4·3	4·1	263	29	5·3	2·0	258	10	6·0	2·5	273
5·4 ,, .	16	6·8	4·7	277					27	5·9	1·1	005	2	3·0	3·0	289	29	6·1	0·5	255	5	4·8	0·3	233
6·0 ,, .	11	7·7	6·8	269					27	7·0	2·5	040	1	1·0	1·0	190	29	6·3	0·9	053	4	4·3	2·1	141
7·2 ,, .	5	10·9	9·2	263					26	7·0	1·5	079	1	2·0	2·0	055	29	5·6	1·5	061				
9·0 ,, .	2	10·3	8·4	279					19	8·6	4·4	094	1	6·0	6·0	055	22	9·5	5·3	085				

Station	CALCUTTA / DUM DUM																COCHIN / WILLINGDON†							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·7	0·5	105	30	2·3	0·8	123	30	1·9	1·1	174	30	1·4	0·7	150	30	1·5	0·9	296	30	2·9	2·7	295
0·15 a.g. . .	30	4·7	1·3	109	24	3·9	1·8	142	30	4·9	2·9	168	28	4·9	2·7	168	25	3·4	2·0	306	25	5·1	4·7	285
0·3 a. m.s.l.	30	5·1	1·4	121	24	4·3	2·0	146	30	5·1	3·1	165	28	5·7	3·4	169	25	4·6	3·6	299	25	5·9	5·5	284
0·6 ,, .	30	5·9	1·9	128	23	4·7	2·0	138	30	5·3	2·9	157	28	5·9	2·9	170	25	7·8	7·2	298	25	7·7	7·3	292
0·9 ,, .	30	6·1	2·0	127	19	5·7	2·5	140	30	5·4	3·1	156	27	6·0	2·7	157	25	8·8	8·7	297	25	8·3	7·9	296
1·5 ,, .	30	5·7	2·8	133	14	6·7	2·4	142	30	5·0	3·2	145	25	5·3	3·2	154	24	9·3	8·9	292	20	7·9	7·4	296
2·1 ,, .	30	5·7	2·9	120	7	6·8	4·3	079	30	5·3	3·4	133	24	4·7	3·0	144	16	9·0	8·1	29	15	6·8	5·7	294
3·0 ,, .	30	6·3	3·0	125	5	4·9	4·5	074	30	5·3	3·3	132	22	4·3	2·3	133	7	7·7	6·7	278	10	6·8	4·8	283
3·6 ,, .	30	6·7	3·6	123	3	4·0	3·7	106	30	5·0	3·3	122	10	4·4	3·7	106	6	8·3	7·5	274	10	7·9	7·0	280
4·5 ,, .	30	6·5	3·4	130	1	3·0	3·0	080	29	6·4	3·9	120	2	5·5	5·3	093	4	7·5	6·3	054	7	7·5	6·6	295
5·4 ,, .	30	6·7	3·7	130					29	6·6	4·0	127					1	7·0	7·0	275	3	8·2	7·7	293
6·0 ,, .	30	6·8	4·1	119					28	6·0	4·1	122												
7·2 ,, .	29	7·6	4·6	112					28	6·6	4·7	110												
9·0 ,, .	27	7·7	6·4	095					27	7·4	5·4	104												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	COCHIN/ WILLINGDON†				DARJEELING								DEHRADUN								DIBRUGARH/ MOHANBARI			
Time in I.S.T.	2330				0530				1730				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·5	1·1	284	30	0·2	0·2	225	30	0·5	0·2	045	30	0·5	0·2	013	30	0·8	0·3	293	30	0·4	0·2	062
0·15 a.g. . .	21	4·0	3·0	295	16	1·4	1·1	043	13	2·0	1·5	123	27	2·5	1·1	061	25	2·3	1·3	298	23	3·0	2·1	071
0·3 a. m.s.l. .	21	4·9	4·1	297																	23	3·1	2·1	064
0·6 ,, .	20	6·7	6·1	296																	23	3·0	2·2	051
0·9 ,, .	20	8·4	7·8	296									27	2·5	0·7	109	25	2·4	1·4	293	23	2·8	2·2	051
1·5 ,, .	17	8·3	7·8	296									23	2·3	0·6	153	24	2·2	1·2	283	21	2·1	1·1	054
2·1 ,, .	14	8·7	8·1	293									22	3·7	1·1	151	21	2·6	1·0	290	20	2·2	0·8	114
3·0 ,, .	7	8·9	6·9	298	16	2·9	1·0	128	12	3·8	2·2	089	17	5·1	3·4	132	21	3·8	1·0	171	17	3·5	1·9	199
3·6 ,, .	2	7·7	3·8	293	15	3·8	1·5	230	11	4·1	1·4	096	13	5·9	4·9	141	19	4·8	2·6	143	13	3·5	2·4	190
4·5 ,, .					11	3·7	2·5	255	4	3·1	2·7	129	10	5·5	4·7	155	18	6·1	3·4	149	7	3·3	2·5	256
5·4 ,, .					9	5·3	4·6	257	2	3·7	2·6	200	5	4·6	3·6	202	13	5·5	4·2	210	4	3·4	3·4	256
6·0 ,, .					5	3·9	3·9	256	2	3·0	2·0	232	4	6·1	3·7	240	12	7·0	5·9	230	3	3·0	1·4	195
7·2 ,, .					2	5·7	5·5	255	1	1·5	1·5	350	2	5·3	4·3	250	4	11·6	11·1	200	3	3·2	2·1	204
9·0 ,, .					1	5·5	5·5	195	1	8·5	8·5	340									2	3·5	3·3	092

Station	DIBRUGARH/MOHANBARI												GADAG											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·7	0·4	015	30	0·5	0·1	044	30	0·4	0·4	037	30	3·0	2·5	253	30	4·2	3·6	254	30	4·4	4·1	250
0·15 a.g. . .	26	2·3	1·2	050	30	2·1	1·4	052	30	3·2	2·1	046	28	7·3	6·4	260	26	8·7	7·2	255	25	9·9	9·6	254
0·3 a. m.s.l. .	26	2·2	1·2	050	30	2·2	1·5	052	30	3·1	2·1	050												
0·6 ,, .	26	2·7	1·7	059	30	2·5	1·8	060	30	3·0	2·1	051												
0·9 ,, .	25	3·0	1·4	061	30	2·5	1·4	065	30	2·5	1·5	052	28	8·7	7·2	275	26	9·5	8·0	261	25	11·3	9·9	258
1·5 ,, .	24	2·8	1·1	137	29	2·6	0·6	139	30	2·1	0·4	160	18	9·5	7·5	283	24	8·9	8·2	274	20	11·1	9·9	285
2·1 ,, .	20	3·0	1·7	181	29	2·8	1·8	202	30	2·7	1·9	205	14	6·9	5·0	284	16	7·4	6·8	293	14	6·9	4·6	313
3·0 ,, .	15	3·0	1·9	198	29	4·4	3·5	211	26	4·1	3·4	209	9	4·2	3·8	283	10	7·9	7·4	300	7	6·5	2·5	319
3·6 ,, .	13	3·7	3·0	216	27	4·4	3·7	228	13	4·2	3·7	218	8	5·7	4·9	294	4	7·0	6·5	316	6	6·6	5·3	291
4·5 ,, .	7	4·1	3·2	220	18	4·3	3·7	235	2	9·5	8·9	202	6	6·3	4·9	315	2	8·0	6·0	289	2	8·3	2·3	243
5·4 ,, .	2	2·0	2·0	216	12	3·3	2·4	245					5	5·5	4·7	006	2	3·0	1·7	011				
6·0 ,, .	2	3·7	3·7	198	11	4·9	4·3	245					4	8·3	7·4	019	2	2·7	2·1	022				
7·2 ,, .					4	3·0	2·1	247					2	5·0	5·0	057	2	4·0	3·7	105				
9·0 ,, .													1	5·5	5·5	070	2	8·3	7·5	084				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·4	0·3	079	30	2·2	1·3	014	30	1·1	0·5	098	30	1·6	0·8	173	30	1·8	1·3	101	30	2·9	1·1	093
0·15 a.g. . .	30	2·4	1·3	101	30	3·6	2·6	028	29	3·2	0·7	072	30	2·7	0·8	168	27	4·4	2.1	122	26	5·0	1·9	086
0· 3 a. m.s.l. .	30	2·6	1·3	105	30	4·1	2·7	044	29	3·4	0·7	070	30	3·0	0·5	125	27	4·7	2·2	138	26	5·2	2·0	086
0·6 ,, .	30	3·8	1·4	099	30	4·1	2·8	068	29	3·2	0·9	083	30	3·4	0·5	130	27	5·2	2·5	153	26	5·9	2·5	108
0·9 ,, .	30	4·1	1·4	112	30	4·3	2·7	093	29	3·7	0·7	099	30	3·9	0·6	098	27	5·3	2·3	158	26	6·3	2·7	130
1·5 ,, .	30	4·7	1·1	107	28	4·4	2·3	130	29	3·5	0·9	193	30	4·1	1·0	187	25	5·4	2·4	121	24	7·0	3·8	144
2·1 ,, .	30	4·1	0·4	142	28	4·4	2·4	147	29	3·6	1·8	193	26	4·0	2·0	176	22	5·1	3·0	119	19	6·2	3·4	219
3·0 ,, .	30	4·1	1·1	201	22	4·3	1·5	167	29	3·9	1·8	182	22	3·7	1·9	184	16	5·2	4·6	128	13	6·0	2·3	167
3·6 ,, .	30	4·6	1·8	198	16	4·5	1·8	228	29	3·8	1·5	217	13	3·6	2·1	212	12	3·3	2·7	138	8	5·9	2·0	236
4·5 ,, .	29	4·9	2·5	192	12	3·8	1·3	230	29	4·0	1·4	215	5	3·9	3·5	210	10	5·3	4·5	125	5	3·0	2·5	118
5·4 ,, .	28	4·5	2·8	206	10	2·7	1·5	209	29	3·6	1·8	200	3	5·5	4·8	225	7	2·9	1·9	133	2	2·0	1·8	223
6·0 ,, .	28	4·2	1·9	209	10	3·0	0·9	215	29	4·0	2·0	210	1	6·5	6·5	265	4	2·0	1·3	176	2	1·7	1·0	203
7·2 ,, .	27	3·5	0·2	140	6	3·6	1·8	150	29	3·5	0·8	208					1	3·0	3·0	210				
9·0 ,, .	19	3·6	1·8	070	2	5·0	4·2	145	21	3·5	0·2	289												

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·3	1·4	097	30	1·4	0·7	267	30	3·5	2·1	181	30	2·3	1·4	218	30	1·3	1·0	071	30	1·2	0·5	104
0·15 a.g. . .	27	5·4	2·5	121	25	5·1	2·9	249	26	7·0	4·8	182	27	5·5	3·8	216	26	6·6	4·4	081	29	4·8	2·4	104
0·3 a. m.s.l. .	27	5·5	2·7	123	25	5·3	3·0	239	26	6·6	4·2	188	27	4·4	3·9	216	26	7·6	5·1	098	29	5·1	2·7	105
0·6 ,, .	27	6·6	3·2	142	25	5·1	2·6	249	25	5·5	3·0	196	28	5·3	3·4	213	26	7·7	5·4	108	28	5·7	2·6	100
0·9 ,, .	27	7·1	3·3	147	24	5·4	2·8	264	24	4·9	1·3	197	27	4·9	1·9	224	26	7·3	5·1	107	28	6·4	2·5	104
1·5 ,, .	26	7·0	3·3	150	24	4·1	3·2	290	23	5·3	1·3	278	25	5·8	2·0	267	26	7·6	5·3	109	27	7·1	3·5	114
2·1 ,, .	20	5·2	2·6	175	24	5·3	2·2	294	23	6·0	1·5	265	22	6·1	2·0	302	24	6·6	4·1	118	25	6·7	3·9	116
3·0 ,, .	13	3·5	1·2	240	23	4·1	1·1	233	19	5·6	4·7	243	20	5·1	0·8	340	22	5·7	4·4	127	22	5·2	3·0	122
3·6 ,, .	4	1·7	0·8	158	20	4·7	0·5	220	15	5·3	1·2	137	6	4·6	1·3	244	18	4·7	3·7	137	19	4·5	2·6	127
4·5 ,, .	1	4·5	4·5	125	13	5·5	1·1	141	11	3·9	1·6	101	2	3·5	2·1	318	10	4·9	3·4	170	16	4·9	3·3	154
5·4 ,, .					11	6·1	0·9	049	8	4·0	2·2	085	2	4·7	1·0	340	6	5·2	3·6	183	10	5·0	3·7	196
6·0 ,, .					10	6·3	1·6	051	8	5·1	2·6	090	2	4·0	1·5	058	4	4·5	3·9	229	9	5·6	3·9	207
7·2 ,, .					5	6·8	6·5	090	4	5·6	4·4	075	1	7·0	7·0	280	3	8·2	8·1	235	6	6·3	4·8	220
9·0 ,, .					1	9·5	9·5	070	1	2·0	2·0	145					2	10·3	10·3	230	4	7·6	7·1	234

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Aswina 8, 1884 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·2	0·2	087	30	2·0	0·4	029	30	1·5	0·3	016	30	0·8	0·3	150	30	0·7	0·6	049	30	1·4	0·8	162
0·15 a.g. .	28	4·5	0·9	359	28	4·4	1·7	038	30	4·8	1·8	030	30	4·5	0·4	130	30	2·3	1·8	057	29	2·5	0·5	172
0·3 a.m.s.l. .	28	3·7	0·9	329	28	3·9	1·5	031	30	4·0	1·6	020	30	3·6	0·3	187								
0·6 ,, .	27	6·1	1·9	010	28	4·6	1·4	038	30	5·9	2·3	033	30	5·8	1·5	087								
0·9 ,, .	25	6·8	2·3	009	27	5·6	1·8	038	30	6·9	2·3	026	28	6·3	1·4	062	30	2·3	1·9	050	29	2·4	0·4	176
1·5 ,, .	23	6·7	2·7	005	20	5·5	2·0	017	29	6·6	2·2	036	26	6·3	2·4	031	30	2·9	1·8	081	28	3·0	2·2	133
2·1 ,, .	20	5·9	3·5	004	14	4·6	1·5	001	27	6·0	2·2	345	26	6·0	2·4	029	25	4·7	3·6	130	25	3·7	2·7	140
3·0 ,, .	19	5·9	2·7	010	10	4·4	1·7	248	22	5·6	1·3	017	23	5·9	2·3	023	18	5·0	3·7	149	16	3·9	2·5	158
3·6 ,, .	16	5·7	1·3	030	9	5·5	2·9	214	20	5·7	0·9	269	10	4·8	2·4	028	7	3·9	2·8	159	9	3·4	2·7	168
4·5 ,, .	14	6·1	2·2	156	6	7·6	5·5	199	19	5·6	0·7	241					2	4·0	3·3	203	4	3·3	1·6	221
5·4 ,, .	13	7·5	4·1	207	3	11·0	8·3	219	15	6·7	1·9	221									3	2·3	1·7	137
6·0 ,, .	12	8·4	4·4	224	4	9·3	6·1	236	15	6·9	3·1	227									2	2·3	1·9	135
7·2 ,, .	10	7·6	3·2	244	3	10·8	9·2	233	10	8·5	5·8	226									2	4·5	3·2	152
9·0 ,, .	10	7·7	3·9	232	2	16·3	16·2	238	7	8·9	5·9	256												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·1	1·0	154	30	1·0	0·5	035	30	1·0	0·3	215	30	1·5	0·2	330	30	0·7	0·2	131	30	0·5	0·2	199
0·15 a.g. .	30	3·2	1·8	151	29	2·5	0·7	032	26	5·3	0·9	179	30	5·2	1·4	352	28	4·9	0·4	360	28	3·9	1·7	219
0·3 a.m.s.l. .																								
0·6 ,, .									26	6·0	0·3	183	30	5·4	1·4	349	28	5·0	0·5	326	28	1·9	1·0	215
0·9 ,, .	30	3·1	1·7	160	29	2·4	0·8	020	25	8·0	0·3	030	30	6·3	1·7	343	28	6·0	0·8	340	26	5·8	2·4	273
1·5 ,, .	30	3·4	2·6	136	29	3·5	1·7	134	20	8·5	1·5	298	30	7·0	1·5	315	26	6·7	1·0	317	22	7·1	3·3	283
2·1 ,, .	28	3·3	2·3	132	25	4·0	2·2	139	19	7·8	0·9	328	29	7·0	1·2	332	26	6·7	0·7	182	15	5·9	2·7	288
3·0 ,, .	23	3·6	2·1	142	16	4·4	3·6	164	14	4·7	1·7	106	18	5·4	0·8	266	21	6·0	0·9	117	14	5·5	1·9	273
3·6 ,, .	19	4·0	2·3	137	12	4·3	3·3	152	11	5·8	0·2	131	14	4·4	1·5	180	13	5·2	2·1	190	12	4·5	1·9	254
4·5 ,, .	11	4·5	3·5	120	7	2·2	1·6	156	5	6·4	5·4	136	8	4·4	1·5	167	4	5·4	3·5	089	9	6·1	2·6	210
5·4 ,, .	7	2·2	0·5	096	4	2·4	0·7	154	4	6·5	5·3	158	4	5·1	2·3	180					7	5·2	0·8	178
6·0 ,, .	4	2·6	1·9	115	2	2·5	1·3	280	4	5·9	4·0	170	4	5·0	2·1	180					7	5·0	1·2	027
7·2 ,, .	4	2·5	0·5	293	1	5·5	5·5	270	3	5·3	3·5	174									4	3·7	2·9	077
9·0 ,, .	1	1·0	1·0	255					2	4·3	2·3	197									1	3·5	3·5	355

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·3	236	30	0·8	0·4	196	30	1·3	0·7	045	30	2·4	0·4	042	30	1·4	0·8	058	30	1·8	0·6	04
0·15 a.g.	29	4·2	1·1	248	29	4·7	1·8	255	29	6·7	2·5	344	28	5·1	1·1	357	30	5·7	1·5	010	26	3·8	0·8	06
0·3 a.m.s.l.																					26	3·9	0·6	07
0·6 ,,	29	2·6	0·8	239	29	3·1	1·2	237	29	7·2	2·5	347	28	5·3	1·4	342	30	6·5	1·5	010	26	5·5	0·3	09
0·9 ,,	29	5·0	1·5	265	29	5·7	2·0	269	28	7·3	2·4	341	28	5·5	1·9	345	29	6·3	1·3	010	25	6·0	0·5	11
1·5 ,,	28	5·6	1·4	289	27	6·7	2·6	274	27	6·1	2·0	345	26	5·9	2·8	339	29	5·7	1·1	344	22	5·2	1·1	16
2·1 ,,	18	6·2	3·2	268	23	6·0	2·0	255	24	5·9	2·9	336	25	5·6	3·0	360	27	5·3	2·0	341	18	4·9	1·3	15
3·0 ,,	13	6·7	4·2	265	18	5·2	0·4	282	17	5·3	1·6	331	20	5·8	2·4	328	27	5·5	2·7	351	15	3·9	2·7	11
3·6 ,,	12	6·6	4·9	258	15	4·9	1·8	255	14	5·5	1·1	215	19	6·1	2·5	276	24	6·1	1·9	179	14	3·7	2·9	11
4·5 ,,	9	5·9	4·6	247	3	4·7	2·4	255	4	4·5	2·6	088	13	6·3	4·4	242	9	4·4	0·3	173	12	4·9	3·5	10
5·4 ,,	5	4·7	3·1	199					1	3·0	3·0	140	11	7·0	4·5	239	2	4·8	4·3	210	8	5·1	4·3	11
6·0 ,,	3	4·1	1·6	179									10	8·5	6·2	239	2	3·5	1·5	094	3	4·7	2·2	11
7·2 ,,													4	14·9	10·6	233	1	0·5	0·5	145	3	3·7	3·0	083
9·0 ,,													2	10·7	8·9	284					1	4·0	4·0	150

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·2	1·0	097	30	1·6	0·5	080	30	2·3	0·7	196	30	1·7	0·3	097	27	1·7	1·0	264	30	2·7	1·2	242
0·15 a.g.	27	4·7	2·8	115	27	4·6	1·3	100	30	4·2	1·3	167	28	5·7	2·2	142	27	6·6	3·5	277	30	3·9	1·8	266
0·3 a.m.s.l.	27	4·8	2·8	115	27	3·9	0·9	098	30	4·2	1·1	174	28	4·6	1·7	143	27	3·9	1·8	276	30	3·8	1·8	273
0·6 ,,	27	4·9	2·9	119	27	6·1	0·7	168	30	4·9	1·3	185	28	6·5	1·9	163	27	6·8	3·9	265	30	4·2	2·1	253
0·9 ,,	25	5·6	2·6	130	26	6·3	0·5	234	29	5·8	1·7	188	26	6·8	2·1	172	27	6·5	3·6	252	30	4·7	2·1	251
1·5 ,,	22	5·4	1·8	121	24	6·0	1·1	252	24	6·5	0·8	215	24	6·1	0·9	182	27	5·4	1·0	235	25	4·7	0·5	172
2·1 ,,	17	5·4	1·9	112	19	5·1	0·4	262	21	6·5	1·5	248	20	5·2	0·9	228	27	5·2	1·3	068	20	5·3	1·6	084
3·0 ,,	13	4·8	1·4	097	12	5·8	0·7	166	15	6·6	2·0	178	16	4·9	2·5	181	27	6·3	2·3	052	16	5·1	1·7	099
3·6 ,,	10	4·3	2·7	093	6	6·5	2·2	149	6	8·0	4·8	121	5	3·8	3·5	117	27	5·9	1·2	014	16	5·3	0·5	120
4·5 ,,	8	4·3	3·1	066	3	7·7	6·9	122	1	5·0	5·0	205					26	6·0	0·9	289	16	5·6	2·0	247
5·4 ,,	3	4·2	4·2	059	1	6·0	6·0	145	1	5·0	5·0	175					26	6·3	3·6	222	15	5·4	3·8	261
6·0 ,,	3	4·3	4·3	059	1	5·5	5·5	160	1	3·0	3·0	175					25	7·6	4·2	225	13	6·4	4·6	247
7·2 ,,	1	6·0	6·0	075	1	4·5	4·5	150									25	8·8	4·0	207	10	8·1	6·3	251
9·0 ,,																	17	11·2	4·2	236	5	7·4	7·2	251

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	3·0	0·5	360	30	1·5	0·3	218	29	1·8	0·9	062	30	2·1	1·7	045	30	1·4	0·7	061	30	1·3	1·1	265
0·15 a.g. .	29	5·3	1·7	349	30	7·4	2·6	213	29	6·0	3·7	079	25	5·1	1·6	056	27	7·0	3·0	072	30	6·5	5·1	253
0·3 a.m.s.l. .	29	3·5	0·6	331	30	5·9	2·1	210	29	6·4	3·7	091	25	5·4	1·7	058	27	7·1	3·8	062	30	7·0	5·7	255
0·6 ,, .	29	4·4	0·9	332	30	8·4	2·8	205	29	8·0	3·7	102	25	6·3	2·0	071	27	8·5	3·6	059	30	8·1	6·	266
0·9 ,, .	28	3·8	0·6	284	28	8·6	2·4	212	27	7·8	3·3	100	25	6·8	1·8	087	27	7·8	2·7	115	30	8·5	7·1	278
1·5 ,, .	28	4·5	0·6	291	28	6·6	1·2	265	26	7·2	3·5	091	24	7·3	1·5	067	26	7·6	2·4	127	30	8·3	7·1	289
2·1 ,, .	27	4·3	0·9	236	28	5·9	1·5	018	23	6·5	3·1	095	20	6·7	0·3	093	21	6·5	2·9	134	30	7·3	5·9	287
3·0 ,, .	27	5·9	0·8	301	19	6·6	1·4	357	17	6·7	4·4	105	17	5·6	0·6	127	9	5·4	2·4	138	30	7·4	6·0	279
3·6 ,, .	27	6·7	1·4	300	9	6·5	3·3	030	9	6·6	3·9	112	15	5·7	0·8	162	6	4·9	2·5	269	30	7·1	5·2	282
4·5 ,, .	26	7·1	1·8	266	5	5·9	3·2	050	3	4·2	2·2	227	13	6·1	2·8	178	1	12·0	12·0	320	30	6·3	3·5	275
5·4 ,, .	24	6·9	2·8	234	5	5·2	1·9	198					9	8·9	5·8	235					30	5·5	1·8	272
6·0 , .	24	7·0	3·1	241	5	4·2	3·5	224					8	9·7	7·9	215					29	4·9	0·8	320
7·2 ,, .	23	7·5	4·6	231	4	3·8	3·0	263					5	9·0	9·0	230					29	5·7	0·8	013
9·0 ,, .	13	5·4	1·9	235	2	4·7	4·7	273					4	11·3	11·0	230					27	8·2	6·4	085

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·5	2·9	277	30	3·2	1·2	174	30	3·6	2·6	206	30	1·4	0·3	063	30	3·6	2·7	281	30	1·8	0·6	270
0·15 a.g. .	30	5·3	4·7	273	30	5·4	1·7	194	30	7·7	5·9	212	23	4·5	1·8	298	29	5·8	4·6	278	28	5·5	3·2	290
0·3 a.m.s.l. .	30	5·5	4·8	270	30	5·5	2·1	228	30	8·7	5·3	217	23	4·9	2·6	297	29	6·2	4·9	278	28	6·1	4·0	293
0·6 , .	30	6·1	5·3	275	30	5·7	3·6	253	30	8·5	5·1	240	23	7·3	5·8	295	29	7·3	6·3	287	28	7·1	5·5	298
0·9 ,, .	30	6·9	5·6	284	30	6·2	4·8	270	29	8·0	5·1	262	23	8·2	7·0	294	24	7·2	6·3	292	27	7·2	6·0	297
1·5 ,, .	27	8·0	6·5	287	29	7·7	6·6	284	28	8·0	6·5	283	18	7·1	5·5	292	18	7·2	6·0	297	23	7·9	6·6	299
2·1 ,, .	24	7·7	6·0	287	29	8·8	8·0	284	24	8·3	7·1	287	14	6·5	3·9	295	11	5·5	3·5	289	19	6·7	5·1	300
3·0 ,, .	20	6·9	5·7	276	30	8·1	6·8	287	19	7·6	6·3	298	8	4·4	2·5	286	9	5·5	4·5	290	10	6·6	3·7	318
3·6 ,, .	17	7·0	4·9	287	29	6·6	4·8	285	10	5·1	3·6	214	7	5·8	3·6	284	8	6·9	5·0	298	7	5·9	3·5	339
4·5 ,, .	15	6·2	3·5	274	29	5·7	3·5	282	8	4·7	2·7	333	5	6·3	3·2	335	7	5·8	2·0	309	3	4·7	2·6	325
5·4 ,, .	11	4·4	2·3	275	29	5·9	2·6	294	3	3·5	2·2	073	5	5·7	2·2	333	6	5·5	1·6	019	2	5·3	2·0	295
6·0 ,, .	10	4·2	1·6	266	29	5·0	1·4	289	2	2·5	1·2	321	4	5·6	3·3	297	5	5·0	1·9	005	2	4·3	1·3	311
7·2 ,, .	8	5·9	1·6	148	28	5·5	1·0	101					2	3·5	2·3	289	5	6·3	2·9	054				
9·0 ,, .	5	4·8	2·8	093	26	6·9	4·8	095					2	7·3	7·0	094	5	6·7	6·2	011				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	MINICOY												NAGPUR/SONEGAON											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·5	3·2	285	30	4·6	4·2	287	30	4·2	3·8	290	30	2·1	0·8	299	30	3·4	1·7	301	30	2·3	1·3	291
0·15 a.g. .	29	6·9	6·4	288	29	8·4	7·7	290	28	6·4	6·0	290	30	6·7	3·5	304	30	4·8	2·2	293	30	4·5	2·7	304
0·3 a.m.s.l. .	29	7·5	7·0	285	29	8·6	7·8	292	28	7·1	6·5	290												
0·6 ,, .	29	8·7	8·1	288	29	10·7	10·1	294	28	8·9	8·4	295	30	7·3	3·8	313	30	4·4	1·7	304	30	4·7	2·7	302
0·9 ,, .	29	10·0	9·3	292	29	11·9	11·2	297	28	9·8	9·3	295	30	7·6	3·8	322	29	4·7	1·8	322	30	5·4	2·9	306
1·5 ,, .	26	9·3	8·9	290	29	10·5	10·1	297	26	8·7	8·4	295	29	5·5	1·9	314	14	5·4	1·8	012	30	6·5	3·4	311
2·1 ,, .	23	9·2	8·9	290	22	9·3	8·9	290	23	7·4	7·1	290	29	5·5	2·0	315	9	4·9	2·1	348	30	6·5	2·7	313
3·0 ,, .	14	7·7	7·6	280	15	7·2	6·6	288	17	5·6	5·0	290	29	4·9	1·3	334	7	4·9	1·8	085	30	5·9	2·3	302
3·6 ,, .	10	8·1	7·4	265	11	6·3	5·6	285	7	4·1	2·7	301	29	4·9	0·9	037	3	4·0	1·4	146	30	5·7	1·8	293
4·5 ,, .	3	4·5	4·0	295	9	7·0	6·3	288	6	3·4	1·9	341	29	2·8	0·8	156	3	4·3	3·9	177	30	6·1	1·2	218
5·4 ,, .	3	4·5	3·1	317	5	2·5	0·5	340	3	2·3	1·0	005	29	6·6	1·9	166	2	6·3	5·9	176	28	6·4	1·1	180
6·0 ,, .	2	4·5	4·5	265	5	2·7	0·8	010	3	2·7	0·9	049	29	6·5	2·4	120	1	3·5	3·5	130	28	6·0	1·8	135
7·2 ,, .	2	3·3	2·4	349	1	6·5	6·5	060					28	6·6	3·3	104	1	5·0	5·0	130	28	5·7	1·5	096
9·0 ,, .													28	6·0	4·3	104	1	6·0	6·0	130	28	7·1	5·5	096

Station	NAGPUR/ SONEGAON				NEW DELHI/SAFDARJUNG																POONA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·3	0·4	294	30	2·3	0·2	141	30	3·5	0·7	052	30	2·1	0·5	039	30	1·7	0·3	103	30	0·6	0·6	245
0·15 a.g. .	27	5·9	1·9	309	29	6·1	0·6	156	28	4·7	0·8	039	29	5·3	1·1	340	29	6·2	0·3	049	30	4·8	4·5	255
0·3 a.m.s.l. .					29	4·8	0·6	254	28	4·4	1·0	047	29	4·2	1·1	344	29	4·8	0·2	334				
0·6 ,, .	27	6·5	2·4	325	29	5·9	0·8	158	28	4·9	0·7	341	29	5·6	1·3	025	29	7·1	0·8	036	30	2·4	2·3	249
0·9 ,, .	27	6·9	2·5	325	29	6·2	1·3	178	28	5·3	1·0	327	29	5·7	1·3	034	26	6·3	1·1	352	29	6·4	5·6	265
1·5 ,, .	27	6·6	2·4	298	29	6·1	0·3	271	22	6·5	1·5	325	29	5·6	0·4	332	26	6·5	2·1	322	23	7·5	5·4	280
2·1 ,, .	22	6·0	2·8	290	29	6·4	0·4	282	16	6·7	4·4	323	29	5·9	0·5	298	24	5·9	2·4	323	18	4·7	2·7	278
3·0 ,, .	16	4·4	1·4	315	29	5·4	1·0	178	15	6·8	2·7	304	29	5·4	0·9	216	22	5·5	1·4	318	15	3·3	0·5	256
3·6 ,, .	8	4·3	0·5	184	29	5·4	1·4	173	14	7·4	2·3	278	29	5·2	1·3	204	3	2·5	2·3	070	13	3·5	1·6	267
4·5 ,, .	1	3·0	3·0	315	29	5·9	4·0	173	12	9·1	5·4	203	29	5·2	1·9	196					7	4·5	2·6	316
5·4 ,, .					29	5·4	4·1	202	11	9·1	7·8	189	29	5·3	3·5	218					5	5·5	1·4	324
6·0 ,, .					29	6·7	5·2	219	10	9·4	7·5	203	29	5·7	4·2	225					3	5·5	2·5	048
7·2 ,, .					29	8·9	6·3	228	6	14·3	10·6	218	29	9·6	7·4	238					2	2·3	1·5	121
9·0 ,, .					28	11·2	9·1	238	3	21·0	19·5	250	28	11·1	9·0	243					2	5·0	3·5	120

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	POONA								PORT BLAIR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·7	1·5	263	30	0·6	0·6	250	29	2·9	2·7	227	30	6·1	5·7	235	30	4·2	4·0	235	30	3·7	3·1	236
0·15 a. g.	28	6·6	6·1	267	28	5·5	5·2	260	29	7·1	6·3	244	24	7·9	7·5	238	29	7·6	7·0	245	29	7·8	7·3	239
0·3 a. m. s. l.									29	7·5	6·6	247	24	8·7	8·3	241	29	7·7	7·3	247	29	8·6	8·0	238
0·6 ,,	28	3·9	3·6	273	28	2·6	2·5	253	29	9·2	8·2	250	24	10·1	9·7	247	29	10·2	9·4	248	28	9·7	9·2	243
0·9 ,,	27	7·6	7·1	266	28	6·8	6·2	267	29	9·6	8·5	253	19	9·8	9·3	250	29	10·7	9·5	251	26	9·0	8·5	247
1·5 ,,	23	7·2	6·7	269	24	8·4	6·6	276	27	9·2	8·2	256	8	9·4	9·1	244	26	10·0	9·6	249	18	6·9	6·4	252
2·1 ,,	19	6·1	5·1	269	22	6·0	4·3	282	23	8·2	7·1	260	6	10·5	9·9	234	22	8·1	8·0	247	11	4·9	3·9	257
3·0 ,,	13	4·8	3·4	266	20	3·9	1·8	278	22	7·9	7·2	263	2	3·7	3·5	180	20	9·3	8·3	252	8	5·1	2·9	282
3·6 ,,	9	4·2	4·0	268	14	4·2	3·0	268	17	8·5	7·5	274					15	6·9	6·3	244	1	5·0	5·0	155
4·5 ,,	5	6·3	4·9	270	7	4·6	3·5	275	15	5·9	4·3	284					13	6·1	5·9	240				
5·4 ,,	4	6·3	5·2	282	5	4·6	0·9	354	12	4·5	0·5	306					9	4·4	3·4	217				
6·0 ,,	2	5·7	5·7	254	2	4·0	2·0	356	11	4·7	1·1	300					8	4·5	2·1	230				
7·2 ,,	2	3·7	2·5	337	1	3·0	3·0	290	9	3·7	0·9	049					7	4·1	1·6	274				
9·0 ,,	1	8·0	8·0	065	1	2·0	2·0	305	6	6·6	5·2	107					5	6·6	4·4	095				

Station	RAIPUR												RAXAUL								SILIGURI/BAGHDOGRA			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	0·5	192	30	2·1	0·4	171	30	2·1	0·8	220	30	1·0	0·6	078	30	1·0	0·6	098	30	1·3	0·9	048
0·15 a.g.	29	6·0	1·5	222	27	5·2	0·8	207	26	7·3	2·7	240	27	6·4	1·1	083	29	5·6	3·0	114	26	3·2	3·2	061
0·3 a. m. s. l.													27	6·8	5·5	083	29	5·7	3·2	115	26	3·2	3·1	075
0·6 ,,	29	7·0	1·9	273	27	6·0	0·6	193	26	7·7	2·6	248	27	7·9	6·7	113	29	5·5	3·6	117	26	3·9	3·7	090
0·9 ,,	28	7·1	2·0	272	27	6·4	0·1	232	26	7·6	2·2	244	25	7·7	6·5	113	28	6·0	3·9	113	23	4·9	4·2	096
1·5 ,,	25	6·6	2·0	283	26	7·1	1·0	280	25	7·4	1·0	255	23	7·3	6·0	111	28	7·1	5·4	116	19	5·5	4·8	087
2·1 ,,	22	6·3	1·8	269	24	7·3	0·9	301	23	6·4	1·1	239	20	6·6	5·1	109	25	6·1	4·4	120	15	3·5	2·5	095
3·0 ,,	16	4·3	2·1	257	16	6·2	0·9	262	19	6·3	2·0	214	13	3·9	3·0	114	23	6·0	3·8	115	15	3·2	1·4	138
3·6 ,,	13	4·5	1·6	214	11	4·5	0·1	021	6	3·6	1·5	272	11	3·0	2·2	141	22	5·5	3·1	120	15	3·3	1·5	208
4·5 ,,	5	5·6	4·6	155	6	7·3	1·3	119	3	4·2	2·1	324	9	2·8	1·6	179	15	3·2	1·4	160	14	3·0	2·2	226
5·4 ,,	4	6·0	4·6	147	5	7·2	2·0	094	2	2·7	2·5	061	9	3·5	2·0	219	11	4·1	2·8	240	11	3·0	2·6	234
6·0 ,,	2	6·0	4·9	121	4	7·5	1·0	109	1	5·0	5·0	045	8	3·6	2·1	215	6	5·8	5·2	260	10	3·1	2·2	254
7·2 ,,					2	7·7	7·1	085					5	4·8	4·2	236	4	5·0	4·5	262	5	4·1	0·8	197
9·0 ,,																	2	9·7	9·7	234	1	2·0	2·0	300

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	SILIGURI/BAGHDOGRA								SRINAGAR								TIRUCHIRAPPALLI							
Time in I.S.T.	1730				2330				0530*				1730*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	0·5	088	30	1·8	1·3	054	29	0·6	0·3	159	30	0·9	0·2	100	30	3·3	3·2	275	30	5·5	4·0	259
0·15 a. g.	29	3·0	0·6	097	29	3·1	2·3	078									30	7·5	7·2	274	30	8·8	5·6	252
0·3 a. m. s. l.	29	3·0	0·6	087	29	3·1	2·3	086									30	8·8	8·5	274	30	8·4	5·9	255
0·6 ,,	29	3·1	1·0	100	29	3·7	2·5	098									30	11·2	11·0	275	30	8·1	7·2	263
0·9 ,,	28	3·6	1·6	115	28	4·1	2·9	105									30	10·5	10·1	280	30	7·9	7·3	268
1·5 ,,	26	4·2	2·5	116	26	4·2	3·2	098									30	8·3	7·2	281	29	8·3	7·4	272
2·1 ,,	24	4·0	2·0	113	20	4·5	2·7	117	29	2·1	0·8	330	30	2·4	0·2	335	30	8·1	6·6	288	25	9·1	7·7	274
3·0 ,,	21	4·2	0·8	157	15	4·0	0·8	186	28	2·3	0·3	325	30	2·4	0·1	042	28	7·4	5·9	286	17	8·6	7·3	281
3·6 ,,	18	4·8	1·3	234	7	3·2	1·9	230	28	3·0	2·1	160	30	3·0	0·6	179	24	6·2	4·7	286	11	8·5	7·1	285
4·5 ,,	13	5·0	3·6	265	3	3·0	2·1	201	28	4·6	3·5	177	30	4·7	3·7	185	17	4·8	2·6	292	7	9·0	6·0	283
5·4 ,,	10	4·1	3·4	267					28	8·2	7·1	185	30	6·7	4·7	197	16	3·7	0·7	239	5	5·4	0·2	356
6·0 ,,	9	3·9	3·1	255					28	9·7	8·2	205	30	8·2	5·5	227	13	4·2	1·2	124	5	4·9	0·5	042
7·2 ,,	2	4·5	4·2	257					29	14·7	11·7	228	30	12·6	10·7	236	10	7·0	5·5	090	4	6·6	1·5	124
9·0 ,,	1	5·5	5·5	250					29	20·6	18·3	245	29	18·5	16·6	243	5	7·0	6·9	094	2	11·3	10·1	104

Station	TIRUCHIRAPPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·9	3·2	261	30	1·1	1·0	331	30	2·9	2·5	303	30	3·2	2·9	302	30	2·7	2·5	318	30	0·5	0·4	278
0·15 a. g.	29	7·9	6·6	260	30	7·0	6·5	322	28	6·5	5·7	301	30	8·3	8·0	302	28	7·1	6·6	316	29	3·4	1·8	284
0·3 a. m. s. l.	29	8·1	6·9	259	30	7·1	6·6	320	28	6·5	6·0	307	30	8·3	8·0	300	28	8·3	7·6	310				
0·6 ,,	29	10·2	9·6	267	30	9·2	8·6	305	25	6·9	6·4	307	30	9·7	9·1	301	27	10·3	9·7	313				
0·9 ,,	29	10·5	8·5	272	30	9·6	9·1	299	17	8·2	7·8	314	30	10·0	9·5	300	26	11·0	10·6	312	29	4·7	2·4	288
1·5 ,,	27	9·9	8·9	278	30	10·2	9·9	293	9	7·7	7·2	314	30	10·2	9·9	299	23	11·4	11·0	304	26	4·9	1·3	339
2·1 ,,	26	9·7	8·5	281	30	10·3	9·5	288	6	8·2	7·2	313	30	9·7	9·5	290	16	9·8	9·5	298	22	4·0	0·8	012
3·0 ,,	21	7·4	6·5	286	30	9·4	8·4	284	5	6·8	5·5	311	30	10·5	9·7	284	12	7·1	5·7	289	29	4·9	0·2	135
3·6 ,,	14	7·6	6·5	282	30	9·5	8·6	280	2	6·7	6·3	311	30	10·5	9·4	280	6	5·1	3·8	316	17	5·8	1·1	264
4·5 ,,	8	5·4	4·6	292	30	8·2	7·3	283	1	5·5	5·5	005	30	8·1	7·1	287	5	3·9	3·9	341	16	5·0	1·9	330
5·4 ,,	4	4·3	1·1	346	30	5·2	4·1	288	1	2·0	2·0	195	30	6·2	5·2	291	3	4·0	3·8	346	12	5·3	3·1	262
6·0 ,,	2	3·0	3·0	290	30	4·8	3·0	297	1	5·0	5·0	065	30	4·5	2·7	298	2	4·3	2·8	332	11	5·0	2·9	253
7·2 ,,					29	4·1	1·0	012					30	4·4	0·9	040					3	3·5	2·7	014
9·0 ,,					27	7·7	6·8	100					29	6·5	4·6	094					1	6·0	6·0	035

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	UDAIPUR								VENGULRA												VERAVAL			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·3	0·7	264	30	0·6	0·1	245	30	0·8	0·3	324	30	2·5	1·8	265	30	0·5	0·3	286	30	3·5	2·7	269
0·15 a. g.	28	3·9	2·0	275	29	3·6	1·8	286	28	4·6	2·6	311	28	5·5	4·7	273	29	5·0	3·0	295	28	5·6	4·5	274
0·3 a. m. s. l.									28	5·9	4·2	296	28	6·6	5·7	283	29	6·3	4·5	294	28	6·5	5·1	270
0·6 ,,									28	7·3	6·1	292	28	7·3	6·1	285	29	7·6	5·9	287	28	7·1	5·8	266
0·9 ,,	28	4·0	2·1	289	29	4·5	2·3	292	20	7·8	6·5	293	25	8·3	7·0	286	26	7·9	6·3	293	27	7·1	5·7	263
1·5 ,,	28	4·7	2·1	319	29	5·2	2·2	333	13	6·9	6·0	293	16	7·1	5·9	290	16	6·5	5·9	276	24	6·4	3·7	255
2·1 ,,	24	5·4	2·6	318	27	4·6	1·5	025	6	4·9	1·2	141	12	4·5	3·2	276	11	5·0	3·6	274	17	4·8	1·6	164
3·0 ,,	17	6·1	4·0	284	20	4·2	1·7	021	5	3·7	1·8	247	8	5·3	4·4	287	9	5·8	2·1	262	12	4·1	1·4	213
3·6 ,,	13	6·4	4·5	280	11	5·7	3·6	006					7	7·5	6·8	277	6	5·3	2·9	306	4	3·0	1·4	150
4·5 ,,	8	4·8	3·3	288	3	6·0	3·8	290					6	7·7	6·8	275								
5·4 ,,	6	4·7	3·4	304									6	5·3	3·7	292								
6·0 ,,	4	4·8	1·7	308									4	5·6	1·3	352								
7·2 ,,	2	9·5	4·7	247									4	4·0	3·0	085								
9·0 ,,	1	8·5	8·5	065									1	6·5	6·5	120								

Station	VERAVAL								VIJAYWADA/GANNAVARAM												VISHAKHAPATNAM			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·8	5·4	266	30	4·0	3·5	266	30	2·5	2·3	261	30	3·2	2·1	274	30	2·5	1·0	241	29	2·4	1·5	293
0·15 a. g.	28	6·8	6·4	266	29	6·5	5·8	266	23	5·1	4·3	256	29	4·5	2·9	268	26	5·3	3·0	217	29	6·3	4·1	326
0·3 a. m. s. l.	28	7·3	6·8	267	29	6·7	5·9	268	23	6·8	5·7	259	29	5·4	4·1	276	26	5·7	3·2	232	29	6·2	3·5	308
0·6 ,,	28	7·3	6·5	270	29	7·3	6·3	270	22	7·9	6·5	267	29	6·4	5·1	286	26	6·6	3·9	264	29	6·3	3·3	260
0·9 ,,	26	6·5	5·8	274	29	7·0	5·7	208	22	7·9	6·3	280	28	6·9	6·1	291	25	6·8	4·5	281	29	7·0	4·0	272
1·5 ,,	21	5·2	3·6	266	26	5·6	3·0	256	22	6·9	5·3	288	26	8·2	7·0	290	24	7·7	6·0	286	29	6·5	3·9	286
2·1 ,,	21	4·5	2·7	254	24	5·0	0·8	285	22	6·9	5·2	289	25	8·0	6·6	286	23	8·3	6·8	287	29	6·8	3·5	296
3·0 ,,	19	4·5	2·6	262	19	4·3	0·4	357	19	6·5	4·0	287	24	7·3	5·8	273	21	6·4	4·9	300	29	5·9	2·2	305
3·6 ,,	18	4·4	2·1	272	10	4·3	2·3	270	15	5·7	3·1	267	20	6·4	4·8	276	15	4·9	2·5	301	29	5·5	0·5	286
4·5 ,,	18	5·2	2·8	273	5	4·1	2·0	295	11	4·7	1·6	206	18	5·7	2·5	282	13	4·4	1·3	271	29	5·5	0·6	075
5·4 ,,	17	6·3	2·7	292	2	8·0	8·0	262	10	3·5	1·3	084	15	5·2	1·2	270	11	4·1	0·4	335	28	6·2	1·6	096
6·0 ,,	17	7·0	2·6	294	1	12·5	12·5	240	10	3·6	2·1	098	13	5·0	0·7	169	10	3·9	1·0	046		6·5	2·0	106
7·2 ,,	13	7·6	2·2	352					7	6·6	3·3	076	8	4·6	3·3	111	4	5·5	3·6	099	28	6·3	3·6	108
9·0 ,,	11	7·0	3·2	069					6	7·3	7·0	095	5	7·1	6·9	093					27	8·0	6·7	096

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Station	VISHAKHAPATNAM																							
Time in I.S.T.	1130				1730*				2330															
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	3·3	1·5	237	29	2·9	1·3	338	30	2·0	1·0	229												
0·15 a. g. .	28	4·1	2·2	215	29	5·8	2·6	335	28	3·8	2·3	238												
0·3 a. m. s.	28	4·0	2·5	237	29	5·6	2·0	320	28	4·4	2·9	240												
0·6 ,, .	27	4·5	2·4	257	29	5·5	1·3	247	27	5·5	3·1	248												
0·9 ,, .	21	5·3	2·5	286	29	6·0	1·5	267	25	5·7	3·0	279												
1·5 ,, .	15	6·3	3·2	278	29	6·3	2·3	310	23	5·1	3·5	299												
2·1 ,, .	12	6·2	2·6	301	28	6·1	2·1	315	21	5·5	2·6	312												
3·0 ,, .	8	4·8	1·7	316	28	5·7	2·0	290	1	5·1	1·5	329												
3·6 ,, .	6	5·2	1·1	211	28	5·7	1·0	280	10	4·1	1·7	001												
4·5 ,, .	4	3·7	1·9	279	28	5·6	0·7	287	3	6·3	3·0	050												
5·4 ,, .	1	5·0	5·0	080	28	6·3	0·6	042	3	6·3	3·7	050												
6·0 ,, .	1	4·0	4·0	110	28	6·3	1·2	065	2	3·5	1·5	105												
7·2 ,, .	1	5·0	5·0	095	28	6·5	3·7	078	1	1·0	1·0	180												
9·0 ,					26	7·6	5·7	087																

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

AGARTALA

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	6·0	6·0	035
12·0	1	4·5	4·5	025

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	6·0	2·9	071
12·0	3	8·0	6·7	057

AHMADABAD

0530 hr *

Ht. in Km.	n	V	v	D
10·5	22	8·6	3·6	105
12·0	19	10·7	6·1	107
14·1	18	14·6	10·3	106
16·2	10	12·9	12·2	092
18·0	7	13·3	11·9	092
21·0	4	14·9	14·5	094

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	21	5·4	4·1	096
12·0	14	10·4	7·2	102
14·1	10	16·7	5·9	092
16·2	6	16·8	14·9	094
18·0	5	16·1	15·9	094
21·0	2	13·7	13·7	094

ALLAHABAD/BAMHRAULI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	19	6·5	2·1	125
12·0	7	8·7	5·0	151
14·1	2	8·5	2·7	174

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	2·0	2·0	215

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	15	6·3	2·6	150
12·0	7	7·6	3·3	150
14·1	2	13·7	8·2	165

AMBALA

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	33·0	33·0	245

ANANTAPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	10·5	10·5	105
12·0	2	17·0	16·7	106
14·1	2	19·5	19·1	123
16·2	2	18·3	17·8	097

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	11·3	11·1	096
12·0	2	13·3	13·3	096

ASANSOL

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	8·7	8·2	065
12·0	2	8·3	4·3	049
14·1	1	11·0	11·0	095
16·2	1	10·0	10·0	120

BAHRAICH

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	5·0	1·2	074

1130 hr.

Ht. in Km.	n	V	v	D
10·5	4	18·5	18·5	235
12·0	3	25·3	25·3	238
14·1	3	28·7	28·7	233

1730 hr.

Ht. in Km.	n	V	v	D
10·5	9	10·8	8·8	230
12·0	5	9·0	6·3	220
14·1	1	11·5	11·5	350

BANGALORE

0530 hr.@

Ht. in Km.	n	V	v	D
10·5	2	9·0	9·0	100
12·0	2	15·0	15·0	107
14·1	2	22·0	22·0	117
16·2	2	17·7	17·3	096
18·0	2	12·0	11·8	088
21·0	2	18·0	17·9	085

1730 hr.@

Ht. in Km.	n	V	v	D
10·5	7	14·1	13·7	095
12·0	6	19·6	18·8	091
14·1	4	27·1	26·1	099
16·2	1	8·0	8·0	120
18·0	1	15·0	15·0	100
21·0	1	13·0	13·0	095

BEGAMPET

0530 hr.

Ht. in Km.	n	V	v	D
10·5	3	7·7	5·4	078
12·0	2	9·3	9·3	118
14·1	2	16·3	15·9	121
16·2	2	16·0	16·0	112
18·0	1	13·0	13·0	090

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	8·0	8·0	105

BHAGALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	7	6·4	3·2	115
12·0	3	9·8	5·9	135
14·1	3	11·0	4·8	173
16·2	1	7·0	7·0	155
18·0	1	15·0	15·0	180
21·0	1	27·5	27·5	205

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	2·0	2·0	070

BHUBANESHWAR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	10·0	10·0	115

BHUJ/RUDRAMATA

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	7·7	7·7	098
12·0	1	13·5	13·5	100
14·1	1	19·0	19·0	105

BIKANER

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	11·0	8·7	290
12·0	2	9·3	9·0	269
14·1	2	8·5	8·3	297
16·2	1	2·5	2·5	305

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	8·7	8·4	275
12·0	1	15·0	15·0	280
14·1	1	9·0	9·0	255
16·2	1	7·0	7·0	330
18·0	1	2·5	2·5	190
21·0	1	25·0	25·0	250

BOMBAY/SANTACRUZ

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	17	9·0	8·0	095
12·0	13	12·0	10·3	100
14·1	6	15·3	10·9	105
16·2	1	21·5	21·5	105

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	4·5	4·5	095
12·0	1	9·0	9·0	150
14·1	1	11·0	11·0	175

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	21	9·6	8·2	099
12·0	17	13·7	12·6	098
14·1	13	17·5	14·2	105
16·2	7	10·9	28·0	105
18·0	4	22·2	21·8	087

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

CALCUTTA/DUMDUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	22	8·4	6·2	090
12·0	27	9·4	7·6	084
14·1	16	11·4	10·7	071
16·2	7	11·3	10·6	069
18·0	1	15·5	15·5	040

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	26	8·3	6·3	102
12·0	26	8·9	6·5	090
14·1	12	8·4	7·0	080
16·2	2	14·0	13·6	069
18·0	1	9·5	9·5	105
21·0	1	10·5	10·5	115

DARJEELING

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	5·5	5·5	225
12·0	1	9·5	9·5	230

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	15·0	15·0	025

DIBRUGARH/MOHANBARI

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	2·0	2·0	055
12·0	1	2·5	2·5	060

GADAG

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	7·5	7·5	110

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	9·3	8·4	096
12·0	1	12·0	12·0	115

GAUHATI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	15	5·2	3·3	017
12·0	11	9·3	6·7	010
14·1	7	6·4	3·2	325
16·2	2	7·0	6·9	136

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	4·0	4·0	145
12·0	1	3·5	3·5	275
14·1	1	6·5	6·5	310

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	16	6·0	2·6	353
12·0	11	6·7	3·3	348
14·1	4	6·6	1·8	360
16·2	1	7·5	7·5	110

GOPALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	15·0	15·0	085

GORAKHPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	10·0	10·0	220	

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	10·7	10·7	245
12·0	1	14·5	14·5	240
14·1	1	19·0	19·0	225
16·2	1	12·5	12·5	205
18·0	1	11·5	11·5	220

GWALIOR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	7	7·3	3·5	246
12·0	5	3·5	3·0	217
14·1	1	2·0	2·0	320

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	14·3	9·5	238
12·0	2	13·7	7·5	236
14·1	1	8·0	8·0	040

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	8·2	4·7	205
12·0	2	13·3	5·7	208

IMPHAL/TULIHAL

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	5·5	5·5	035

JABALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	8·5	8·5	210
12·0	1	8·0	8·0	215
14·1	1	12·5	12·5	185

JAGDALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	3·5	3·5	350

JAIPUR/SANGANER

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	11·7	8·5	278

JAMSHEDPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	9·0	9·0	225
12·0	1	13·0	13·0	090

JODHPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	10	10·7	3·7	240
12·0	5	9·1	4·3	244
14·1	2	8·0	6·3	113
16·2	1	11·0	11·0	200

1130 hr.

Ht. in Km.	n	V	v	D
10·5	5	9·2	8·4	255
12·0	5	10·5	7·5	237
14·1	5	11·8	7·5	216
16·2	5	14·4	5·5	175
18·0	4	17·5	7·0	151
21·0	4	23·0	7·0	139

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	10	4·9	1·8	217
12·0	7	7·0	4·1	114
14·1	4	6·7	5·7	093
16·2	1	6·0	6·0	065

LUCKNOW/AMAUSI

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	11·9	11·0	220
12·0	3	13·0	12·0	230
14·1	1	4·0	4·0	320

MADRAS/MINAMBAKKAM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	26	12·9	12·4	084
12·0	24	18·4	17·9	077
14·1	20	25·6	25·6	080
16·2	7	20·5	20·5	082
18·0	3	17·8	17·1	095

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	9·2	7·1	108
12·0	3	15·5	13·3	105
14·1	1	28·5	28·5	090
16·2	1	33·5	33·5	090
18·0	1	39·5	39·5	085
21·0	1	17·0	17·0	100

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

MADRAS/MINAMBAKKAM —*contd.*

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	24	12·0	10·9	084
12·0	23	18·2	17·5	082
14·1	17	22·3	21·4	082
16·2	9	21·2	20·7	088
18·0	4	12·7	12·6	080

MANGALORE/BAJPE

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	11·7	11·7	087
12·0	2	17·5	17·5	107
14·1	1	12·0	12·0	065

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	7·6	7·3	093
12·0	2	16·5	15·7	110
14·1	1	8·0	8·0	090
16·2	1	10·0	10·0	085
18·0	1	6·0	6·0	055

NAGPUR/SONEGAON

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	27	6·9	6·3	088
12·0	27	9·5	7·5	090
14·1	23	13·6	11·0	082
16·2	21	17·5	16·7	092
18·0	14	15·1	14·4	087
21·0	6	20·2	20·0	076

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	26	7·3	6·3	085
12·0	23	10·3	8·8	084
14·1	22	13·7	12·2	089
16·2	19	18·6	17·5	085
18·0	17	19·5	19·2	088
21·0	6	14·1	13·9	108

NEW DELHI/SAFDARJUNG

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	27	11·5	9·5	245
12·0	25	12·1	10·3	242
14·1	23	11·0	9·0	240
16·2	15	7·0	4·0	252
18·0	10	8·9	5·7	077
21·0	5	13·4	13·0	080

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	15·0	15·0	240

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	28	11·3	9·5	246
12·0	28	10·3	8·3	243
14·1	27	10·2	7·5	248
16·2	23	5·9	3·1	195
18·0	20	7·7	5·8	120
21·0	8	9·4	9·0	090
24·0	2	11·2	11·1	098
27·0	1	15·5	15·5	095

POONA

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	4·0	4·0	130
12·0	1	8·0	8·0	125
14·1	1	14·0	14·0	120

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	11·5	11·5	080

PORTBLAIR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	3	12·5	12·0	088
12·0	2	14·3	14·2	095
14·1	1	19·0	19·0	080
16·2	1	19·5	19·5	085

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	1	15·0	15·0	020

RAXAUL

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	10·5	9·6	227
12·0	1	10·5	10·5	230

SRINAGAR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	27	25·1	23·5	253
12·0	26	23·1	21·5	258
14·1	15	22·4	20·2	251
16·2	7	18·6	16·8	258
18·0	3	7·7	1·6	262
21·0	1	10·0	10·0	070

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	25	22·7	21·0	245
12·0	21	24·0	22·8	248
14·1	15	21·2	19·6	256
16·2	8	11·1	8·0	240
18·0	4	8·0	2·8	155

TIRUCHCHIRAPPALLI

0530 hr.

Ht. in Km.	n	V	v	D
10·5	3	11·2	10·2	088
12·0	3	18·5	18·3	096
14·1	1	27·5	27·5	085

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	12·0	11·5	124
12·0	2	18·0	17·9	088

TRIVANDRUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	25	13·7	12·9	092
12·0	20	20·9	20·3	085
14·1	14	27·0	26·3	086
16·2	5	28·5	26·7	091
18·0	3	5·8	5·1	105
21·0	2	11.0	10·7	099

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	28	12·5	11·7	104
12·0	26	19·1	18·5	087
14·1	20	29·2	28·0	087
16·2	14	16·8	16·2	090
18·0	6	12·9	11·3	076
21·0	2	16·0	15·3	102

VERAVAL

1730 hr.

Ht. in Km.	n	V	v	D
10·5	7	6·5	5·7	092
12·0	4	12·1	12·1	095
14·1	1	14·0	14·0	080

VIJAYWADA/GANNAVARAM

0530 hr.

Ht. in Km.	n	V	v	D
10·5	4	10·5	10·5	106
12·0	3	17·3	17·0	113

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	10·8	10·6	091
12·0	3	16·2	15·9	086
14·1	1	19·5	19·5	085

VISHAKHAPATNAM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	24	8·9	6·2	092
12·0	21	13·8	12·4	089
14·1	19	20·6	19·3	092
16·2	15	18·6	18·0	095
18·0	12	14·5	13·5	078
21·0	1	19·5	19·5	085

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	21	9·3	8·5	085
12·0	21	12·3	11·1	091
14·1	20	16·5	15·1	085
16·2	16	17·9	17·3	083
18·0	12	18·5	18·1	089
21·0	2	18·5	18·5	100
24·0	2	21·5	21·5	093

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 14 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

List of Radiosonde stations in India

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

RADIOSONDE DATA

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

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

September 1962 (Bhadra 10—Asvina 8, 1884 Saka)

Standard Pressure Surface mbs.	AHMEDABAD Surf. Pr. (997mb.)						ALLAHABAD/BAMHRAUALI (992 mb.)						BANGALORE (997 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	298.1	301	294	296.2	30	098	298.6	301	291	297.4	30	921	292.5	294	291	291.9
1000	30	037	..	..	..	..	30	025	..	..	..	..	29	083	..	..	..	..
900	30	961	295.2	299	291	291.3	30	951	295.2	298	291	292.0	29	989	292.3	293	291	291.3
850	30	1457	292.4	296	289	288.8	30	1473	293.2	295	291	289.1	29	1480	290.2	293	288	287.7
800	30	1977	289.2	293	285	285.8	30	1979	289.7	292	286	286.2	29	1997	287.8	290	285	285.4
700	30	3103	283.8	287	277	275.2	30	3097	284.0	287	281	280.9	29	3119	282.7	285	279	277.9
600	29	4373	276.5	280	271	269.9	29	4358	277.5	281	273	273.8	29	4386	275.9	279	274	271.1
500	29	5838	270.5	274	265	..	29	5838	270.0	276	269	264.9	29	5843	268.0	272	265	265.1
400	29	7577	260.5	265	255	..	29	7574	260.3	268	255	..	29	7527	257.2	263	253	..
300	25	9717	242.2	251	239	..	26	9707	247.5	252	240	..	27	9669	241.7	247	237	..
250	25	11002	235.0	239	227	..	20	11002	237.6	242	233	..	26	10934	232.0	238	228	..
200	24	12497	222.4	229	215	..	18	12514	226.1	231	222	..	25	12408	219.7	226	216	..
175	23	13352	215.3	223	210	..	17	13390	219.5	226	215	..	25	13252	213.6	219	210	..
150	21	14301	207.7	212	204	..	14	14371	212.5	221	208	..	24	14205	206.8	214	202	..
125	19	15410	200.1	205	197	..	10	15477	205.0	207	200	..	24	15271	200.0	205	195	..
100	18	16725	196.9	201	190	..	6	16782	200.0	203	197	..	22	16588	195.3	201	191	..
80	16	18019	199.3	211	190	..	..	..	..	..	..	..	22	17928	201.0	210	193	..
70	15	18805	202.5	210	189	..	..	..	..	..	..	..	20	18727	204.4	210	199	..
60	14	19785	206.3	213	196	..	..	..	..	..	..	..	18	19639	207.4	213	202	..
50	9	20872	210.3	216	201	..	..	..	..	..	..	..	17	20702	209.7	219	204	..
40	5	22258	212.8	218	203	..	..	..	..	..	..	..	10	22069	211.1	217	204	..
30	..	..	..	..	..	..	..	..	..	..	..	..	5	23777	215.6	224	209	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (1004 mb.)						CALCUTTA/DUMDUM (1003 mb.)						GAUHATI (1000 mb.)					
Surface	30	013	297.8	300	295	297.0	30	006	299.0	301	297	298.0	30	049	299.7	301	297	297.9
1000	29	046	..	..	..	..	30	033	..	..	..	..	30	091	..	..	..	..
900	29	965	293.0	296	292	289.5	30	956	294.0	297	291	292.2	29	967	295.5	299	292	292.7
850	29	1457	290.3	293	289	286.2	30	1448	293.0	294	289	287.0	29	1438	293.2	296	289	289.9
800	29	1957	287.7	291	285	283.1	30	1969	289.0	291	286	285.0	29	1993	289.8	293	288	286.4
700	29	3093	282.1	286	277	275.3	30	3096	283.0	286	279	280.0	29	3121	283.8	289	280	280.0
600	28	4359	276.3	279	271	264.5	30	4366	275.8	279	272	272.9	28	4395	277.0	282	273	272.7
500	27	5849	268.8	272	266	..	30	5828	268.9	271	266	268.5	27	5852	268.9	274	265	271.0
400	27	7551	259.2	264	257	..	29	7555	256.5	264	255	..	25	7581	259.0	263	255	..
300	19	9687	245.9	255	242	..	27	9679	245.1	250	240	..	17	9715	245.8	251	239	..
250	18	10967	236.8	244	231	..	27	10972	233.9	243	229	..	14	11008	238.6	248	234	..
200	16	12466	223.7	229	220	..	26	12416	224.3	229	217	..	8	12487	225.5	228	221	..
175	8	13315	215.4	221	212	..	22	13327	217.4	222	205	..	7	13369	219.0	223	215	..
150	7	14258	206.6	213	201	..	19	14279	209.7	215	204	..	6	14358	213.0	217	209	..
125	..	..	..	..	..	..	14	15429	202.3	207	198	..	..	..	..	..	..	..
100	..	..	..	..	..	..	7	16545	196.8	202	195	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

September 1962 (Bhadra 10—Aswina 8, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (976 mb)						MADRAS/MINAMBAKKAM (1004 mb)						NAGPUR/SONEGAON (965 mb)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	300.0	304	294	294.7	30	015	299.6	303	297	296.8	29	311	296.5	298	294	295.3
1000	28	037	..	..	..	..	30	048	..	..	..	..	29	030	..	..	..	..
900	28	953	296.8	300	293	288.7	30	972	295.7	300	290	289.4	29	955	295.2	298	293	291.1
850	28	1449	294.0	299	290	284.4	30	1467	292.7	296	287	286.9	29	1452	292.5	296	289	287.7
800	28	1970	298.8	297	285	281.5	30	1986	289.2	295	286	284.7	29	1974	289.3	294	286	285.5
700	28	3096	284.2	288	278	274.2	30	3109	282.9	288	278	278.1	29	3101	283.5	288	278	278.5
600	27	4363	277.2	231	273	266.5	30	4373	275.3	281	272	270.6	29	4373	277.1	281	273	272.1
500	25	5831	270.8	274	268	251.8	30	5828	267.9	272	265	..	29	5849	269.4	272	265	..
400	25	7570	261.7	267	257	..	29	7599	257.9	263	253	..	28	7569	259.2	263	255	..
300	20	9728	248.2	252	244	..	28	9657	241.7	247	235	..	27	9625	244.7	248	241	..
250	12	11104	239.7	247	233	..	27	10925	232.2	238	225	..	27	10933	234.5	239	229	..
200	8	12582	225.7	231	222	..	23	12419	219.3	223	213	..	25	12478	222.2	228	217	..
175	..	..	..	..	..	..	21	13250	212.0	220	206	..	23	13330	215.9	221	210	..
150	..	..	..	..	..	..	21	14211	204.7	213	198	..	23	14296	208.8	214	201	..
125	..	..	..	..	..	..	15	15263	197.9	206	192	..	22	15381	202.9	207	198	..
100	..	..	..	..	..	..	13	16565	197.3	203	193	..	20	16717	197.1	202	193	
80	..	..	..	..	..	..	10	17827	200.9	211	195	..	15	18029	200.0	207	195	..
70	..	..	..	..	..	..	9	18654	203.6	215	198	..	14	18808	202.1	212	198	..
60	..	..	..	..	..	..	6	19540	200·6	217	196	..	10	19813	206.3	215	198	..
50	..	..	..	..	..	..	..	..	..	..	..	..	9	20901	209.3	215	201	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (980 mb)						PORT BLAIR (998)						SRINAGAR (838 mb)					
Surface	30	209	298.4	302	293	296.4	30	079	297.3	299	296	296.5	29	1588	286.2	291	280	285.4
1000	29	029	..	..	..	..	30	064	..	..	..	..	29	076	..	..	..	
900	29	953	296.2	300	293	290.7	30	983	293.4	295	291	291.0	29	984	..	..	..	..
850	29	1455	293.3	296	290	287.1	30	1499	291.2	298	288	287.6	29	1484	..	..	..	..
800	29	1977	290.3	293	286	283.4	30	1993	288.0	290	286	285.0	29	1978	286.2	291	276	282.7
700	29	3107	283.9	288	279	275.7	30	3113	282 0	285	279	278.4	29	3094	280.4	286	271	277.1
600	29	4377	276.9	282	271	270.8	29	4374	274.5	279	270	272.6	29	4349	272.5	276	265	270.7
500	29	5842	270.2	275	266	261.0	29	5820	266.2	271	263	..	29	5784	264.1	269	257	..
400	29	7583	261.2	265	258	..	29	7529	255.6	259	249	..	29	7483	255.2	260	247	..
300	28	9727	247.3	252	243	..	28	9622	240·9	251	236	..	29	9583	242.8	247	236	..
250	26	11024	238.4	243	233	..	27	10876	230.4	242	225	..	27	10876	235.7	242	232	..
200	26	12535	226.9	232	223	..	26	12344	218.8	241	211	..	23	12877	225.4	232	221	..
175	24	13418	220.2	228	216	..	20	13167	212.3	227	205	..	19	13232	219.1	227	214	..
150	23	14396	212.8	217	208	..	20	14115	205.5	222	198	..	15	14229	212.9	222	207	..
125	22	15517	205.9	213	199	..	14	15209	199.5	215	190	..	11	15327	205.7	209	200	..
100	16	16849	201.3	207	197	..	12	16530	197.6	205	195	..	6	16645	201.3	208	195	..
80	10	18183	204.2	209	199	..	8	17910	201.6	208	197	..	5	17946	202.4	209	196	..
70	8	19887	208.0	215	205	..	5	18774	208.0	212	203	..	..	..	..	..	..	..
60	7	19954	212.4	220	211	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSOVDE DATA

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

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

September 1962 (Bhadra 10—Aswina 8, 1884 Saka)

Standard Pressure Surfae mbs.	TRIVANDRUM Surf. Pr. (1001 mb.)						VISHAKHAPATNAM (999 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max	Min.	Dew point
Surface	30	064	297·6	299	295	295·9	30	041	299·9	301	298	294·7
1000	30	075	..	..	..	..	30	031	..	..	..	..
900	30	994	292·2	295	289	289·5	30	960	295·8	299	293	290·7
850	30	1486	290·0	293	288	286·8	30	1457	292·9	299	289	288·2
800	30	2002	287·2	290	284	284·0	30	1978	289·5	295	286	285·0
700	30	3121	281·9	287	277	276·7	30	3141	284·0	288	281	279·1
600	30	4383	274·7	279	271	269·1	30	4382	277·3	281	274	272·6
500	30	5834	267·1	271	262	267·1	29	5346	269·3	272	266	..
400	29	7550	256·5	261	250	..	29	7572	258·1	263	253	..
300	26	9646	241·1	246	233	..	27	9665	243·9	251	240	..
250	25	10912	230·5	237	225	..	24	10976	233·7	241	231	..
200	21	12403	219·2	224	213	..	21	12475	222·5	230	215	..
175	20	13229	212·3	219	207	..	19	13318	216·3	225	210	..
150	20	14187	205·1	214	197	..	19	14295	209·1	219	209	..
125	20	15252	199·4	209	193	..	13	15357	201·1	212	193	..
100	20	16568	198·0	207	189	..	16	16704	198·5	203	191	..
80	17	17861	202·0	213	196	..	13	18024	201·5	211	187	..
70	13	18637	202·9	214	199	..	11	18794	204·2	211	191	..
60	12	19593	205·5	216	196	..	10	19738	207·4	214	195	..
50	10	20669	208·6	221	203	..	7	20812	211·1	217	199	..
40	6	22005	210·6	215	204	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

September 1962 (Bhadra 10—Aswina 8, 1884 Saka)

Standard Pressure Surface mbs.	AHMEDABAD Surf. Pr. (997 mb.)						ALLAHABAD/BAMHRAULI (990 mb.)						BANGALORE (905 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	De poi
Surface	30	055	304.9	309	301	298.3	30	098	301.7	306	295	297.6	30	921	298.4	301	295	29
1000	30	024	..	..	..	..	30	011	..	..	..	..	30	038	..	..	..	..
900	30	961	296.6	301	292	292.4	30	944	296.7	301	291	292.1	30	969	297.6	301	294	29
850	30	1460	293.5	298	290	288.6	30	1433	293.7	297	291	288.8	30	1466	293.4	297	289	28
800	30	1982	289.8	294	285	284.5	30	1966	290.9	289	281	286.1	30	1987	289.7	291	285	28
700	30	3107	283.2	289	276	281.6	30	3099	285.2	288	281	280.2	30	3111	282.9	285	280	27
600	30	4376	277.2	282	272	269.7	30	4458	278.8	281	276	272.4	30	4377	276.2	280	272	27
500	30	5842	270.3	274	265	..	29	5851	271.3	274	269	263.8	30	5834	268.3	273	264	..
400	30	7579	259.9	265	254	..	29	7596	261.5	265	257	..	29	7557	258.1	263	252	..
300	27	9710	244.6	250	234	..	28	9746	248.2	252	242	..	25	9667	242.4	248	239	..
250	25	10988	234.6	240	225	..	24	11047	238.6	244	231	..	24	10935	232.1	237	222	..
200	25	12485	222.1	229	211	..	23	12571	222.0	233	219	..	24	12413	220.2	228	213	..
175	25	13339	215.1	222	207	..	19	13438	220.0	225	212	..	22	13257	212.7	217	207	..
150	24	14304	207.7	219	200	..	16	14415	215.5	219	205	..	21	14212	205.6	211	200	..
125	23	15384	200.2	207	192	..	10	15519	204.1	211	197	..	19	15269	197.9	203	192	..
100	20	16701	197.4	207	191	..	..	..	..	..	..	..	18	16585	196.8	203	191	..
80	13	18027	202.9	217	194	..	..	..	..	..	..	..	14	17914	201.1	207	195	..
70	8	18859	206.7	212	203	..	..	..	..	..	..	..	14	18718	205.1	213	193	..
60	6	19775	211.2	215	209	..	..	..	..	..	..	..	10	19648	208.0	219	206	..
50	..	..	..	..	..	..	..	..	..	..	..	..	8	20728	210.1	217	208	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (1003 mb.)						CALCUTTA/DUM DUM (1001 mb.)						GAUHATI (997 mb.)					
Surface	30	013	301.4	309	299	296.9	30	006	301.9	305	298	298.5	30	049	302.7	305	299	295
1000	30	041	..	..	..	..	30	015	..	..	..	..	29	023	..	..	..	..
900	30	964	293.9	297	291	290.0	30	944	295.8	299	293	292.0	29	958	297.3	300	293	292
850	29	1457	291.0	294	289	287.0	30	1440	293.2	297	291	288.6	29	1458	294.2	297	291	289
800	29	1975	288.6	291	286	283.3	30	1962	290.2	293	288	286.6	29	1975	291.2	294	288	287
700	29	3098	283.4	286	278	275.8	30	3093	284.5	289	281	279.6	29	3115	285.0	288	283	282
600	29	4369	277.8	280	274	268.5	30	4371	278.3	285	273	273.3	29	4392	278.4	282	274	273
500	29	5838	270.8	273	261	262.0	29	5845	271.1	274	267	261.0	29	5858	270.8	275	266	267
400	29	7578	260.6	264	256	..	27	7585	260.8	263	259	..	29	7599	260.5	265	257	..
300	24	9723	246.6	252	246	..	27	9730	247.0	252	244	..	18	9743	246.7	257	245	..
250	24	11016	237.1	243	233	..	26	11026	237.8	243	231	..	12	11050	238.0	242	233	..
200	20	12524	225.4	228	221	..	26	12544	226.2	237	218	..	11	12553	226.0	229	221	..
175	18	13387	218.3	222	214	..	17	13405	218.5	225	213	..	6	13431	218.0	220	215	..
150	15	14371	210.7	215	206	..	15	14385	211.5	218	205	..	..	..	..	..	..	..
125	11	15480	202.7	208	195	..	9	15478	203.4	211	199	..	..	..	..	..	..	..
100	10	16794	197.5	212	191	..	9	16648	197.3	201	193	..	..	..	..	..	..	..
80	7	18082	196.3	202	190	..	5	18089	200.0	204	192	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

September 1962 (Bhadra 10—Aswina 8, 1884 Saka)

Standard Pressure Surface mbs.	JODHPUR (Surf. Pr. (978 mb.)						MADRAS/MINAMBAKKAM (1002 mb.)						NAGPUR/SONEGAON (967 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	218	306·4	310	297	293·6	30	015	302·8	307	295	297·5	30	311	300·9	305	296	295·9
1000	29	015	..	..	..	..	30	033	..	..	..	..	30	011	..	..	..	..
900	29	952	297·7	305	296	288·9	29	964	297·2	300	295	291·6	30	945	297·5	299	295	290·5
850	29	1448	296·0	303	292	284·8	29	1461	293·4	295	292	288·8	30	1444	293·5	297	291	288·5
800	29	1973	291·9	297	287	281·7	29	1982	289·8	291	287	285·7	30	1966	290·4	294	286	285·7
700	29	3103	284·3	289	278	273·0	29	3107	283·3	285	281	278·6	30	3098	284·2	290	279	279·4
600	28	4372	278·7	282	273	264·3	29	4372	276·5	279	274	276·5	30	4371	278·0	285	271	271·1
500	25	5836	271·6	278	268	253·3	29	5830	268·3	272	265	..	28	5853	270·7	275	265	..
400	20	7536	261·9	267	258	..	29	7551	257·8	263	252	..	28	7569	260·2	263	257	..
300	12	9750	249·2	256	243	..	28	9661	242·2	246	236	..	27	9704	245·5	250	239	..
250	8	11037	240·7	245	236	..	27	10931	232·5	238	229	..	27	10987	235·9	242	227	..
200	7	12511	226·1	233	221	..	25	12404	219·2	225	209	..	25	12499	222·0	229	217	..
175	5	13342	218·4	223	215	..	25	13239	211·9	220	201	..	24	13340	216·9	222	211	..
150							24	14192	204·7	216	195	..	24	14234	209·7	215	203	..
125							22	15265	199·1	208	191	..	22	15410	202·9	208	197	..
100							20	16569	197·7	206	192	..	20	16774	197·5	203	192	..
80							14	17869	202·8	207	199	..	16	18083	198·1	204	193	..
70							14	18743	205·5	210	201	..	14	18799	199·3	205	192	..
60							12	19637	206·7	212	191	..	11	19769	202·8	209	196	..
50							9	20687	208·3	214	192	..	6	20853	206·0	213	202	..
40													5	22223	210·5	215	207	..
30																		
20																		
10																		

	NEW DELHI/SAFDARJUNG (978 mb.)						PORT BLAIR (997 mb.)						SRINAGAR (836 mb.)					
Surface	30	209	302·9	307	299	295·8	30	079	298·6	301	296	297·0	30	1588	295·6	303	283	290·5
1000	30	013	..	..	..	..	30	055	..	..	..	..	30	014	..	..	..	..
900	30	951	298·0	303	294	290·8	30	976	294·5	297	292	290·7	30	947	..	..	..	..
850	30	1451	294·3	298	291	287·8	30	1471	291·9	295	287	287·0	30	1446	..	..	..	..
800	30	1974	290·8	294	287	283·9	30	1990	288·6	292	284	284·7	30	1972	292·4	299	278	284·5
700	30	3104	284·1	287	281	274·8	30	3112	282·9	286	279	278·5	30	3107	284·3	293	273	276·9
600	30	4379	277·5	281	273	269·9	28	4378	274·3	279	269	271·1	30	4376	275·6	283	268	269·9
500	30	5842	270·2	273	264	..	28	5831	267·7	273	261	265·2	30	5824	266·1	274	255	..
400	30	7583	261·0	266	258	..	28	7552	258·1	262	253	..	30	7534	256·6	264	246	..
300	29	9730	247·0	252	243	..	25	9653	241·8	248	238	..	29	9651	244·3	250	234	..
250	28	11030	238·1	244	234	..	23	10917	230·8	236	224	..	27	10942	235·9	244	226	..
200	28	12551	226·8	232	223	..	20	12380	217·7	223	212	..	25	12453	225·2	233	218	..
175	27	13425	220·1	226	216	..	16	13229	211·1	217	205	..	24	13321	219·0	228	209	..
150	27	14401	212·9	220	207	..	15	14184	205·1	211	198	..	21	14298	213·9	225	205	..
125	26	15520	205·6	213	201	..	13	15250	198·5	205	192	..	14	14541	207·0	217	200	..
100	24	16850	200·4	210	194	..	6	16549	194·3	198	190	..	12	16808	204·0	211	199	..
80	20	18156	201·8	209	194	..							6	18186	206·1	215	199	..
70	19	18959	206·7	216	202	..												
60	15	19915	211·5	220	207	..												
50	9	21053	214·9	222	208	..												
40																		
30																		
20																		
10																		

RADIOSONDE DATA

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

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

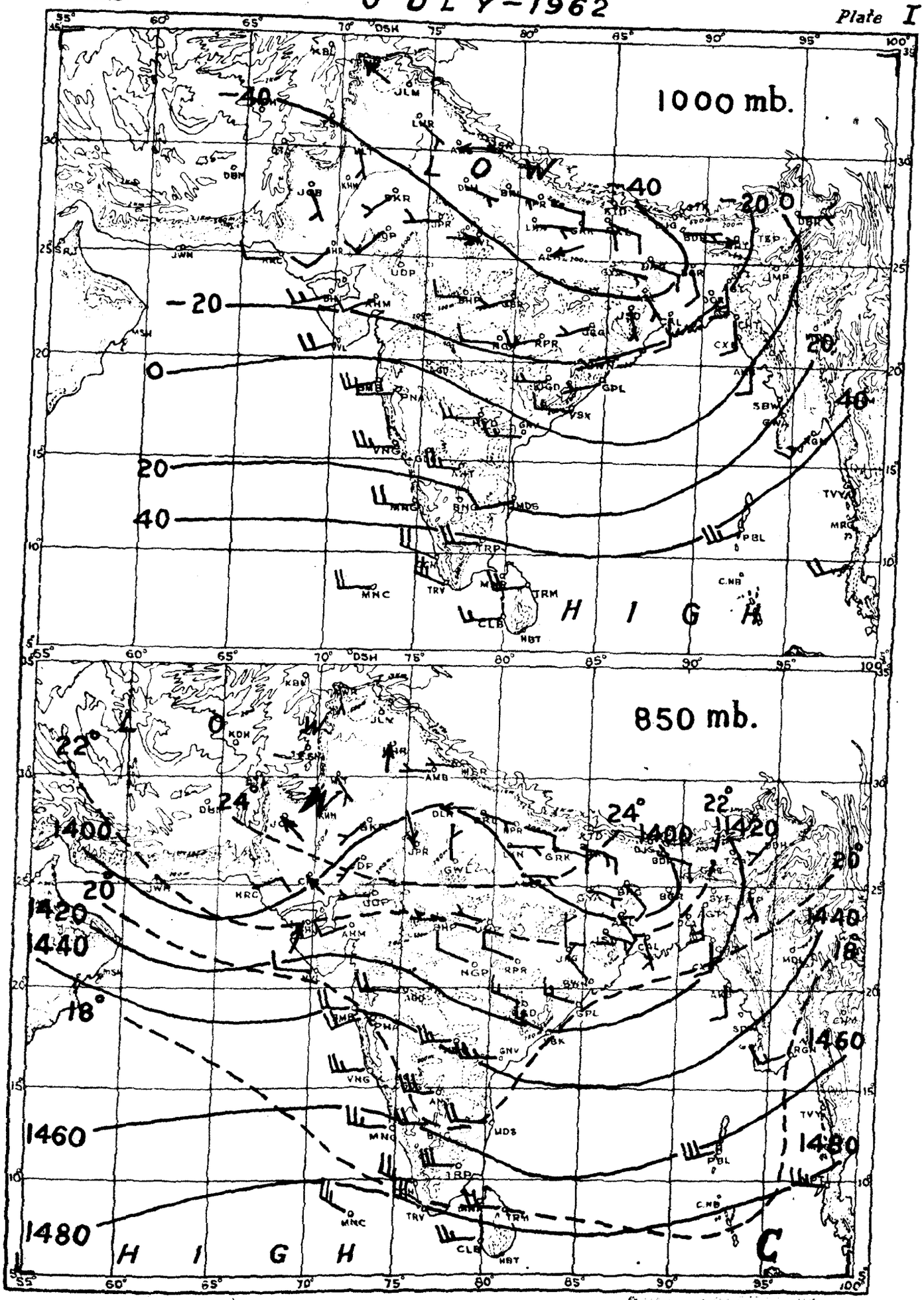
September 1962 (Bhadra 10—Aswina 8, 1884 Saka)

Standard Pressure Surface mbs.	TRIVANDRUM Surf. Pr. (1000 mb.)						VISHAKHAPATNAM (997 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	064	300·4	302	298	296·3	30	041	302·1	304	294	297·5
1000	30	063	..	..	..	..	30	017	..	..	..	..
900	30	987	293·7	298	290	298·7	30	950	296·4	300	293	291·5
850	30	1481	290·9	293	287	286·9	30	1448	293·6	297	290	288·9
800	30	1994	288·1	291	285	284·1	30	1970	290·4	294	286	286·1
700	30	3119	282·7	285	286	276·5	29	3103	284·1	287	281	278·6
600	30	4385	276·1	281	272	269·5	29	4378	277·7	281	273	271·6
500	30	5843	268·8	277	263	..	29	5844	269·6	275	265	267·0
400	30	7565	257·2	260	250	..	28	7577	259·5	267	255	..
300	30	9676	242·4	248	235	..	27	9705	245·0	252	237	..
250	28	10938	232·1	240	223	..	23	10989	235·3	243	231	..
200	26	12417	219·1	226	212	..	23	12493	223·9	231	219	..
175	24	13255	212·9	219	207	..	22	13336	217·3	223	212	..
150	23	14219	206·9	211	199	..	21	14321	210·7	219	205	..
125	20	15301	200·3	205	195	..	17	15423	204·3	210	196	..
100	20	16612	198·2	203	190	..	16	16741	197·9	205	190	..
80	12	17862	198·1	203	191	..	12	18026	199·1	205	194	..
70	12	18629	200·6	205	191	..	12	18924	203·0	211	197	..
60	9	19585	203·3	207	199	..	8	19757	205·9	213	201	..
50	7	20656	206·3	208	201	..	6	20821	207·8	212	207	..
40												
30												
20												
10												

GIPN—S5—28 DDG obs P/66—28-8-67—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JULY-1962



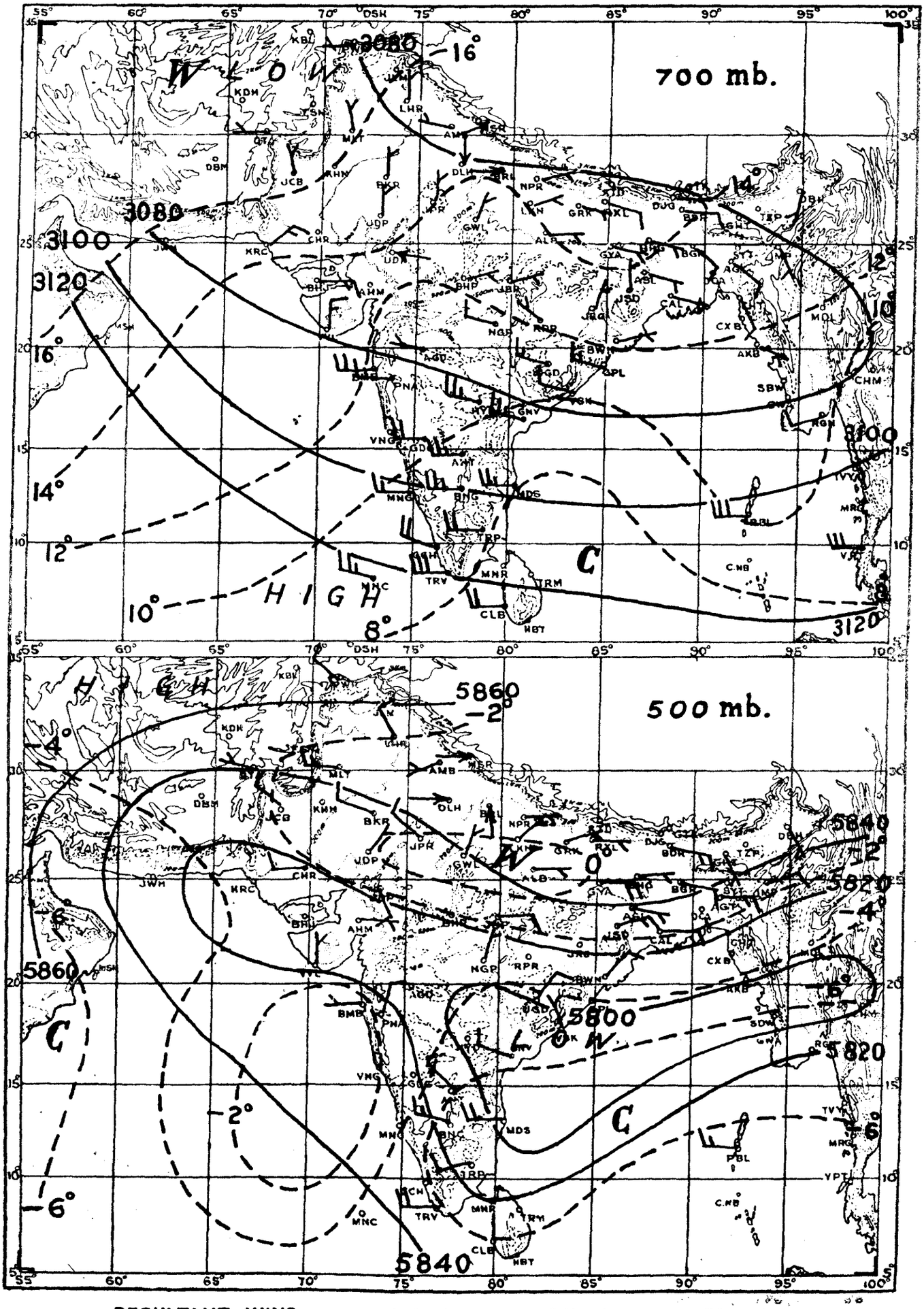
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

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

G.P.O.P. POONA, 1966

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **JULY—1962** Plate II



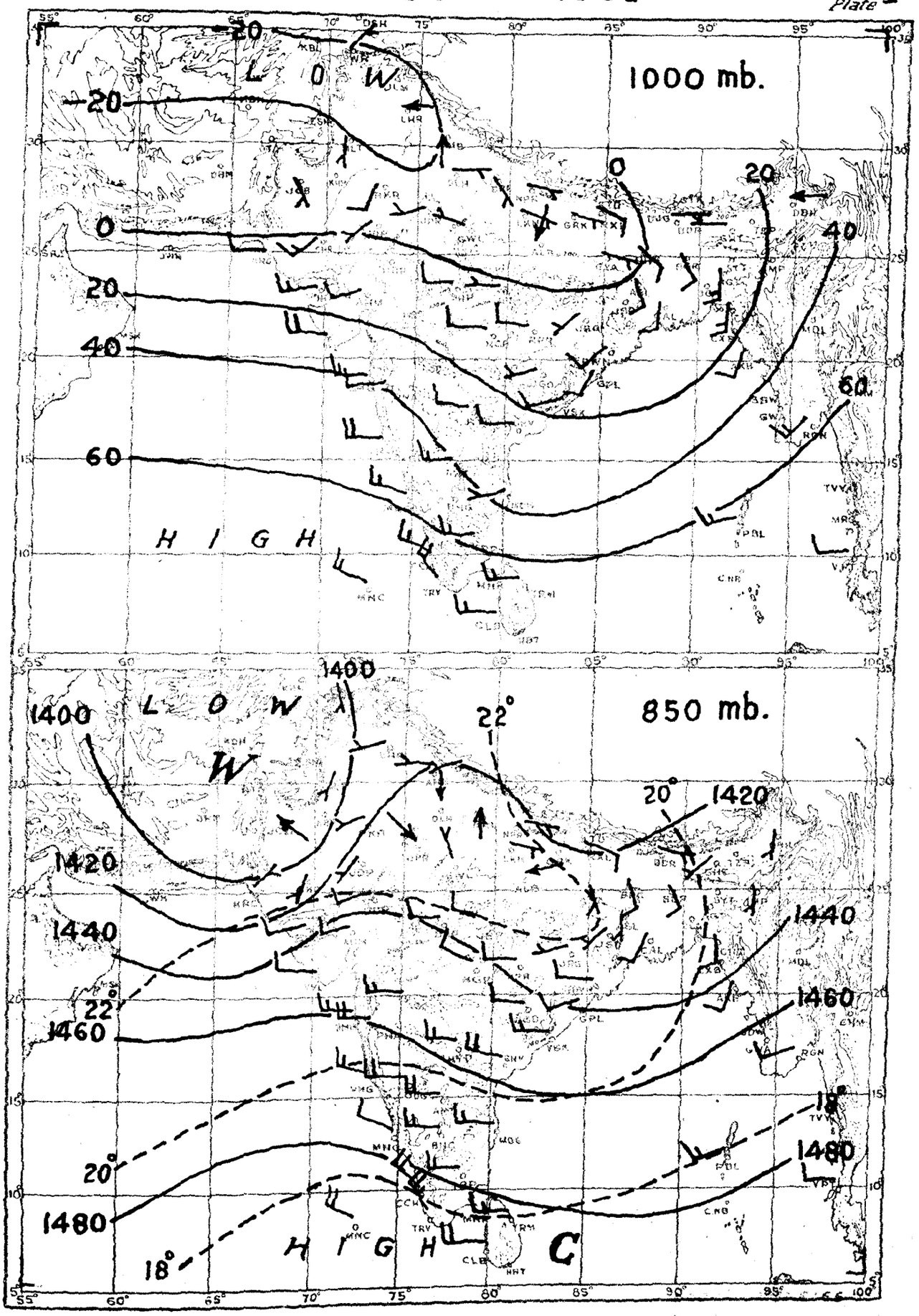
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

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

G.P.Z.P. POONA, 1966

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. AUGUST-1962 Plate I

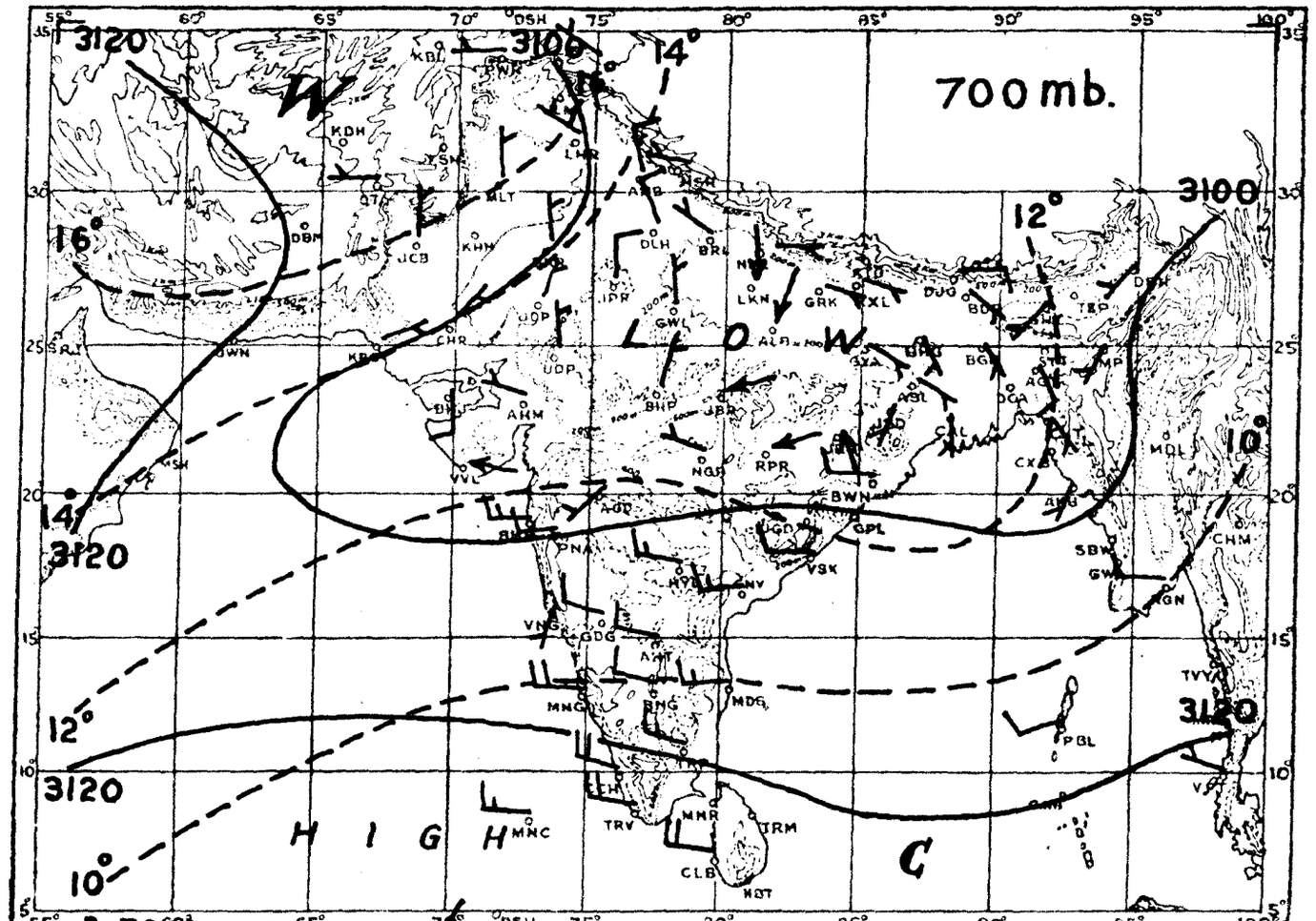


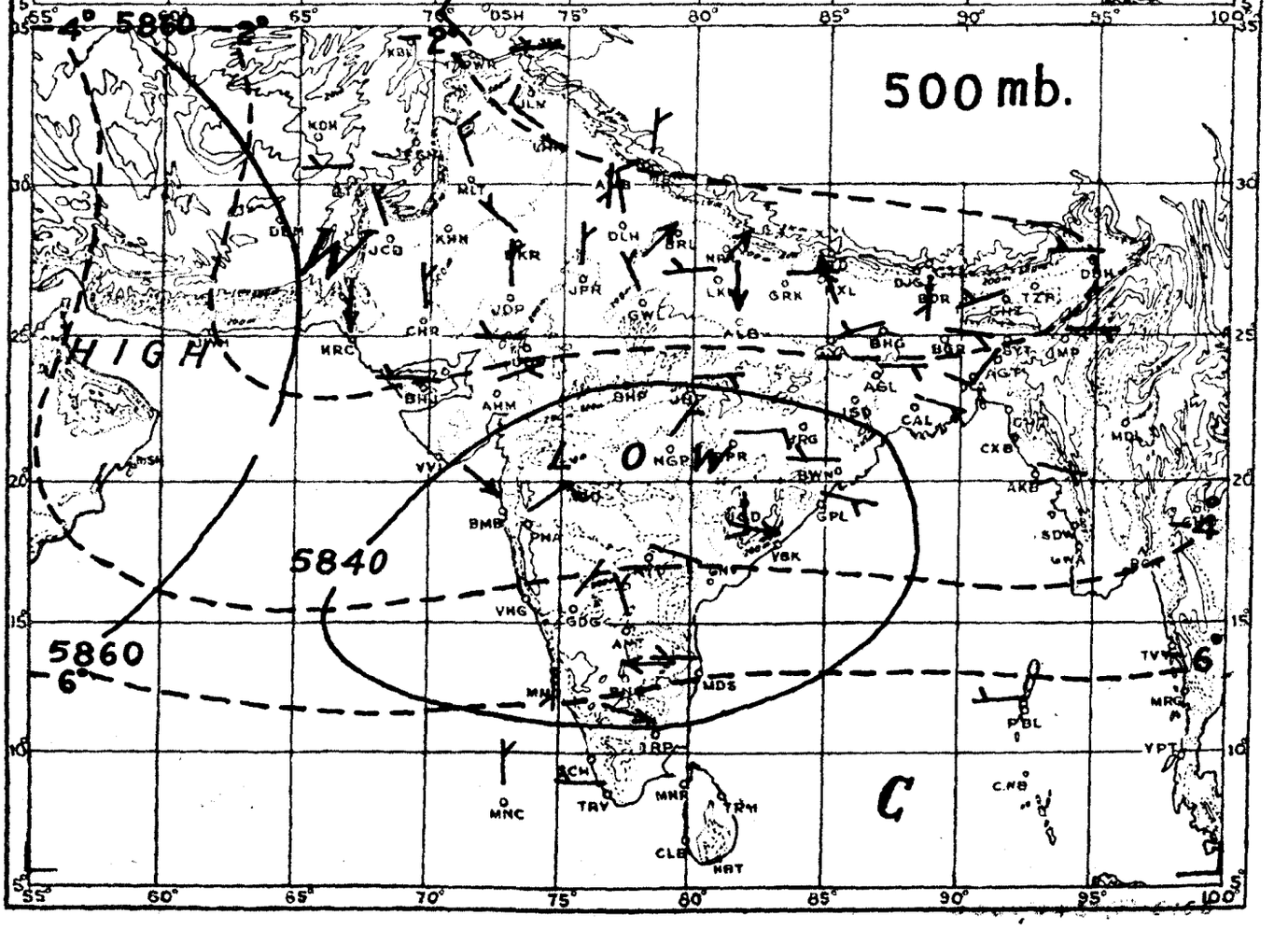
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

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

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **A U G U S T - 1962** *Plate* **II**





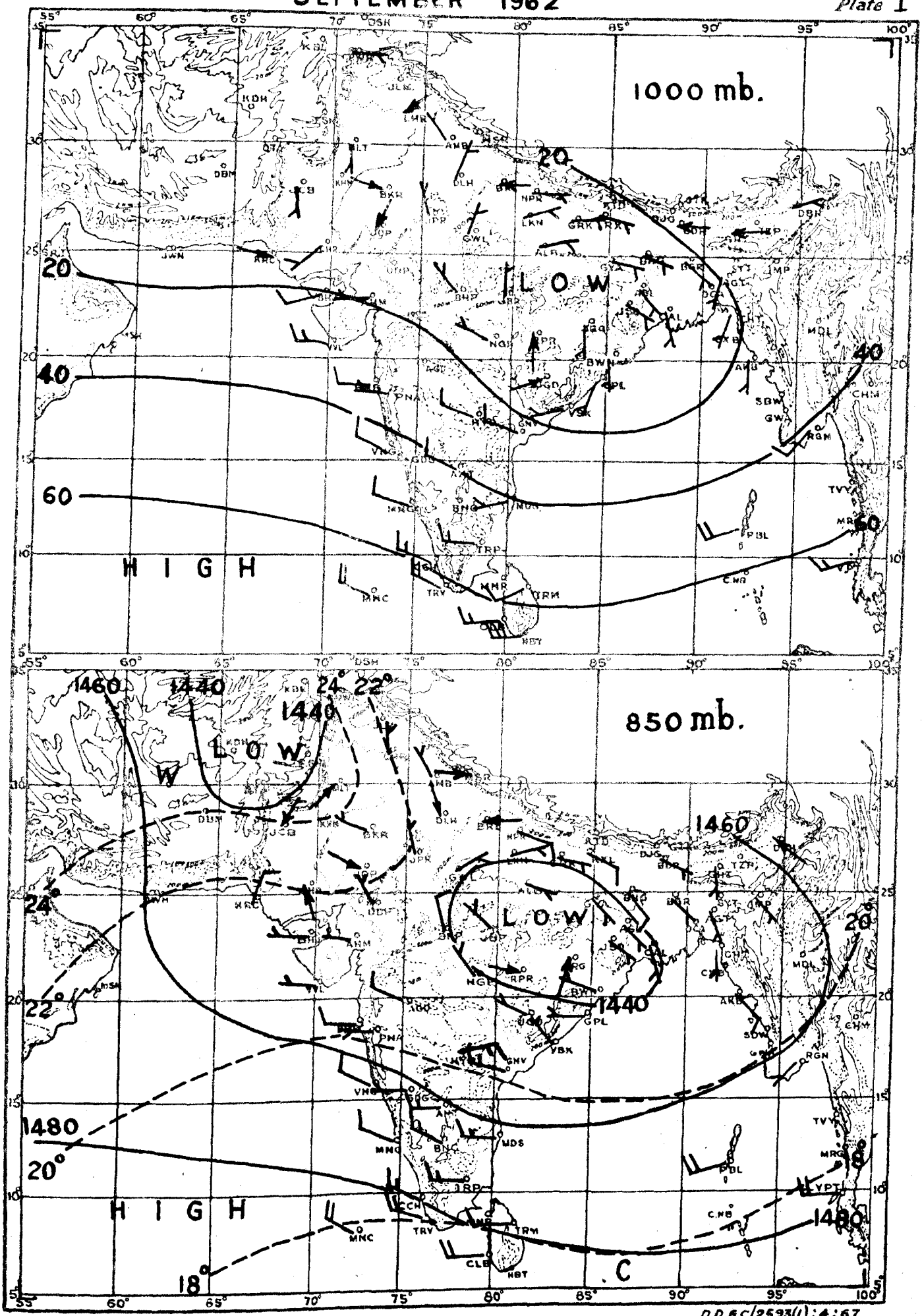
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

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

G.P.Z.P. POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **SEPTEMBER 1962** *Plate* I



DD 6C/2593(1):4:67

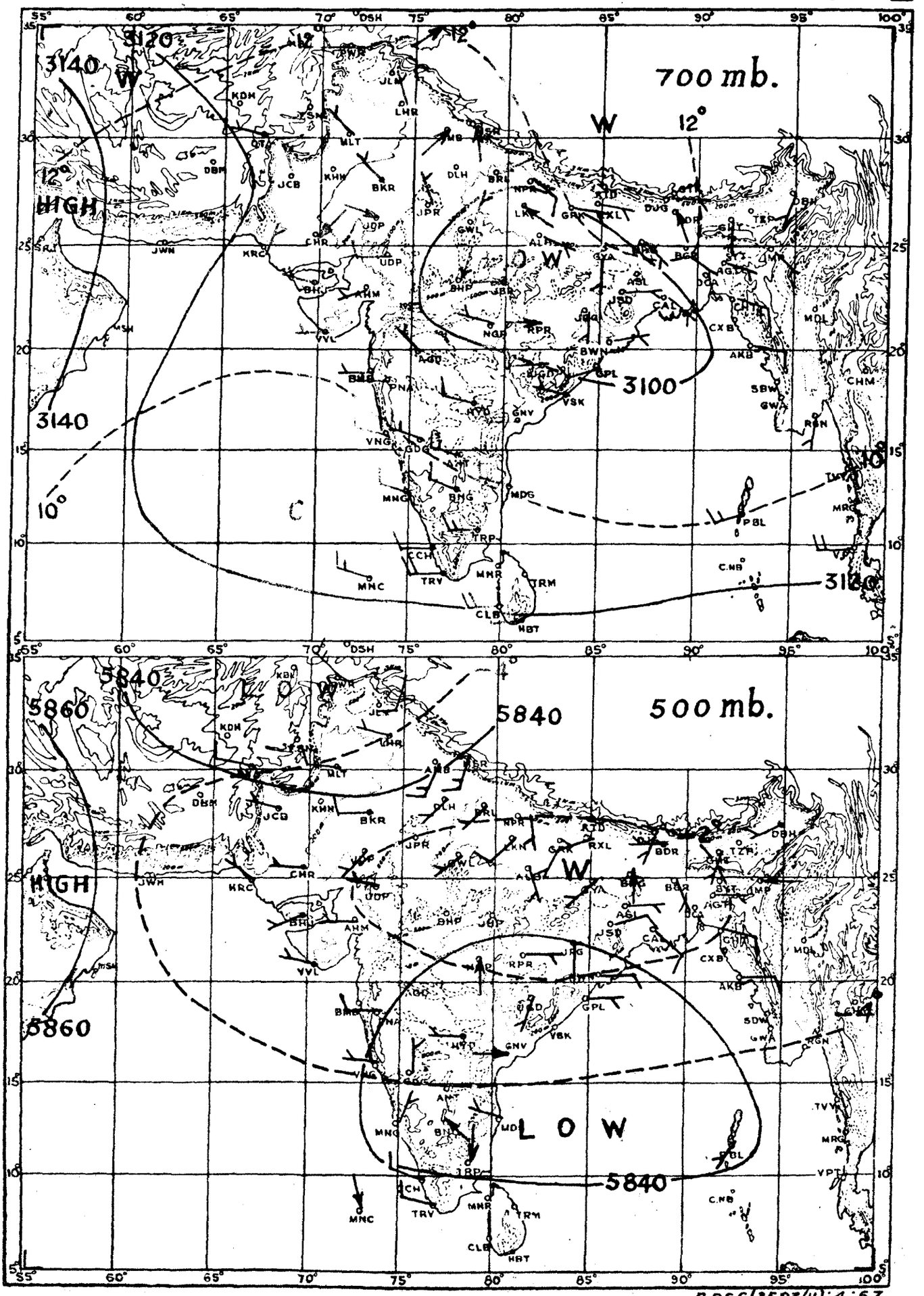
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

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

G.P.I. P. POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **SEPTEMBER 1962** *Plate* II



DDGC/2593(II):4:67

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

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

G.P.D. POONA, 1965

Registered No. M I

INDIA WEATHER REVIEW, 1962

Monthly Weather Report

October

Published by authority of the Government of India

Chief features :

(i) Complete withdrawal of the southwest monsoon from outside the Peninsula by 9th;

(ii) Good rainfall activity in the Peninsula;

(iii) Formation and movement of a deep depression and a cyclonic storm in the Bay of Bengal; and

(iv) A spell of heavy rains leading to floods in coastal Andhra Pradesh during the last week.

A low pressure area over northeast Bay of Bengal moved initially northwestwards to Bihar State and later eastwards across Assam during the first week of the month. Under its influence, a good spell of rainfall occurred in northeast India. Some of the noteworthy amounts of rainfall recorded were: Gohpur, 10 cm on 1st, Forbesganj 11cm on 6th and Pasighat 13 cm on 8th. With the passage of this low, the strong high level westerlies extended into northeast India and the southwest monsoon completely withdrew from northeast India and east Madhya Pradesh on 9th. Later the monsoon was confined to the Peninsula.

A feeble low pressure area from the east moved into the north Andman Sea on 10th. Moving initially in a northerly direction, it moved away northeastwards across Assam by 14th, after causing light to moderate rains in parts of Assam and West Bengal.

During the second and third weeks the seasonal low in the south was quite active. A well marked trough in the easterlies also developed and persisted over the Laccadive area and adjoining central Arabian Sea off the Konkan-Kanara coasts during the third week. Under their influence, there was increased rainfall activity in the Peninsula. Some of the heavy rainfalls recorded were : Tuticorin 14 cm on 11th, Kanyakumari 11 cm on 12th, Calicut 11 cm on 14th, Masulipatam 11 cm on 16th and Nellore 10 cm on 19th.

A low pressure area formed over the southwest and adjoining southeast Bay of Bengal on 19th evening. It intensified into a depression by 23rd, with its centre at 0830 hrs. IST about 400 kms southeast of Nagapattinam. Moving in a northerly direction, it lay over west central and adjoining southwest Bay on 25th with centre at 0830 hrs. IST about 350 kms east of Nellore. Thereafter it moved westward and crossed coast near Nellore on the night of 26th-27th and rapidly weakened into a low pressure area. Continuing to move westwards, it emerged by the evening of 28th into the east central Arabian Sea and it was persisting even at the end of the month. In association with this disturbance there was heavy rainfall in the Peninsula and in particular over coastal Andhra Pradesh. Some of the heavy rainfalls were : Madras 14 cm on 23rd, Kalingapatam 17 cm on 24th and 26 cm on 25th, Nellore 15 cm on 24th, Vishakhapatnam 13 cm on 25th, Gopalpur 18 cm, Kakinada 13 cm and Puri 11 cm on 26th, Calicut 20 cm on 26th and 11 cm on 27th and Mangalore 11 cm on 28th. According to press reports, low lying areas of Vishakhapatnam town were completely submerged following the heavy continuous rains. Road and rail traffic were disrupted due to breaches. 1000 houses collapsed and 5,000 persons were rendered homeless due to breaches caused by the water of Sarda river.

Under the influence of a low pressure wave from the east a depression formed in the Bay of Bengal by the evening of 26th with the centre about 150 km south of Port Blair. It moved northwestwards till 28th evening and later began to recurve north and then northeastwards. Intensifying further it developed into a cyclonic storm by the morning of 29th with centre about 300 kms east of Masulipatam. Thereafter, it moved rapidly northeastwards and crossed the East Pakistan coast near Chittagong by 30th evening. It weakened into a depression and lay over lower Assam and adjoining upper Burma on the morning of 31st. Later it weakened further and moved away eastwards. Under its influence heavy rains occurred in the coastal areas of Andhra Pradesh, Orissa and West Bengal and also in lower Assam. Sandheads recorded 17 cm of rain, Chandbali 11 cm, Gopalpur 13 cm, Puri 15 cm and Kalingapatam 12 cm on 30th. The heavy rains and gales that this cyclone caused over coastal Andhra Pradesh further aggrevated the havoc which had resulted from the earlier depression. Vishakhapatnam district was the worst affected.

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1—1 D.D.G. bs. P./67

Two Western disturbances moved eastwards across the north of the country, one in the second week and the other towards the end of the month. They caused a few showers in the Western Himalayas and adjoining plains.

Rainfall for the month was in large excess in Orissa, coastal Andhra Pradesh, Rayalaseema, the Madras State, coastal and south Interior Mysore and Kerala, in moderate excess in Gangetic West Bengal, north Interior Mysore and the Arabian Sea Islands and normal in Assam, West Uttar Pradesh, Rajasthan and Gujarat State. It was in slight defect in Bihar Plateau, in moderate defect in the Bay Islands, Sub-Himalayan West Bengal, Bihar Plains, Madhya Maharashtra and Telangana and in large defect over the rest of the country outside Himachal Pradesh.

Mean maximum temperature was above normal in the Bay Islands and the Konkan and below normal in Orissa, east Rajasthan, coastal Andhra Pradesh, Rayalaseema and the Madras State. It was normal over the rest of the country outside Himachal Pradesh. Mean minimum temperature was below normal in Bihar Plateau, east Uttar Pradesh, Rajasthan, Madhya Pradesh and the Gujarat State and normal over the rest of the country outside Himachal Pradesh.

Mean relative humidity in the morning was below above normal in the Punjab(I), coastal Andhra Pradesh, Rayalaseema, the Madras State and south Interior Mysore and below normal in west Rajasthan, west Madhya Pradesh, Gujarat State and the Konkan. It was normal over the rest of the country outside Himachal Pradesh.

Mean cloud amount in the morning was above normal in Orissa, Vidarbha, coastal Andhra Pradesh, Rayalaseema, the Madras and Mysore States and the Arabian Sea Islands and below normal in Uttar Pradesh, the Punjab(I), Jammu and Kashmir, Rajasthan, west Madhya Pradesh and the Gujarat State. It was normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5;
The 20th February, 1963.

R. ANANTHAKRISHNAN,
for *DIRECTOR GENERAL OF OBSERVATORIES*

Errata to M.W.R. for the quarter ending October to December 1962.

Page No.	Station	Hour	Column	For	Read
October 1962:					
527	Text portion		-	Registered No. MH-7	Registered No. MH-75
Table I - Division:					
529	1. Assam (including Manipur, Tripura)		2	1205	120.5
529.	12. Andhra Pradesh		2	-154.7	+154.7
Table I - Sub-division:					
529	25. Rayal Seema		9	6.2	6.3
Table II					
530	Lumding		20(a),29	1, (Blank)	0,0
530	Tura		20(a)	0	1
530	Imphal (Tulihal)		20(a)	0	1
530	Kailashahar		20(a)	1	0
530	Foot Note		-	(not given)	(f)Mean of 25 days.
531	Puri		17	12.4	12.5
531	Jamshedpur (PBO)		18	(not clear)	5.5
531	(Foot note)		-	(r)Register not received.	(R)Register not received.
532	Heading		-	October 9	October
532	Palam (Aerodrome)		19	0	..
533	Leh		6	1.8	-1.8
533	Jodhpur		7	0.3	-0.3
535	Aurangabad		6	14.7	19.7
536	Tiruppattur		21	(Blank)	0
536	Coimbatore (Pilamedu)		21	(Blank)	0
536	Coimbatore		21	(Blank)	0
536	Raichur		17	2.8	12.8
536	Foot note		-	(not given)	* Data not reliable.
537	Ootacamund		22	(Blank)	0
538	Durgapur		10	68.9	68.6
538	Pokharo		23	(Blank)	S
538	Okhaldunga		20(a)	0	1
538	Chainpur		20(a)	1	0
538	Foot note		-	(b)Mean of 29 days.	(delete).
Table III					
539	Maya Bandar	0830	5	1007.1	1007.7
539	Jorhat (Aerodrome)	1730	4	2007.9	1007.9
539	Foot note	-	-	Not given	*Observations for 21 days.
540	Baghdogra	1130	17	4	0
540	Cooch Behar	0830	3	,,	43
542	Bhubaneshwar	1130	25	2	3

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Page No.	Station	Hour	Column	For	Read
Table III contd.					
544	Dehra Dun	1130	27	9	1
545	Ambala P.B.O.	1130	25	1	0
545	Ambala P.B.O.	2330	24,25	0,1	1,0
549	Raipur (Jhabua)	0830	25	2	0
549	Champa	0830	9	13.3	18.3
549	Raipur	0530	5	976.7	976.8
550	Naliya	0830	4	1012.2	1012.4
550	Bhuj (Rudramata)	1130	4	1011.4	1012.4
551	Veraval	0830	8	19.8	19.5
551	Veraval	0830	12	-1.0	-10
551	Veraval	0830	24	(blank)	0
552	Parbhani	0830	1	Parbhan	Parbhani
556	Chitradurga	1730	15	3.7	3.9
557	Darjeeling	0830	6	-0.2	-2.0
557	Abu	1730	28	1	0
557	Mercara	1730	25	0	10
559	Barahakshetra	1730	24	(Blank)	1
559	Gangtok	1730	4	9.1	1492.1

Page No.	Station	Time in IST	Height in Km.	Entry under Column	Existing entry	Correct entry
563	Ambala	2330	5.4	D	256	255
565	Bhubaneshwar	2330	3.6	v	2.1	2.5
565	Bhubaneshwar	1730	0.15	D	292	297
569	Gwalior	1730	6.0	D	298	278
570	Jamshedpur	0530	4.5	D	253	258
570	Jamshedpur	0530	6.0	D	295	265
571	Lucknow	0530	4.5	V	6.4	7.4
571	Madras	0530	7.2	V	2.6	6.6
571	Mangalore	1730	4.5	D	058	028
571	Mangalore	1730	0.3	n	8	28
573	Raipur	2330	Time in IST		2330*	2330
573	Raipur	2330	0.15	V	4.4	4.3
578	Jodhpur	1730	10.5	V	34.2	34.6
579	Poona	1730	12.0	D	192	193
579	Srinagar	0530	12.0	v	28.8	28.6
579	Trivandrum	1730	14.1	n	12	16
579	Vishakhapatnam	1730	14.1	D	13	130
RADIOSONDE DATA						
581	Bombay	00	850 mb.	Dew Point	270.6	279.6
583	Trivandrum	00	1000 mb.	No.of Obs.	81	31
585	Jodhpur	12	850 mb.	Dew Point	271.9	272.9
585	Madras	12	-	Surface Pre.	1001	1005
585	Nagpur	12	-	4	974	973
585	New Delhi	12	900 mb.	Mean	296.6	296.9
585	New Delhi	12	850 mb.	Mean	294.6	292.6

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Errata to M.W.R. for October - December 1962:

Page No.	Station	Hour	Column	For	Read
Table II	November - 1962 Nomber-				
590	Dibrugarh (Mohanbari)		3	+4.3	+0.3
590	Digboi		- 21	21 -	0
590	Golaghat		2,6	27.7,16.7	27.7, 16.7
590	Sagar Island		19	+0.1	-0.1
591	Balasore		28	Blank	0
591	Motihari		16	0.3	-0.3
592	Mansiari (R)		1	Roorkee Mansiari	between Dehra Dun & Roorkee.
592	Mandi		22	0	1
592	Mahajan		10 & 11	0 & 0	--, --
593	Satna		4	.6	32.6
594	Chanda		12	-8.4	+8.4
595	Nellore		23	2	0
596	Bangalore		3	+10.4	+0.4
596	Dalhousie		12	116.9	+116.9
596	Badrinath		1	Badrinath (R)	Badrinath
596	Kalimpong		3	+0.6	-0.6
597	Ginabahar		5	34	3,4
597	Sallyana		5	5,16.,29	5,16,19
Table III					
598	Port Blair	0530	3	97	79
598	Port Blair	2330	17	0	1
598	Tezpur	0830	25	0	1
599	Jalpaiguri	1730	11	Blank	67
600	Midnapore	1730	10	19.3	18.3
600	Sagar Island	0830	17	0	1
600	Sandheads	1730	17	0	2
600	Sandheads	2330	8	20.8	20.7
600	Jharsuguda	0830	18	9	19
601	Angul	1730	15	6.3	2.3
601	Bhubaneshwar	2330	7	28.1	21.1
601	Puri	0830	12	-7	-3
601	Dumka	0830	16	0	--
601	Daltonganj	1730	19 & 23	6 & 2	0 & 0
602	Sabaur	0830	20	0	1
602	Gaya	1130	25	Blank	15
602	Bahraich	0830	1	Bah	Bahraich
602	Faizabad	1730	28	1	0
602	Gorakhpur (PBO)	0230	6	-1.1	delete
603	Varanasi(Babatpur)	1130	5	106.5	1006.5
603	Najibabad	0830	9	9.0	9.8
603	Bareilly	0830	6	--	0

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Page No.	Station	Hour	Column	For	Read
Table III (contd.)					
603	Bareilly	1730	13	2.2	1.2
603	Aligarh	0830	1	ligarh	Aligarh
604	Amritsar (Rajasansi)	0530	17	0	1
604	Ambala (Aerodrome)	0530	1	Blank	Ambala (Aerodrome).
605	Leh	0530	8;9	Not clear	-9.0; -16.8
605	Srinagar (Aerodrome)	1130	19	9	0
605	Banihal	0830	9	0.3	-0.3
605	Jammu	0830	2	1830	0830
605	Anupgarh	0830	3	177	154
605	Bikaner	0830	1	Bik er	Bikaner
606	Jaisalmer	1730	15	0.5	6.5
607	Jhalawar	0830	25	1	0
607	Sagar	0830	12	+12	-12
607	Bhopal (Bairagarh)	1130	9	79	6.9
607	Ujjain	0830	3	,,	--
608	Ambikapur	1730	15	1.3	5.3
608	Idar	0830	5	980.6	990.6
608	Dohad	1730	7	39.4	29.4
609	Baroda	1130	4	1010.3	1015.3
609	Surat	1730	11	41	42
609	Kandla Aerodrome	1130	15	15.1	15.7
609	Mandvi	0830	10	16.0	16.9
609	Dwarka	0830	13	.7	1.7
609	Rajkot	0830	14	-0.1	+0.1
610	Harnai	0830	8	20.7	20.8
610	Ratnagiri	1730	9	20.8	20.7
610	Devgarh	0830	12	+0	0
610	Poona	0530	7	Blank	16.3
611	Akola Aerodrome	0830& 1130	2	30;113	0830;1130
611	Buldana	0830	12	+1	+5
611	Chanda	0830	6	+0.6	+0.8
614	Tondi	1730	3	Blank	,,
614	Balehonnur	0830	28	0	--
614	Hassan	0830	4	1528.8	1528.7
615	Bangalore (Aerodrome)	1730	9	6.8	16.8
615	Simla	1730	14	0	--
615	Badrinath	0830	1	(R)	Closed during winter months.
616	Mukteswar (Kumaon)	1730	9	1.7	-1.7
616	Kalimpong	0830	6	-0.9	-9.0
616	Kodaikanal	1730	7	13.6	13.1
616	Katmandu	1130	4	1523.3	1523.5
616	Tilaiya	1730	7	22.2	22.3
616	Bokaro	0830	5	988.7	988.6

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Page No.	Station	Hour	Column	For	Read
Table III (contd.)					
617	Bagra Tawa	1730	28	2	0
617	Tokara	1130	2	1130	+ 1130
617	Gorkha	1730	2	1730	+ 1730
617	Dailekh	0830	1	Dailekh	Dailekh (R)
617	Foot note	-	-	Data not reliable.	Data not available.

Page No.	Station	Time in IST	Height in Km.	Entry under column	Existing entry	Correct entry
November 1962:						
623	Begumpet	1730	6.0	D	177	197
627	Gauhati	0530	2.1	V	5.7	5.6
627	Gauhati	0530	2.1	v	1.6	1.7
627	Gaya	0530	2.1	v	7.8	7.9
628	Gwalior	1730	3.0	D	249	291
629	Jodhpur	0530	-	Time in IST	0530	0530*
631	Kinicoy	0530	0.9	D	018	068
632	Port Blair	1730	0.15	n	29	30
632	Port Blair	1730	0.15	V	5.5	5.3
632	Port Blair	1730	0.15	v	4.8	4.6
632	Port Blair	1730	0.6	n	29	30
632	Port Blair	1730	0.6	V	6.2	6.0
632	Port Blair	1730	0.6	v	5.6	5.5
632	Raxaul	0530	0.3	v	0.2	0.9
633	Siliguri	1730	0.9	V	2.1	3.1
633	Siliguri	1730	0.9	v	1.3	2.3
634	Vijaywada	1730	6.0	V	4.4	4.5
636	Gwalior	1730	10.5	V	2.5	32.5
637	New Delhi	1730	10.5	V	36.7	36.6
637	Port Blair	0530	-	Time in IST	0530	0530*
637	Srinagar	0530	18.0	V	29.0	23.0
637	Trivandrum	1130	16.2	Ht. in Km.	16.4	16.2
637	Trivandrum	1130	16.2	V	10.3	10.0
637	Trivandrum	1730	12.0	v	3.0	8.0
638	Vishakhapatnam	1730	18.0	n	1	5
RADIOSONDE DATA						
641	Srinagar	00	900 mb.	n	28	26
642	Vishakhapatnam	00	150 mb.	Mean	205.2	205.3
643	Ahmadabad	12	Surface	Mean	304.7	304.3
643	Ahmadabad	12	Surface	Min.	297	299

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Errata to M.W.R. for October - December 1962.

December - 1962.

Page No.	Station	Hour	Column	For	Read
Table I - Sub-Division:					
649	26. Madras State	-	2	-03.1	-53.1
Table II					
650	Shantiniketan	-	20(a)	0	1
651	Chapra	-	25	1	0
651	Purnea	-	25	1	0
652	Bhilwara	-	18	3.	3.1
655	Hanamkonda	-	9	121,3	12,13
655	Tuticorin	-	9	18	31
657	Angbung	-	11	3.0	(a) 3.0
658	Foot note	-	-	Data not available.	*Data not available.
Table III					
660	Baghdogra	0830& 1130	28	Blank	0 & 0
662	Dumka	0830& 1730	16 & 17	0 & 0	delete.
662	Foot note	-	-	(h)Mean of 28 days.	(h)Mean of 23 days.
665	Jhansi	0830	18	86	6
665	Adampur Aerodrome	0530	3	238	249
668	Rajgarh	1730	18	23	27
668	Bhopal (Bairagarh)	0830	13	(Not clear)	3.6
669	Naliya	1730	28	Blank	0
670	Porbander Aerodrome	1130	2	1730	1130
670	Foot note	-	-	Observations for 20 days.	§Observations for 20 days.
673	Ongole	0830	2	0330	0830
673	Foot note	-	-	(R)Register not recomed.	(R)Register not received.
674	Mettur Dam R.S.	0830	1	Mathur Dam R.S	Mettur Dam R.S.
674	Foot note	-	-	-	(j)Mean of 21 days.
675	Bangalore	1730	28	Blank	0
679	Heading	-	-	-	Addenda to Table III.
680	Minicoy (October)	2330	4	1000.4	1010.4

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Page No.	Station	Month	Element	For	Read
Table III(A)					
683	Cooch Behar	August	N	32.8	22.8
683	Malda	July	X	38.7	38.3
683	Malda	October	R	1874	1894
684	Krishnanagar	June	R	209.3	209.8
685	Sagar Island	October	N	1998	1898
685	Iuri	August	N	1896	1898
686	Gaya	January	X	31.	31.7
687	Purnea	September	X	27.2	37.2
688	Adampur (Aerodrome)	May	N	21.6	15.6
688	Adampur (Aerodrome)	May	R	15.6	21.6
690	Barmer	June	R	1962	1961
690	Jhalawar	January	N	0.6	-0.6
691	Bhilwara	November	R	1962	delete
691	Nimach	July	N	1901	1910
692	Betul	February	N	1960	1950
692	Heading	-	-	-	Extremes of Maximum Temperature (°C) & Heaviest Rainfall.
693	Betul	December	R	40.0	40.4
693	Champa	July	R	1955	1952
693	Deesa	July	R	1902	1908
693	Ahmadabad	July	N	2.1	21.1
693	Mandvi	September	N	57.0	20.6
				1962	1960
694	Heading	-	-	Extremes	Extremes.
695	Levgarh	October	N	79.4	19.4
695	Nagpur (Sonegaon)	November	N	1922	1912
695	Chanda	July	N	1854	1954
696	Heading	-	-	Extreme	Extremes.
697	Kallakurichchi	August	X	38.-	38.4
698	Heading	-	-	Extrems	Extremes.
700	Nainital	April	R	1963	1953
700	Bokaro	February	X	(Not clear)	35.0
					1952
703	Foot note	-	-	-	* Data included under Nepal.

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Page No.	Station	Time in IST	Ht.in Km.	Entry under Column	Existing entry	Correct entry
December 1962:						
706	Agartala	0530	0.3	D	15	015
708	Bangalore	1730	3.0	v	12.8	5.0
708	Bangalore	1730	3.0	v	12.1	2.1
709	Bhopal	2330	1.5	v	9.7	0.7
710	Bikaner	2330	0.6	v	2.1	4.0
710	Bikaner	2330	0.6	D	059	065
711	Dehra Dun	0530	Surface	n	30	31
711	Darjeeling	1730	3.0	D	278	287
711	Dibrugarh	0530	0.9	v	2.6	2.0
711	Gadag	2330	Surface	D	019	091
713	Gwalior	0530	2.1	v	2.1	5.1
713	Gwalior	0530	2.1	D	315	287
714	Jharsuguda	1730	3.0	D	385	285
717	Raipur	0530	5.4	D	181	269
719	Udaipur	1730	Surface	v	1.0	0.1
719	Udaipur	2330	0.9	v	1.1	2.1
719	Veraval	2330	3.6	v	1.5	5.1
719	Vijaywada	0530	5.4	V	7.4	7.8
721	Anantapur	0530	-	-	0530*	0530
				RADIOSONDE DATA.		
729	Visakhapatnam	12	250 mb.	Ht. gpm	19024	10924

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	120·5 —13·3	90	30·3 +0·7	20·8 —0·4	80 —3	78	3·9 —0·6	3·2
2. West Bengal	151·6 +22·4	117	30·5 —0·8	22·3 —0·4	75 —2	72	3·1 0	3·1
3. Orissa	245·7 +93·7	162	29·6 —1·3	22·7 +0·1	79 +1	75	4·5 +1·1	5·0
4. Bihar	49·9 —17·4	74	30·4 —0·6	20·2 —1·0	71 —1	66	2·5 +0·1	2·5
5. Uttar Pradesh	3·2 —35·0	8	32·0 —0·5	17·8 —1·1	66 —1	52	0·4 —0·7	0·6
6. Punjab (India) (Including Delhi & Himachal Pradesh.)*	1·6 —35·8	4	31·7 —0·9	16·3 —0·8	67 +6	45	0·3 —0·5	0·4
7. Jammu and Kashmir.	10·9 —16·1	40	22·8 —0·2	6·8 —1·0	63 +1	47	1·3 —0·7	3·2
8. Rajasthan	0·0 —8·8	0	33·5 —1·0	16·6 —0·3	51 —2	28	0·2 —0·7	0·3
Sub-Division								
1. Bay Islands	228·9 —88·8	72	30·3 +1·5	24·1 +0·9	80 —1	87	6·1 +0·9	6·4
2. Assam (Including Manipur, Tripura)	120·5 —13·3	90	30·3 +0·7	20·8 —0·4	80 —3	78	3·9 —0·6	3·2
3. Sub-Himalayan, West Bengal	107·0 —42·7	71	29·9 —0·8	20·7 —0·7	74 —4	72	2·8 +0·2	2·3
4. Gangetic, West Bengal	167·9 +46·0	138	30·6 —0·8	22·9 —0·3	75 —2	72	3·3 0	3·4
5. Orissa	245·7 +93·7	162	29·6 —1·3	22·7 +0·1	79 +1	75	4·5 +1·1	5·0
6. Bihar Plateau	58·3 —16·0	78	29·7 —0·8	19·2 —1·1	70 —2	63	2·7 +0·2	3·1
7. Bihar Plains	44·9 —18·3	71	31·1 —0·3	21·1 —0·9	72 —1	69	2·2 —0·1	1·9
8. Uttar Pradesh (East)	5·6 —44·0	11	32·1 —0·4	18·4 —1·2	68 —2	55	0·6 —0·7	0·7
9. Uttar Pradesh, (West)	0 —22·7	0	31·8 —0·7	16·9 —0·9	63 +1	47	0·2 —0·6	0·5
10. Punjab (India) (Including Delhi).	1·6 —35·8	4	31·7 —0·9	16·3 —0·8	67 +6	45	0·3 —0·5	0·4
11. Himachal Pradesh	0·7 ..	..	29·1 ..	13·1 ..	84 ..	54	0·3 ..	0·6
12. Jammu and Kashmir	10·9 —16·1	40	22·8 —0·2	6·8 —1·0	63 +1	47	1·3 —0·7	3·2
13. Rajasthan, (West).	0 —4·3	0	34·9 —0·6	17.8 —1·5	45 —9	24	0·2 —0·5	0·1
14. Rajasthan, (East).	0 —13·4	0	32·4 —1·4	15·6 —3·0	55 +3	31	0·2 —0·9	0·4
15. Madhya Pradesh, (West)	0·8 —36·7	2	30·8 —0·8	15·7 —2·4	55 —7	39	0·9 —1·0	1·2
16. Madhya Pradesh, (East)	21·7 —45·8	32	30·0 —0·5	17·8 —1·3	70 —4	55	2·4 —0·3	2·7

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	10·0 —40·7	20	30·4 —0·7	16·6 —1.9	62 —6	46	1·5 —0·7	1·9
10. Gujarat State	0 —27·1	0	34·7 +0·5	19·5 —1·9	58 —12	39	0·7 —1·1	0·7
11. Maharashtra State	35·1 —44·9	44	32·1 +0·4	20·6 —0·3	66 —6	50	3·5 +0·3	3·8
12. Andhra Pradesh	296·0 +154·7	209	30·7 —1·3	23·5 +0·2	82 +5	72	5·5 +1·3	6·0
13. Madras State	338·4 +135·3	167	30·7 —1·3	23·6 —0·1	85 +7	77	6·6 +2·2	6·7
14. Mysore	201·7 +76·8	161	29·6 —0·3	21·3 +0·7	83 +5	66	5·5 +1·2	6·4
15. Kerala	552·5 +246·7	181	29·4 —0·4	23·7 —0·1	88 +4	82	6·3 +0·9	7·0
Sub-Division—*Contd.*								
17. Gujarat Region	0 —32·6	0	35·0 0	19·2 —1·8	59 —11	33	0·7 —1·1	0·6
18. Saurashtra and Kutch	0 —24·0	0	34·4 +0·8	19·8 —2·0	58 —13	41	0·6 —1·1	0·7
19. Konkan	27·3 —69·9	28	32·9 +1·8	23·6 0	72 —8	69	3·6 —0·2	3·7
20. Madhya Maharashtra.	63·4 —26·4	71	32·1 +0·2	19·0 —0·5	66 —4	44	3·5 +0·4	4·2
21. Marathwada	7·5 —43·4	15	31·9 —0·3	19·2 —0·2	57 —5	41	3·5 +0·5	4.3
22. Vidarbha	14·3 —43·3	25	31·4 —0·4	19·9 —0·6	63 —5	45	3·5 +0·6	3·3
23. Coastal Andhra Pradesh.	483·1 +291·7	252	30·3 —1·6	24·2 0	85 +7	80	6·0 +1·7	6·4
24. Telangana	55·1 —24·9	69	31·5 —0·3	22·2 +0·5	77 +1	59	4·5 +0·6	5·1
25. Rayalaseema	216·3 +102·9	191	30·3 —2·1	23·5 +0·5	83 +9	69	5·7 +1·3	6·2
26. Madras State	338·4 +135·3	167	30·7 —1·3	23·6 —0·1	85 +7	77	6·6 +2·2	6·7
27. Coastal Mysore	233·0 +79·4	152	30·7 +0·4	24·3 +0·8	86 +1	80	6·1 +1·1	6·5
28. Interior Mysore, North	111·4 +29·5	136	31·1 —0·1	21·1 +0·6	74 +3	53	4·5 +1·3	5·7
29. Interior Mysore, South	265·7 +116·2	178	27·9 —0·9	20·2 +0·8	88 +8	72	6·3 +1·3	7·0
30. Kerala	552·5 +246·7	181	29·4 —0·4	23·7 —0·1	88 +4	82	6·3 +0·9	7·0
31. Arabian Sea Islands	210·9 +45·5	128	29·7 —0·1	24·9 +0·2	83 +5	79	7·1 +2·5	7·3

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

*Data of Himachal Pradesh not included.

Sub Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Depature from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Precipitation (0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30.4	..	31 3	1	23.4	..	22.3	4,12,24	191.1	302.9	..	54.0	9	18	..	10.4	8.0	..	0	20	0	0	0	0	0	0	0	0	0
Long Island	30.5		31 6	24	23.7	..	21.8	29	102.2	229.6	..	48.8	29	12	..	2.8	1.9	..	0	22	0	0	5	0	0	0	0	0	0
Port Blair	30.3	+1.5	31.5	16	24.1	+0.9	22.7	4,6	90.8	228.9	—88.8	65.2	28	16	—0.7	10.6	8.0	—4.2	1	20	0	0	0	6	0	0	0	3	0
Car Nicobar	29.8	..	31.0	2	23.2	..	22.0	13	126.9	253.4	..	57.0	23	18	..	4.4	2.2	..	1	22	0	0	2	0	0	0	0	0	0
Nancowry	30.1	..	31.9	16	24.7	..	23.7	31	166.4	276.1	..	40.4	22	22	..	2.7	2.1	..	0	24	0	0	2	0	0	0	0	0	0
Kondul	28.9	..	30.0	9	24.0	..	23.4	21	213.0	337.2	..	49.0	18	20	..	..	..	..	2	24	0	0	4	0	0	0	0	0	0
Assam (including Manipur, Tripura).																													
Pasighat	30.4	..	34.4	1	20.1	..	17.3	21	39.6	255.6	..	132.0	8	7	..	(a) 5.0	(a) 9.6	..	0	7	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari).	30.1	+1.6	34.2	1	19.3	—1.0	14.8	25	4.7	60.8	—91.3	41.3	2	3	—5.6	3.7	2.1	—0.7	0	7	0	0	4	0	0	0	0	0	0
Digboi	31.7	..	36.7	4	20.0	..	15.9	25	3.2	39.4	..	13.0	2	5	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
North Lakhimpur	30.6	+1.3	33.6	1	19.4	—1.2	15.2	25	37.0	99.2	—129.5	34.5	6	7	—3.9	4.3	2.5	..	1	9	0	0	2	1	0	0	0	0	0
Sibsagar	30.2	+1.1	32.9	1	21.2	—0.2	16.8	25	10.5	127.9	—3.4	72.0	2	7	—0.9	2.9	2.2	—0.1	0	9	0	0	6	0	0	0	0	0	0
Gohpur	31.5	..	33.8	4days	17.5	..	13.3	6days	0	153.6	..	98.6	1	4	..	3.3	2.7	..	0	4	0	0	0	0	0	0	0	0	0
Majbat	31.0	..	35.2	5	19.0	..	14.9	24,26	0	40.6	..	23.9	2	4	..	(a) 5.9	(a) 3.2	..	0	5	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	30.3	..	33.2	1,7	20.9	..	16.9	24	11.2	178.2	..	76.0	2	9	..	..	..	..	0	9	0	0	8	4	0	0	0	0	0
Tangla	32.2	..	35.1	1	19.0	..	15.2	25	0	21.0	..	18.0	16	2	..	(b) 2.9	1.9	..	0	2	0	0	0	0	0	0	0	0	0
Tezpur	30.9	+0.7	34.4	2	18.1	—3.7	14.5	31	6.7	86.0	—18.1	33.1	7	4	—2.3	5.1	(a) 4.0	+1.6	0	7	0	0	1	0	0	0	0	0	0
Golaghat	(h) 31.4	..	..	..	(h) 20.8	..	..	..	..	(h) 95.1	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Rangia	31.3	..	34.4	6	21.4	..	17.6	31	3.4	41·7	..	22.0	7	3	..	(a) 6.8	(a) 4.3	..	0	5	0	0	0	0	0	0	0	0	0
Chaparmukh	31.5	..	35.0	1,6	21.7	..	18.8	31	0	66·3	..	21.2	31	7	..	4.1	2.3	..	0	7	0	0	0	0	0	0	0	0	0
Goalpara	31.5	..	35.1	1	21.5	..	19.1	17	18.8	103.8	..	94 2	7	2	..	5.0	2·0	..	0	2	0	0	0	0	0	0	0	0	0
Gauhati	31.1	+0.5	34.7	1	21.7	0	18.4	31	..	58.6	—12.0	16.0	7	7	+2.8	..	0	..	0	10	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	30.5	+0.4	34.3	1	21.4	+0.4	17.9	31	17.4	66.8	—3.8	41.7	7	6	+1.8	5.1	3.0	..	0	9	0	0	2	3	0	0	0	0	0
Dhubri (Rupsi)	30.7	..	33.8	1	20.3	..	17.4	17	60.8	95.1	..	54.6	7	4	..	5.2	3.1	..	1	5	0	0	4	2	0	0	0	0	0
Dhubri	29.8	+0.7	33.1	5	23.0	+0.3	20.5	31	139.8	159.0	+34.5	115.8	7	3	—2.0	(c) 5.5	(f) 4.5	—0.6	0	5	0	0	3	0	0	0	0	0	
Lumding	31.2	+1.8	34.6	7	22.6	+1.5	18.9	25	14.1	48.4	—41.5	30.6	31	4	—1.9	(a) 2.0	(a) 1.2	..	1	4	0	0	0	0	0	0	0	0	
Tura	29.1	..	31.6	22	17.7	..	14.4	31	89.9	135.3	..	54.2	2	7	..	4.1	4.3	..	0	7	0	0	0	0	0	0	0	0	0
Haflong	27.2	..	29.8	5	19.5	..	15.4	31	25.1	148.9	—8.1	66.5	31	6	—1.0	..	..	..	0	7	0	0	1	0	0	0	0	0	0
Silchar (Kumbhirgram).	31.1	..	34.3	2	21.5	..	18.0	22	50.1	201.2	..	67.2	31	9	..	4.7	5.8	..	0	11	0	0	3	1	0	0	0	0	0
Silchar	30.0	—1.3	32.9	7	22.8	+0.5	20.0	25	69.4	245.6	+61.5	62.4	31	8	+0.1	1.8	1.0	—0.6	0	10	0	0	5	0	0	0	0	0	0
Imphal (Tulihal)	28.0	+0.4	31.1	5	17.2	—0.1	12.7	22	47.8	165.2	+48.7	84.2	31	7	—0.7	6.9	4.3	+0.4	0	10	0	0	0	8	0	0	0	0	0
Kailashahar	30.9	..	34.5	1	21.9	..	18.3	18	112.2	271.6	..	68.4	31	8	..	3.1	1.8	..	1	10	0	0	7	8	0	0	0	0	0
Agartala	30.8	0	33.8	1	21.7	—0.5	17.5	19	53.9	179.5	+3.1	67.8	1	4	—4.0	6.8	3.9	—0.5	0	9	0	0	3	0	0	0	0	0	0
Sub-Himalayan West Bengal.																													
Baghdogra	30.9	+0.4	34.4	1	18.8	—1.7	14.9	27	81.1	169.4	+7.9	80.0	6	3	—3.7	6.9	6.0	+2.5	0	6	0	0	4	2	0	0	0	0	0
Jalpaiguri	28.0	—2.4	32.2	1	20.8	—0.5	17.9	26	42.6	94.6	—46.6	42.0	6	5	—0.5	6.3	4.6	+2.7	0	6	0	0	3	0	0	0	0	0	0
Cooch Behar	30.4	..	34.3	1	20.1	..	16.9	26	86.3	115.7	—70.0	37.6	7	5	—1.2	5.1	2.5	..	0	7	0	0	5	3	0	0	0	0	0
Raiganj	31.9	..	35.2	1	20.2	..	16.5	31	28.5	56.0	..	20.1	1	5	..	4.7	3.2	..	1	6	0	0	0	0	0	0	0	0	0
Malda	30.9	—0.3	32.8	1	22.4	0	18.9	31	6.8	48.4	—62.1	34.4	2	2	—2.3	7.2	4.6	+0.1	0	6	0	0	0	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore	31.7	+0.4	33.2	1	..	..	..	..	37.9	104.1	+11.6	39.4	3	7	+2.5	1.2	0.5	—1.8	0	8	0	0	1	0	0	0	0	0	0
Suri	30.2	..	32.7	1	21.8	..	19.6	31	..	152.3	..	45.6	5	7	..	..	5.1	..	0	9	0	0	2	0	0	0	0	0	0
Asansol	30.7	—1.0	32.9	23	21.4	—0.2	18.7	19	46.5	112.9	+2.7	57.3	2	8	+2.5	(b) 6.2	4.9	+0.1	0	8	0	0	2	0	0	0	0	0	0
Shanti Niketan	30.1	..	32.2	24	21.9	..	19.4	19	40.0	97.8	..	48.4	3	6	..	5.1	5.3	..	0	8	0	0	4	0	0	0	0	0	0
Krishnanagar	31.6	—0.3	33.9	1	22.7	—0.1	19.4	31	36.2	112.2	+4.5	53.0	1	5	0	3.3	2.4	—0.5	0	9	0	0	1	0	0	0	0	0	0
Purulia	29.9	—1.0	31.6	7	20.7	—1.4	18.4	31	31.0	150.2	+76.3	82.6	3	5	+0.6	2.9	2.2	—1.6	0	5	0	0	0	0	0	0	0	0	0
Bankura	30.8	..	33.9	12	..	..	..	..	22.5	177.1	+97.8	65.6	3	8	+3.5	(b) 1.5	(a) 1.6	..	0	9	0	0	0	0	0	0	0	0	0
Burdwan	30.9	—0.8	33.9	1	23.5	+0.1	20.3	31	6.0	45.0	—38.8	19.0	30	4	—0.4	(a) 6.4	5.2	+3.1	0	5	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome).	30.5	..	32.8	1	..	..	..	..	32.9	122.0	..	51.3	31	6	..	..	..	..	0	9	0	0	2	0	0	0	0	0	0

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 26 days. (h) Mean of 23 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*Contd.*																													
Calcutta (Dum-Dum).	30.8	—0.5	34.0	7	22.9	—0.9	20.2	31	73.3	136.9	—2.0	46.2	31	4	—2.9	7.7	5.2	+0.1	1	9	0	0	0	0	0	0	0	0	0
Calcutta	31.0	—0.8	34.1	8	23.5	+0.3	20.1	31	100.5	174.9	+61.1	53.3	2	6	—0.2	8.6	5.0	+1.6	0	9	0	0	4	0	0	0	0	0	0
Midnapore . .	30.1	—1.6	32.6	9	22.7	—0.3	19.2	31	94.2	186.8	+90.3	93.6	3	6	+0.4	7.1	4.7	+2.4	0	9	0	0	0	0	0	0	0	0	0
Contai . .	30.0	—1.0	32.6	7	23.9	—0.7	20.1	31	106.4	331.2	+92.4	85.0	30	11	+2.3	5.8	3.8	—0.7	0	13	0	0	0	0	0	0	0	0	0
Sagar Island .	29.4	—1.0	32.1	7	24.9	+0.3	22.1	30	172.3	315.2	+110.2	77.8	31	10	+2.5	14.1	11.2	+1.9	0	12	0	0	4	0	0	0	0	0	0
Sandheads . .	30.9	..	34.5	9	26.5	..	23.3	25	216·2	479.8	+362.2	174.6	30	8	+2.3	..	..	..	0	12	0	0	3	0	0	0	0	0	0
Orissa																													
Baripada . .	30.5	..	34.2	7	21.6	..	16.6	20	96.1	209.5	..	51.7	5	10	..	3.3	1.8	..	0	11	0	0	1	0	0	0	0	0	0
Jharsuguda .	30.8	—0.3	33·3	6	20.3	—1.5	14.8	21	16.0	31.4	—48.7	10.8	25	4	—1.4	(a) 9.6	(a) 7.0	+0.9	1	5	0	0	2	0	0	0	0	0	0
Keonjhargarh .	28·1	..	30·8	7	19·9	..	15·5	11	34·2	95·4	..	25·0	30	5	..	4·9	3·0	..	0	9	0	0	0	0	0	0	0	0	0
Balasore . .	29·8	—1·5	33·2	6	22·8	—0·1	18·5	20	157·2	364·7	+201·4	97·9	26	13	+6·6	7·5	5·3	+2·4	0	15	0	0	6	0	0	0	0	0	0
Sambalpur . .	31·3	—0·3	34·1	6	21·3	—0·6	17·4	20	29·1	36·7	—17·7	17·6	26	3	—0·5	5·3	4·2	+0·5	0	4	0	0	1	0	0	0	0	0	0
Angul . .	30·1	—1·3	33·3	6,8	22·4	+0·4	18·1	20	35·8	144·8	+44·7	67·0	29	6	+0·3	7·5	5·5	+0·5	0	9	0	0	3	0	0	0	0	0	0
Cuttack . .	31·0	—1·1	35·1	5	23·8	+0·2	26·6	5	84·0	214·6	+79·0	81·6	30	8	+1·7	6·6	4·6	+2·5	0	11	0	0	3	0	0	0	0	0	0
Chandbali . .	30·5	—0·6	33·6	5	26·3	+2·6	20·0	20	143 6	279·2	+85·4	114·0	30	10	+1·7	8·6	6·3	+0·3	0	14	0	0	0	0	0	0	0	0	0
Bolangir . .	31·0	..	34·6	6	21·5	..	18·4	21	32·2	58·0	..	35·8	24	3	..	7·1	5·6	..	0	4	0	0	0	0	0	0	0	0	0
Phulbani . .	28·8	..	31·2	7,8	19·7	..	15·0	21	28·1	50·6	..	21·8	30	4	..	4·2	2·5	..	0	9	0	0	0	0	0	0	0	0	0
Titlagarh . .	31·5	..	33·9	8	21·3	..	18·4	13,21	11·2	43·6	..	15·9	30	4	..	3·8	3·3	..	0	4	0	0	0	0	0	0	0	0	0
Bhubaneswar	30·1	—0·8	33·4	5,6	23·3	+0·2	20·3	20	106·4	293·0	+27·2	89·4	30	8	—1·7	11·0	8·3	—0·2	2	14	0	0	7	0	0	0	0	0	0
Puri . .	30·3	—1·1	32·8	9	24·6	—0·4	22· 3	30	128·0	496·0	+312·9	133·4	30	11	+3·7	12·4	10·5	+0·2	1	14	0	0	4	0	0	0	0	0	0
Gopalpur . .	29·7	—1·5	32·9	7	23·8	+0·1	21·1	21	164·2	541·5	+323·1	163·2	26	12	+5·1	12·0	9·9	+0·7	0	15	0	0	10	0	0	0	0	0	0
Koraput . .	22·4	—4·4	25·6	23	18·7	+0·2	16·7	10,17 27	37·0	57·3	—68·1	14·9	30	9	+1·0	..	..	..	0	10	0	0	1	0	0	0	0	0	0
Bihar Plateau																													
Dumka . .	31·0	—0·2	34·2	10	20·8	—0·7	17·9	11	19·1	88·7	—8·1	36·5	2	4	—0·6	(h) 4·9	(h) 3·8	+1·9	0	8	0	0	0	0	0	0	0	0	0
Daltonganj .	30·2	—1·5	32·1	6	18·4	—0·8	15·4	20	9·9	20·1	—28·9	10·2	24	3	—0·2	3·3	3·5	+0·3	0	3	0	0	0	0	0	0	0	0	0
Hazaribagh .	27·0	—1·7	28·6	22	17·0	—2·2	13·8	20	16·3	57·7	—21·0	24·2	3	3	—1·6	9·3	7·1	+0·2	0	6	0	0	1	0	0	0	0	0	0
Dhanbad . .	30·1	..	32·2	1	20·3	..	17·3	31	28·6	66·6	..	30·8	3	4	..	5·2	4·3	..	0	7	0	0	0	0	0	0	0	0	0
Ranchi . .	28·9	+0·5	33·4	12	17·3	—1·7	13·7	15	3·8	25·3	—54·2	16·5	24	2	—2·8	(a) 3·3	(a) 2·4	—2·3	0	4	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome.	26·9	..	29·7	8	18·1	..	15·6	12	..	20·5	..	10·0	24	3	..	(m) 12·4	8·5	..	0	5	0	0	0	0	0	0	0	0	0
Jamshedpur .	30·8	—1·3	33·3	5	21·1	—0·6	17·2	20	15·8	115·8	+48·2	68·6	3	7	+2·8	6·5	4·4	+1·0	1	8	0	0	0	0	0	0	0	0	0
Jamshedpur(P.B.O)	29·7	..	32·4	5	20·5	..	15·4	10	17·6	107·3	..	67·0	3	5	..	8·0	·5	..	1	8	0	0	1	1	0	0	0	0	0
Chaibasa . .	30·4	—0·8	33·1	7	20·5	—0·7	15·8	20	12·6	42·4	--32·0	14·6	27	4	—0·4	3·9	2·2	+0·3	0	7	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari . .	30·8	—0·4	..	..	19·9	—0·8	17·8	21	0	0	--58·7	0	..	0	—2·5	(f) 2·9	(j) 1·9	—0·8	0	0	0	0	0	0	0	0	0	0	0
Forbesganj .	32·2	..	34·8	1	20·8	..	18·1	16	91·4	130·8	..	109·4	6	3	..	6·7	4·3	..	0	5	0	0	5	0	0	0	0	0	0
Darbhanga .	31·1	—0·1	33·3	2,3	21·5	—0·5	18·9	21,22 23	3·2	12·4	—46·0	11·0	5	1	—1·5	3·1	2·4	+0·3	0	3	0	0	0	0	0	0	0	0	0
Muzaffarpur .	..	..	..	..	..	..	..	..	..	33·1	—28·1	26·1	5	2	—0·5	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Chapra . .	31·9	..	33·0	31	20·9	..	18·8	21	1·8	10·9	—42·7	10·9	4	1	—1·5	4·7	3·1	..	0	1	0	0	0	0	0	0	0	0	0
Purnea . .	31·4	+0·3	33·6	1	20·6	—1·0	17·5	16	35·6	140·6	+58·8	61·0	2	4	+0·6	4·2	2·3	+0·2	0	5	0	0	1	0	0	0	0	0	0
Patna . .	31·5	+0·1	33·2	28	22·4	—0·3	19·6	31	28·6	55·2	—3·2	38·0	5	3	+0·1	5·0	4·5	+1·3	0	4	0	0	0	0	0	0	0	0	0
Patna Aerodrome	30·6	..	33·6	7	20·3	..	12·2	6	26·8	43·6	..	23·4	5	3	..	(a) 5·8	(a) 2·9	..	0	3	0	0	0	0	0	0	0	0	0
Arrah . .	..	..	..	..	..	..	..	..	..	25·8	—35·7	22·2	4	2	—1·0	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Bhagalpur . .	31·4	—0·4	33·4	24	22·0	—1·1	19·8	19	18·6	45·3	—33·0	24·4	4	3	—0·5	7·3	4·9	+0·3	0	5	0	0	3	1	0	0	0	0	0
Sabaur . .	30·9	—0·3	32·3	16	20·6	—1·1	18·2	9	17·8	49·0	—30·8	22·4	3	3	+0·1	8·0	4·7	+0·7	0	5	0	0	4	1	0	0	0	0	0
Jamui . .	29·9	..	31·9	28	21·2	..	16·8	8	24·8	124·0	..	80·4	4	4	..	4·9	2·9	..	0	4	0	0	0	0	0	0	0	0	0
Dehri . .	30·7	..	32·2	18,29	20·1	..	17.6	20	9·3	15·9	—33·6	13·7	4	1	—1·6	5·1	3·6	..	0	2	0	0	0	0	0	0	0	0	0
Gaya . .	30·0	—1·4	31·5	8,29	19·8	—1·3	16·6	31	21·0	60·5	+11·7	31·4	4	3	+0·1	5·0	3·1	—1·7	0	5	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich . .	33·2	+0·9	33·8	5	19·2	—1·0	17·2	28	0	0	—40·1	0	..	0	—1·7	5·1	2·9	+0·6	0	0	0	0	0	0	0	0	0	0	0
Nautanwa . .	33·0	..	36·0	3	..	..	..	..	0	16·2	..	16·2	3	1	..	2·4	0·9	..	0	1	0	0	0	0	0	0	0	0	0
Hardoi . .	32·3	0	34·2	14	17·4	—2·3	15·8	21,22 24	0	0	—112·0	0	..	0	—2·6	5·0	2·5	—1·2	0	0	0	0	0	0	0	0	0	0	0
Gonda . .	31·8	—0·9	34·5	5	19·7	0	17·2	24,31 19	0	0	—45·5	0	..	0	—1·7	2·3	2·1	—1·1	0	0	0	0	0	0	0	0	0	0	0
Lucknow . .	32·3	—0·7	33·6	5,14	17·8	—1·4	16·3	24,30	0	0	—32·5	0	..	0	—1·7	2·0	1·3	—0·5	0	0	0	0	0	0	0	0	0	0	0

(f) Mean of 25 days.
(r) Register not received.
(a) Mean of 30 days.
(m)—Mean of 18 days.
(h) Mean of 23 days.
(j)—Mean of 21 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Duststorm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*Contd.*																													
Lucknow (Amausi)	31·9	−1·1	33·3	5,17	17·2	−0.5	15·2	11	0	0	−32·5	0	..	0	−1·7	6·1	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Faizabad	31·5	..	33·3	5	18·5	..	16·2	6	0	0	..	0	..	0	..	0	0·6	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	33·5	+1·8	35·2	5	19·6	−1·2	16·7	30	0	3·2	−72·2	3·2	5	1	−1·3	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Kanpur	31·8	−1·1	33·7	5	17·1	−1·8	14·9	24	0	0	−33·0	0	..	0	−1·5	9·0	5·2	−0·4	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	32·1	..	33·7	5	17·8	..	16·1	5 days	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sultanpur	31·9	..	33·1	6	18·9	..	17·2	19,25	0	0	..	0	..	0	..	2·8	2·2	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	32·5	..	33·7	5	17·1	..	14·5	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	31·9	−1·7	33·4	17	17·5	−1·7	15·0	20	0	0	−22·6	0	..	0	−1·4	5·5	2·8	+0·2	0	0	0	0	0	0	0	0	0	0	0
Ballia	32·4	..	33·5	13	20·4	..	16·6	20	3·2	10·8	..	7·6	4	2	..	0·7	0·4	..	0	2	0	0	0	0	0	0	0	0	0
Banda	33·3	..	34·7	17	17·2	..	15·1	25	0	0	..	0	..	0	..	2·0	1·0	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli.)	32·3	−0·1	33·6	17	18·6	−0·9	16·3	30	0	0	−59·4	0	..	0	−2·5	4·0	2·1	−1·6	0	0	0	0	0	0	0	0	0	0	0
Varanasi (Babatpur)	31·3	−0·7	32·4	18	19·5	−1·4	16·1	31	33·8	42·0	+4·4	33·8	5	2	−0·2	8·3	5·5	−0·8	0	2	0	0	0	0	0	0	0	0	0
Varanasi	31·2	−1·3	32·4	18	19·1	−0·9	16·6	31	16·5	16·5	−38·9	16·5	5	1	−1·2	4·3	2·6	−0·6	0	1	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mukhim (R)																													
Tehri (R)																													
Dehra Dun	28·1	−0·2	30·1	3	15·0	−0·7	12·2	16	0	0	−32·0	0	..	0	−1·6	4·4	4·4	+1·3	0	0	0	0	0	0	0	0	0	0	0
Manslari (R)																													
Roorkee	30·8	−0·4	33·3	5	17·0	+0·7	15·2	31	0	0	−21·3	0	..	0	−0·9	4·2	3·0	+1·1	0	0	0	0	0	0	0	0	0	0	0
Najibabad	31·3	..	33·2	6	16·7	..	14·5	17	0	0	..	0	..	0	..	2·7	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Meerut	32·1	−0·4	33·9	15,21	16·7	−0·3	15·5	28,30 31	..	0	−20·6	0	..	0	−0·9	..	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Bareilly	32 0	−0·1	33·5	5	17·7	−1·1	15·3	23	0	0	−32·3	0	..	0	−0·9	3·2	2·2	+0·6	0	0	0	0	0	0	0	0	0	0	0
Aligarh	32·4	−1·5	34·9	15	16·5	−2·3	14·6	21	0	0	−7·9	0	..	0	−0·3	10·0	8·2	+3·2	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	33·4	−0·6	36·6	13	18·2	−0·1	16·2	10	0	0	−24·1	0	..	0	−1·0	2·2	1·0	−0·8	0	0	0	0	0	0	0	0	0	0	0
Agra	32·8	−1·0	35·0	16	16·7	−1·7	14·9	22,23	0	0	−18·0	0	..	0	−0·8	3·7	2·2	−1·7	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	32·3	..	35·2	16	15·4	..	13·7	1	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orai	31·2	..	33.3	15,16	16·2	..	14·1	10	0	0	..	0	..	0	..	8·4	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	32·8	−1·1	35·0	16	17·8	−1·5	15·4	25	0	0	−25·1	0	0	0	−1·1	1·8	1·2	−2·7	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	30·1	−0·7	31·7	5,6	15·5	−1·4	13·0	31	0	1·3	−114·0	1·3	3	0	−2·8	5·8	4·0	−1·7	0	1	0	0	1	0	0	0	0	0	0
Amritsar (Rajasansi).	31·6	−0·4	33·2	4,9	16·1	−0·5	14·4	8	0	0	−41·8	0	..	0	−1·4	7·8	5·5	−0·8	0	0	0	0	0	0	0	0	0	0	0
Adampur (Aerodrome).	31·0	..	33·0	4	15·4	..	13·6	31	0	1·8	..	1·8	15	0	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Ludhiana	32·1	−1·4	33·8	14	15·9	−1·4	13·7	31	0	0	−10·9	0	..	0	−0·7	3·3	2.3	+0·7	0	0	0	0	0	0	0	0	0	0	0
Ferozepur	32·0	..	33·8	13	16·0	..	14·1	31	0	0	..	0	..	0	..	2·5	1·4	..	0	0	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome).	30·6	..	32·2	14,15	16·1	..	13·6	31	0	1·8	..	1·8	15	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chandigarh	31·0	+0·3	33·4	4	16·8	+0·2	14·5	19	0	0	−81·9	0	..	0	−3·6	4·7	3·8	..	0	0	0	0	0	0	1	0	0	0	0
Ambala	32·2	−1·0	33·7	4,12,14	17·9	+1·2	15·5	18	0	0	−22·1	0	..	0	−0·9	5·4	4·0	+0·9	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	30·7	..	32·4	3	15·2	..	13·1	18	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	0	1	0	0	0	0
Patiala	31·8	..	33·6	5	16·8	..	15·6	9,10,12	11·8	11·8	+10·0	11·8	31	1	+0·7	7·4	6·7	..	0	1	0	1	1	0	0	0	0	0	0
Bhatinda	32·7	..	34·7	14	16·3	..	14·2	7	0	0	..	0	..	0	..	3·6	1·6	..	0	0	0	0	0	0	0	0	0	0	0
Karnal	30·1	..	32·0	4	16·5	..	14·5	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	33·0	−1·8	35·2	15	15·0	−2·3	13·5	22	0	0	−15·5	0	..	0	−0·6	5·0	5·1	0	0	0	0	0	1	0	0	0	0	0	0
New Delhi (Safdarjung).	32·2	−1·1	35·0	14	16·9	−1·6	15·5	12	0	0	−10·2	0	..	0	−0·6	10·6	6·8	+1·0	0	0	0	0	0	0	0	0	0	0	0
Palam (Aerodrome)	32·3	..	35·4	14	15·5	..	13·3	12	0	0	..	0	..	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0	0
Himachal Pradesh.																													
Mandi	28·5	+0·6	31·7	5	12·3	−0·9	9·1	31	1·0	1·4	−87·2	1·4	4	0	−5·0	1·0	0·1	−1·9	0	0	0	0	2	19	0	0	0	0	0
Bilaspur	29·8	..	36·0	5	(a) 13·8	..	10·4	16	0	0	..	0	..	0	..	(a) 2·6	(a) 0·1	..	0	0	0	0	0	0	0	0	0	0	0

(a) Mean of 20 days. (R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Jammu and Kashmir.																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	9·6	—10·0	5·0	3	2	+0.1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sonamarg	..	..	..	..	..	..	..	..	..	35.3	—29.0	9.3	4	5	—0.2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Leh	13·6	—1·0	16·6	5	1·8	—1·0	—2·8	4 days	0	0·4	—2·1	0·4	31	0	—0·3	6·6	5·2	..	0	1	1	0	0	0	0	0	0	0	0
Srinagar	20·5	—2·7	23·9	14	5·6	+0·8	3·2	30	0.9	7·4	—22·3	5·6	15	1	—1·8	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Srinagar (Aerodrome).	19.4	..	22.2	6	6.2	..	3.4	30	2.3	6.1	..	3.8	15	1	..	..	..	..	0	8	0	0	0	0	0	0	0	1	0
	—Closed during winter Months—																												
Gulmarg																													
Banihal	22.3	..	25.6	3	6.4	..	4.1	24	25.7	33.0	..	13.2	4,16	3	..	..	..	..	0	5	0	1	2	0	0	0	0	0	0
Jammu	30.4	—0.8	34.0	7	16.7	—2.9	14.6	30	..	2.0	—17.3	1.0	3.16	0	—1.1	..	6.2	..	0	2	0	0	2	0	0	0	0	0	0
Jammu (Aerodrome).	30.2	..	31.8	5	17.6	..	15.0	31	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	33.7	—0.8	36.0	13	17.5	—0.8	15.8	31	0	0	—3.7	0	..	0	—0.6	4.4	2.7	—0.6	0	0	0	0	0	1	0	0	0	0	0
Anupgarh (R)																													
Mahajan	35.0	..	37.1	14	..	..	..	..	0	0	..	0	..	0	..	2.5(a)	0.6	..	0	0	0	0	0	0	0	0	0	0	0
Churu	33.7	..	35.4	15	15.1	..	13.9	12	0	0	..	0	..	0	..	8.1	4.8	..	0	0	0	0	0	0	0	0	0	0	0
Bikaner	34.7	—1.3	37.3	22	15.5	—3.6	13.7	22,29 24	0	0	—5.3	0	..	0	—0.4	4.7	3.4	—2.7	0	0	0	0	0	0	0	0	0	0	0
Nagaur	33.2	..	34.9	13	16.5	..	13.7	22	0	0	..	0	..	0	..	6.1	4.7	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	35.0	..	36.7	13	18.6	..	15.8	27	0	0	—1.8	0	..	0	—0.1	10.2	8.5	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	35.2	..	37.0	12,13	17.5	..	13.8	26	0	0	..	0	..	0	..	8.5	5.0	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	35.2	—0.1	36.8	13	18.3	0·3	15.7	24	0	0	—8.1	0	..	0	—0.5	4.8	3.7	—4.0	0	0	0	0	0	0	0	0	0	0	0
Barmer	36.0	—0.2	38.0	12	19.8	—1.5	15.7	22	0	0	—2.5	0	..	0	—0.5	5.2	4.5	—3.1*	0	0	0	0	0	0	0	0	0	0	0
Munabao	36.4	..	39.5	13,14	..	..	..	..	0	0	..	0	..	0	..	(a) 7.0	3.8	..	0	0	0	0	0	2	0	0	0	0	0
Rajasthan (East)																													
Pilani	32.7	..	35.2	14	14.8	..	13.6	7	0	0	..	0	..	0	..	8.4	8.1	..	0	0	0	0	0	0	0	0	0	0	0
Sikar	32.3	..	35.0	27	12.6	..	10.0	23	0	0	..	0	..	0	..	5.2	3.9	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	32.9	..	35.0	15	15.7	..	14.7	7	0	0	..	9	..	0	..	2.0	1.1	..	0	0	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer).	32.3	—2.0	33.8	15	15.8	—2.1	14.6	11	0	0	—12·2	0	..	0	—0.7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	33.2	..	36.4	16	14.8	..	12.9	10,22	0	0	..	0	..	0	..	4.3	2.7	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	33.0	—0.1	34.0	13,25	15.0	—3.1	13.3	24	0	0	—9.7	0	..	0	—0.7	6.3	3.7	+0.3	0	0	0	0	0	0	0	0	0	0	0
Toak	33.2	..	35.3	16	15.2	..	13.3	26	0	0	..	0	..	0	..	0	0	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	32.1	..	34.6	15	15.9	..	13.5	23	0	0	..	0	..	0	..	6.4	4.2	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	33.2	..	35.4	16	17.9	..	15.0	30	0	0	..	0	..	0	..	7.6	5.8	..	0	0	0	0	0	0	0	0	0	0	0
Kota	33.0	—1.8	35.4	16	17.9	—3.4	13·0	29	0	0	—16·5	0	..	0	—1.0	0.3	0.2	—2.2	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam).	33.9	..	33.5	13	18·9	..	15.1	27	0	0	..	0	..	0	..	2·2	2.1	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat-Bhatta Dam).	32.2	..	34.6	16	15.5	..	13.6	30	0	0	..	0	..	0	..	5.5	3.0	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	31.5	—1.7	36.0	13	13.2	—4.4	11.2	22	0	0	—14.5	0	..	0	—1.1	3.1	1.4	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	32.0	—1.3	34.6	16	16.0	—1.8	13.5	30	0	0	—14.0	0	..	0	—1.5	4.0	1.7	—0.9	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West).																													
Gwalior	32.2	—1.3	34.4	16	15.3	—2.6	12.6	22	0	0	—8.4	0	..	0	—0.6	7.0	3.6	..	0	0	0	0	6	0	0	0	0	0	0
Sheopur	32.2	+0.7	33.9	16	14.4	—4.0	12.7	29	0	0	—39.3	0	..	0	—1.4	6.0	5.2	+0.3	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	30.8	..	33.5	16	12.8	..	11.0	29,31	0	0	..	0	..	0	..	6.5	2.9	..	0	0	0	0	0	0	0	0	0	0	0
Nowgong	32.6	0	34.6	17	13.9	—4.3	11.6	25	0	0	—28.7	0	..	0	—1.5	5.0	2.4	+0.5	0	0	0	0	0	0	0	0	0	0	0
Guna	30.8	—1.2	33.0	17	13.5	—3.3	11.3	23,29	0	0	—26.7	0	..	0	—1.6	8.7	5.0	..	0	0	0	0	0	0	0	0	0	0	0
Nimach	31.4	—1.4	33.8	16	16.6	—1.5	14.7	23,29	0	0	—15.7	0	..	0	—0.9	6.9	4.8	—1.5	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	31.6	..	33.9	18	14.1	..	11.5	23	0	0	..	0	..	0	..	5.1	4.5	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	29.5	—1.7	31.0	17	16.5	—2.3	15.4	21	0	0	—27.7	0	..	0	—1.9	7.0	4.9	..	0	0	0	0	0	0	0	0	0	0	0
Ratlam	31.7	—0.6	33.7	16	16.8	—2.3	14.7	13	0	0	—48.1	0	..	0	—2.0	10.3	7.7	+1.8	0		0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	30.4	—0.7	32.3	16	16.0	—1.8	13.2	25	0	0	—42.2	0	..	0	—2.4	11.6	7.8	+2.5	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

* Departure indicated refers to 1940 normals accepted provisionally.

(a) Mean of 30 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimeter					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West)—(Contd.)																													
Ujjain	30.8	..	33.0	17	14.4	..	11.0	23	..	0	..	0	..	0	..	..	5.1	..	0	0	0	0	0	0	0	0	0	0	0
Narsinghpur	31·2	..	33·0	14	15·2	..	11·4	31	0	16.0	..	16.0	27	1	..	4.3	2.3	..	0	1	0	0	0	0	0	0	0	0	0
Hoshangabad	31.1	−1.0	33.1	14	16.6	−2.7	14.0	13	0	0	−32.5	0	..	0	−2.0	5.0	3.3	+1.2	0	0	0	0	0	0	0	0	0	0	0
Indore	30.5	−1.0	31.8	4 days	15.6	−1.2	13.2	26	0	0	−30.7	0	..	0	−2.0	12.4	7.9	..	0	0	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	32.6	..	33.8	16,17	15.9	..	12.4	25	0	0	..	0	..	0	..	5.5	2.9	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	29.6	0.2	31.9	6	15.9	−1.7	12.4	21	3.4	3.4	−65.7	2.5	28	1	−3.3	8.0	4.9	+0.6	0	2	0	0	0	0	0	0	0	0	0
Seoni	29.5	−0.7	31.4	6,10	17.0	−0.8	14.2	20	3.4	5.4	−52.3	3.2	27	1	−2.1	10.4	6.8	+2.9	0	2	0	0	0	0	0	0	0	0	0
Betul	28.6	−6.7	31.2	6	15.3	−1.9	11.6	21	2.6	2.6	−60.1	2.6	27	1	−3.0	8.9	4.5	+0.4	0	1	0	0	0	0	0	0	0	0	0
Khandwa	..	..	..	..	15.8	−3.1	12.7	13	0	0	−35.3	0	..	0	−2.0	6.8	5.5	+1.3	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	30.8	−0.5	32.4	17	17.2	−1.6	14.1	31	0	0	−49.0	0	..	0	−2.2	3.9	2.8	−0.6	0	0	0	0	0	0	0	0	0	0	0
Sidhi	31.1	..	32.3	5,17	16.4	..	13.0	31	0	0	..	0	..	0	..	5.5	3.0	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	30.1	−0.3	31.8	5,6	15.0	−2.3	12.1	20	0	0	−62.7	0	..	0	−2.7	5.7	3.3	+0.4	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	33.1	−0.6	31.9	14	16.6	−0.9	13.6	20,31	4.4	4.4	−43.3	4.4	27	1	−1.3	6.5	3.1	+0.8	0	1	0	0	0	0	0	0	0	0	0
Ambikapur	28.6	−1.0	29.5	7	15.8	−2.2	12.4	19,20	10.2	16.4	−30.8	6.2	25	3	−1.3	10.3	6.1	−0·6	0	6	0	0	0	1	0	0	0	0	0
Pendra	28.6	0.4	29.6	6	17.1	−0.7	14.6	13	6.3	24.7	−51.2	20.1	27	2	−2.1	6.7	4.4	..	0	2	0	0	0	0	0	0	0	0	0
Mandla	29.9	0.6	31.3	6	14.3	−3.3	10.8	20	16.0	19.4	−46.1	14.8	27	2	−1.7	4.9	2.7	+0.6	0	3	0	0	0	1	0	0	0	0	0
Champa	30.7	−0.8	33.0	6	19.4	−2.4	16.0	20	4.4	16.6	−43.5	5.4	5	3	−1.6	5.5	5.1	+0.1	0	6	0	0	0	0	0	0	0	0	0
Raigarh	31.7	−0.2	34.6	6	20.4	−1.9	15.7	31	46.2	59.4	+2.5	24.2	6	4	−0.3	2.9	2.2	−2.2	0	4	0	0	0	0	0	0	0	0	0
Raipur	30.6	−0.4	33.3	6	20.2	−0·7	17·3	15,21	12·3	31·5	−23·6	19·0	28	3	−0·3	8·2	5·8	+0·3	0	3	0	0	1	0	0	0	0	0	0
Kanker	30.6	−0.3	32.2	6	19.7	+0·1	15·4	15	44·9	54·5	−58·3	19·5	28	4	−1·3	6·3	4·0	+0·3	0	5	0	0	0	0	0	0	0	0	0
Jagdalpur	29.9	−0·2	32·6	8	20·5	+1·1	17·8	21	9·0	12·9	−97·8	4·9	7	2	−3·7	6·1	4·0	..	1	6	0	0	5	2	0	0	0	1	0
Gujarat Region																													
Deesa	35·4	..	36·7	16	16·4	..	14·5	22	0	0	..	0	..	0	..	7·4	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	35·6	.	37·2	13	17·3	..	14·5	31	0	0	..	0	..	0	..	6·4	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Indar	33·6	..	35·7	16	20·2	..	16·9	7	0	0	..	0	..	0	..	6·6	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	34·5	−1·7	35·7	13,15, 16	17·6	−3·2	14·9	22	0	0	−8·9	0	..	0	−0·7	7·2	4·3	−0·5	0	0	0	0	0	0	0	0	0	0	0
Dohad	32·1	−1·3	34·0	31	17·0	−2·8	14·0	21	0	0	−31·1	0	..	0	−1·6	7·1	5·6	−3·0	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	35·0	..	37·2	15	18·2	..	14·5	26	0	0	..	0	..	0	..	10·9	6·6	..	0	0	0	0	0	1	0	0	0	0	0
Baroda	35·9	+0·7	38·3	16	19·4	−0·4	16·6	26	0	0	−29.2	0	..	0	−1·5	2·4	1·0	−1·6	0	0	0	0	0	0	0	0	0	0	0
Broach	36·1	+0·2	37·9	11	19·6	−2·5	15.1	24	0	0	−55·7	0	..	0	−2·5	6·4	4·8	−0·4	0	0	0	0	0	1	0	0	0	0	0
Surat	36·6	+2·1	37·8	12	22·3	0	19·8	25	0	0	−38·3	0	..	0	−2·0	10·3	9·2	+5·0	0	0	0	0	0	1	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia-Bhimasar (R)																													
Naliya	31·7	.	37·8	29	15·6	..	13·5	25,29	0	0	..	0	..	0	..	5·7	2·6	..	0	0	0	0	0	4	0	0	0	0	0
Bhuj (Rudramata)	35·6	0	36·8	30	18·2	−3·2	16·4	25	0	0	−8·4	0	..	0	−0·5	8·5	5·7	−4·0	0	0	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	36·0	..	37·2	13	..	..	..	..	0	0	..	0	..	0	..	15·0	14·1	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	34·1	..	35·7	11,30	22·6	..	20·3	8	0	0	..	0	..	0	..	9·4	9·6	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	32·8	+0·9	35·4	18,28	..	..	..	..	0	0	−13·4	0	..	0	−1·5	16·5	15·0	−1·9	0	0	0	0	0	2	0	0	0	0	0
Surendranagar	35·3	+0·5	37·2	14	21·2	−1·2	19·1	21	0	0	−24·3	0	..	0	−1·9	(a) 8·7	(b) 6·6	−1·5	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	34·2	−0·4	35·6	13,17	19·2	−1·8	16·1	23	0	0	−7·9	0	..	0	−0·5	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Dwarka	32·1	+1·4	35·7	19,20	..	..	..	..	0	0	−6·3	0	..	0	−0·3	16·9	13·3	+2·2	0	0	0	0	0	0	0	0	0	0	0
Rajkot	35·6	+1·1	37·5	11	19·0	−1·4	16·5	23	0	0	−67·2	0	..	0	−2·6	15·1	11·4	−0.7	0	0	0	0	0	2	0	0	0	0	0
Bhavnagar (Aerodrome)	34·9	+0·4	36·6	12	21·0	−1·2	18·2	24	0	0	−22·9	0	..	0	−0·9	18·6	14·3	+3·9	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	34·8	+2·3	37·5	28	20·2	−3·0	17·1	31	0	0	−49.9	0	..	0	−1·9	15·0	10·9	..	0	0	0	0	0	1	0	0	0	0	0
Porbander*																													
Keshod	35·7	..	37·4	29	18·2	..	14·6	23	0	0	..	0	..	0	..	15·4	12·0	..	0	0	0	0	1	0	0	0	0	0	0
Mahuva	34·9	..	36·2	9	20·7	..	19·0	31	0	0	..	0	..	0	..	11·6	8·4	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	34·8	..	37·4	28,29	20·7	..	18·0	30	0	0	−15·7	0	..	0	−0·8	17·4	13·1	..	0	0	0	0	1	0	0	0	0	0	0
Konkan																													
Dahanu	33·5	+1·8	36·0	27	22·6	−0·4	19·8	23,25	0	2·2	−58·8	2·2	20	0	−2·8	15·0	10·1	−0·5	0	1	0	0	1	0	0	0	0	0	0

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

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0730-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Konkan—(*Contd.*)																													
Bombay (Santa Cruz).	34·0	+2·2	35·6	12	22·3	+0·2	18·9	23	0	11·7	—44·1	8·8	19	2	—2·0	10·4	7·1	..	0	3	0	0	3	0	0	0	0	0	0
Bombay	33·5	+1·9	35·5	18	24·5	+0·3	22·9	15	0	21·5	—43·0	12·3	19	2	—1·1	6·6	5·1	—4·7	0	3	0	0	3	0	0	0	0	0	0
Alibag	32·5	+1·1	35·6	20	23·5	—0·1	20·5	24	..	3·7	—124·1	2·3	28	0	—5·1	..	7·8	—0·6	1	3	0	0	1	0	0	0	0	0	0
Bhira	35·7	..	37.0	10	21·6	..	16·1	25	0	22·2	..	12·2	10	4	..	5·4	3·5	..	0	6	0	0	2	0	0	0	0	0	0
Harnai	32·1	+2·0	35·2	27	25·0	+0·5	22·9	20	0	12·0	—80·2	6·2	28	2	—2·1	12·9	11·6	+1·3	0	4	0	0	7	0	0	0	0	0	0
Ratnagiri	32·6	..	34·8	17	22·5	..	19·3	16	20·9	56·6	—53·4	13·0	11	6	+0·6	10·8	6·9	..	0	9	0	0	6	0	0	0	0	0	0
Devgarh	32·6	+2·0	35·0	14	24·2	0	21·7	17	28·4	74·0	—53·4	23·2	20	6	—0·5	13·2	10·2	—0·3	0	8	0	0	9	0	0	0	0	0	0
Vengurla	32·3	+1·3	35·5	17	23·3	0	17·0	17	24·8	36·7	—101·9	16·8	19	5	—3·3	10·3	5·7	..	1	7	0	0	12	1	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	34·7	..	35·9	10,12	20·8	..	17·2	26	0	0	..	0	..	0	..	9·2	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	34·0	—0·1	35·1	16	17·1	—2·2	11·8	22	0	0	—37·5	0	..	0	—1·8	13·6	9·0	+2·4	0	0	0	0	0	0	0	0	0	0	0
Malegaon	32·9	—0·3	34·7	10	17·6	—1·2	12·7	23	4·0	4·0	—39·4	3·2	19	1	—1·7	9·8	6·4	+0·1	0	2	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	32·0	..	34·5	10	17·4	..	12·9	23	0	32·4	..	24·6	11	2	..	9·5	5·3	..	0	3	0	0	2	0	0	0	0	0	0
Ahmadnagar	31·6	+0·2	35·4	9	18·4	—0·3	13.9	14	39·2	79·4	+24·3	27·2	10	4	+0·6	11·1	8·1	+0·4	0	7	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	19·2	—160·9	5·6	10	4	—2·3	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Poona (Aerodrome).	31·6	..	34·3	8	18·7	..	14·3	15	70·8	135·7	..	34·5	19	8	..	..	..	..	0	9	0	0	7	0	0	0	0	0	0
Poona	32·0	+0·1	35·0	8	18·7	—0·4	14·6	15	27·7	119·7	+29·8	36·2	30	10	+4·9	4·9	2·9	—3·5	1	11	0	0	3	0	0	0	0	0	0
Jeur	32·1	+0·3	35·2	8	19·1	—0·5	14·1	17	0	75·8	—7·2	29·6	10	4	—0·6	10·7	6·8	—0·2	0	5	0	0	3	0	0	0	0	0	0
Baramati	32·1	+0·7	35·5	8	19·7	0	15·7	15	34·4	113·4	+18·8	60·6	20	6	+0·9	8·2	7·6	—0·6	0	6	0	0	1	0	0	0	0	0	0
Sholapur	31·6	—1·0	35·5	8	20·9	+0·5	15·9	17	2·7	50·3	—26·9	26·0	9	4	—0·3	12·3	10·7	+1·2	1	6	0	0	0	0	0	0	0	0	0
Miraj	31·2	+0·7	34·6	7	19·8	—0·4	14·3	17	48·2	101·6	—3·1	33·4	9	11	+4·6	..	..	..	0	11	0	0	7	1	0	0	0	0	0
Kolhapur	31·7	+1·2	34·8	8	20·0	+0·1	15·4	17	48·1	70·8	—61·8	33·6	28	6	—1·9	15·7	10·2	+1·3	0	8	0	0	3	0	0	0	0	0	0
Marathwada																													
Aurangabad	31·9	—0·2	34·0	10	14·7	+0·3	15·8	14	5·0	8·0	—37·5	2·6	29	1	—1·8	10·1	8·8	+0·9	0	4	0	0	1	0	0	0	0	0	0
Aurangabad (Chikalthan).	31·6	..	33·7	9	15.6	..	10·3	14	0·6	8·1	..	6·5	29	1	..	14·8	9·3	..	0	2	0	0	2	0	0	0	0	0	0
Parbhani	31·9	—0·3	34·6	6	18·7	—0·7	14·7	22	5·2	7·0	—49·3	6·2	31	1	—2·4	12·3	78	+1·1	0	2	0	0	0	0	0	0	0	0	0
Nander	32·4	..	35·4	7	18·9	..	13·8	14,15	0	63·2	..	61·8	31	1	..	7·7	(a) 5·1	..	0	2	0	0	0	0	0	0	0	0	0
Bir	32·3	..	34·8	20	18·5	..	13·5	17	7·2	31·5	..	10·8	9	4	..	9·4	5·5	..	0	5	0	0	2	0	0	0	0	0	0
Vidarbha																													
Gondia	30·8	—0·4	32·7	6	19·6	—1·4	16·9	21	0	0	—68·5	0	..	0	—3·9	5·6	3·2	0	0	0	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon).	31·4	—0·7	33·5	6,7	18·6	—1·1	14·4	21	2·5	9·9	—45·2	7·4	31	1	—2·1	13·6	10·5	..	0	3	0	0	0	0	0	0	0	0	0
Amroati	32·6	—0·1	34·7	7	20·3	—0·1	16·1	13	0	31·0	—17·5	31·0	29	1	—1·6	11·7	9·1	+4·0	0	1	0	0	0	0	0	0	0	0	0
Akola Aerodrome	33·1	..	35·0	8	17·7	..	14·3	22	0	30·2	..	26·9	29	2	..	(a) 8·8	(b) 8·3	..	0	2	0	0	4	0	0	0	0	0	0
Akola	33·0	—0·7	34·8	8	19.0	—0·4	15·2	21,23	0	28·2	—18·0	26.4	29	1	—1·5	6·7	4·5	+0·2	0	2	0	0	0	0	0	0	0	0	0
Bramhapuri	31·1	..	33·4	6	20·3	..	17·3	4days	0	0	..	0	..	0	..	7·9	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Buldana	29·9	+0·1	31·4	9	..	..	..	..	0·3	19·3	—23·5	11·3	31	2	—0·7	6·8	(a) 5·5	—0·9	0	2	0	0	0	0	0	0	0	0	0
Yeotmal	30·6	—0·3	33·2	7	19·4	—0·7	16·6	14,21	0	0	—53·6	0	..	0	—3·5	12·4	8·7	+1·4	0	0	0	0	1	0	0	0	0	0	0
Chanda	30·9	—1·2	33·0	6,7	20·1	0	15·3	14	0·5	5·1	—46·7	4·6	29	1	—1·9	8·0	5·0	+2·3	0	2	0	0	1	0	0	0	0	0	0
Pusad	32·1	..	35·0	6	18·7	..	14·2	14	1·4	0·1	..	0·1	31	0	..	10·3	6·6	..	1	0	0	0	1	0	0	0	0	0	0
Sironcha	32·3	+0·2	35·2	7	22·5	—0·4	18·8	11	18·2	20·6	—73·7	11·4	29	2	—3·9	7·2	5·4	+1·4	0	3	0	0	4	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	30·0	—1·2	34·6	7	24·0	—0·3	22·3	21	282·7	815·7	+615·8	264·2	25	14	+6·7	10·2	8·8	+1·2	0	14	0	0	4	0	0	0	0	0	0
Vishakhapatnam	30·3	—2·0	33·8	6	24·3	—0·1	22·4	25	(c) 112·0	(e) 393·8	..	129·7	25	11	..	(f) 11·7	(g) 7·8	+1·0	0	13	0	0	2	0	0	0	0	0	0
Kakinada	29·8	—1·3	34·4	10	24·3	—0·1	22·1	16	225·0	564·6	+348·2	133·6	26	15	+6·4	17·4	14·0	+6·1	0	19	0	0	3	0	0	0	0	0	0
Nidadavole.	30·3	..	34·0	8	24·0	..	22·1	17	93·2	250·2	..	33·0	16	13	..	9·3	7·4	..	0	14	0	0	5	0	0	0	0	0	0
Rentachintala	31·9	—1·2	35·6	8	23·7	+0·5	21·1	11	45·4	122·0	—4·7	34·4	27	9	+1·4	6·3	3·7	—3·1	0	9	0	0	0	0	0	0	0	0	0
Gammavaram	30·7	—0·8	33·6	7	24·5	+0·3	23·0	17	50·9	152·0	+8·0	28·1	16	10	+2·2	13·9	10·7	+1·7	2	14	0	0	10	0	0	0	0	0	0
Nagarjuna Konda	31·7	..	36·3	1	24·2	..	21·3	11	93·4	181·2	..	63·8	15	7	..	10·6	7·5	..	0	10	0	0	5	0	0	0	0	0	0
Masulipatam	30·1	—1·3	33·2	7	24·3	—0·1	22·8	14	42·9	486·0	+267·6	110·4	16	16	+7·5	5·2	4·2	—1·6	0	17	0	0	16	0	0	0	0	0	0
Ongole	29·5	..	34·8	4	24·5	..	23·1	22	132·8	404·9	..	76·4	15	18	..	8·1	5·3	..	1	20	0	0	7	0	0	0	0	0	0
Nellore	29·5	—3·1	34·6	7	24·5	+0·1	23·0	23	279·2	758·1	+515·3	149·0	24	15	+6·1	4·5	3·2	—1·5	0	15	0	0	5	0	0	0	0	0	0

(a) Mean of 30 days. (b) Mean of 29 days. (c) Total for 26 days (f) Mean of 25 days (g) Mean of 24 days.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	ground frost	gale	squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28
Telangana																												
Ramgundam	32·6	0	36·6	8	22·6	—0·4	19·0	13	2·4	17·4	—64·1	13·2	18	2	—2·5	9·8	5·7	+1·3	0	2	0	0	0	0	0	0	0	0
Nizamabad(R)																												
Hanamkonda	31·5	—0·4	34·7	6	22·0	+0·4	18·5	11	8·2	35·0	—31·3	13·2	27	3	—1·1	10·7	6·7	+1·9	0	6	0	0	2	0	0	0	0	0
Hakimpet (Aerodrome)	28·9	..	32·5	7	20·9	..	18·7	21	74·2	114·0	..	39·2	17	9	..	..	..	..	0	9	0	0	3	0	0	0	0	0
Bhadrachalam	32·0	0	35·6	6	23·7	+0·7	20·6	11	0	36·6	—73·5	14·0	17,26	4	—3·4	6·1	4·1	—0·3	1	5	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	29·8	—0.8	33·1	7	20·4	+1·1	18·3	22	43·1	131·6	+69·4	51·0	18	7	+2·7	12·7	8·8	+0·6	1	9	0	0	2	0	0	0	0	0
Khammam	31·7	..	36·4	7	24·0	..	20·8	11	38·2	142·4	..	50·0	15	9	..	4·4	2·4	..	0	10	0	0	3	0	0	0	0	0
Mahbubnagar	31·1	..	34·8	7	21·3	..	19·9	11	30·4	81·2	..	28·4	30	6	..	13·5	10·0	..	0	7	0	0	0	0	0	0	0	0
Rayalaseema																												
Kurnool(R)																												
Nandyal*																												
Anantapur	30·7	—0·9	35·2	8	23·1	+0·6	20·6	12	40·5	121·4	+18·1	40·8	28	10	+4·5	10·5	8·3	+0·7	0	11	0	0	5	0	0	0	0	0
Cuddapah	30·0	—3·3	34·3	6	23·9	+0·3	22·1	21	102·4	311·2	+187·8	66·4	27	12	+5·2	5·5	4·1	—1·9	0	15	0	0	0	0	0	0	0	0
Arogyavaram	27·2	..	31·0	8	20·5	..	19·4	21	100·9	224·3	..	40·4	24	15	..	8.5	6·0	..	0	18	0	0	1	0	0	0	0	0
Madras State																												
Madras	30·0	..	33·3	31	24·2	..	22·2	21	..	522·0	..	117·2	23	13	..	..	5·9	..	0	18	0	0	8	0	0	0	0	0
Madras (Minambakham)	29·9	—2·4	33·3	31	24·3	+0·4	22·8	1,20	178·4	461·8	+156.0	142·5	23	15	+4·3	13·2	9·5	—1·3	1	19	0	0	12	0	0	0	0	0
Vellore	30·2	—1·4	33·8	7	23·2	+0·5	21·5	21	115·3	263·2	+90·5	51·1	21	15	+5·8	7·1	4·8	+1·6	0	18	0	0	10	0	0	0	0	0
Tambaram (Aerodrome).	30·8	..	33·9	8	24.0	..	21.0	22	179·1	479·6	..	93·9	23	14	..	..	..	..	0	14	0	0	10	0	0	0	0	0
Tirupattur	29·5	..	32·6	6	21·3	..	20·2	30	131.3	306·7	..	53·5	27	17	..	5·2	3·5	..	0	17		0	0	0	0	0	0	0
Mettur dam r.s.	31·3	..	34·9	1	23·5	..	21·8	6	55·2	(b) 272·6	..	..	..	..	..	(b) 5·9	(b) 5·0	..	..	..	0	0	0	0	0	0	0	0
Cuddalore	30·3	—1.1	33·1	27	23·2	—0.8	22·0	11	146·6	428·2	+135·3	67·9	18	15	+4·2	7·1	5·5	+0·5	0	23	0	0	8	0	0	0	0	0
Kallakkurichchi	30·1	..	34·6	3	23·5	..	22·2	20	95·2	310·8	+114·5	65·0	6	15	+6·0	6·2	4·5	..	0	19	0	0	4	0	0	0	0	0
Salem	30·4	—1.7	33·3	12	23·3	+1.1	21·8	31	45.2	189·2	+25·6	26·6	25	15	+5.3	5·7	4·5	+0.6	1	23	0	0	7	0	0	0	0	0
Coimbatore (Pilamedu)	29·5	..	32·9	8	22·0	..	20·0	31	50·7	155·2	..	37·6	23	13	..	15·2	12·9	..	0	17		0	5	1	0	0	0	0
Coimbatore	29·9	—1·0	33·5	8	20·7	—0·3	19·2	20	127·3	284·4	+124·1	72·0	17	13	+3·3	9·4	7·0	+2·7	0	17		0	5	0	0	0	0	0
Nagapattanam	30·2	—1·3	33·8	2	24·6	—0·1	23·2	19	96·0	417·9	+149.2	50·4	22	19	+8·8	8·3	7·3	+0·4	1	23	0	0	12	0	0	0	0	0
Tiruchchirappalli	31·0	—1.4	34·1	2	23·7	+0.4	22·9	5	44·0	252·8	+69.7	90·3	15	15	+5.5	8·6	5·9	—3·3	1	21	0	0	16	0	0	0	0	0
Vedaranniyam	31·4	..	34·9	2	24·4	..	22·0	6	179.0	509·6	..	83·8	28	20	..	2·7	1·8	..	0	22	0	0	8	0	0	0	0	0
Atirampattinam	31·6	..	35·0	2	24·2	..	22·5	19	124.6	483·4	..	86·0	26	18	..	7·9	6·8	..	1	22	0	0	15	0	0	0	0	0
Madurai	31·7	—0.6	34·3	26	23·7	0	21·5	20	6·4	326·0	+137.5	64·4	17	16	+5·8	5·1	3·9	—0.4	0	20	0	0	2	0	0	0	0	0
Madura (Aerodrome.)	31·5	..	34·6	2	23·4	..	21·5	31	105.6	373.9	..	47.1	17	19	..	8·2	6·6	..	0	22	0	0	12	0	0	0	0	0
Tondi	30·8	..	34·8	7	24·3	..	22·3	1	85.2	349.7	..	61.4	3	19	..	10·2	9·1	..	0	21	0	0	13	0	0	0	0	0
Pamban	30·9	—0·2	32·7	1,7	24·6	—0·8	23·0	19,20	41.1	445.1	+228·4	83.4	9	13	+3·6	10·6	8·3	—3·3	0	15	0	0	1	0	0	0	0	0
Tuticorin	30·7	—1·2	34·5	31	24·4	—0·7	22·3	22	155·6	472·2	+349·4	141·2	11	13	+5.5	12·3	9·8	—2·5	0	13	0	0	0	0	0	0	0	0
Palayankottai	32·2	—1.7	35·1	2,5	24·4	—0.7	22·8	31	56·4	209·4	+42·8	76·4	11	12	+3.6	5·6	3·9	—4.6	0	16	0	0	4	0	0	0	0	0
Kanniyakumari	29·6	..	31·3	5,6	24.0	..	22.5	14	106·0	295·0	..	105·4	12	12	..	15·9	14·1	..	0	14	0	0	2	0	0	0	0	0
Coastal Mysore																												
Karwar	31·0	+1·3	33·9	20	24·8	+1·2	23·2	17	42·4	200·6	+53.3	42·8	10	10	+2·7	11·0	7·6	..	0	12	0	0	0	0	0	0	0	0
Honavar	30·7	—0.4	34·2	18	23·3	+0·2	21·4	17	29·9	156·0	+49·6	30·5	15	12	+5·8	9·1	7·2	+3.7	1	18	0	0	15	0	0	0	0	0
Mangalore (Bajpe).	30·2	..	32·2	10	23·3	..	22·1	19	131·1	407·8	..	82·0	28	21	..	9·3	6·8	..	0	23	0	0	22	5	0	0	0	0
Mangalore	30·3	+0·4	31·9	10	24·7	+1·0	23·2	29	48·6	342·3	+135·3	111·2	28	21	+10·6	8·7	7·4	+0·8	0	26	0	0	10	0	0	0	0	0
Interior Mysore North																												
Bidar	29·3	—0·5	32·6	6	20·7	—0·2	15·8	12	16·6	138·4	+82·3	84·0	30	4	+0·3	12·9	9·5	+0·6	1	5	0	0	0	0	0	0	0	0
Gulbarga	32·2	—0·3	35·2	8	21·3	+0·7	17·0	12	7·2	35·6	—32·7	16·0	28	4	0	18·2	12·5	+3·5	0	7	0	0	3	0	0	0	0	0
Bijapur	31·3	—0·2	35·0	7	21·2	+0·8	17·6	17	88·7	132·1	+58.7	59·6	11	5	+0·9	4·5	2·7	—2·6	1	10	0	0	1	0	0	0	0	0
Raichur	31·8	—0·4	34·6	6	22·8	+0·5	18·9	16	44·4	118·0	+40.5	48·4	24	4	—0·3	2·8	9·8	+0·6	0	7	0	0	0	0	0	0	0	0
Belgaum	30·8	+0.5	34.0	6	19.6	+1.3	14.2	17	37.8	109.4	—9.7	48.6	28	9	+1.5	7.7	6.8	—1·0	0	12	0	0	1	0	0	0	0	0
Belgaum (Samra)	29.8	..	31·9	6,7	19·8	..	16·2	17	25·3	115·8	..	64·8	28	8	..	11·2	6·9	..	1	8	0	0	8	0	0	0	0	0
Gadag	31.0	+0·6	34.5	5	20.9	+0.3	18.9	20	78.8	135.0	+38.2	67.7	28	8	+0·7	7.8	5.1	—3.1	0	9	0	0	4	0	0	0	0	0
Interior Mysore South																												
Bellary	30·9	—1·2	34·8	11	22·6	+0·8	21·0	18	62.0	158·0	+52·3	40·0	18	8	+2·1	6·8	5·4	+0·4	0	9	..	..	..	..	..	..	..	..
Chitradurga	28.5	—1·1	31·8	6	21·1	+1·0	19·3	12	50·8	165·6	+44·7	54·8	2	9	+2·6	7·6	5·6	—0·4	0	10	0	0	5	1	0	0	0	0

(b) Mean or Total for 29 days.

(R) Register not received.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 2 mm.)	Precipitation (0·5 mm. or more)	Snowy sleet	Hail	Thunder heard	Fog	Dust-frost	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore South—(*Contd.*)																													
Shimoga	29·3	+0·1	31·4	6	20·7	+0·6	17·7	17	48·6	251·9	+83·3	68·7	28	10	+0·8	5·5	3·1	—0·9	0	12	0	0	0	0	0	0	0	0	0
Agumbe	26·7	..	30·0	10	18·8	..	15·2	17	..	363·0	..	91·0	15	19	..	..	1·9	..	0	20	0	0	0	0	0	0	0	0	0
Balehonnur	25·8	—0·3	28·0	6,14	18·4	+0·4	16·6	17	..	367·1	+168·2	76·5	15	19	+7·6	..	..	..	0	22	0	0	1	0	0	0	0	0	0
Hassan	26·5	—1·4	28·9	5	18·7	+0·5	16·7	29,30	128·5	421·9	+267·7	74·4	7	18	+8·9	7·8	5·3	0	0	20	0	0	9	0	0	0	0	0	0
Bangalore	26·3	—1·3	29·5	5	19·7	+1·4	18·4	30	55·9	241·7	+92·6	64·4	6	15	+6·5	7·7	5·6	—1·0	1	22	0	0	4	1	0	0	0	0	0
Bangalore (Aerodrome).	27·0	..	30·4	8	19·0	..	17·4	30	101·6	230·7	..	90·0	15	17	..	..	..	..	0	23	0	0	3	3	0	0	0	0	0
Mysore	27·8	—1·2	29·8	6	20·2	+0·8	18·3	31	54·5	253·7	+104·4	63·8	11	14	+5·4	11·0	7·8	+0·4	1	20	0	0	6	0	0	0	0	0	0
Kerala																													
Calicut	29·8	—0·4	31·7	12	23·8	0	21·9	20	91·6	800·2	+539·3	204·0	26	19	+7·8	7·5	7·1	0	0	21	0	0	12	0	0	0	0	0	0
Palghat	30·7	..	33·6	11	23·2	..	21·6	20	172·4	420·6	..	82·4	11	18	..	9·5	7·3	..	0	21	0	0	13	0	0	0	0	0	0
Fort Cochin	29·0	—0·1	30·7	31	23·9	—0·2	22·8	14,17	97·2	443·9	+104·3	67·5	3	18	+3·8	9·6	7·8	+1·8	0	23	0	0	10	0	0	0	0	0	0
Cochin (Naval Air Station).	29·8	..	31·1	9	23·7	..	22·8	15,20	107·5	445·5	..	85·9	3	21	..	8·0	6·3	..	0	26	0	0	14	0	0	0	0	3	0
Alleppey	29·5	—0·4	31·0	18,31	23·7	—0·3	22·5	13	166·0	592·8	+242·9	72·8	9	20	+4·5	12·8	9·3	—0·4	0	25	0	0	9	0	0	0	0	0	0
Punalur	29·2	..	32·1	17	22·7	..	21·2	20	169·8	388·8	..	82·8	13	19	..	6·2	4·6	..	0	20	0	0	0	0	0	0	0	0	0
Trivandrum	29·2	—0·8	31·0	4	23·3	—0·1	22·4	13	174·9	373·0	+100·5	76·4	9	16	+3·8	9·4	6·6	+0·6	1	21	0	0	8	0	0	0	0	0	0
Trivandrum (Aerodrome).	29·1	..	30·9	4	23·4	..	22·3	23	..	429·7	..	106·2	9	17	..	..	5·2	..	0	21	0	0	5	0	0	0	0	0	0
Arabian Sea Islands																													
Amini**																													
Minicoy**																													
Hill Station excluding Kashmir																													
Dalhousie	22·1	+0·5	24·0	5,6,8	12·1	+0·4	6·0	24	0	16·0	—51·9	10·0	3	2	—0·4	6·0	5·4	+2·3	0	2	0	0	0	0	0	0	0	0	0
Dharmsala	24·2	0	26·2	3,4	14·9	—1·1	13·1	31	1·2	1·2	—116·3	1·2	16	0	—3·5	5·7	3·1	—1·1	0	1	0	0	0	0	0	0	0	0	0
Simla	18·0	+0·1	23·4	8	11·3	+0·5	7·9	31	1·5	1·5	—28·5	1·5	16	0	—1·9	1·3	1·1	—0·8	0	1	0	0	2	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	0	—26·4	0	..	0	—1·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Lokpal	2·9	..	6·7	1	—4·7	..	—7·4	31	..	15·4	..	15·2	12	1	..	..	..	..	0	2	5	6	0	11	0	0	0	0	0
Badrinath (R)																													
Joshimath	21·1	..	24·1	2,3,4	9·5	..	7·1	24	10·4	15·8	..	11·4	12	2	..	5·4	6·1	..	0	2	0	1	1	0	0	0	0	0	0
Mussoorie	18·6	+0·8	21·1	5	10·9	+0·2	7·9	31	0	0	—29·0	0	..	0	—2·3	11·4	8·0	+1·1	0	0	0	0	1	4	0	0	0	0	0
Mukteswar (Kumaun).	19·4	+1·1	22·9	7	9·1	—0·7	5·8	31	2·0	2·0	—45·7	2·0	15	0	—2·3	8·3	7·7	+0·1	0	1	0	0	3	2	0	0	0	0	0
Nainital	18·2	—0·3	22·3	5	8·7	—1·1	5·6	24	13·0	13·0	—292·2	11·0	31	1	—4·5	8·6	6·2	—1·1	0	2	0	0	0	0	0	0	0	0	0
Kalimpong	24·9	+2·7	29·1	2	17·2	+1·5	10·1	27	0	31·5	—95·8	31·5	6	1	—3·8	5·2	3·9	—6·4	0	1	0	0	0	0	0	0	0	0	0
Darjeeling	18·4	+0·6	23·3	1	10·5	—0·6	7·7	29	6·4	46·4	—91·0	24·2	6	4	—0·8	2·1	1·8	—0·1	0	5	0	0	3	4	0	0	0	0	0
Kohima	22·2	..	23·9	7 Days	15·8	..	11·6	31	38·0	82·8	..	44·6	31	5	..	4·8 (a)	2·0	..	0	7	0	0	0	4	0	0	0	0	0
Shillong	22·4	+0·7	25·1	9	12·4	—0·3	9·2	9	45·4	94·4	—76·3	29·4	14	5	—5·0	4·1	3·3	+1·4	1	7	0	0	0	0	0	0	0	0	0
Cherrapunji	24·9	+2·7	29·9	1	15·9	+0·1	12·9	31	102·0	209·3	—284·0	94·4	2	7	—2·3	8·5	6·0	+1·0	0	10	0	0	0	5	0	0	0	0	0
Abu	26·7	+0·5	28·0	20,29	12·5	—5·5	10·8	26	0	0	—19·3	0	..	0	—0·9	4·9	2·7	—2·3	0	0	0	0	0	0	0	0	0	0	0
Aijal	24·9	..	28·4	7	18·4	..	14·1	31	24·0	148·2	..	62·0	31	5	..	10·3	12.9	..	0	6	0	0	0	0	0	0	0	0	0
Pachmarhi	26·6	+0·3	28·7	15	12·1	—2·8	9·4	11,13	0	0	—58·4	0	..	0	—3·0	6·0	3·6	—0·1	0	0	0	0	0	0	0	0	0	0	0
Mahabaleshwar	24·2	+0·8	27·3	8	15·8	—0·5	14·0	23	47·1	109·5	—51·8	30·2	9	8	+0·1	12·6	12·1	—0·1	0	10	0	0	5	11	0	0	0	0	0
Mercara	23·9	—0·2	25·8	1	17·2	+0·3	15·0	29	142·8	339·0	+128·4	50·0	15	17	+4·1	9·7	8·6	+3.1	0	19	0	0	6	0	0	0	0	0	0
Ootacamund	18·3	+0·2	21·3	12	10·2	—0·1	8·0	30	100·8	286·0	+73·3	32·8	5	23	+9·2	..	2·3	—2·2	0	26	0		3	0	0	0	0	0	0
Coonoor (R)																													
Kodaikanal	16·6	—0·1	19·1	31	11·2	+0.5	10·2	26	112·6	317·4	+57·3	80·1	18	17	+1·7	10·1	11·3	+0·4	1	23	0	0	6	26	0	0	0	0	0
Nepal																													
Katmandu	26·6	..	29·3	2	11·8	..	8·2	25	0·5	1·3	..	0·6	4	0	..	1·3	1·0	..	0	3	0	0	1	12	0	0	0	0	0
Sikkim																													
Lachen	15·6	..	19·7	1	5·6	..	0·3	31	..	52·9	..	14·4	15	5	..	..	..	..	1	10	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	28.5	..	30.4	24	19.7	..	16.1	19	57.1	197.8	..	109.7	4	4	..	8.4	5.7	..	1	5	0	0	0	0	0	0	0	0	0
Hazaribagh	26.7	..	27.9	16	16.7	..	13.5	19	17.4	62.0	..	27.3	3	3	..	7.5	4.5	..	0	4	0	0	0	0	0	0	0	0	0

(R) Register not received.

**Data given as addenda in December 1962, issue.

(a) Mean of 30 days.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days 2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—(Contd.) Damodar Catchment—(Contd.)																														
Konar	..	..	..	..	..	..	..	..	28.9	81.6	..	43.2	3	3	..	..	..	..	0	5	0	0	2	0	0	0	0	0	
Bokaro	30.5	..	33.3	25	19.6	..	13.8	10,20	26.6	56.8	..	40.0	4	2	..	5.8	4.2	..	0	2	0	0	3	0	0	0	0	0	
Maithon	30.1	..	33.0	25	21.9	..	18.3	19	4.6	37.7	..	16.5	2	3	..	..	..	..	0	5	0	0	0	1	0	0	0	0	
Ramgarh	29.9	..	31.7	1	18.6	..	14.3	19	16.6	33.9	..	16.4	3	4	..	2.3	1.3	..	0	6	0	0	0	0	0	0	0	0	
Panchet Hills	30.8	..	32.7	8	21.6	..	18.4	19	19.3	67.2	..	23.0	4	4	..	5.1	3.0	..	0	7	0	0	0	0	0	0	0	0	
Durgapur	31.[illegible]	..	33.7	9	20.3	..	17.7	19	68.9	167.6	..	88.0	3	5	..	8.1	5.7	..	0	6	0	0	0	0	0	0	0	0	
Mahanadi Catchment																														
Ginabahar	30.4	..	33.4	7	17.4	..	11.5	12	..	20·9	..	10.2	27	2	..	..	..	..	0	4	..	..	..	..	..	..	..	..	
Hirakud	31.3	..	33.3	7	22.2	..	18.8	13	16·7	40.9	..	22.7	25	3	..	6.3	4.5	..	0	5	0	0	3	0	0	0	0	0	
Bhimkund	29.0	..	32.6	8	20.3	..	16.1	19	132.8	180.8	..	87.5	28	7	.	4·9	2.7	..	0	8	0	0	6	2	0	0	0	0	
Sonepur	31.4	..	33.6	7	21.9	..	18.7	21	..	36.8	..	26.0	28	2	..	..	2.7	..	0	5	..	..	..	..	..	..	..	..	
Khijrawan	29.9	..	32.2	7	19.5	..	15.7	15	23.1	23.1	..	10.0	26	2	..	3.7	2·6	..	0	6	0	0	0	0	0	0	0	0	
Narmada Catchment																														
Bagra Tawa	31.5	..	32.8	8,11	16.0	..	12.8	20	0	0	..	0	..	0	..	2.5	1.3	..	0	0	0	0	0	0	0	0	0	0	
Funasa	32.2	..	33.8	15	16.9	..	13.7	23	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	
Thikri	33.1	..	34.0	29	16.7	..	13.9	25	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	
Sabarmati Catchment																														
Daroi	34.4	..	35.6	11	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Gandak Catchment																														
Jomosom	19.6	..	24.6	1	3.5	..	0.8	14	0·2	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Khudi Bazar	..	..	..	..	..		..	..	23.0	142.6	..	72.0	3	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	
Timure	23.1	..	26.3	1	9.9	..	5.6	24	0.5	45.8	..	15.5	14	4	..	..	..	..	0	6	..	..	..	..	..	..	..	..	
Pokhara	27.1	..	29.6	6	15.8	..	13.0	15	52.0	108.8	..	50.2	6	4	..	4·6	4.0	..	0	5	0	0		0	0	0	0	0	
Gorkha†																													
Nuwakot	28·1	..	31·0	2	15·2	..	12·6	25	0	11·4	..	8·0	3	1	..	..	..	..	1	3	..		..	..	..	..	..	..	
Ghaghara Catchment (Trans Himalayan Region)																														
Dailekh	23·4	..	25·9	2,6	12·9	..	10·1	16	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Ghaghara Catchment																														
Dadeldhura	19·9	..	22·9	3	11·2	..	8·4	31	1·2	0	..	0	..	0	..	6·3	5·1	..	0	0	0	0	1	2	0	0	0	0	
Sallayana	24·2	..	26·6	6	13·1	..	10·5	22	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Butwal	31·2	..	32·9	27	20·6	..	17·9	31	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Baghmati Catchment																														
Katmandu*																														
Kosi Catchment																														
Chautara	24·9	..	27·8	1	14·0	..	11·6	24	33·9	79·0	..	44·9	15	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	
Chepua	..	..	..	..	..	..	..	..	10·0	65·4	..	23·2	15	6	..	..	..	..	0	11	..	..	..	..	..	..	..	..	
Walungchung Gola	14·1	..	17·6	1	3·0	..	—2·6	31	8·0	32·0	..	11·2	8	5	..	..	..	..	0	9	..	..	..	..	..	..	..	..	
Taplethok	25·2	..	29·5	1	13·5	..	9·4	31	1·6	56·8	..	22·4	7	6	..	..	..	..	0	8	..	..	..	..	..	..	..	..	
Bhojpur	22·9	..	26·8	1	14·1	..	11·6	31	7·0	29·0	..	18·0	2	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	
Taplejung	21·6	..	25·7	1	12·1	..	9·1	23	1·0	13·8	..	7·4	6	2	..	..	..	..	0	7	0	0	0	2	0	0	0	0	
Okhaldhunga	21·0	..	24·8	1	14·5	..	10·6	24	0·8	13·0	..	10·9	4	1	..	..	..	..	0	4	..	..	..	..	..	..	..	..	
Chainpur	20·8	..	25·0	27	16·2	..	14·2	17	0	8·4	..	5·8	6	1	..	..	..	..	1	4	..	..	..	..	..	..	..	..	
Angbung	26·1	..	30·2	8	(a) 15·6	..	11·9	24	0	25·2	..	17·0	5	2	..	..	..	..	1	4	..	..	..	..	..	..	..	..	
Barahakshetra	30·5	..	34·1	1	19·3	..	16·6	30	85·5	139·7	..	63·5	3	5	..	6·6	5·0	..	0	5	0	0	1	0	0	0	0	0	
Tista Catchment																														
Gangtok	23·2	..	27·0	1	(a) 12·5	..	9·3	31	9·7	51·8	..	18·6	7	4	..	5·7	4·9	..	0	8	0	0	2	6	0	0	0	0	
Gezing	25·1	..	28·9	1	12·8	..	10·1	29	2·2	68·0	..	27·5	6	7	..	..	..	..	0	8	..	..	..	..	..	..	..	..	

*Data included under Nepal. (a) Mean of 30 days. (b) Mean of 29 days. †Data not available.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Kms. p.h.): 62 or more	Wind speed (Kms. p.h.): 29 to 61	Wind speed (Kms. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W		Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bunder	0830	28	1010·8	1007·1	..	28·8	25·9	24·6	30·9	78	..	5·2	..	4·6	0	2	14	0	6	2	5	0	1	2	0	15	0
	1730	,,	1008·2	1005·0	..	26·8	25·0	24·2	30·2	85	..	5·1	..	2·9	0	0	13	0	3	1	6	0	2	1	0	18	0
Long Island	0830	25	1010·6	1007·8	..	28·9	26·3	25·3	32·2	81	..	5·6	..	1·8	0	0	8	0	0	3	3	2	0	0	0	23	0
	1730	,,	1008·1	1005·3	..	26·4	25·1	24·5	30·7	88	..	5·7	..	0·9	0	0	5	0	0	2	2	0	0	0	1	26	0
Port Blair	0530	79	1009·3	1000·4	..	24·5	24·0	23·7	29·3	95	..	5·7	..	6·3	0	3	15	0	0	5	2	5	3	3	0	13	0
	0830	,,	1011·1	1002·2	+0·1	28·4	25·8	24·7	31·1	80	−1	6·1	+0·9	10·0	0	3	25	0	2	10	4	7	1	3	1	3	0
	1130	,,	1009·3	1000·5	..	29·0	26·1	24·7	31·1	78	..	6·3	..	10·3	0	3	27	0	4	9	8	7	0	2	0	1	0
	1730	,,	1008·6	999·7	..	26·4	24·7	24·1	30·0	87	..	6·4	..	6·0	0	0	19	0	2	5	1	3	5	2	1	12	0
	2330	,,	1010·0	1001·1	..	25·1	24·3	23·8	29·5	93	..	5·4	..	5·6	0	0	15	1	1	6	2	2	2	1	0	16	0
Car Nicobar	0830	10	1010·9	1009·7	..	28·4	25·7	24·6	30·9	80	..	5·9	..	3·9	0	0	28	0	2	6	9	2	8	0	1	3	0
	1730	,,	1008·5	1007·3	..	26·5	25·0	24·3	30·2	88	..	5·3	..	0·6	0	0	6	0	0	2	1	0	1	2	0	25	0
Nancowry	0830	26	1011·1	1008·2	..	27·7	25·5	24·5	30·7	83	..	5·2	..	1·5	0	0	11	0	0	0	0	4	6	0	1	20	0
	1730	,,	1008·6	1005·7	..	26·2	24·7	24·0	29·8	88	..	4·8	..	0·7	0	0	5	0	0	0	0	0	4	1	0	26	0
Kondul	0830	8	..	..	..	27·3	25·3	24·4	30·5	85	..	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	25·7	24·7	24·2	30·2	91	..	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1013·1	995·2	..	24·1	20·1	17·7	20·2	67	..	3·1	..	17.9	0	0	29	1	0	0	0	0	1	0	27	2	0
	1730	,,	1008·8	991·0	..	23·7	21·8	20·8	24·7	84	..	2·1	..	1·0	0	0	6	1	0	0	0	0	0	0	5	25	0
Dibrugarh (Mohanbari)	0230	111	1010·2	997·4	..	20·2	19·7	19·5	22·7	95	..	3·0	..	0.3	0	0	2	0	1	0	1	0	0	0	0	29	0
	0530	,,	1011·2	998·5	..	19·7	19·0	18·5	21·3	94	..	4·0	..	0·4	0	0	3	0	1	1	0	0	1	0	0	28	0
	0830	,,	1012·8	1000·1	−0·3	24·9	22·0	20·5	24·1	76	−8	4·0	−0·2	4·0	0	0	28	2	19	5	0	0	0	1	1	3	0
	1130	,,	1010·7	998·3	..	28·3	22·7	19·8	23·1	61	..	3·8	..	4·6	0	0	25	5	11	5	1	0	0	2	0	6	1
	1730	,,	1008·5	995·9	..	25·2	22·8	21·6	25·8	81	..	2·7	..	0·3	0	0	2	0	1	0	0	0	0	1	0	29	0
	2330	,,	1010·7	997·9	..	20·9	20·2	19·9	23·2	94	..	3·1	..	0·5	0	0	3	0	2	1	0	0	0	0	0	28	0
Digboi	0830	152	1012·5	995·2	..	25·7	22·8	21·3	25·3	77	..	1·9 (c)	..	3·4 (c)	0	0	23	5	6	1	0	0	1	3	7	8	0
	1730	,,	1007·6	990·4	..	26·7	23·6	22·1	26·6	76	..	1·1	..	0·7	0	0	5	0	1	0	0	1	3	0	0	23	0
North Lakhimpur	0830	102	1013·1	1001·4	+0·3	25·3	22·1	20·4	24·0	75	−8	3·8	−1·4	2·5	0	0	27	5	3	4	8	2	3	2	0	4	0
	1130	,,	1010·9	999·4	..	28·6	23·2	20·4	24·0	62	..	3·5	..	3·5	0	0	31	2	6	5	9	9	0	0	0	0	0
	1730	,,	1008·9	997·3	..	25·5	23·2	22·1	26·6	81	..	3·0	..	1·5	0	0	18	5	0	2	3	1	4	0	3	13	0
Sibsagar	0830	97	1013·3	1002·3	+0·6	25·6	23·4	22·3	26·9	83	−5	4·2	−1·7	2·0	0	0	19	1	5	1	5	1	6	0	0	12	0
	1730	,,	1009·0	998·1	..	27·4	24·7	23·5	28·9	80	..	3·5	..	0·6	0	0	5	0	3	0	1	0	0	0	1	26	0
Gohpur	0830	..	..	..	..	24·5	22·9	22·1	26·6	86	..	1·2	..	6·0	0	0	31	1	8	0	15	2	2	1	2	0	0
	1730	..	..	..	..	27·1	25·0	24·1	30 0	83	..	1·1	..	6·0	0	0	31	0	2	0	7	4	11	0	7	0	0
Majbat	0830	..	..	..	..	26·9	22·4	20·1	23·5	66	..	2.1	..	3·6	0	0	26	0	2	20	2	0	1	1	0	5	0
	1730	..	..	..	..	26·3	23·5	22·1	26·6	77	..	1·7	..	0·4	0	0	5	1	1	1	0	0	0	2	0	26	0
Jorhat (Aerodrome)	0530	90	1010·6	1000·3	..	21·3	20·9	20·7	24·4	97	..	5·0	..	3·0	0	1	5	0	2	1	0	0	2	1	0	25	0
	0830	,,	1012·4	1002·1	..	25·5	23·2	22·1	26·6	81	..	4·5	..	4·5	0	0	22	2	12	1	0	0	4	3	0	9	0
	1130	,,	1010·5	1000·3	..	28·6	24·3	22·3	26·9	69	..	4·3	..	6·9	0	0	27	3	15	2	0	0	0	5	2	4	0
	1730	,,	2007·9	997·5	..	25·9	23·7	22·7	27·6	82	..	3·0	..	1·1	0	0	4	0	2	0	0	0	1	1	0	27	0
	2330	,,	1010·3	1000·0	..	22·5	21·9	21·6	25·8	97	..	3·4	..	0·8	0	0	3	0	1	1	0	0	0	1	0	28	0
Tangla	0830	78	1011·8	1003·1	..	25·8	22·7	21·1	25·0	75	..	1·6	..	0·6	0	0	4	0	0	3	0	0	1	0	0	27	0
	1730	,,	1007.0	988·4	..	27·4	24·5	23·1	28·3	78	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tezpur	0830	79	1013·3	1004·3	+0·1	24·3	22·3	21·3	25·3	83	+1	3·3	−0·4	4·1	0	0	27	1	16	3	1	1	4	0	0	5	0
	1730	,,	1008·9	999·9	..	30·6	21·2	21·7	25·9	77	..	2·4	..	1·3	0	0	11	0	8	0	0	0	2	1	0	20	0
Golaghat*	0830	..	..	..	..	25·5	22·8	21·5	25·6	79	..	4·4	..	0·1	0	0	1	0	0	0	1	0	0	0	0	20	0
	†1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangia	0830	..	..	..	..	26·4	22·8	21·0	24·9	71	..	2·5	..	3·7	0	0	29	0	0	24	1	0	1	2	1	2	0
	1730	..	..	..	..	27·8	23·9	22·1	26·6	70	..	1·9	..	1·5	0	0	15	0	2	6	1	1	0	3	2	16	0
Chaparmukh	0830	66	1013·4	1005·9	..	26·3	23·3	21·9	26·3	77	..	3·2	..	3·2	0	0	31	2	1	18	1	3	1	5	0	0	0
	1730	,,	1008.2	1000·7	..	28·4	24·0	22·8	27·7	71	..	2·4	..	3·1	0	0	31	3	0	17	1	1	0	8	1	0	0

† Data not available

(c)—Mean of 28 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Goalpara	0830	38	1013·4	1009·1	..	25·5	23·1	21·9	26·3	82	..	2·8	..	1·4	0	0	22	2	15	0	4	1	0	0	0	9	0
	1730	,,	1007·8	1003·5	..	29·4	26·9	25·9	33·4	83	..	1·3	..	1·3	0	0	22	1	11	0	2	1	3	0	4	9	0
Gauhati	0830	55	..	..	..	25·8	23·1	21·7	25·9	79	−4	3·0	−1·2	0·3	0	0	3	0	2	0	0	0	0	0	1	28	0
Gauhati (Bhorjor)	0230	54	1009·9	1003·7	..	22·2	21·5	21·1	25·0	93	..	2·4	..	0·8	0	0	3	0	0	2	0	0	1	0	0	28	0
	0530	,,	1010·8	1004·5	..	21·5	21·0	20·7	24·4	95	..	4·0	..	1·4	0	0	8	0	3	0	0	2	2	0	1	23	0
	0830	,,	1012·6	1006·4	+0·2	26·0	23·4	22·1	26·6	80	+2	3·8	−0·4	5·0	0	0	23	5	9	4	1	0	1	1	2	8	0
	1130	,,	1010·7	1004·6	..	28·6	24·1	21·9	26·3	68	..	4·0	..	7·2	0	0	28	9	11	2	0	1	0	1	4	3	0
	1730	,,	1008·5	1002·2	..	26·6	23·9	22·7	27·6	79	..	3·3	..	2·0	0	0	8	1	3	1	0	1	2	0	0	23	0
	2330	,,	1010·6	1004·4	..	22·9	22·1	21·7	25·9	93	..	2·9	..	1·7	0	0	9	1	0	1	0	3	2	1	1	22	0
Dhubri (Rupsi)	0530	36	1009·9	1005·8	..	20·8	20·1	19·7	22·9	93	..	3·1	..	2·3	0	0	16	0	11	3	2	0	0	0	0	15	0
	0830	,,	1011·7	1007·5	..	25·9	22·8	21·3	25·3	76	..	2·8	..	5·9	0	0	29	0	16	5	6	0	1	1	0	2	0
	1130	,,	1010·1	1006·1	..	28·9	23·7	21·1	25·1	64	..	3·4	..	7·2	0	0	29	1	8	10	6	0	3	0	1	2	0
	1730	,,	1007·8	1003·7	..	26·1	23·8	22·7	27·6	82	..	2·5	..	1·3	0	0	10	1	2	1	2	1	1	1	1	21	0
Dhubri	0830	35	1013·0	1009·0	+0·7	25·9	23·3	22·0	26·4	79	−3	1·9	−1·1	3·1 (e)	0	0	17	0	11	3	0	2	1	0	0	9	0
	1730	,,	1008·9	1004·9	..	27·1	24·3	23·0	28·1	77	..	2·1	..	0·6 (e)	0	0	3	1	1	0	0	1	0	0	0	23	0
Lumding	0830	149	1013·0	996·0	..	25·1	22·9	21·8	26·1	82	−5	3·8	..	0·0	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	,,	1008·0	991·4	..	28·0	24·3	22·5	27·3	73	..	2·6	..	0·0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tura	0830	370	1013·1	971·1	..	22·9	20·7	19·6	22·8	81	..	3·4	..	3·0	0	0	21	0	3	10	4	1	1	1	1	10	0
	1730	,,	1009·3	967·9	..	26·2	23·0	21·6	25·8	75	..	4·4	..	2·7	0	0	25	1	4	3	2	1	8	1	5	6	0
Haflong	0830	682	1011·9	936·3	..	22·3	20·3	19·4	22·5	83	..	4·2	..	6·5	0	0	31	0	0	0	0	2	29	0	0	0	0
	1730	,,	1007·8	932·8	..	23·4	21·2	20·1	23·5	82	..	3·1	..	8·4	0	0	31	2	0	0	0	3	26	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1009·5	998·4	..	21·9	21·2	20·9	24·7	94	..	4·0	..	3·4	0	0	28	1	4	22	0	0	0	1	0	3	0
	0830	,,	1010·9	999·9	..	25·6	22·9	21·5	25·6	79	..	3·9	..	3·9	0	0	28	1	1	18	4	3	0	0	1	3	0
	1130	,,	1008·9	998·1	..	28·6	24·2	22·1	26·6	69	..	3·7	..	2·2	0	0	20	0	0	3	1	4	4	6	2	11	0
	1730	,,	1006·9	996·0	..	26·9	24·2	22·9	27·9	79	..	3·2	..	2·1	0	0	18	0	0	4	0	0	2	11	1	13	0
Silchar	0830	29	1012·4	1009·0	−0·1	26·2	24·0	23·0	28·1	82	0	4·6	+0·6	0·9	0	0	9	1	2	2	2	2	0	0	0	22	0
	1730	,,	1008·5	1005·2	..	27·9	25·1	23·8	29·5	79	..	2·5	..	0·4	0	0	4	0	0	0	0	0	1	2	1	27	0
Imphal (Tulihal)	0530	761	1012·8	925·4	..	17·7	17·4	17·3	19·7	97	..	6·0	..	1·3	0	0	10	2	3	1	0	1	0	2	1	21	0
	0830	,,	1013·1	926·9	0	22·3	19·9	18·6	21·4	80	0	5·7	+0·4	3·2	0	0	23	5	4	1	3	5	1	1	3	8	0
	1130	,,	1010·0	925·2	..	26·0	20·6	17·7	20·2	61	..	5·1	..	6·4	0	0	29	0	2	0	0	5	13	8	1	2	0
	1730	,,	1008·6	923·2	..	23·0	20·1	18·5	21·3	77	..	4·9	..	6·9	0	0	30	1	1	0	2	6	5	7	8	1	0
	2330	,,	1012·0	925·1	..	19·1	18·5	18·2	20·9	93	..	5·1	..	4·3	0	0	24	3	6	1	1	2	2	1	8	7	0
Kailashahar	0530	29	1011·3	1008·0	..	22·6	22·3	22·1	26·6	97	..	4·9	..	1·2	0	0	9	0	0	0	1	8	0	0	0	22	0
	0830	,,	1012·8	1009·5	..	26·1	24·2	23·3	28·6	85	..	4·1	..	2·7	0	0	16	1	4	0	0	6	4	0	1	15	0
	1130	,,	1010·8	1007·6	..	29·4	24·9	22·9	27·9	68	..	4·2	..	4·0	0	0	28	4	8	4	1	5	2	1	3	3	0
	1730	,,	1009·1	1005·9	..	27·5	25·0	23·9	29·7	82	..	4·0	..	1·2	0	0	7	0	1	0	0	2	0	1	3	24	0
Agartala	0230	16	1009·0	1007·2	..	22·7	22·3	22·1	26·6	96	..	3·2	..	1·2	0	0	6	0	2	2	1	1	0	0	0	25	0
	0530	,,	1009·7	1007·9	..	22·3	21·9	21·7	25·9	96	..	4·5	..	2·1	0	0	10	0	3	2	3	2	0	0	0	21	0
	0830	,,	1011·4	1009·6	+0·4	27·1	24·3	23·0	28·1	79	−2	4·2	−0·4	4·5	0	0	18	0	6	2	3	2	1	1	3	13	0
	1130	,,	1009·9	1008·1	..	29·4	24·5	22·1	26·6	65	..	5·1	..	8·0	0	0	25	8	3	5	1	1	1	2	4	6	0
	1730	,,	1008·0	1006·2	..	27·1	24·2	22·9	27·9	78	..	4·3	..	2·5	0	1	11	3	1	1	0	2	1	2	2	19	0
	2330	,,	1009·7	1007·9	..	23·3	22·6	22·3	26·9	94	..	3·1	..	1·5	0	0	5	1	0	1	1	2	0	0	0	26	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1009·9	994·9	..	21·9	20·8	20·2	23·7	89	..	2·2	..	3·3	0	0	21	19	0	1	0	0	0	1	0	10	0
	0530	,,	1010·5	995·4	..	19·7	19·0	18·5	21·3	93	..	2·5	..	3·0	0	0	20	15	0	3	1	0	1	0	0	11	0
	0830	,,	1012·2	997·3	+0·7	25·4	21·8	19·9	23·2	71	−6	3·2	−0·5	4·5	0	0	26	5	1	14	4	0	2	0	0	5	0
	1130	,,	1010·8	996·1	..	29·0	22·9	19·7	22·9	58	..	3·3	..	6·5	0	4	30	0	0	7	7	7	7	2	0	1	0
	1730	,,	1008·4	993·6	..	25·3	23·1	21·9	26·3	82	..	2·9	..	2·8	0	0	17	2	1	3	1	0	3	7	0	14	0
	2330	,,	1010·6	995·7	..	22·8	21·5	20·9	24·7	88	..	2·7	..	3·9	0	0	22	18	0	1	0	0	0	2	1	9	0
Jalpaiguri	0830	83	1012·3	1002·8	+0·2	23·8	21·3	19·9	23·2	79	−4	2·2	−0·1	3·5	0	0	26	7	4	2	0	0	2	2	9	5	0
	1730	,,	1008·2	998·9	..	27·4	23·2	21·1	25·0	69	..	1·6	..	3·1	0	0	24	1	1	4	3	1	10	4	0	7	0
Cooch Behar	0830	,,	1012·3	1007·5	..	25·8	22·2	20·3	23·8	72	..	3·6	..	6·1	0	0	30	0	18	10	1	0	0	1	0	1	3
	1130	,,	1010·8	1006·0	..	28·6	23·5	21·1	25·0	64	..	3·9	..	8·3	0	1	29	1	12	9	1	1	1	1	1	1	0
	1730	,,	1008·5	1003·7	..	25·8	23·2	21·9	26·3	79	..	2·9	..	0·5	0	0	5	0	1	3	0	0	1	0	0	26	0
Balurghat	0830	26	1010·8	1007·9	..	26·8	23·5	21·9	26·3	74	..	2·5	..	3·3	0	0	29	6	10	3	3	3	2	1	1	2	0
	1730	,,	1007·5	1004·6	..	28·0	24·2	22·4	27·1	71	..	2·1	..	0·6	0	0	6	0	1	1	1	1	2	0	0	25	0

(e) Mean of 26 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed K. M.p.h.: 62 or more	Wind speed K. M.p.h.: 20 to 61	Wind speed K. M.p.h.: 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*Contd.*)																											
Malda	0830	31	1012.0	1008·5	+0·4	26·6	23·0	21·2	25·2	73	—2	2·9	+1·1	6·1	0	0	29	7	5	2	3	2	1	3	6	2	0
	1730	,,	1008.6	1005·1	..	28·1	23·3	21·0	24·	65	..	2·4	..	2·5	0	0	19	3	1	3	1	2	2	3	4	12	0
Gangetic West Bengal																											
Berhampore	0830	19	1011·7	1009·5	0	26·5	23·1	21·2	25·2	69	—9	3·0	+0·1	0·5	0	0	3	0	0	2	0	1	0	0	0	28	0
	1730	,,	1008·3	1006·1	..	27·7	23·2	21·0	24·9	67	..	2·5	..	0·2	0	0	2	0	0	2	0	0	0	0	0	29	0
Suri	0830	77	..	..	..	25·7	22·3	20·5	24·1	73	..	2·6	..	5·2	0	0	30	5	3	4	2	1	3	5	7	1	0
Asansol	0230	126	1009·9	995·5	..	22·4	21·2	20·6	24·3	89	..	2·8	..	2·3	0	1	8	1	0	1	1	0	1	3	2	22	0
	0530	,,	1010·6	996·1	..	21·5	20·6	20·1	23·5	91	..	3·2	..	3·6	0	1	14	0	1	1	1	1	0	5	6	16	0
	0830	,,	1012·2	997·9	+0·6	25·8	22·5	21·0	24·9	74	—2	2·6	—0·3	6·1	0	0	28	4	3	2	3	0	0	6	10	3	0
	1130	,,	1011·1	996·9	..	29·0	22·8	19·5	22·7	57	..	3·3	..	6·5	0	0	29	4	6	2	3	1	0	2	11	2	0
	1730	,,	1008·7	994·5	..	26·9	22·9	21·0	24·9	69	..	2·9	..	2·0	0	0	11	1	1	0	4	0	1	3	1	20	0
	2330	,,	1010·7	996·3	..	23·1	21·6	20·9	24·7	88	..	2·5	..	1·8	0	0	10	2	0	1	1	1	0	2	3	21	0
Shanti Niketan	0830	59	1012·4	1005·7	..	25·7	22·7	21·2	25·2	76	.	3·0	..	6·6	0	0	28	3	3	1	2	1	1	5	7	3	0
	1130	,,	1011·3	1004·7	..	28·5	22·8	19·8	23·1	60		3·3	..	5·7	0	0	29	12	7	1	1	1	1	3	3	2	0
	1730	,,	1008·9	1002·3	..	26·4	23·3	21·7	25·9	76	..	3·1	..	2·6	0	0	14	3	2	1	0	3	1	2	2	17	0
Krishnanagar	0830	15	1012·4	1010·8	+0·9	26·8	23·9	22·4	27·1	76	+3	2·2	—0·7	1·4	0	0	16	10	0	0	0	6	0	0	0	15	0
	1730	,,	1008·6	1007·0	..	27·7	23·7	22·0	26·4	71	..	2·3	..	0·3	0	0	3	0	0	0	0	3	0	0	0	28	0
Purulia	0830	255	1012·7	984·0	+1·4	24·5	20·9	18·9	21·8	71	—3	2·8	—0·4	4·5	0	0	27	0	3	0	1	1	3	0	19	4	0
	1730	,,	1009·0	980·6	..	26·9	21·7	18·8	21·7	62	..	3·8	..	1·9	0	0	14	0	2	0	8	0	0	1	3	17	0
Bankura	0830	100	1012·3	1001·0	..	26·4	22·2	20·0	23·4	69	..	2·4	..	1·7	0	0	8	0	6	0	0	0	2	0	0	23	0
	1730	,,	1008·8	997·4	..	27·7	23·1	20·7	24·4	67	..	(a) 2·8	..	(a) 0·4	0	0	7	0	2	2	0	0	2	0	0	26	0
Burdwan	0830	32	1011·3	1007·7	—0·2	27·5	23·6	21·7	25·9	71	—6	1·8	—1·2	6·1	0	0	26	12	5	5	0	2	0	1	1	5	0
	1730	,,	1008·5	1004·8	..	27·9	24·2	22·5	27·3	73	..	2·2	..	3·4	0	0	16	4	2	4	0	4	0	1	1	15	0
Barrackpore(Aerodrome)	0530	7	1010·2	1009·4	..	23·2	22·8	22·6	27·4	96	..	3·7	..	3·6	0	0	16	5	4	2	1	0	0	2	2	15	0
	0830	,,	1012·1	1011·3	+0·7	26·7	24·6	23·7	29·3	84	+4	4·0	—0·2	7·2	0	0	27	6	7	5	2	0	2	2	3	4	0
	1130	,,	1010·9	1010·1	..	29·2	26·3	25·0	31·7	79	..	4·7	..	8·3	0	0	30	3	6	7	2	0	2	3	7	1	0
	1730	,,	1008·7	1007·9	..	26·7	25·5	25·0	31·7	88	..	3·8	..	3·9	0	0	2	0	1	3	1	1	2	3	11	9	0
	2330	,,	1010·8	1010·0	..	24·1	23·5	23·2	28·4	95	..	2·8	..	1·8	0	0	3	0	2	0	0	1	2	3	0	23	0
Calcutta(Dum Dum)	0230	6	1009·3	1008·5	..	23·8	23·0	22·6	27·4	92	..	3·7	..	2·6	0	0	13	4	5	0	2	1	0	1	0	18	0
	0530	,,	1009·9	1009·2	..	23·2	22·4	22·0	26·4	93	..	4·2	..	2·6	0	0	16	8	6	0	1	1	0	0	0	15	0
	0830	,,	1011·7	1010·9	+0·4	26·8	23·4	21·7	25·9	75	—2	3·8	—0·1	7·0	0	0	28	12	7	2	1	1	2	0	3	3	0
	1130	,,	1010·4	1009·7	..	29·5	23·7	20·9	24·7	61	..	4·5	..	8·5	0	0	30	14	3	4	4	1	1	2	1	1	0
	1730	,,	1008·4	1007·7	..	26·9	23·9	22·2	26·7	74	..	4·4	..	2·8	0	0	12	5	0	1	2	2	0	1	1	19	0
	2330	,,	1010·2	1009·5	..	24·4	23·3	22·7	27·6	90	..	3·0	..	2·2	0	0	3	0	2	0	1	2	1	0	2	23	0
Calcutta	0830	6	1011·4	1010·7	0	27·0	23·2	21·3	25·3	72	—10	3·9	+0·9	5·2	0	0	29	9	7	5	2	1	1	2	2	2	0
	1130	,,	1010·2	1009·5	..	29·6	23·8	20·9	24·7	61	..	4·5	..	4·5	0	0	30	8	3	7	1	0	3	2	6	1	0
	1730	,,	1008·3	1007·6	..	27·7	23·2	21·0	24·9	68	..	4·5	..	4·1	0	0	29	3	3	3	2	6	0	4	8	2	0
Midnapore	0830	45	1012·0	1006·7	+0·5	25·8	22·8	21·3	25·3	77	+2	3·3	+0·7	3·9	0	0	28	11	8	4	0	2	2	0	1	3	0
	1730	,,	1008·7	1003·5	..	27·7	23·4	21·3	25·3	69	..	3·0	..	1·3	0	0	16	4	6	1	1	3	1	0	0	15	0
Contai	0830	11	1011·2	1010·0	+1·0	27·0	24·3	23·2	28·4	80	—2	3·6	0	2·1	0	0	26	20	1	1	0	2	2	0	0	5	0
	1730	,,	1008·2	1007·0	..	27·3	24·3	23·0	28·1	77	..	3·2	..	1·2	0	0	13	0	1	1	1	6	0	3	1	18	0
Sagar Island	0830	3	1011·1	1010·8	0	26·8	24·4	23·3	28·6	81	+3	4·8	+0·7	12·6	0	2	27	8	11	2	2	1	2	1	2	2	0
	1730	,,	1008·3	1008·0	..	27·1	24·3	23·0	28·1	79	..	4·6	..	10·5	0	4	25	9	5	2	1	4	3	0	5	2	0
Diamond Harbour	0530	10	1008·8	1007·7	..	27·4	24·8	23·6	29·1	80	..	4·9	..	11·8	0	1	29	4	13	4	1	2	2	1	3	1	0
	0830	,,	1010·8	1009·7	—0·7	28·0	24·9	23·7	29·3	77	+5	4·9	+1·4	13·5	0	3	28	8	12	1	1	1	3	2	3	0	0
	1130	,,	1010·0	1008·9	..	28·3	25·0	23·5	28·9	75	..	4·5	..	15·5	0	4	27	12	7	3	0	1	3	3	2	0	0
	1730	,,	1008·3	1007·2	..	28·3	24·8	23·1	28·3	74	..	4·7	..	11·2	0	2	27	6	7	6	1	2	2	3	2	2	0
	2330	,,	1009·8	1008·7	..	27·7	24·8	23·4	28·8	78	..	0·5	..	10·3	0	2	25	5	4	2	4	3	3	4	2	4	0
Orissa																											
Baripada	0830	54	1012·9	1006·8	..	25·7	22·7	21·1	25·0	77	..	4·8	..	3·8	0	0	26	11	7	0	0	0	0	2	6	4	1
	1730	,,	1009·8	1003·6	..	26·2	23·5	22·3	26·9	79	..	4·0	..	0·6	0	0	5	0	1	0	1	1	0	0	1	26	1
Jharsuguda	0230	230	1009·7	983·5	..	21·5	20·2	19·5	22·7	88	..	2·2	..	2·6	0	0	14	6	7	1	0	0	0	0	0	17	0
	0530	,,	1010·3	983·9	..	20·6	19·6	19·1	22·1	90	..	3·1	..	4·8	0	0	22	12	8	0	0	0	2	0	0	9	0
	0830	,,	1012·1	986·0	+1·2	24·7	21·0	18·9	21·8	70	—7	3·3	—0·6	8·4	0	0	29	7	18	0	0	0	0	2	2	2	0
	1130	,,	1010·8	985·1	..	28·5	21·4	17·3	19·7	51	..	3·6	..	11·2	0	2	29	5	15	2	3	0	0	3	3	0	0

(a) Mean of 30 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd*)																											
Jharsuguda—(*Contd*)	1730	230	1008·2	982·6	..	26·8	22·0	18·8	21·7	61	..	4·2	..	5·7	0	0	21	4	7	2	2	2	2	1	1	10	[illegible]
	2330	,	1010·3	984·2	..	22·6	21·1	20·3	23·8	86	..	2·5	..	3·6	0	0	18	3	9	1	3	0	0	0	2	13	[illegible]
Keonjhargarh	0830	463	1009·5	957·9	..	23·7	20·6	19·0	22·0	75	..	4·3	..	3·1	0	0	28	16	4	0	0	0	0	2	6	3	[illegible]
	1730	,,	1006·1	955·0	..	25·4	21·4	19·4	22·5	71	..	4·7	..	2·8	0	0	28	7	7	2	5	1	0	4	2	3	[illegible]
Balasore	0830	20	1011·6	1009·3	+0·3	25·6	23·3	22·1	26·6	82	+4	4·7	+1·6	6·4	0	0	31	17	4	1	0	2	3	0	4	0	[illegible]
	1730	,,	1008·6	1006·3	..	27·0	24·1	22·7	27·6	79	..	4·9	..	2·5	0	2	25	7	3	3	5	2	3	0	2	6	[illegible]
Sambalpur	0830	148	1011·9	995·1	+0·2	26·1	22·5	20·7	24·4	72	−4	2·4	−0·3	1·5	0	0	13	5	4	2	0	0	1	0	1	18	[illegible]
	1730	,,	1008·3	991·8	..	27·6	23·9	22·3	26·9	73	..	3·3	..	0·5	0	0	5	1	3	0	0	0	1	0	0	26	[illegible]
Angul	0830	139	1012·1	996·3	+0·8	25·4	22·5	21·2	25·2	78	+1	5·2	+1·7	3·2	0	0	26	3	4	2	1	2	3	7	1	5	[illegible]
	1730	,,	1008·7	993·1	..	26·9	23·0	21·0	24·9	69	..	5·1	..	3·2	0	0	24	2	5	2	7	3	2	2	1	7	[illegible]
Cuttack	0830	27	1011·7	1008·7	+0·3	26·7	24·0	22·7	27·6	79	+1	4·5	+1·3	4·5	0	1	14	0	6	3	0	1	0	2	3	16	[illegible]
	1730	,,	1009·0	1005·9	..	27·8	24·3	22·5	27·3	73	..	5·3	..	2·8	0	0	10	0	1	2	3	1	1	1	1	21	[illegible]
Chandbali	0830	6	1010·6	1009·9	−0·6	26·6	24·5	23·5	28·9	83	+2	4·6	+1·2	3·4	0	1	22	9	3	4	0	3	0	1	3	8	[illegible]
	1730	,,	1008·1	1007·4	..	27·3	24·2	22·7	27·6	78	..	4·3	..	2·1	0	0	18	5	2	5	3	1	0	0	2	13	[illegible]
Bolangir	0830	190	1012·5	990·9	..	24·8	22·2	20·8	24·6	79	..	3·9	..	3·3	0	0	31	10	11	0	1	2	1	1	5	0	[illegible]
	1730	,,	1008·2	987·0	..	28·2	22·9	20·3	23·8	63	..	4·3	..	2·9	0	0	31	12	9	0	0	0	0	4	6	0	[illegible]
Phulbani	0830	464	1009·7	958·0	..	23·2	21·3	20·2	23·8	84	..	4·0	.	0	0	0	0	0	0	0	0	0	0	0	0	31	[illegible]
	1730	,,	1006·7	955·5	..	25·8	22·5	20·8	24·6	75	..	3·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	[illegible]
Titlagarh	0830	211	1012·3	988·5	..	26·1	25·0	24·5	30·7	91	..	..	..	3·0	0	0	31	5	14	2	1	2	2	1	4	0	[illegible]
	1730	,,	1008·4	984·9	..	28·6	28·0	27·8	37·4	96	..	..	..	3·0	0	0	31	8	13	2	2	0	1	0	5	0	[illegible]
Bhubaneswar	0230	46	1009·1	1003·8	..	24·2	23·1	22·7	27·6	91	..	3·3	..	6·6	0	1	21	8	5	1	0	1	2	1	4	9	[illegible]
	0530	,,	1009·6	1004·3	..	23·7	22·8	22·4	27·1	93	..	5·3	..	6·2	0	1	19	11	4	0	0	1	1	0	3	11	[illegible]
	0830	,,	1011·4	1006·3	+0·9	26·2	23·6	22·3	26·9	80	0	5·1	+0·4	10·1	0	3	26	11	9	1	1	0	3	0	4	2	[illegible]
	1130	,,	1010·7	1005·4	..	28·7	24·3	22·3	26·9	68	..	5·5	..	12·8	0	3	28	4	16	3	0	2	3	2	0	0	[illegible]
	1730	,,	1008·8	1003·6	..	26·4	23·9	22·6	27·4	79	..	5·9	..	7·9	0	1	25	2	7	5	3	6	1	2	0	5	[illegible]
	2330	,,	1010·2	1005·0	..	24·7	23·5	23·0	28·1	90	..	3·9	..	5·0	0	2	15	4	7	1	0	1	2	1	1	14	[illegible]
Puri	0830	6	1011·2	1010·5	+0·2	26·9	24·3	23·2	28·4	80	+3	5·2	+2·2	9·3	0	0	31	13	8	0	1	1	6	0	2	0	[illegible]
	1730	,,	1008·8	1008·1	..	27·5	24·4	23·0	28·1	78	..	5·2	..	9·4	0	1	29	4	11	5	2	5	3	0	0	1	[illegible]
Gopalpur	0530	17	1009·6	1007·7	..	24·2	23·5	23·1	28·3	94	..	6·5	..	5·4	0	1	28	11	3	0	0	0	0	3	12	2	[illegible]
	0830	,,	1011·6	1009·7	+0·6	26·4	24·4	23·5	28·9	85	+7	6·1	+3·3	6·5	0	0	31	15	1	1	0	2	0	0	12	0	[illegible]
	1130	,,	1010·6	1008·7	..	28·8	25·0	23·3	28·6	74	..	6·1	..	7·9	0	0	30	8	7	2	6	3	0	0	4	1	[illegible]
	1730	,,	1008·7	1006·8	..	27·3	24·5	23·2	28·4	79	..	6·1	..	8·1	0	3	26	6	9	4	2	6	2	0	0	2	[illegible]
	2330	,,	1010·2	1008·3	..	25·3	24·1	23·5	28·9	90	..	5·0	..	6·1	0	1	29	12	1	0	0	3	2	1	11	1	[illegible]
Koraput	0830	913	1509·4	910·8	+0·1	21·6	19·3	18·1	20·8	81	0	3·9	+0·2	5·0	0	0	31	6	9	10	0	1	5	0	0	0	[illegible]
	1730	,,	1491·4	908·7	..	22·5	19·6	18·0	20·6	76	..	(a) 5·3	..	5·3	0	0	31	12	9	3	1	3	3	0	0	0	[illegible]
Bihar Plateau																											
Dumka	0830	149	1012·4	995·4	+0·5	25·5	22·0	20·1	23·5	71	−1	1·9	−0·2	(b) 2·1	0	0	14	1	1	1	0	3	1	6	1	9	[illegible]
	1730	,,	1008.6	991·8	..	27·3	22·7	20·0	23·4	63	..	2·3	..	(h) 0·8	0	0	6	0	0	1	2	0	0	3	0	17	[illegible]
Daltonganj	0830	221	1012·1	987·0	+0·2	24·2	20·1	17·8	20·4	67	−9	2·7	+0·9	0	0	0	0	0	0	0	0	0	0	0	0	31	[illegible]
	1730	,,	1008·1	983·4	..	27·3	20·9	17·2	19·6	54	..	3·0	..	0·1	0	0	1	0	0	0	0	0	0	0	1	30	[illegible]
Hazaribagh	0830	611	1012·3	944·3	+0·3	22·7	18·4	15·9	18·1	66	+1	2·3	−0·2	7·0	0	0	27	4	7	3	1	1	2	3	6	4	[illegible]
	1730	,,	1009·1	941·5	..	23·6	19·2	16·7	19·0	65	..	2·7	..	7·0	0	0	24	5	3	1	1	0	0	1	13	7	[illegible]
Dhanbad	0830	257	1012·1	983·0	..	25·0	20·5	18·0	20·6	65	..	2·2	..	5·9	0	1	29	1	2	1	1	1	1	5	2	1	[illegible]
	1730	,,	1008·4	979·6	..	26·8	21·3	18·5	21·3	61	..	2·5	..	2·8	0	0	21	0	1	0	0	1	1	4	4	10	[illegible]
Ranchi	0830	655	1010·2	937·8	−0·9	23·2	18·6	15·9	18·1	65	−1	2·5	−0·3	2·4	0	0	22	7	5	4	1	1	2	0	2	9	[illegible]
	1730	,,	1006·8	935·0	..	24·7	20·1	17·6	20·1	65	..	3·2	..	1·1	0	0	10	0	0	1	0	0	2	0	7	21	[illegible]
Ranchi Aerodrome	0530	652	1011·4	938·0	..	18·4	16·3	14·9	16·9	81	..	3·3	..	4·1	0	0	23	6	5	0	0	0	1	1	10	8	[illegible]
	0830	,,	1011·9	939·7	..	22·9	18·1	15·1	17·1	62	..	2·9	..	8·1	0	0	29	7	9	2	0	0	1	1	9	2	[illegible]
	1130	,,	1010·6	939·1	..	25·0	18·3	14·1	16·1	51	..	3·5	..	9·0	0	0	28	6	6	6	1	0	2	2	5	3	[illegible]
	1730	,,	1008·5	936·7	..	23·6	18·6	15·7	17·8	61	..	(l) 4·3	..	(l) 4·6	0	0	18	7	2	4	0	0	0	1	4	1	[illegible]
Jamshedpur	0830	129	1012·2	997·5	+0·5	24·4	21·4	19·8	23·1	76	+1	3·2	+0·1	4·4	0	0	29	1	4	3	0	0	1	12	8	2	[illegible]
	1730	,,	1008·5	994·0	..	27·5	22·8	20·4	24·0	66	..	3·3	..	1·6	0	0	13	1	0	6	3	0	0	1	2	18	[illegible]
Jamshedpur(P.B.O.)	0530	142	1010·6	994·6	..	21·2	20·1	19·3	21·0	89	..	4·3	..	3·6	0	0	18	1	4	0	0	5	1	4	3	13	[illegible]
	0830	,,	1012·3	996·1	..	24·3	21·1	19·4	22·5	74	..	3·3	..	6·2	0	0	27	1	4	2	0	1	0	9	10	4	[illegible]
	1130	,,	1010·9	995·0	..	28·1	21·8	18·3	21·0	56	..	3·6	..	7·2	0	0	27	8	4	4	0	3	0	3	5	4	[illegible]
	1730	,,	1008·5	992·6	..	27·4	22·3	19·7	22·9	63	..	3·8	..	3·3	0	0	16	1	4	4	2	0	1	2	2	15	[illegible]
	2330	,,	1010·7	994·5	..	22·3	21·0	20·2	23·7	88	..	2·6	..	2·6	0	0	13	2	1	2	0	0	1	3	4	18	[illegible]

(a)—Mean of 30 days. (h) Mean of 29 days. (l) Mean of 19 days.

Sub-Division and Station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau (*contd.*)																											
Chaibasa	0830	226	1012·0	986·3	+0·5	24·5	21·1	19·3	22·4	73	−3	3·8	+1·0	1·9	0	0	16	0	12	0	0	0	3	1	0	15	0
	1730	,,	1008·4	983·1	..	26·9	22·3	20·1	23·5	67	..	4·1	..	0·9	0	0	7	0	1	0	2	0	2	1	1	24	0
Bihar Plains																											
Motihari	0830	66	1011·8	1004·2	+0·3	26·9	23·8	22·3	26·9	76	−1	(c) 1·2	−0·3	(c) 1·0	0	0	8	1	0	5	0	0	0	1	1	20	0
	1730	,,	(f) 1007·6	1000·2	..	(f) 27·5	(f) 24·2	(f) 22·6	(f) 27·4	(f) 76	..	0·5	..	(f) 1·0	0	0	6	0	1	1	0	0	2	2	0	19	0
Forbesganj	0830	61	1011·9	1005·0	..	26·4	22·9	21·1	25·0	73	..	2·1	..	4·3	0	0	27	2	4	9	4	0	2	4	2	4	0
	1730	,,	1008·2	1001·4	..	28·0	23·4	21·1	25·0	67	..	2·2	..	4·0	0	0	19	0	2	2	0	0	1	12	2	12	0
Darbhanga	0830	49	1011·9	1006·4	+0·4	27·6	23·5	21·5	25·6	71	0	0·8	−1·1	2·2	0	0	21	2	3	5	0	2	0	6	3	10	0
	1730	,,	1008·4	1002·9	..	27·8	25·1	23·9	29·7	80	..	0·8	..	0·8	0	0	6	0	1	1	0	0	0	3	1	25	0
Chapra	0830	58	1007·7	1001·3	..	26·5	22·9	21·2	25·2	72	..	1·7	..	1·9	0	0	16	0	2	5	1	0	4	2	2	15	0
	1730	,,	1008·0	1001·5	..	24·2	22·2	19·2	22·2	59	..	1·8	..	0·9	0	0	10	0	1	0	1	0	5	0	3	21	0
Purnea	0830	38	1012·4	1006·1	+0·6	26·6	22·8	20·9	24·7	71	−9	2·0	−0·2	2·9	0	0	23	0	3	6	3	1	3	6	1	8	0
	1730	,,	1008·6	1004·3	..	27·2	23·9	22·3	26·9	75	..	1·8	..	0·7	0	0	6	0	1	0	0	1	2	2	0	25	0
Patna	0830	53	1012·2	1006·1	+0·5	25·8	21·3	18·9	21·8	65	−4	1·9	0	5·0	0	0	30	4	7	0	1	2	8	6	2	1	0
	1730	,,	1108·8	1002·9	..	23·5	21·7	17·9	20·5	53	..	1·5	..	4·5	0	0	28	1	7	0	0	6	10	4	0	3	0
Patna Aerodrome	0530	60	1009·9	1003·0	..	20·8	20·1	19·7	22·9	92	..	(a) 2·9	..	(a) 1·5	0	0	9	0	5	0	0	1	2	0	1	21	0
	0830	,,	1011·9	1005·1	..	25·9	22·1	20·1	23·5	73	..	2·5	..	4·5	0	0	23	1	3	1	0	0	5	13	0	8	0
	1130	,,	1010·9	1004·2	..	29·2	22·3	20·3	23·8	54	..	2·7	..	8·0	0	0	31	0	1	5	1	2	5	12	5	0	0
	1730	,,	1008·4	1001·6	..	27·1	22·9	20·9	24·7	69	..	2·2	..	1·0	0	0	8	0	1	0	0	2	3	2	0	23	0
	2330	,,	1010·6	1004·7	..	23·7	21·7	20·6	24·3	84	..	(a) 1·4	..	(a) 0·5	0	0	3	0	0	1	0	0	0	2	0	27	0
Bhagalpur	0530	49	1010·5	1004·9	..	22·7	21·5	20·9	24·7	89	..	2·9	..	3·2	0	0	15	0	0	4	1	0	6	4	0	16	0
	0830	,,	1012·3	1006·8	+1·1	26·7	22·9	20·9	24·7	72	−3	2·8	−0·2	3·1	0	0	17	1	0	4	3	0	1	6	2	14	0
	1130	,,	1011·6	1006·1	..	29·4	23·1	19·8	23·1	57	..	2·9	..	5·5	0	0	25	1	1	6	1	1	1	8	6	6	0
	1730	,,	1008·8	1003·3	..	27·3	23·4	21·5	25·6	71	..	2·5	..	3·6	0	1	16	1	0	1	1	0	1	10	3	14	0
	2330	,,	1010·9	1005·3	..	24·1	22·0	20·9	24·7	83	..	2·1	..	3·2	0	1	15	0	0	3	1	3	5	3	1	15	0
Sabour	0830	37	1012·2	1007·9	+0·4	25·9	23·0	21·5	25·6	77	+1	2·9	+0·3	4·8	0	0	30	2	4	3	4	1	3	9	4	1	0
	1730	,,	1008·5	1004·2	..	27·5	24·2	22·3	26·9	75	..	2·9	..	3·4	0	0	14	0	0	2	0	1	0	6	5	17	0
Tirhani	0830	82	1012·2	1002·6	..	24·9	22·4	21·1	25·1	80	..	2·3	..	1·8	0	0	15	2	0	2	0	1	0	1	9	16	0
	1730	,,	1008·3	998·9	..	27·4	23·3	21·3	25·3	69	..	2·1	..	1·3	0	0	10	0	0	2	0	0	0	0	8	21	0
Dehri	0830	107	1012·2	1000·0	..	25·6	21·5	19·3	22·4	70	..	2·1	..	2·6	0	0	30	0	2	2	5	6	10	4	1	1	0
	1730	,,	1008·5	996·4	..	27·8	22·3	19·3	22·4	61	..	1·5	..	2·3	0	0	30	4	2	4	1	0	0	13	6	1	0
Gaya	0230	116	1010·5	997·1	..	21·3	20·6	20·3	23·8	94	..	0·9	..	2·0	0	0	16	1	1	1	2	7	3	1	0	15	0
	0530	,,	1010·9	997·4	..	20·3	19·7	19·5	22·7	94	..	2·0	..	3·2	0	0	20	0	1	0	2	9	5	3	0	11	0
	0830	,,	1012·5	999·2	+1·0	21·2	21·5	20·2	23·7	78	+10	2·6	+0·7	4·8	0	0	23	0	2	2	2	5	9	3	0	8	0
	1130	,,	1011·9	998·8	..	28·5	22·0	18·4	21·1	56	..	2·3	..	6·2	0	0	27	3	3	4	2	0	3	9	3	4	0
	1730	,,	1009·2	996·1	..	27·5	22·0	19·0	22·0	61	..	2·2	..	3·1	0	0	18	2	5	2	0	1	0	4	4	13	0
	2330	,,	1011·1	997·7	.	22·5	21·3	20·8	21·6	89	..	1·2	..	2·6	0	0	15	0	1	1	0	7	5	1	0	16	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1012·4	998·2	+1·2	24·8	20·7	18·2	20·9	67	−6	0·6	−0·4	2·6	0	0	16	2	0	4	1	0	0	6	3	15	0
	1730	,,	1008·8	995·0	..	26·8	21·5	18·4	21·3	61	..	0·7	..	0·5	0	0	6	0	0	1	0	0	2	2	1	25	0
Nautanwa	0830	99	1011·1	999·7	..	23·8	21·5	19·7	23·5	78	..	0	..	0·6	0	0	7	0	1	4	1	0	0	0	1	24	0
	1730	,,	1008·3	997·2	..	27·8	23·7	20·8	25·6	64	..	0	..	0·3	0	0	5	0	0	0	0	0	2	1	2	26	0
Hardoi	0830	142	1012·5	996·1	+1·8	22·3	19·3	17·5	20·0	74	−2	0	−1·4	1·8	0	0	15	3	0	0	0	0	3	6	3	16	0
	1730	,,	1008·8	992·9	..	29·3	23·0	19·9	22·9	57	..	0·1	..	0·1	0	0	2	1	0	0	0	0	0	1	0	29	0
Gonda	0830	110	1012·4	999·9	..	24·4	20·9	18·9	22·1	72	−4	0·5	−0·9	1·0	0	0	8	1	0	1	0	0	0	1	5	23	0
	1730	,,	1009·2	996·7	..	27·4	21·7	18·4	21·1	58	..	0·2	..	0·3	0	0	4	0	0	0	0	0	0	0	4	27	0
Lucknow	0830	111	1011·7	999·0	+0·4	23·2	20·8	19·2	22·7	73	+4	0·2	−0·8	1·7	0	0	17	1	3	0	0	0	4	7	2	14	0
	1730	,,	1008·7	996·3	..	27·5	23·5	21·1	25·6	66	..	0·1	..	1·5	0	0	15	1	0	0	0	0	3	4	7	16	0
Lucknow (Amausi)	0230	128	1010·2	995·4	..	18·7	17·5	16·7	19·0	88	..	0·3	..	3·0	0	0	15	1	1	1	0	1	7	2	2	16	0
	0530	,,	1010·6	995·6	..	17·6	16·7	15·8	18·3	91	..	0·6	..	0·2	0	0	11	1	1	0	0	0	4	4	1	20	0
	0830	,,	1012·3	997·7	+0·9	23·8	19·7	17·2	19·6	66	+9	0·7	−0·3	4·1	0	0	12	0	0	1	0	0	2	7	2	19	0
	1130	,,	1011·6	997·3	..	29·7	20·5	14·5	16·6	40	..	0·6	..	0·3	0	0	26	3	3	0	0	1	5	8	6	5	0

(R)—Register not received. (f) Mean of 25 days. (a) Mean of 30 days. (c) Mean of 28 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. perhour	Wind speed (k.m.p.h.): 62 or more	Wind speed (k.m.p.h.): 20 to 61	Wind speed (k.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Uttar Pradesh (East)—(*Contd.*)																										
Lucknow (Amausi)—(*contd.*)	1730	128	1008·8	994·5	..	27·9	21·5	17·8	20·4	55	..	0·5	..	2·5	0	0	13	1	0	0	0	0	1	8	3	18
	2330	,,	1010·7	995·9	..	19·9	18·3	17·3	19·5	85	..	0·3	..	1·7	0	0	7	0	1	0	2	0	3	0	1	24
Faizabad	0830	102	1011·8	1000·2	..	24·3	20·8	18·7	21·8	71	..	0·5	..	0·8	0	0	9	2	2	0	0	0	1	3	1	22
	1730	,,	1008·7	997·2		26·4	22·4	20·4	23·8	67	..	0·9	..	0·1	0	0	1	0	0	0	0	0	1	0	0	30
Gorakhpur	0830	77	1011·0	1002·2	—0·4	26·5	21·4	18·5	21·3	62	—13	0·9	—0·3	3·2	0	0	19	4	2	3	0	0	2	8	0	12
	1730	,,	1007·6	998·9	..	30·4	22·1	17·5	19·9	46	..	1·3	..	2·3	0	0	15	4	1	1	0	0	1	8	0	16
Gorakhpur P.B.O.	0230	78	1009·9	1000·9	..	22·7	20·0	18·7	21·3	78	..	0·2	..	0·5	0	0	6	1	0	0	0	0	3	2	0	25
	0530	,,	1010·3	1001·3	..	21·5	19·5	18·1	21·0	83	..	0·9	..	1·4	0	0	13	1	3	0	0	0	3	5	1	18
	1130	,,	1011·4	1002·6	..	29·3	21·5	17·7	19·3	50	..	1·2	..	4·1	0	0	28	0	2	2	2	5	12	5	0	3
	2330	,,	1010·5	1001·5	..	23·8	20·6	19·0	21·7	75	..	0·4	..	1·4	0	0	10	0	1	0	0	2	3	3	1	21
Kanpur	0830	126	1012·9	998·4	+1·4	22·2	18·7	16·5	18·8	70	+2	0·3	—0·4	2·1	0	0	17	4	1	0	0	1	2	8	1	14
	1730	,,	1009·2	995·1	..	29·3	20·5	14·9	16·9	42	..	0·4	..	2·0	0	0	17	6	3	0	0	0	0	4	4	14
Kanpur (Aerodrome)	0530	126	1010·8	996·1	..	18·4	16·4	14·9	17·0	80	..	0·4	..	2·1	0	0	7	0	0	0	0	0	0	6	1	24
	0830	,,	1012·5	998·0	..	23·8	18·8	15·3	17·6	60	..	0·5	..	3·7	0	0	17	1	2	1	0	1	2	9	1	14
	1130	,,	1012·0	997·9	..	29·9	19·9	12·9	14·9	36	..	0·5	..	8·6	0	0	29	5	5	1	0	4	2	6	6	2
	1730	,,	1008·9	994·8	..	28·7	19·5	13·0	15·2	38	..	0·4	..	4·3	0	0	18	8	1	0	0	0	0	5	4	13
	2330	,,	1010·8	996·3	..	21·6	17·9	15·5	17·3	69	..	0·1	..	0·8	0	0	3	0	0	0	0	1	1	1	0	28
Sultanpur	0830	97	1012·7	1001·6	..	24·9	20·9	18·4	21·4	68	..	0·6	..	0·8	0	0	11	1	0	2	0	0	0	6	2	20
	1730	,,	1008·7	997·9	..	29·2	22·2	18·1	21·0	54	..	0·9	..	0·6	0	0	8	0	0	1	1	0	0	6	0	23
Azamgarh	0830	78	1011·7	1002·9	..	24·5	22·4	19·7	22·9	75	..	0·6	..	4·1	0	0	27	0	0	10	0	0	0	17	0	4
	1730	,,	1008·7	999·9	..	28·0	24·7	22·7	28·3	73	..	1·0	..	2·2	0	0	17	2	0	1	0	0	0	14	0	14
Fatehpur	0830	114	1012·6	999·5	..	23·3	19·4	16·9	19·4	67	—1	0·2	—1·1	3·5	0	0	27	5	2	0	2	1	1	10	6	4
	1730	,,	1009·1	996·3	..	28·0	21·8	18·3	21·0	56	..	0·1	..	1·2	0	0	17	8	4	2	0	0	0	1	2	14
Ballia	0830	64	1011·8	1004·5	..	26·3	23·5	22·1	26·6	78	..	1·2	..	0·2	0	0	2	0	0	1	0	0	0	1	0	29
	1730	,,	1010·2	1003·1	..	29·7	26·1	24·3	30·9	74	..	1·5	..	0·5	0	0	0	0	0	0	0	0	0	0	0	31
Banda	0830	121	1013·6	999·7	..	22·6	18·7	16·3	18·4	70	..	0·2	..	2·6	0	0	31	0	1	0	4	0	20	0	6	0
	1730	,,	1009·3	995·8	..	29·0	22·9	19·6	22·9	57	..	0·1	..	2·0	0	0	31	0	3	1	13	0	11	1	2	0
Allahabad (Bamrauli)	0230	98	1010·7	999·0	..	20·3	18·3	17·0	19·4	81	..	0	..	0·5	0	0	5	0	2	0	0	0	0	1	2	26
	0530	,,	1010·8	999·8	..	19·0	17·6	16·7	19·0	86	..	1·0	..	0·6	0	0	7	2	2	0	0	0	0	1	2	24
	0830	,,	1012·6	1001·4	+1·1	24·3	20·0	17·4	19·9	66	—1	0·7	—1·0	1·4	0	0	11	0	1	1	0	1	1	5	2	20
	1130	,,	1012·0	1001·0	..	30·6	21·2	15·4	17·5	41	..	1·1	..	3·3	0	0	21	4	5	1	1	0	3	4	3	10
	1730	,,	1009·0	998·0	..	28·7	21·8	17·8	20·5	52	..	1·1	..	0·7	0	0	7	0	2	1	0	0	0	1	3	24
	2330	,,	1011·0	999·7	..	21·6	18·9	17·2	19·7	76	..	0·3	..	0·6	0	0	6	0	1	0	0	0	1	2	2	25
Varanasi (Babatpur)	0530	85	1011·7	1001·7	..	21·0	19·3	18·2	21·0	82	..	1·4	..	3·9	0	0	22	2	1	0	3	3	9	2	2	9
	0830	,,	1013·4	1003·5	+1·6	25·0	20·7	18·2	20·9	66	—5	1·3	—0·8	6·3	0	0	28	1	3	0	0	2	13	6	2	3
	1130	,,	1012·7	1002·8	..	30·0	20·6	14·9	16·6	43	..	1·2	..	8·1	0	1	29	4	5	3	1	0	4	4	5	1
	1730	,,	1009·6	1000·5	..	27·9	21·8	18·3	21·0	57	..	1·4	..	4·3	0	0	23	1	3	1	1	1	2	10	4	8
	2330	,,	1011·8	1001·9	..	23·6	20·4	18·4	21·3	73	..	0·2	..	2·8	0	0	17	1	1	1	1	4	6	1	2	14
Varanasi	0830	76	1012·6	1003·8	+1·0	24·5	20·4	17·8	20·6	67	—2	1·2	—0·5	1·9	0	0	26	0	5	0	2	0	10	4	5	5
	1730	,,	1008·7	1000·1	..	29·1	22·1	17·9	20·9	54	..	1·7	..	1·3	0	0	20	2	4	1	3	0	1	5	4	11
Uttar Pradesh (West)																										
Mukhim (R)	0830																									
(R)	1730																									
Tehri (R)	0830																									
(R)	1130																									
(R)	1730																									
Dehra Dun	0530	682	1012·1	934·8	..	16·6	14·8	12·6	15·4	76	..	0·6	..	2·5	0	0	26	7	16	0	0	1	0	2	0	5
	0830	,,	1012·0	936·1	+0·5	21·8	16·9	13·5	15·5	60	—8	0·2	—0·8	0·7	0	0	11	8	1	0	0	1	0	1	0	20
	1130	,,	1011·0	936·2	..	25·9	18·5	14·2	15·1	48	..	0·8	..	2·6	0	0	30	1	0	0	5	7	6	10	1	9
	1730	,,	1008·7	933·9	..	25·3	19·6	16·7	18·2	58	..	1·2	..	0·5	0	0	9	0	0	0	0	2	3	4	0	22
	2330	,,	1012·0	935·2	..	18·9	15·7	13·8	15·3	73	..	0·2	..	4·1	0	0	30	12	16	0	0	0	0	2	0	1
Mansiari (R)	0830																									
(R)	1730																									
Roorkee	0830	274	1012·7	981·4	+1·0	22·0	18·5	16·2	18·4	70	—2	1·3	+0·7	0·5	0	0	8	0	1	0	4	0	0	0	3	23
	1730	,,	1009·3	978·7	..	28·1	21·4	16·2	18·8	49	..	1·9	..	0·6	0	0	10	0	0	0	1	0	1	0	8	21
Najibabad	0830	270	1012·5	981·6	..	21·4	17·9	15·8	17·7	70		0·2	..	1·1	0	0	14	0	11	0	2	0	1	0	0	17

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (k.m.p.h.): 62 or more	Wind speed (k.m.p.h.): 20 to 61	Wind speed (k.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—*(contd.)*																											
Najibabad—*contd.*	1730	270	1009·2	979·2	..	28·9	21·4	17·0	19·4	49	..	0·2	..	1·1	0	0	16	1	3	0	1	0	2	0	9	15	0
Meerut	0830	222	1013·4	987·7	+1·8	22·8	20·2	18·4	21·4	78	+11	0	—0·5	7·3	0	2	26	3	3	2	0	2	2	13	3	3	0
Bareilly	0830	173	1012·3	992·5	+1·0	23·6	19·6	17·1	19·5	67	—6	0	—0·9	1·8	0	0	17	1	0	3	4	2	1	3	3	14	0
	1730	,,	1008·6	989·1	..	26·9	20·9	17·4	19·9	56	..	0	..	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
Bareilly P.B.O.	0230	172	1010·0	990·2	..	21·0	18·1	16·3	18·4	75	..	0	..	0·5	0	0	5	0	1	1	0	0	0	2	1	26	0
	0530	,,	1010·5	990·7	..	19·9	17·6	16·1	18·3	79	..	0·2	..	1·4	0	0	12	0	5	5	1	0	0	1	0	19	0
	1130	,,	1011·6	992·2	..	27·7	19·9	15·6	17·0	48	..	0·2	..	3·5	0	0	24	0	1	2	5	2	0	6	8	7	0
	2330	,,	1010·	996·6	..	22·4	18·7	16·7	18·5	71	..	0	..	0·9	0	0	7	0	0	2	1	0	1	1	2	24	0
Aligarh	0830	187	1012·5	991·0	..	22·3	17·3	13·8	15·7	58	+7	0·1	—0·4	1·4	0	0	22	3	0	2	0	1	1	10	5	9	0
	1730	,,	1008·9	987·9	..	30·2	20·0	13·0	15·1	35	..	0·2	..	1·4	0	0	20	10	0	2	0	0	0	3	5	11	0
Mainpuri	0830	157	1012·3	991·6	+1·4	23·8	18·5	15·4	16·9	62	0	0·1	—0·9	0·2	0	0	2	0	0	0	0	1	0	0	1	29	0
	1730	,,	1009·1	991·2	..	29·3	21·0	16·0	18·2	44	..	0	..	0·1	0	0	0	0	0	0	0	0	0	0	0	31	0
Agra	0830	169	1012·9	993·5	+1·3	22·6	17·2	13·3	15·3	56	+4	0	—0·8	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1009·2	990·2	..	28·3	20·6	16·2	17·9	47	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Agra (Aerodrome)	0530	169	1011·4	991·6	..	15·9	14·2	13·0	14·9	81	..	0·1	..	2·3	0	0	13	0	1	0	0	0	0	3	9	18	0
	0830	,,	1012·9	993·5	..	21·5	17·4	14·4	16·6	65	..	0·2	..	5·1	0	0	17	1	0	0	1	0	0	0	12	14	0
	1130	,,	1012·2	993·5	..	29·6	19·6	12·6	14·7	35	..	0·1	..	5·4	0	0	26	6	0	2	0	0	1	4	13	5	0
	1730	,,	1008·9	991·3	..	28·4	19·6	13·5	15·7	40	..	0·2	..	2·0	0	0	11	5	1	0	0	0	0	0	5	20	0
	2330	,,	1011·3	991·8	..	19·3	16·1	13·7	15.7	72	..	0·1	..	1·4	0	0	7	1	0	1	0	0	0	1	4	24	0
Orai	0830	141	1014·2	993·2	..	27·2	19·6	14·4	16·6	46	..	0·1	..	2·2	0	0	30	0	2	1	6	1	9	1	10	1	0
	1730	,,	1009·2	993·5	..	31·1	20·2	12·4	14·8	33	..	0·1	..	2.1	0	0	31	1	1	0	2	0	1	1	25	0	0
Jhansi	0830	251	1013.4	985.2	+1.7	24.4	18.8	14.9	17.1	56	+1	0	—1.0	0.4	0	0	6	2	0	0	0	0	0	4	0	25	0
	1730	,,	1009.0	981.3	..	30.6	21.4	15.2	17.9	41	..	0.2	..	0.6	0	0	10	6	1	0	0	0	0	1	2	21	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1011.5	975.4	..	17.7	15.6	13.9	16.1	79	..	0.3	..	1.7	0	0	12	1	7	1	0	0	2	0	1	19	0
	0830	,,	1012.5	976.9	+1.4	21.8	17.3	14.1	16.1	62	+2	0.7	—0.5	2.5	0	0	16	0	9	5	2	0	0	0	0	15	0
	1130	,,	1011.9	977.0	..	27.3	19.4	13.9	16.1	44	..	0.6	..	3.3	0	1	23	0	2	2	7	5	6	1	1	7	0
	1730	,,	1009.3	974.6	..	28.1	19.3	13.1	15.2	40	..	1.0	..	2.4	0	0	19	2	1	1	0	0	5	6	4	12	0
Amritsar (Rajasansi)	0530	234	1011.4	984.1	..	16.4	15.6	15.0	17.0	91	..	0.1	..	1.7	0	1	9	1	1	3	1	0	2	1	0	22	0
	0830	,,	1012.6	985.6	+1.3	20.6	18.2	16.6	19.0	78	+4	0.2	—0.5	2.0	0	0	10	1	1	1	1	0	2	1	3	21	0
	1130	,,	1012.3	986.0	..	28.4	19.5	13.5	15.6	40	..	0.4	..	7.0	0	0	24	3	0	0	5	0	3	4	9	7	0
	1730	,,	1009.4	983.2	..	28.6	20.3	14.8	17.0	44	..	0.3	..	2.7	0	0	18	0	0	0	0	1	1	3	13	13	0
Adampur (Aerodrome)	*0530	238																									
	0830	,,	1011.1	984.0	..	20.3	17.8	16.5	18.3	79	..	0.5	..	3.2	0	0	18	2	0	5	8	0	0	2	1	13	0
	*1130	,,																									
	1730	,,	1008.3	981.8	..	26.2	20.1	17.1	18.5	57	..	0.6	..	0.6	0	0	28	2	0	0	1	0	1	3	21	3	0
	*2330	,,																									
Ludhiana	0830	247	1012.0	983.7	+0.5	20.7	17.7	15.7	17.8	76	+15	0.3	—0.3	0.3	0	0	5	0	1	0	3	0	0	0	1	26	0
	1730	,,	1009.2	981.5	..	28.2	22.1	18.7	21.6	58	—	0.1	..	1.8	0	0	23	4	0	0	1	0	2	10	6	8	0
Ferozepore	0830	200	1011.6	988.5	..	20.3	18.5	18.0	19.9	83	..	0	..	0.7	0	0	11	3	1	0	0	0	1	4	2	20	0
	1730	,,	1009.4	987.0	..	29.8	22.9	19.0	22.2	54	..	0.2	..	0.6	0	0	9	1	1	0	0	0	0	0	7	22	0
Halwara (Aerodrome)	0830	242	1013.1	985.3	..	21.0	18.5	16.7	19.3	77	..	0.3	..	3.9	0	0	24	1	0	2	8	2	2	1	8	7	0
	1730	,,	1010.6	983.4	..	27.9	20.8	16.5	18.8	50	..	0.2	..	8.5	0	11	31	6	0	1	1	1	0	1	21	0	0
Chandigarh	0830	347	1011.9	972.7	+1.2	22.9	18.2	14.8	17.0	61	—1	0.2	—0.8	3.0(a)	0	0	25	0	7	0	9	0	5	0	4	5	0
	1730	,,	1008.7	969.9	..	27.0	18.6	12.5	14.6	40	..	0.5	..	2.5	0	0	24	0	1	0	2	0	11	0	10	7	0
Ambala	0830	272	1011.6	980.7	+0.4	23.1	19.3	16.8	19.3	68	+8	0.1	—0.6	2.3	0	0	18	4	2	0	6	0	0	2	4	13	0
	1730	,,	1008.9	978.0	..	27.9	21.2	16.8	19.7	50	..	0	..	3.3	0	0	26	4	1	0	4	0	0	2	15	5	0
Ambala P.B.O.	0230	278	1010.4	978.5	..	20.2	17.2	15.4	17.1	74	..	0.1	..	4.4	..	0	16	1	2	3	0	0	0	2	8	15	0
	0530	,,	1010.8	978.8	..	19.1	16.6	15.1	16.9	78	..	0.3	..	4.5	0	0	17	1	2	4	1	0	0	1	8	14	0
	1130	,,	1011.7	980.5	..	27.7	20.1	16.2	18.4	50	..	0.2	..	6.2	0	0	23	1	0	3	8	0	1	1	10	8	0
	2330	,,	1010.7	979.0	..	22.0	18.1	15.8	17.6	69	..	0	..	5.4	0	0	19	1	1	2	0	0	0	1	14	12	0
Ambala (Aerodrome)	0530	274	1011.1	979.1	..	16.1	15.2	14.4	17.6	91	..	0.3	..	2·7	0	0	10	0	0	3	0	0	0	3	3	21	0
	0830	,,	1012.1	980.8	..	20.9	18.1	16.1	18.5	75	..	0.3	..	4·7	0	0	16	0	2	5	1	0	0	2	6	15	0
	1130	,,	1011.4	980.6	..	28.2	20.3	15.6	17.4	47	..	0.1	..	8·4	0	1	22	1	1	6	3	0	1	4	6	8	1
	1730	,,	1008.7	978.1	..	27.1	19.9	17.4	15.2	49	..	0.5	..	7·5	0	1	21	0	0	0	0	0	0	8	14	9	0
	2330	,,	1011.0	979.4	..	18.8	16.7	15.3	17.4	80	..	0.1	..	2·5	0	0	8	0	0	1	0	0	0	3	4	23	0

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

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (k.m.p.h.): 62 or more	Wind speed (k.m.p.h.): 20 to 61	Wind speed (k.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*contd.*																											
Patiala	0830	251	1012.4	983.7	..	21.8	18.1	15.5	17.7	67	..	0.4	..	3.9	0	0	20	1	1	2	6	0	0	0	10	11	0
	1730	,,	1009.5	981.5	..	27.1	20.4	16.4	18.5	52	..	0.5	..	3.0	0	0	13	0	0	0	0	1	0	0	12	18	0
Bhatinda	0830	211	1012.1	988.2	..	24.6	19.7	16.6	19.0	62	..	0	..	2.1	0	0	16	0	0	0	9	0	2	0	5	15	0
	1730	,,	1009·5	986.1	..	29.5	21.7	17.1	19.6	49	..	0	..	(a) 1.6	0	0	16	2	6	0	0	0	0	1	7	14	0
Karnal	0830	249	1011.6	983.1	..	23.0	18.6	15.5	17.5	64	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1008·5	981.6	..	28.9	20.3	15.1	17.1	46	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1011.7	985.9	..	16.8	14.9	13.3	15.4	80	..	0.3	..	3.7	0	0	25	2	5	0	0	5	6	7	0	6	0
	0830	,,	1012.9	987.3	+1.0	20.6	17.0	14.6	16.5	69	+15	0.2	—0.4	2.3	0	0	22	0	0	5	0	4	9	4	0	9	0
	1130	,,	1012·5	987.8	..	29.9	21.5	16.5	18.8	44	..	0	..	3.2	0	0	23	1	1	1	3	4	3	9	1	8	0
	1730	,,	1009.4	984.8	..	28.8	21.7	17.7	20.1	51	..	0.4	..	3.0	0	0	21	10	0	0	0	0	1	6	4	10	0
	2330	,,	1011.8	986.3	..	19.9	16.8	14.4	16.4	72	..	0.1	..	2.7	0	0	18	3	0	5	3	3	2	1	1	13	0
New Delhi (Safdarjung) .	0230	216	1012.8	987.9	..	22.1	17.0	13.1	15.3	57	..	0.2	..	5.7	0	0	17	0	1	1	0	0	2	10	3	14	0
	0530	,,	1011.4	986.3	..	18.2	15.2	12.8	14.9	71	..	0	..	2.7	0	0	11	0	0	0	0	0	3	7	1	20	0
	0830	,,	1012.8	987.9	+1.2	22.1	17.0	13.1	15.3	57	—1	0.2	—0.7	5.7	0	0	17	0	1	1	0	0	2	10	3	14	0
	1130	,,	1012.1	987.9	..	29.7	19.5	12.3	14.3	35	..	0.4	..	8.1	0	3	21	1	1	2	2	0	2	3	13	7	0
	1730	,,	1009.0	984.9	..	29.7	19.5	12.3	14.2	35	..	0.2	..	5.0	0	0	21	3	1	0	1	0	0	0	16	10	0
	2330	,,	1011.3	986.5	..	21.4	17.3	14.4	16.4	65	..	0.1	..	1.6	0	0	8	0	0	0	0	0	0	3	5	23	0
Palam (Aerodrome) . .	0230	233	1011.0	984.1	..	18.3	15.7	13.6	15.7	75	..	0.2	..	5.8	0	0	24	1	0	3	5	5	4	4	2	7	0
	0530	,,	1011.5	984.3	..	16.0	14.3	12.9	14.9	82	..	0.2	..	5.1	0	0	24	0	2	2	1	5	12	1	1	7	0
	0830	,,	1012.7	986.0	..	21.5	17.3	14.3	16.3	64	..	0.2	..	5.5	0	0	21	0	1	3	1	1	7	8	0	10	0
	1130	,,	1012.0	985.7	..	29.9	20.7	14.7	16.9	39	..	0.2	..	10.7	0	1	29	5	1	2	4	0	2	5	11	1	0
	1430	,,	1009.3	963.5	..	31.7	20.7	13.5	15.5	33	..	0.3	..	7.9	0	7	24	8	5	2	0	0	0	5	10	0	1
	1730	,,	1009.0	983.0	..	29.0	19.9	13.3	15.8	40	..	0.2	..	10.4	0	3	28	10	5	4	0	2	0	4	6	0	0
	2030	,,	1010·9	984.2	..	22.7	17.5	14.2	15.8	59	..	0.2	..	4.7	0	0	24	3	7	3	3	1	0	2	5	7	0
	2330	,,	1011.4	984.5	..	20.2	16.6	14.0	16.0	68	..	0	..	4.9	0	0	23	0	2	8	2	2	2	4	3	8	0
Himachal Pradesh																											
Mandi	0830	761	1014.9	928.6	+1.1	15.3	14.0	13.0	15.3	86	—3	0.6	—1.3	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1008.4	925.2	..	23.9	18.9	15.6	17.6	60	..	1.2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Bilaspur*	0830	493	1014.5	948.0	..	18.1	16.2	14.9	17.0	82	..	0.1	..	0.1	0	0	2	0	0	0	1	0	1	0	0	28	0
	1730	,,	1009.1	944.8	..	27.4	19.7	15.2	17.3	48	..	0	..	0.1	0	0	1	0	0	0	0	0	1	0	0	29	0
Jammu and Kashmir																											
Misgar . . . . (R)	0830																										
(R)	1730																										
Gilgit . . . . (R)	0830																										
(R)	1730																										
Skardu . . . . (R)	0830																										
(R)	1730																										
Leh	0530	3514	3135.5	666.3	..	—1.3	—4.9	—13.4	1.4	38	..	0.7	..	7.5	0	0	28	7	18	2	1	0	0	0	0	3	0
	0830	,,	3142.7	669.2	+0.1	4.8	—1.0	—8.9	2.9	39	—7	1.2	—1.0	3.8	0	0	21	1	3	1	1	13	2	0	0	10	0
	1730	,,	3065.5	663.6	..	10.4	4.1	—3.0	4.8	39	..	3.2	..	9.5	0	0	30	2	2	0	1	8	10	3	4	1	0
Srinagar	0830	1587	1540.9	845.5	+0.9	9.0	7.9	6.8	9.8	87	+1	1.5	—0.4	1.4	0	0	11	1	0	1	7	0	1	0	1	20	0
	1130	,,	1534.2	844.9	..	16.9	11.4	—7.0	9.8	53	..	1.7	..	1.5	0	0	11	3	0	4	2	0	0	1	1	20	0
	1730	,,	1507.9	842.3	..	16.5	11.4	4.1	10.5	55	..	3.2	..	2.5	0	0	13	1	1	2	4	1	0	3	1	18	0
Srinagar (Aerodrome) .	0530	1666	1520.1	836.1	..	7.2	5.3	3.4	7.7	77	..	1.3	..	1.5	0	0	9	1	0	2	0	1	0	1	4	22	0
	0830	,,	1533.6	836.9	..	10.3	7.6	5.0	8.7	70	..	1.8	..	2.3	0	0	12	1	3	2	1	1	0	1	3	19	0
	1130	,,	1530.7	837.1	..	15.6	10.1	5.3	8.7	51	..	2.0	..	2.9	0	0	19	4	7	3	1	1	0	0	3	12	0
	1730	,,	1501.9	834.4	..	17.1	10.3	4.0	8.4	44	..	3.7	..	5.3	0	0	20	2	5	1	2	2	3	2	3	11	0
	2330	,,	1522.8	836.1	..	9.9	6.9	3.8	8.1	66	..	1.0	..	3.1	0	0	12	1	1	0	0	4	1	1	4	19	0
Gulmarg	0830	2655	Closed during Winter Months																								
	1730	,,																									
Banihal	0830	..	..	..	..	11.0	8.3	5.6	9.1	71	..	2.0	..	3.0	0	2	4	0	0	1	1	0	0	0	4	25	0
	1730	..	..	..	..	16.1	10.9	6.4	9.6	54	..	3.3	..	2.0	0	1	5	0	0	0	1	0	0	0	5	25	0
Jammu	0830	..	..	..	..	21.8	17.6	14.5	16.7	63	+10	..	..	3.6	0	0	28	12	14	1	0	1	0	0	0	3	0
Jammu (Aerodrome) . .	0530	292	1011.2	977.3	..	18.5	15.6	13.2	15.4	72	..	0.4	..	1.9	0	0	10	0	20	0	0	0	0	0	0	21	0
	0830	,,	1012.5	978.8	..	20.8	16.9	14.1	16.1	65	..	0.9	..	4.7	0	0	23	0	18	4	0	0	0	1	0	8	0

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

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (k.m.p.h.): 62 or more	Wind speed (k.m.p.h.): 20 to 61	Wind speed (k.m.p.h.): 1 to 19	No. of observations, Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—*contd.*																											
Jammu (Aerodrome)—*contd.*	1130	292	1012.2	979.1	..	26.9	19.5	14.4	16.6	47	..	0.8	..	6.1	0	1	23	1	4	2	5	7	1	2	2	7	0
	1730	,,	1009.4	976.5	..	27.6	20.4	16.1	18.1	50	..	0.9	..	3.2	0	0	11	0	2	0	2	1	0	6	3	17	0
	2330	,,	1011.4	977.7	..	21.1	17.1	14.3	16.2	65	..	0.1	..	2.3	0	1	6	1	6	0	0	0	0	0	0	24	0
Rajasthan (West)																											
Ganganagar	0530	177	1011.4	990.8	..	18.3	15.2	13.0	14.8	76	..	0.2	..	0.4	0	0	5	0	0	2	1	1	0	0	1	26	0
	0830	,,	1012.4	992.0	+1.5	20.2	15.9	12.6	14.4	62	+2	0	−0.7	2.0	0	0	22	1	2	3	6	3	4	2	1	9	0
	1130	,,	1012.2	992.4	..	30.0	19.3	11.6	13.7	33	..	0.1	..	2.8	0	0	23	0	1	2	6	3	7	2	2	8	0
	1730	,,	1009.0	989.3	..	30.8	21.2	15.0	17.4	39	..	0.2	..	0.5	0	0	5	3	0	0	0	0	2	0	0	26	0
	2330	,,	1011.2	990.8	..	21.2	16.8	13.6	15.6	62	..	0.2	..	0.9	0	0	10	1	1	5	2	0	0	0	1	21	0
Anupgarh (R)	0830																										
(R)	1730																										
Mahajan	0830	187	1011.7	990.0	..	23.4	16.9	12.2	13.9	49	..	0	..	0.7	0	0	9	0	0	2	0	5	2	0	0	22	0
	1730	,,	1007.7	986.9	..	32.2	21.0	13.4	15.8	33	..	0	..	(a) 1.0	0	0	11	1	0	0	0	0	4	3	3	19	0
Churu	0830	291	1013.2	979.7	..	20.3	15.6	11.8	13.9	58	..	0.1	..	3.8	0	0	24	1	0	1	5	6	5	6	0	7	0
	1730	,,	1009.1	976.9	..	31.1	20.3	12.5	14.8	33	..	0.5	..	5.4	0	0	30	15	5	3	2	0	0	4	1	1	0
Bikaner	0830	224	1012.5	986.8	+1.0	21.6	14.5	7.7	10.8	41	−6	0	−0.6	2.7	0	0	31	2	0	0	15	3	6	3	2	0	0
	1730	,,	1008.7	984.0	..	32.6	18.5	7.0	9.9	20	..	0	..	2.9	0	0	30	7	6	0	3	0	3	1	10	1	0
Bikaner P.B.O.	0530	224	1011.1	985.1	..	17.2	13.0	9.0	11.5	59	..	0	..	0.2	0	0	2	0	0	0	0	0	2	0	0	29	0
	1130	,,	1011.7	987.0	..	32.3	18.6	7.2	10.3	22	..	0.1	..	2.0	0	0	18	0	0	1	1	3	6	3	4	13	0
	2330	,,	1011.2	985.4	..	21.1	14.9	9.5	11.9	48	..	0	..	0.1	0	0	2	0	1	0	0	0	1	0	0	29	0
Nagaur	0830	298	1012.7	979.3	..	25.2	18.0	12.7	14.8	47	..	0	..	3.4	0	0	31	1	1	3	9	7	7	2	1	0	0
	1730	,,	1008.2	975.6	..	32.6	22.0	15.4	17.8	36	..	0.3	..	6.0	0	0	31	3	3	3	4	2	4	8	4	0	0
Phalodi	0830	234	1012.8	986.1	..	22.1	16.6	12.6	14.5	54	..	0.1	..	8.6	0	0	29	1	2	2	0	6	15	3	0	2	0
	1730	,,	1009.9	984.6	..	33.5	21.7	13.2	16.3	34	..	0.2	..	10.1	0	0	31	4	1	1	1	6	11	5	2	0	0
Jaisalmer	0830	242	1011.9	984.6	..	23.7	15.8	9.0	11.5	42	..	0	..	5.2	0	1	17	1	0	1	0	7	5	4	0	13	0
	1730	,,	1008.2	981.7	..	33.4	17.7	2.7	7.4	15	..	0	..	8.7	0	1	27	6	3	0	1	9	7	1	1	3	0
Jodhpur	0230	224	1011.1	985.4	..	21.9	14.3	7.1	10.2	39	..	0	..	0.4	0	0	19	2	9	1	0	0	2	5	0	12	0
	0530	,,	1011.5	985.5	..	19.6	13.3	7.3	10.2	45	..	0	..	2.8	0	0	18	2	11	1	0	0	2	1	1	13	0
	0830	,,	1013.0	987.2	+2.3	21.8	14.4	7.3	10.4	39	−12	0.1	−0.9	2.0	0	0	11	0	9	1	0	0	0	0	1	20	0
	1130	,,	1012.0	987.4	..	30.9	17.9	6.7	9.9	22	..	0.2	..	5.3	0	0	21	0	4	1	2	3	6	3	2	10	0
	1730	,,	1008.9	984.1	..	33.3	18.3	5.1	8.8	17	..	0.1	..	5.5	0	0	25	0	10	1	1	1	5	5	2	6	0
	2330	,,	1011.4	985.9	..	24.0	15.1	6.9	9.9	34	..	0	..	3.8	0	0	19	3	10	1	0	0	2	1	2	12	0
Barmer	0530	194	1010.9	988.7	..	22.1	15.5	10.0	12.3	46	..	0	..	1.0	0	0	11	0	0	0	0	0	0	7	4	20	0
	0830	,,	1012.4	990.3	+1.1	24.4	15.9	8.6	11.4	37	−19	−0.2	−0.5	1.8	0	0	23	3	0	0	2	1	2	2	13	8	0
	1130	,,	1011.7	990.3	..	33.2	19.4	8.7	11.3	22	..	0	..	2.5	0	0	27	0	4	2	4	5	3	1	8	4	0
	1730	,,	1007.9	986.5	..	34.0	19.5	8.2	10.9	21	..	0	..	1.5	0	0	16	3	2	0	2	1	3	2	3	15	0
	2330	,,	1010.8	988.8	..	26.5	16.5	8.0	10.7	32	..	0	..	1.5	0	0	18	0	0	0	0	1	4	8	5	13	0
Munabao	0830	80	1012.7	1003.5	..	23.6	16.0	9.2	12.0	42	..	0	..	2.0	0	0	12	0	4	0	2	1	3	2	0	19	0
	1730	,,	1009.1	1000.3	..	34.1	19.1	5.3	9.6	19	..	0	..	(a) 5.7	0	0	25	4	4	0	0	0	10	6	1	5	0
Rajasthan (East)																											
Pilani	0830	301	1013.8	979.5	..	22.5	16.3	11.3	13.5	50	..	0	..	7.6	0	0	31	1	0	0	9	7	12	1	1	0	0
	1730	,,	1009.4	976.0	..	29.0	18.6	10.6	13.0	65	..	0.1	..	6.3	0	0	28	5	4	0	0	0	2	11	6	3	0
Sikar	0830	433	1012.9	964.8	..	25.2	18.5	13.5	15.9	46	..	0	..	0.7	0	0	7	0	0	0	1	1	0	5	0	24	0
	1730	,,	1008.5	962.5	..	30.2	20.0	12.6	15.1	34	..	0.2	..	0.4	0	0	4	0	0	0	3	0	0	1	0	27	0
Alwar	0830	271	1011.5	980.8	..	21.4	17.8	15.3	17.1	69	..	0.2	..	0.1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	1008.8	978.6	..	29.4	21.4	16.3	19.0	47	..	0.4	..	0.5	0	0	7	3	0	0	0	0	1	1	2	24	0
Jaipur (Sanganer)	0230	390	1011.2	966.5	..	18.2	13.7	9.4	12.0	58	..	0.1	..	0.3	0	0	23	12	7	2	0	0	0	0	2	8	0
	0530	,,	1011.7	966.7	..	16.9	13.0	9.3	11.9	61	..	0.2	..	0.3	0	0	24	13	4	2	0	0	0	0	5	7	0
	0830	,,	1012.5	968.4	+0.1	23.9	16.3	10.0	12.3	42	−5	0.1	−0.9	1.9	0	0	12	6	0	4	1	0	0	0	1	19	0
	1130	,,	1011.5	968.4	..	30.2	17.5	6.4	9.7	23	..	0.1	..	0.6	0	0	30	1	0	1	3	3	5	6	10	1	1
	1730	,,	1008.7	965.6	..	29.1	17.5	7.6	10.6	26	..	0.1	..	4.0	0	0	28	7	1	2	1	0	1	3	13	3	0
	2330	,,	1011.6	967.0	..	19.7	14.4	9.8	11.2	53	..	0.1	..	0.2	0	0	15	10	3	1	0	0	0	0	1	16	0
Dholpur	0830	176	1012.4	992.2	..	22.5	17.5	13.8	15.9	58	..	0.1	..	2.1	0	0	20	1	2	0	1	8	3	3	2	11	0
	1730	,,	1008.6	988.9	..	29.2	19.9	14.2	15.7	41	..	0.3	..	0.7	0	0	9	1	2	0	1	0	0	3	2	22	0
Ajmer	0830	486	1013.5	958.5	+0.6	20.6	15.6	12.0	13.7	59	+12	0.2	−0.7	2.1	0	0	19	1	3	1	3	2	0	5	4	12	0
	1730	,,	1008.8	955.7	..	30.2	17.1	4.9	8.8	23	..	0.2	..	5.2	0	0	31	9	10	2	1	0	0	3	6	0	0
Tonk	0830	272	1012.1	980.9	..	20.6	17.5	15.5	17.5	71	..	0.1	..	3.4	0	0	30	1	0	3	3	0	1	1	21	1	0

(R) Register not received.

(a) Mean of 30 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—*contd.*																											
Tonk—*contd.*	1730	272	1007.7	977.6	..	30.2	21.5	16.1	18.5	44	..	0.2	..	3.0	0	0	27	5	8	2	0	0	0	2	10	4	0
Bhilwara	0830	..	..	..	..	21.2	15.4	11.3	12.8	52	..	0.5	..	2.7	0	0	22	1	2	0	1	2	11	5	0	9	0
	1730	..	..	..	..	30.6	17.9	7.5	10.4	24	..	0.3	..	4.6	0	0	29	3	11	8	2	1	2	1	1	2	0
Kota (Aerodrome)	0530	274	1011.7	981.5	..	18.9	15.8	13.3	15.5	69	..	0.2	..	2.6	0	0	8	0	0	0	0	0	4	4	0	23	0
	0830	,,	1013.0	982.0	..	24.3	17.4	12.3	14.3	48	..	0.3	..	5.5	0	0	24	2	2	1	0	0	2	14	3	7	0
	1130	,,	1012.3	981.9	..	30.6	18.6	9.2	11.7	27	..	0.1	..	7.2	0	0	28	3	4	9	3	2	2	2	3	3	0
	1730	,,	1009.2	978.9	..	30.8	18.3	8.0	10.9	24	..	0.4	..	6.3	0	0	26	5	9	5	0	0	0	4	3	5	0
	2330	,,	1011.6	981.8	..	22.2	16.9	12.8	15.0	56	..	0.2	..	2.2	0	0	7	0	0	0	0	0	2	5	0	24	0
Kota	0830	257	1013.0	983.7	+0.9	25.1	18.1	13.6	15.1	50	+1	0.2	−1.1	0.4	0	0	4	0	0	0	0	0	1	3	0	27	0
	1730	,,	1009.8	981.2	..	29.0	18.8	11.2	13.4	33	..	0.1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Erinpura (Jawai Dam)	0830	295	1013.1	979.1	..	22.7	18.6	15.8	18.1	66	..	0.1	..	3.6	0	0	23	1	0	0	0	18	2	2	0	8	0
	1730	,,	1009.2	976.4	..	29.2	22.7	19.2	22.2	55	..	0.1	..	0.5	0	0	5	0	1	2	0	0	0	2	0	26	0
Chambal (Rawat Bhatta Dam)	0830	351	1013.9	973.7	..	20.0	16.7	14.7	16.3	70	..	0.5	..	0.7	0	0	10	1	0	0	0	0	2	1	6	21	0
	1730	,,	1008.9	970.5	..	30.1	18.2	8.3	11.2	26	..	0.6	..	2.1	0	0	30	0	12	5	1	0	1	4	7	1	0
Udaipur	0230	582	1013.1	946.6	..	15.7	13.9	12.7	14.3	83	..	0	..	0.1	0	0	1	1	0	0	0	0	0	0	0	30	0
	0530	,,	1013.8	947.0	..	14.2	13.1	12.2	14.2	88	..	0.1	..	0.1	0	0	1	0	0	0	0	0	0	0	1	30	0
	0830	,,	1014.2	948.7	+1.1	21.1	16.6	13.7	15.3	63	+6	0.2	−0.6	0.1	0	0	1	0	0	0	0	0	0	0	1	30	0
	1130	,,	1011.9	948.3	..	29.4	19.4	13.1	14.1	38	..	0.1	..	2.2	0	0	14	1	5	2	1	0	3	0	2	17	0
	1730	,,	1009.1	945.4	..	27.7	19.6	14.0	16.2	43	..	1.2	..	0.8	0	0	5	0	1	3	0	0	0	1	0	26	0
	2330	,,	1013.2	947.3	..	18.0	15.2	13.3	15.0	74	..	0.1	..	0.1	0	0	1	0	1	0	0	0	0	0	0	30	0
Jhalwar	0830	321	1013.2	976.6	+0.9	21.4	17.1	13.9	16.0	62	+1	0.3	−1.1	0.1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	,,	1008.6	973.2	.	30.5	19.0	10.6	12.6	30	..	0.5	..	2.1	0	0	22	4	11	2	0	0	0	0	5	9	0
Madhya Pradesh (West)—Gwalior	0230	207	1011.1	987.0	..	17.3	14.4	12.1	14.1	72	..	0.2	..	1.4	0	0	14	0	0	0	1	7	6	0	0	17	0
	0530	,,	1011.6	987.4	..	16.1	13.8	11.8	13.9	77	..	0	..	1.7	0	0	15	0	0	0	0	11	4	0	0	16	0
	0830	,,	1012.6	989.1	+0.8	24.4	17.5	12.6	14.6	47	−12	0.1	−0.7	1.4	0	0	12	1	0	0	0	4	4	2	1	19	0
	1130	,,	1012.0	988.9	..	30.5	18.9	10.0	12.3	28	..	0.1	..	5.8	0	0	29	8	3	1	1	1	4	3	8	2	0
	1730	,,	1009.1	986.0	.	29.1	19.1	11.8	13.8	35	..	0.2	..	2.7	0	0	24	10	5	2	0	0	0	1	6	7	0
	2330	,,	1011.5	987.6	..	18.6	15.3	12.6	14.7	69	..	0.2	..	1.7	0	0	14	0	0	0	1	4	9	0	0	17	0
Sheopur	0830	235	1013.4	986.4	+1.9	21.5	17.3	14.2	16.3	64	−3	0.4	−1.6	4.3	0	1	26	1	2	0	9	11	3	1	0	4	0
	1730	,,	1009.2	983.0	..	28.3	19.9	14.3	16.4	43	..	0.2	..	4.8	0	0	30	8	10	5	1	1	1	0	4	1	0
Shivpuri	0830	464	1012.5	960.4	..	24.0	17.0	12.3	14.3	48	..	0.1	..	2.5	0	0	21	0	1	0	4	2	6	3	5	10	0
	1730	,,	1009.3	958.1	..	27.6	17.8	11.0	13.2	36	..	0.2	..	3.2	0	0	29	1	8	4	2	3	3	0	8	2	0
Nowgong	0830	229	1013.1	986.8	+1.0	21.5	17.6	14.8	16.8	66	−3	0.3	−1.4	3.7	0	0	25	0	0	1	0	3	19	2	0	6	0
	1730	,,	1008.9	983.5	..	29.6	20.3	14.1	16.1	40	..	0.6	..	1.9	0	0	18	5	3	1	0	0	6	0	3	13	0
Guna	0530	478	1012.9	957.5	..	14.2	12.8	11.7	13.7	85	..	0.2	..	2.3	0	0	16	1	1	1	10	0	1	1	1	15	0
	0830	,,	1013.0	959.3	+0.8	23.5	17.6	13.8	15.9	55	−7	0.3	−0.9	12.3	0	0	24	0	1	2	13	5	0	2	1	7	0
	1130	,,	1011.6	959.0	..	29.2	18.2	10.6	12.9	32	..	0.4	..	8.5	0	1	30	13	3	2	3	1	2	1	6	0	0
	1730	,,	1009.1	956.3	..	27.1	18.7	13.5	15.5	43	..	0.5	..	6.1	0	0	31	16	5	1	0	0	0	1	8	0	0
	2330	,,	1012.7	957.9	..	17.3	14.9	13.2	15.2	77	..	0.1	..	1.5	0	0	14	2	1	0	7	2	0	1	1	17	0
Nimach	0830	496	1013.6	957.8	+0.9	23.0	16.0	10.9	13.1	47	−8	0.5	−0.7	1.8	0	0	14	0	6	2	2	2	0	1	1	17	0
	1730	,,	1009.7	955.4	..	29.2	16.7	6.6	9.9	25	..	0.4	..	6.2	0	0	30	5	20	0	0	0	3	1	1	1	0
Rajgarh	0830	382	1012.7	969.3	..	21.3	16.4	12.7	14.7	58	..	0.1	..	1.8	0	0	22	15	0	4	0	0	0	3	0	9	0
	1730	,,	1008.4	966.3	..	29.3	18.1	9.3	11.7	29	..	0.1	..	2.2	0	0	30	22	0	5	0	0	0	3	0	1	0
Sagar	0830	551	1012.5	951.1	+0.8	23.6	17.3	13.0	15.2	52	−3	0.5	−1.3	3.2	0	1	18	0	4	5	0	1	4	4	1	12	0
	1730	,,	1008.6	948.1	..	26.9	19.0	13.7	15.9	46	..	0.9	..	4.1	0	1	21	0	7	7	0	0	0	3	5	9	0
Ratlam	0830	486	1013.0	958.5	+1.6	23.9	16.7	11.6	13.7	47	−16	0.3	−2.3	7.6	0	0	30	5	11	13	0	1	0	0	0	1	0
	1730	,,	1008.8	955.5	..	29.8	18.2	10.2	12.4	30	..	1.3	..	9.2	0	0	27	0	20	4	0	0	0	1	2	4	0
Bhopal (Bairagarh)	0230	523	1011.5	952.1	..	18.6	14.1	10.6	12.9	60	..	0.7	..	4.1	0	0	18	7	8	1	0	0	0	0	2	13	0
	0530	,,	1012.2	952.5	..	17.3	13.5	10.4	12.7	65	..	1.6	..	2.9	0	0	13	7	5	0	0	0	1	0	0	18	0
	0830	,,	1012.8	954.4	+0.7	23.9	16.5	11.1	13.4	45	−17	1.4	−0.4	5.5	0	2	14	4	5	2	2	0	0	2	1	15	0
	1130	,,	1011.4	953.9	..	28.6	17.3	8.9	11.5	30	..	0.8	..	12.8	0	7	20	10	12	2	0	1	0	1	1	4	0
	1730	,,	1008.5	951.1	..	27.9	17.3	9.5	12.0	32	..	2.2	..	10.9	0	0	31	19	7	1	0	0	0	0	4	0	0
	2330	,,	1011.9	953.0	..	20.7	14.7	10.1	12.3	51	..	0.9	..	6.8	0	0	23	9	11	2	0	0	0	0	1	8	0
Ujjain	0830	..	..	..	..	22.8	17.1	13.4	15.4	55	..	0.4	..	2.9	0	0	15	1	2	6	4	1	0	1	0	16	0
Narsinghpur	0830	356	1013.2	972.6	..	21.9	18.1	15.5	17.6	68	..	0.5	..	2.4	0	0	14	1	3	0	4	2	2	1	1	17	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in mill ibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in mill ibars: At station level	Mean pressure in mill ibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West) - (*Contd.*)																											
Narsinghpur—(*Contd.*)	1730	356	1008.3	968.9	..	28.8	20.0	14.1	16.2	42	..	0.6	..	6.0	0	0	30	12	6	6	0	1	0	4	1	1	0
Hoshangabad	0830	302	1013.4	978.9	+0.5	22.5	18.3	15.5	17.6	65	−3	0.5	−1.3	4.3	0	0	28	5	10	7	2	1	1	1	1	3	0
	1730	,,	1008.3	974.8	..	29.4	20.8	15.3	17.6	43	..	1.0	..	3.7	0	0	28	7	11	2	0	0	2	1	5	3	1
Indore	0530	567	1011.9	947.5	..	17.1	13.3	10.2	12.5	64	..	0.3	..	2.3	0	0	15	0	4	5	2	2	2	0	0	16	0
	0830	,,	1012.7	949.3	+0.7	22.9	16.1	11.2	13.3	48	−7	0.5	−1.1	3.3	0	0	16	1	5	8	0	1	1	0	0	15	0
	1130	,,	1011.1	949.0	..	28.6	17.5	9.3	11.9	31	..	0.4	..	11.2	0	5	24	4	7	12	6	0	0	0	0	2	0
	1730	,,	1008.0	946.1	..	28.3	17.2	8.9	11.0	30	..	0.9	..	10.6	0	5	24	5	11	10	2	0	0	0	1	2	0
	2330	,,	1012.0	948.1	..	19.9	14.5	10.3	12.6	54	..	0.3	..	2.6	0	0	14	0	5	3	3	0	2	1	0	17	0
Rajpur (Jhabua)	0830	293	1013.2	979.9	..	21.9	17.2	13.7	15.9	61	..	0.5	..	1.0	0	0	10	0	7	1	2	0	0	2	0	21	0
	1730	,,	1008.4	976.2	..	13.3	20.1	12.0	14.4	32	..	1.0	..	4.0	0	0	22	0	12	1	4	6	1	1	3	9	0
Chhindwara	0830	685	1012.5	936.5	+1.4	22.6	16.9	12.9	15.1	55	−15	1.7	−1.2	4.4	0	0	27	4	17	2	1	0	0	0	3	4	0
	1730	,,	1008.0	933.3	..	26.6	18.1	12.3	14.6	43	..	2.0	..	6.6	0	0	31	3	13	3	3	0	0	0	9	0	0
Seoni	0830	619	1012.7	941.0	+1.0	23.1	17.8	14.4	16.5	59	−2	2.8	+0.9	3.5	0	0	25	4	10	2	3	0	0	1	5	6	0
	1730	,,	1008.4	940.6	..	26.8	19.5	15.1	17.4	50	..	2.9	..	4.8	0	0	31	5	12	8	3	2	0	0	1	0	0
Betul	0830	653	1013.3	940.3	+1.1	22.3	17.2	13.8	15.8	59	−10	1.8	−1.2	3.7	0	0	22	3	5	6	7	1	0	0	0	9	0
	1730	,,	1008.5	937.0	..	26.0	18.3	13.4	15.4	46	..	2.5	..	6.6	0	0	31	9	17	1	1	0	0	0	3	0	0
Khandawa	0830	318	1012.4	976.1	+0.1	21.8	17.7	14.8	16.9	65	+3	1.2	+0.6	1.4	0	0	20	2	5	2	4	1	1	0	5	11	0
	1730	,,	1008.1	973.2	..	30.1	20.1	13.4	15.3	36	..	1.4	..	3.3	0	0	31	11	10	2	0	0	0	0	8	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1011.5	974.9	..	18.5	16.9	16.1	18.3	89	..	0.5	..	0.6	0	0	6	1	0	0	0	2	1	2	0	25	0
	0830	,,	1012.6	976.5	−0.8	22.2	18.6	16.3	18.5	69	+2	0.6	−1.2	0.9	0	0	14	0	1	2	0	1	3	7	0	17	0
	1130	,,	1011.5	976.2	..	28.7	19.1	12.1	14.3	37	..	0.7	..	3.4	0	0	28	7	5	1	0	2	8	5	0	3	0
	1730	,,	1008.7	973.5	..	27.2	19.9	15.1	17.3	48	..	1.3	..	1.8	0	0	20	14	2	0	0	0	0	2	2	11	0
	2330	,,	1011.2	975.0	..	20.6	17.9	16.1	18.3	76	..	0.0	..	0.6	0	0	7	1	0	0	0	2	2	2	0	24	0
Sidhi	0830	,,	..	..	..	22.5	18.7	16.3	18.5	68	..	0.4	..	1.3	0	0	12	1	0	0	0	2	4	3	2	19	0
	1730	,,	..	..	..	28.4	19.4	14.1	16.1	42	..	0.6	..	1.8	0	0	11	3	1	3	1	0	0	0	3	20	0
Umaria	0830	459	1012.7	961.1	..	23.8	18.9	16.0	18.2	62	−5	1.1	−1.3	2.3	0	0	23	4	2	8	2	3	2	2	0	8	0
	1730	,,	1009.1	958.2	..	26.8	20.5	17.0	19.4	56	..	1.6	..	2.5	0	0	27	11	2	6	0	0	0	8	0	4	0
Jabalpur	0530	393	1011.9	966.7	..	17.1	16.4	15.8	18.1	92	..	1.1	..	0.1	0	0	1	0	0	0	0	1	0	0	0	30	0
	0830	,,	1013.0	968.6	+1.1	22.3	18.6	16.1	18.3	68	−3	1.3	−0.4	1.9	0	0	20	0	5	1	10	4	0	0	0	11	0
	1130	,,	1011.3	967.8	..	28.4	19.2	12.6	14.8	39	..	1.7	..	4.9	0	0	30	5	9	4	1	0	1	4	6	1	0
	1730	,,	1008.7	965.1	..	27.2	19.4	13.9	15.9	45	..	1.9	..	3.1	0	0	25	3	15	5	2	0	0	0	0	6	0
	2330	,,	1011.5	966.8	..	19.9	17.8	16.4	18.6	80	..	0.6	..	0.2	0	0	1	0	0	0	1	0	0	0	0	30	0
Ambikapur	0830	611	1013.3	944.9	+1.6	20.9	18.5	17.0	19.5	79	+2	2.4	0	2.6	0	0	17	4	6	2	0	2	3	0	0	14	0
	1730	,,	1008.6	941.5	..	25.3	20.3	17.3	20.2	63	..	2.0	..	5.9	0	0	31	21	5	1	1	1	0	1	1	0	0
Pendra	0530	625	1011.8	941.3	..	17.7	15.1	13.2	15.3	75	..	2.6	.	2.5	0	0	21	9	1	0	0	0	1	2	8	10	0
	0830	,,	1012.8	943.3	+0.6	22.1	17.5	14.5	16.6	63	−4	2.7	+0.3	3.2	0	0	27	10	1	0	0	0	3	3	10	4	0
	1130	,,	1011.2	942.6	..	26.2	18.2	12.8	15.1	45	..	2.9	..	6.3	0	0	30	9	9	3	0	1	0	4	4	1	0
	1730	,,	1008.8	940.1	..	25.0	18.7	14.8	16.9	54	..	3.0	..	3.3	0	0	28	9	5	0	0	1	2	0	11	3	0
	2330	,,	1011.9	941.8	..	19.4	16.2	13.9	16.1	71	..	1.5	..	3.0	0	0	23	4	1	1	0	0	1	8	8	8	0
Mandla	0830	443	1013.2	963.0	+1.3	20.5	17.6	15.7	17.8	74	−8	1.5	−2.1	1.1	0	0	8	4	0	0	0	0	0	0	4	23	0
	1730	,,	1008.4	959.4	..	27.4	19.5	13.9	16.2	45	..	1.3	..	2.8	0	0	20	10	1	0	0	0	0	0	9	11	0
Champa	0830	245	1012.5	984.7	+1.2	23.5	20.3	13.3	21.2	73	−6	3.1	−0.2	1.8	0	0	20	9	4	0	0	0	0	0	7	11	0
	1730	,,	1008.7	981.3	..	27.8	21.4	17.6	20.2	55	..	3.4	..	2.4	0	0	24	11	2	4	1	0	0	1	5	7	0
Raigarh	0830	220	1012.1	987.1	+1.3	25.1	20.6	17.8	20.5	65	−9	2.7	−1.0	3.0	0	0	29	2	18	4	2	1	0	1	1	2	0
	1730	,,	1008.0	985.5	..	28.2	21.7	17.8	20.6	55	..	2.9	..	0.5	0	0	6	2	4	0	0	0	0	0	0	25	0
Raipur	0530	298	1010.8	976.7	..	20.9	19.0	17.8	20.5	83	..	3.6	..	2.3	0	0	17	9	5	0	0	0	0	0	2	14	1
	0830	,,	1012.5	978.8	+0.9	24.6	20.4	17.9	20.5	67	−4	3.4	+1.1	4.7	0	0	24	9	9	5	0	0	0	0	0	7	1
	1130	,,	1011.2	978.0	..	28.5	21.0	16.1	18.8	49	..	3.3	..	6.5	0	0	30	6	13	8	1	0	0	0	0	1	2
	1730	,,	1008.5	975.3	..	28.0	21.2	16.9	19.6	53	..	3.1	..	4.7	0	0	22	8	9	3	1	0	0	0	0	9	1
	2330	,,	1010.5	976.8	..	23.5	20.3	18.3	21.1	73	..	2.0	..	2.1	0	0	15	1	8	2	1	1	2	0	0	16	0
Kanker	0830	402	1012.1	967.0	+0.7	23.9	20.8	19.0	21.7	75	−4	3.0	−0.3	0.5	0	0	7	0	5	0	1	0	0	1	0	24	0
	1730	,,	1008.0	963.6	..	27.3	21.6	18.2	21.0	59	..	3.0	..	1.7	0	0	24	4	19	0	0	0	0	1	0	7	0
Jagdalpur	0530	553	1009.6	947.7	..	20.8	19.8	19.3	22.4	91	..	4.6	..	0.6	0	0	5	0	2	1	0	0	0	1	1	26	0
	0830	,,	1010.9	949.7	+0.2	24.4	21.2	19.5	22.7	74	−5	4.6	+1.4	3.2	0	0	20	3	14	2	0	0	0	1	0	11	0
	1130	,,	1009.2	948.7	..	27.6	22.0	19.2	22.4	60	..	5.4	..	5.5	0	0	28	6	15	3	2	0	0	0	2	3	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(Contd.)																											
Jagdalpur—(contd.)	1730	553	1007.2	946.6	..	26.2	21.8	19.7	22.9	69	..	5.8	..	2.3	0	0	15	1	12	2	0	0	0	0	0	16	0
	2330	,,	1009.9	948.3	..	22.3	20.7	19.9	23.2	86	..	2.9	..	0.8	0	0	7	0	5	1	0	0	0	0	1	24	0
Gujarat Region																											
Deesa	0830	136	1012.9	997.2	+0.8	21.8	16.5	12.5	14.5	56	..	0	..	3.4	0	0	29	4	13	10	1	0	0	0	1	2	0
	1730	,,	1008.9	993.8	..	33.3	19.5	8.8	11.5	22	..	0.1	..	3.8	0	0	30	6	5	6	7	2	1	1	2	1	0
Radhanpur	0830	39	1012.7	1009.3	..	23.6	19.1	16.7	19.1	64	..	0	..	3.1	0	0	24	1	10	1	7	2	1	0	2	7	0
	1730	,,	1009.3	1006.0	..	34.2	23.9	[illegible]	21.1	39	..	0	..	3.0	0	0	23	2	7	1	6	1	1	2	3	8	0
Idar	0830	219	1012.6	987.8	..	26.0	17.0	9.7	12.1	37	..	0·4	..	3.6	0	0	23	2	20	0	0	0	0	0	1	8	0
	1730	,,	1008.9	984.7	..	31.5	19.6	9.1	11.8	25	..	0	..	2.7	0	0	26	0	4	13	4	0	1	4	0	5	0
Ahmadabad	0230	55	1010.5	1004.0	..	20.3	16.9	14.5	16.5	70	..	0	..	7.7	0	0	29	5	14	6	1	0	0	0	3	2	0
	0530	,,	1010.8	1004·3	..	18.7	16.1	14.1	16.2	75	..	0.2	..	7.8	0	0	30	3	16	8	1	0	0	0	2	1	0
	0830	,,	1012.6	1006.2	+0.5	23.2	18.2	14.7	16.8	59	−5	0.9	−0.4	7.2	0	0	25	2	7	14	2	0	0	0	0	6	0
	1130	,,	1012.4	1006.2	..	31.3	21.0	14.4	16.5	36	..	0.8	..	12.7	0	5	26	4	7	14	4	1	0	0	1	0	0
	1730	,,	1009.1	1002.9	..	32.4	21.2	14.1	16.1	33	..	0.5	..	9.0	0	0	30	4	14	8	1	0	0	0	3	1	0
	2330	,,	1011.1	1004.7	..	21.8	17.9	15.2	17.3	69	..	0.1	..	5.3	0	0	21	6	8	3	1	0	0	0	3	10	0
Dohad	0830	333	1012.7	975.0	+0.6	22.5	17.2	13.3	15.3	56	14	0.5	−1.4	5.8	0	0	29	0	9	13	3	3	1	0	0	2	0
	1730	,,	1008.2	971.5	..	30.8	19.1	10.2	12.5	28	..	0.4	..	7.0	0	1	29	4	8	8	1	0	6	3	0	1	0
Baroda Aerodrome	0830	38	1012.3	1008.0	..	25.0	19.2	15.4	17.5	56	..	0.7	..	6.8	0	6	31	7	8	5	6	0	0	1	4	0	0
	1130	,,	1012.0	1007.7	..	32.5	20.2	14.4	13.7	28	..	0.3	..	14.1	0	8	23	6	5	12	4	1	0	0	3	0	0
	1730	,,	1008.5	1004·3	..	32.0	21.0	14.8	15.9	33	..	1.0	..	10.2	0	0	31	9	8	4	0	0	0	1	9	0	0
Baroda	0530	34	1010.5	1006·5	..	20.1	17.9	16.4	18.6	80	..	0.3	..	0.1	0	0	1	0	1	0	0	0	0	0	0	30	0
	0830	,,	1012.4	1008.4	+0.9	23.9	19.6	16.9	19.3	65	−9	0.2	−1.3	0.3	0	0	5	0	4	0	0	0	0	0	1	26	0
	1130	,,	1012.1	1008.2	..	33.1	22.7	16.5	19.0	38	..	0.1	..	2.3	0	0	20	0	10	5	5	0	0	0	0	11	0
	1730	,,	1008.7	1004.8	..	33.6	23.3	[illegible]	20.2	39	..	0.6	..	1.1	0	0	11	1	10	1	0	0	0	0	2	17	0
	2330	,,	1010.8	1006.8	..	23.9	19.3	16.3	18.5	63	..	0	..	0.3	0	0	4	0	4	0	0	0	0	0	0	27	0
Broach	0830	17	1011.6	1009.6	+1.1	23.5	18.5	15.1	17.4	61	−13	1.0	−0.9	4.3	0	0	31	0	14	5	10	1	1	0	0	0	0
	1730	,,	1007.7	1005.8	..	34.0	21.3	12.9	15.0	29	..	0.3	..	4.7	0	0	31	0	14	3	12	1	1	0	0	0	0
Surat	0530	12	1010.1	1008.7	..	22.8	18.8	16.0	18.4	67	..	0.6	..	9.4	0	0	28	3	16	7	1	1	0	0	0	3	0
	0830	,,	1011.9	1010.5	+0.4	25.9	19.9	15.9	18.3	56	−12	0.9	−1.3	7.2	0	0	30	3	18	8	0	0	0	0	1	1	0
	1130	,,	1011.6	1010.3	..	33.4	22.6	16.1	18.6	36	..	1.3	..	11.3	0	2	29	2	14	13	2	0	0	0	0	0	0
	1730	,,	1008.1	1006.8	..	33.3	22.7	15.9	19.1	38	..	1.2	..	7.9	0	0	31	4	9	3	1	1	3	0	5	0	0
	2330	,,	1010.4	1009.1		25.9	21.3	[illegible]	19.3	58	..	0.4	..	9.6	0	0	30	5	26	1	2	0	1	0	1	1	0
Saurashtra and Kutch																											
Bhatakia Bhimasar (R)	0830	47																									
	1730	,,																									
Naliya	0830	21	1012.2	1009.9	..	21.9	19.1	17.2	20.0	76	..	0.8	..	0.0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1009.2	1006.8	..	31.7	20.6	12.8	15.3	34	..	0.2	..	8.0	0	0	29	0	5	0	1	0	15	4	4	2	0
Bhuj (Rudramata)	0230	80	1010.8	1001.4	..	21.4	16.7	13.0	15.2	60	..	0.2	..	1.3	0	0	8	1	0	0	1	1	3	1	1	23	0
	0530	,,	1010.9	1001.5	..	19.5	16.2	13.5	15.7	69	..	0.1	..	1.2	0	0	7	1	1	0	0	0	3	1	1	24	0
	0830	,,	1012.6	1003.4	+1.0	23.8	18.4	14.7	16.8	58	+1	0.3	−0.8	0.5	0	0	5	1	0	0	0	0	0	0	1	29	0
	1130	,,	1011.4	1003.5	..	32.1	19.6	10.0	12.6	27	..	0.2	..	9.7	0	2	25	3	12	4	2	0	2	1	3	4	0
	1730	,,	1008.8	999.9	..	34.1	19.1	6.3	9.9	19	..	0.6	..	10.3	0	2	22	0	10	4	0	2	6	2	0	7	0
	2330	,,	1011.2	1002.0	..	24.0	17.5	12.5	14.7	50	..	0.0	..	3.2	0	0	14	0	1	0	1	0	6	5	1	17	0
Kandla Aerodrome	0830	35	1012.7	1008.8	..	25.9	18.0	11.9	14.2	43	..	0.3	..	14.4	0	2	28	3	2	0	0	0	1	2	22	1	0
	1130	,,	1012.6	1008.8	..	33.1	19.4	8.7	11.4	23	..	0.3	..	15.6	0	5	25	8	8	6	4	0	0	3	1	1	0
	1730	,,	1009.1	1005.3	..	34.3	18·9	5·8	9·3	17	..	0·4	..	13·6	0	6	23	4	2	9	3	3	5	1	2	2	0
New Kandla	0830	14	1013.0	1011.3	..	24.9	19.2	15.2	17.4	56	..	0.5	..	9.7	0	0	30	12	3	1	0	0	0	3	11	1	0
	1730	,,	1009.6	1008.0	..	33.0	20.6	11.6	14.2	29	..	0.5	..	11.7	0	2	28	4	4	6	6	2	5	3	0	1	0
Mandvi	0830	9	1012.2	1011.1	+1.2	24.5	18.9	15.1	17.3	58	−19	0.7	−1.1	12.7	0	2	28	9	15	1	0	0	0	0	5	1	0
	1730	,,	1009.2	1008.1	..	29.4	23.9	21.1	25.2	63	..	0.9	..	17·8	0	10	21	0	2	1	1	3	11	7	0	0	6
Surendranagar	0830	74	1012.5	1004·0	+1.2	25.4	18.4	13.1	15.5	48	−19	(a) 0.3	−1.4	(a) 5·6	0	0	26	10	7	3	0	0	1	2	3	4	0
	1730	,,	1008.7	1000.5	..	33.8	20.1	9.6	12.3	24	..	0.7	..	7·0	0	0	31	6	14	9	0	0	0	0	2	0	0
Jamnagar (Aerodrome)	0530	23	1010.6	1007.9	..	21.0	17.4	14.7	16.9	69	..	0.2	..	3.6	0	0	18	2	2	3	3	6	2	0	0	13	0
	0830	,,	1012.3	1009.7	+0.6	24.2	19.0	15.2	17.7	59	−20	0.8	−0.7	3.4	0	0	19	0	4	4	3	3	3	1	1	12	0
	1130	,,	1012.5	1010.0	..	31.1	20.6	13.5	15.7	35	..	0.2	..	12.6	0	5	24	6	16	4	0	0	0	1	2	2	0
	1730	,,	1008.8	1006.3	..	32.2	20.2	11.6	13.9	29	..	0.5	..	16.7	0	10	21	16	5	0	0	0	0	3	7	0	0
	2330	,,	1011.1	1008.5	..	24.6	19.9	16.7	19.5	64	..	0.1	..	6.7	0	1	22	3	2	3	2	2	1	7	3	8	0

(R)—Register[illegible] (a) [illegible]

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms per hour	Wind speed (K m.p.h.): 62 or more	Wind speed (K m.p.h.): 20 to 61	Wind speed (K m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch— (*Contd.*)																											
Dwarka	0830	11	1012.3	1011.0	+0.4	24.8	22.7	21.7	25.9	83	+4	0.3	−1.6	7.5	0	0	30	15	8	4	0	0	0	2	1	1	0
	1730	,,	1009.5	1008.1	..	28.9	25.1	22.9	28.8	73	..	0.1	..	17.5	0	11	20	5	2	1	0	0	0	9	14	0	0
Rajkot	0830	138	1012.3	996.7	+1.1	25.2	18.7	14.2	16.3	52	−21	0.1	−1.6	2.3	0	0	8	3	2	2	1	0	0	0	0	23	0
	1130	,,	1011.3	996.5	..	32.8	21.3	13.4	15.9	32	..	0.1	..	15.5	0	15	14	4	14	7	2	0	0	0	2	2	0
	1730	,,	1008.1	993.6	..	34.2	21.1	11.6	14.3	27	..	0	..	15.9	0	13	13	5	15	1	0	0	1	0	2	5	2
Bhavnagar Aerodrome	0830	11	1012.2	1011.0	+0.6	25.8	19.5	15.2	17.6	53	−2	0.6	−1.6	10.5	0	4	26	14	3	2	1	1	1	0	6	1	2
	1130	,,	1012.1	1010.9	..	31.4	22.0	16.2	18.8	41	..	0.5	..	19.2	0	15	16	2	19	8	2	0	0	0	0	0	0
	1730	,,	1008.6	1007.4	..	33.2	21.2	13.2	15.4	31	..	0.9	..	22.3	0	20	11	6	15	5	4	0	0	0	0	0	1
Porbander Aerodrome	0830	7	1012.2	1011.2	+1.3	26.3	19.7	15.1	17.6	53	−27	0.8	−1.0	7.1	0	1	23	8	4	4	3	2	0	0	3	7	0
	1130	,,	1012.2	1011.2	..	32.8	20.8	12.2	14.8	31	..	0.5	..	13.2	0	7	23	6	8	8	1	1	2	0	2	1	2
	1730	,,	1008.7	1007.9	..	31.7	21.4	14.1	17.1	38	..	1.1	..	17.1	0	11	20	2	5	2	0	0	0	11	11	0	0
Porbander*	0830	7																									
	1730	,,																									
Keshod	0830	51	1012·6	1006·1	..	24·2	17·7	12·5	15·0	50	..	0·4	..	11·7	0	3	28	0	13	17	0	0	0	0	0	0	1
	1130	,,	1011·7	1006·0	..	32·3	19·9	10·7	13·6	28	..	0·4	..	15·9	0	9	22	8	13	7	0	0	0	0	1	0	2
	1730	,,	1008·3	1002·6	..	33·5	20·1	9·5	12·6	25	..	0·6	..	21·4	0	19	12	1	8	3	0	2	8	6	2	0	1
Mohuva	0830	8	..	..	..	25·6	..	..	..	..	..	2·2	..	4·2	0	0	30	8	15	2	2	0	0	0	3	1	0
	1730	..	..	..	..	32·0	..	..	..	..	..	1·2	..	4·5	0	0	31	0	4	12	13	2	0	0	0	0	0
Veraval	0230	8	1009·8	1008·9	..	22·6	18·9	16·2	18.8	69	..	0·7	..	10·1	0	2	26	15	9	1	0	0	0	0	3	3	0
	0530	,,	1009·8	1008·9	..	21·8	17·8	14·8	17·1	67	..	0·6	..	11·9	0	2	28	16	10	1	2	0	0	0	1	1	0
	0830	,,	1011·7	1010·8	+0·1	25·4	19·8	15·3	17·8	56	−1·0	1·8	0	11·0	0	1	29	9	19	1	0	0		1	0	1	0
	1130	,,	1011·6	1010·7	..	33·2	22·1	14·6	17·6	36	..	1.5	..	17·9	0	14	17	3	12	5	1	4	2	3	1	0	0
	1730	,,	1008·7	1007·8	..	29·4	25·0	22·9	28·1	68	..	1·9	..	17·4	0	12	19	0	0	0	1	7	9	8	6	0	0
	2330	,,	1010·8	1009·9	..	24·3	21·0	18·9	22·1	74	..	0·7	..	9·1	0	1	28	15	7	1	0	0	1	0	5	2	0
Konkan																											
Dahanu	0830	5	1010·7	1010·2	+0·1	26·4	21·1	18·0	20·8	61	−18	2·6 (a)	−0·4	6·7 (a)	0	1	27	5	8	9	6	0	0	0	0	3	0
	1730	,,	1007·3	1006·8	..	30·5	25·0	22·2	27·3	63	..	2·6	..	19·5	0	17	13	18	1	0	0	0	2	0	9	0	0
Bombay (Santa Cruz)	0230	14	1008·7	1007·0	..	24·0	21·6	20·2	23·8	80	..	1·8	..	3·5	0	0	16	0	5	9	2	0	0	0	0	15	0
	0530	,,	1008·9	1007·2	..	23·5	21·0	19·4	22·9	79	..	1·9	..	5·3	0	0	19	1	4	11	2	0	1	0	0	12	0
	0830	,,	1010·7	1009·1	−0·6	27·3	22·2	19·3	22·7	63	−19	3·9	+0·8	5·7	0	0	22	0	4	11	6	0	1	0	0	9	0
	1130	,,	1010·4	1008·8	..	32·0	23·3	18·4	21·6	46	..	2·9	..	9·7	0	0	29	0	4	13	7	2	0	2	1	2	0
	1730	,,	1007·4	1005·8	..	30·4	24·1	20·9	24·9	57	..	3·0	..	12·6	0	1	30	15	2	1	0	0	0	2	11	0	0
	2330	,,	1009·7	1008·0	..	25·1	22·4	21·0	25·0	79	..	2·5	..	2·4	0	0	10	0	3	3	2	1	1	0	0	21	0
Bombay	0330	11	1010·7	1009·5	−0·6	27·1	23·9	22·3	27·1	76	−5	3·3	+0·2	3·6	0	0	27	3	13	9	2	0	0	0	0	4	0
	1130	,,	1010·5	1009·3	..	31·2	24·7	21·6	25·8	57	..	2·5	..	3·6	0	0	25	0	9	10	3	1	0	0	2	6	0
	1730	,,	1007·5	1006·3	..	29·5	25·6	23·9	29·7	72	..	2·8	..	6·4	0	0	30	6	0	0	0	0	1	2	21	1	0
Alibag	0830	7	1010·6	1009·8	−0·5	26·6	23·0	21·4	25·2	72	−4	2·3	−1·6	5·6	0	1	25	10	7	2	1	1	0	1	4	5	0
Bhira	0330	96	1010·1	999·3	..	27·2	21·0	16·9	19·9	57	..	3·0	..	6·5	0	0	25	4	9	7	1	0	0	1	3	6	0
	1730	,,	1006·7	996·0	..	31·2	24·9	21·7	26·3	58	..	2·6	..	1·9	0	0	19	0	1	1	3	8	6	0	0	12	0
Harnai	0330	29	1010·0	1007·7	−0·3	27·8	22·8	20·0	23·7	64	−11	5·3	+1·0	8·5	0	5	21	4	6	9	4	0	0	1	2	5	0
	1730	,,	1007·2	1004·9	..	29·3	25·7	24·1	30·0	74	..	4·8	..	19·0	0	14	16	4	0	0	0	2	0	3	21	1	0
Ratnagiri	0830	35	1009·9	1005·9	−1·1	26·1	23·2	21·6	25·9	78	..	3·8	..	6·9	0	0	28	0	1	10	16	0	0	0	1	3	0
	1730	,,	1006·9	1003·0	..	29·3	25·2	23·5	28·9	72	..	3·8	..	9·7	0	3	28	4	1	0	1	2	2	4	17	0	0
Devgarh	0830	36	1009·9	1005·9	−0·7	26·4	24·0	22·7	27·9	83	−1	4·1	−0·5	5·9	0	1	29	0	7	16	5	0	1	0	1	1	0
	1730	,,	1006·8	1002·8	..	29·8	26·3	24·6	31·3	75	..	4·1	..	17·3	0	8	23	1	1	2	1	3	1	1	21	0	0
Vengurla	0230	9	1008·1	1007·1	..	24·7	23·9	23·5	28·9	93	..	4·4	..	1·2	0	0	6	3	1	1	1	0	0	0	0	25	0
	0530	,,	1008·4	1007·4	..	24·1	23·5	23·1	28·4	94	..	4·2	..	2·5	0	1	11	9	1	2	0	0	0	0	0	19	0
	0830	,,	1010·3	1009·3	−0·4	26·0	24·1	23·2	28·6	85	0	3·9	−0·6	1·9	0	0	10	2	4	3	0	1	0	0	0	21	0
	1130	,,	1009·9	1008·9	..	30·9	25·3	22·7	27·6	64	..	3·3	..	8·0	0	1	28	0	8	5	2	3	6	5	0	2	0
	1730	,,	1007·0	1006·0	..	29·3	25·8	24·3	30·4	75	..	5·1	..	6·3	0	0	26	0	0	2	1	2	10	6	5	5	0
	2330	,,	1009·4	1008·4	..	25·4	24·2	23·6	29·3	90	..	3·9	..	2·3	0	0	12	8	0	2	2	0	0	0	0	19	0
Madhya Maharashtra																											
Nandurbar	0830	206	1012·4	989·2	..	27·2	20·8	16·9	19·4	54	..	0·7	..	13·5	0	7	22	2	9	16	0	0	0	1	1	2	0
	1730	,,	1008·0	985·3	..	32·6	23·0	17·4	20·2	41	..	1·1	..	7·9	0	0	29	5	9	7	2	0	2	0	4	2	0
Jalgaon	0830	201	1012·8	989·8	+1·1	23·4	18·6	15·3	17·5	61	−9	2·2	−0·1	7·6	0	0	26	0	0	20	3	2	1	0	0	5	0
	1730	,,	1008·5	986·1	..	32·1	20·4	12·2	14·5	31	..	2·0	..	12·8	0	7	22	4	1	23	0	0	0	0	1	2	0

(a) Mean of 30 days

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in milibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in milibars: At station level	Mean pressure in milibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra (*Contd.*)																											
Malegaon	0830	437	1012·7	963·4	+0·3	22·8	17·8	14·3	16·3	59	—4	2·3	—0·3	3·4	0	0	21	2	1	3	1	0	3	4	7	10	
	1730	,,	1007·1	959·4	..	30·9	19·7	11·3	13·8	32	..	3·0	..	[1]1·2	0	3	28	3	11	13	2	1	0	0	1	0	
Deolali (Aerodrome)	0830	571	1012·9	949·0	..	22·0	18·5	16·5	18·8	71	..	2.9	..	3·7	0	0	19	10	1	5	0	0	1	0	2	12	
	1730	,,	1007·7	945·5	..	29·4	20·1	14·2	16·7	41	..	3·5	..	7·3	0	0	27	1	11	3	1	0	3	3	5	4	
Ahmadnagar	0830	657	1011·9	939·3	+0·1	23·6	18·4	14·8	17·4	60	—4	4·7	+2·2	5·9	0	1	24	5	7	0	4	0	2	1	6	6	
	1730	,,	1006·1	935·2	..	28·8	19·7	13·7	16·3	44	..	4·6	..	6·2	0	0	31	3	11	1	9	0	2	1	4	0	
Poona (Aerodrome)	0230	593	1009·9	943·5	..	21·1	19·3	18·2	21·0	84	..	2·3	..	4·4	0	0	17	0	2	5	0	0	0	7	3	14	
	0530	,,	1010·4	943·7	..	19·8	18·4	17·4	20·1	87	..	2·9	..	4·8	0	1	16	0	2	6	0	0	1	7	1	14	
	0830	,,	1011·8	945·6	..	22·5	19·5	17·7	20·5	75	..	4·3	..	4·5	0	0	18	0	1	9	1	0	0	6	1	13	
	1130	,,	1010·1	945·3	..	28·2	20·5	16·0	18·5	50	..	3·7	..	[1]2·9	0	22	6	0	2	21	4	1	0	0	0	3	
	1730	,,	1006·6	942·1	..	28·4	20·6	15·7	18·5	51	..	4·5	..	[1]4·6	0	10	20	4	5	5	3	2	1	5	5	1	
	2330	,,	1010·6	944·5	..	22·5	19·7	17·9	20·9	77	..	3·2	..	7·4	0	1	23	2	5	3	0	0	1	12	1	7	
Poona	0530	559	1010·2	947·3	..	19·8	18·5	17·7	20·2	88	..	2·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	
	0830	,,	1011·8	949·3	—0·3	22·2	19·6	18·2	20·9	79	+2	3·0	—0·2	0·1	0	0	1	1	0	0	0	0	0	0	0	30	
	1130	,,	1009·7	948·6	..	28·6	20·7	16·1	18·6	49	..	3·0	..	1·9	0	0	14	0	7	2	2	1	0	1	1	17	
	1730	,,	1006·2	945·4	..	28·9	21·1	16·6	19·3	52	..	4·0	..	1·7	0	0	8	0	4	0	2	0	1	0	1	23	
	2330	,,	1010·3	948·0	..	22·5	19·7	18·1	20·9	77	..	2·4	..	0·2	0	0	2	0	0	1	0	0	1	0	0	29	
Jeur	0830	521	1010·9	952·8	+0·2	23·4	19·0	16·2	18·8	66	—5	4·0	+0·5	7·1	0	1	28	3	15	4	2	1	1	2	1	2	
	1730	,,	1006·0	949·3	..	29·5	20·4	14·8	17·4	44	..	4.9	..	9·2	0	3	27	5	9	11	2	1	1	0	1	1	
Baramati	0830	551	1011·7	950·4	+0·6	23·8	19·3	16.6	19·0	66	—6	3·3	—0·2	3·4	0	0	30	8	4	12	1	0	1	2	2	1	
	1730	,,	1006·2	946·4	..	29·5	20·6	15·4	17·8	46	..	4·2	..	7·2	0	0	30	4	8	10	2	1	2	1	2	1	
Sholapur	0530	479	1010·1	957·2	..	21·5	18·9	17·4	20·0	78	..	4·4	..	6·0	0	0	28	7	12	6	1	1	0	1	0	3	
	0830	,,	1011·5	958·0	—0·1	24·7	20·4	18·0	20·8	67	+3	4·1	+1·0	6·1	0	1	30	7	14	6	1	0	1	1	1	0	
	1130	,,	1009·7	957·3	..	29·4	21·8	16·9	19·9	49	..	4·2	..	[1]2·0	0	6	25	6	11	6	4	2	1	1	0	0	
	1730	,,	1006·3	954·0	..	30·2	21·4	16·1	19·0	46	..	4·9	..	9·4	0	3	28	8	14	4	1	2	1	0	1	0	
	2330	,,	1010·0	956·6	..	24·2	19·6	16·5	19·5	65	..	3·5	..	8·6	0	0	30	2	17	9	1	0	1	0	0	1	
Miraj	0830	554	1010·9	949·5	—0·4	23·8	19·7	17·3	19·6	68	—4	4·7	+0·7	..	0	0	16	2	1	6	1	0	0	2	4	15	
	1730	,,	1006·0	945·8	..	29·0	20·9	16·1	18·1	49	..	5·5	..	..	0	0	14	6	2	2	1	0	1	0	2	17	
Kolhapur	0530	570	1009·6	945·8	..	20·5	19·0	18·1	20·8	87	..	3·0	..	6·2	0	1	23	2	3	17	0	0	1	1	0	7	
	0830	,,	1010·7	947·6	—0·3	23·9	20·4	17·8	21·3	70	—13	3·3	0	11·6	0	2	28	1	14	14	0	0	0	1	0	1	
	1130	,,	1009·1	947·0	..	28·8	21·7	17·9	20·8	54	..	3·8	..	18·0	0	14	17	0	11	18	0	2	0	0	0	0	
	1730	,,	1005·9	943·9	..	28·4	21·5	17·5	20·5	55	..	4·8	..	[1]2·6	0	4	26	3	8	12	0	0	2	4	1	1	
	2330	,,	1009·9	946·5	..	22·7	20·1	18·6	21·6	79	..	3·1	..	8·3	0	2	25	1	1	8	1	0	4	11	1	4	
Marathwada																											
Aurangabad	0830	581	1012·1	947·9	+0·3	25·3	19·1	15·4	17·6	55	—3	3·6	+0·6	5·2	0	1	20	0	6	14	1	0	0	0	0	10	
	1730	,,	1007·2	944·2	..	29·4	19·8	13·6	16·1	40	..	3.9	..	11·0	0	0	25	6	13	4	0	1	0	1	0	6	
Aurangabad (Chikalthan)	0230	579	1010·5	945·3	..	19·4	15·6	12·8	15·0	66	..	2·1	..	2·8	0	1	5	0	2	3	1	0	0	0	0	25	
	0530	,,	1011·0	945·5	..	18·1	15·0	12·7	14·8	71	..	2·1	..	1·1	0	0	3	0	2	1	0	0	0	0	0	28	
	0830	,,	1011·5	947·5	..	25·3	18·6	14·2	16·5	52	..	3·0	..	10·5	0	5	15	0	5	12	2	1	0	0	0	11	
	1130	,,	1010·2	947·0	..	29·1	20·0	14·4	16·7	43	..	2·7	..	16·6	0	12	17	3	6	16	3	1	0	0	0	2	
	1730	,,	1006·8	943·8	..	29·0	19·9	14·0	16·6	42	..	3·4	..	16·2	0	10	20	4	15	7	1	1	0	0	2	1	
	2330	,,	1011·0	946·2	..	21·6	16·5	12.8	15·1	59	..	2·2	..	5·6	0	1	12	3	6	4	0	0	0	0	0	18	
Parbhan	0830	423	1012·1	964·5	+1·0	24·0	18·9	15·5	17·7	59	—8	3·5	+0·4	8·0	0	0	31	4	15	4	1	1	2	1	3	0	
	1730	,,	1007·3	960·8	..	29·3	20·3	14·0	16·4	42	..	4·7	..	10·9	0	2	29	6	15	7	1	1	0	0	1	0	
Nander	0830	358	1012·0	971·7	..	25·4	20·4	17·2	19·9	62	..	2·2	..	(a) 4·3	0	0	14	0	11	0	1	0	1	1	0	16	
	1730	,,	1007·9	968·4	..	29·6	21·3	15·9	18·5	45	..	1·6	..	(a) 8·5	0	1	27	1	26	1	0	0	0	0	0	2	
Bir	0830	519	1012·5	954·5	..	23·1	19·3	17·0	19·6	69	..	3·1	..	2·8	0	0	19	2	10	1	3	0	0	1	2	12	
	1730	,,	1007·1	950·6	..	29·6	20·6	15·1	17·7	44	..	3·6	..	8·3	0	1	29	2	20	2	0	2	2	0	1	1	
Vidarbha																											
Gondia	0830	313	1012·8	977·3	+1·3	23·1	19·4	17·1	19·5	69	—7	4·4	+1·5	3·1	0	0	29	18	5	2	0	1	0	0	2	2	
	1730	,,	1008·5	973·8	..	28·8	20·8	15·8	18·1	46	..	3·1	..	2·5	0	0	23	8	5	2	1	0	1	0	6	8	
Nagpur (Son gaon)	0230	310	1010·2	974·7	..	20·2	17·8	16·2	18·4	78	..	2·0	..	4·7	0	0	27	12	4	0	0	0	1	1	9	4	
	0530	,,	1010·9	975·4	..	19·3	17·3	15·9	18·1	81	..	2·7	..	4·8	0	0	27	14	3	1	0	0	0	0	9	4	
	0830	,,	1012·4	977·4	+0·6	24·1	19·1	15·7	18·1	60	—8	2·9	+0·5	6·7	0	1	29	9	15	3	1	0	0	0	2	1	
	1130	,,	1010·9	976·5	..	29·3	20·8	15·2	17·6	44	..	3·1	..	10·8	0	7	22	5	15	6	3	0	0	0	0	2	
	1730	,,	1008·0	973·5	..	28·6	20·6	15·4	17·7	45	..	3·2	..	6·7	0	0	26	7	11	7	0	0	0	0	1	5	
	2330	,,	1010·9	975·6	..	21·6	18·5	16·4	18·8	73	..	1·6	..	3·7	0	0	22	9	5	0	0	0	0	1	7	9	

(a) Mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1962 (ASVINA 9—KARTIKA 9, 1884 SAKA)

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*Contd.*)																											
Amraoti	0830	370	1011·9	70·3	+0·1	24·5	18·3	13·7	16·0	53	—5	2·5	+0·1	4·2		0	29	4	14	11	0	0	0	0	0	2	0
	1730	,,	1006·8	966·4	..	30·3	19·9	12·5	14·8	35	..	2·6	..	6·2	0	0	31	3	12	7	8	0	0	0	1	0	0
Akola Aerodrome	0530	309	1010·6	975·1	..	19·5	16·5	14·3	16·3	72	..	3·2	..	1·7	0	0	13	0	2	3	5	2	1	0	0	18	0
	0830	,,	1011·9	977·0	..	25·0	18·7	14·2	16·4	52	..	(a) 3·3	..	(a) 4·1	0	0	22	3	5	7	2	1	1	2	1	8	0
	1130	,,	1010·4	976·2	..	30·0	20·4	13·8	16·2	40	..	(a) 3·2	..	(a) 5·9	0	0	24	2	3	11	4	1	0	2	1	6	0
	1730	,,	1007·2	973·1	..	30·0	20·6	14·1	16·6	40	..	(a) 3·2	..	(a) 4·7	0	0	23	3	2	9	4	2	0	3	0	7	0
	2330	,,	1010·2	975·1	..	23·0	17·8	14·3	16·2	59	..	1·5	..	2·6	0	0	17	1	2	5	7	2	0	0	0	14	0
Akola	0830	282	1012·4	980·4	+0·5	23·3	18·6	15·4	17·5	63	+2	1·6	—0·8	3·0	0	0	25	1	6	3	5	1	2	7	0	6	0
	1730	,,	1007·1	976·1	..	31·5	20·9	13·7	15·7	35	..	2·7	..	2·5	0	0	21	5	5	4	2	0	0	2	3	10	0
Bramhapuri	0830	229	1012·3	986·2	..	23·0	20·0	18·1	20·9	75	..	4·0	..	6·8	0	0	31	19	12	0	0	0	0	0	0	0	0
	1730	,,	1008·3	982·9	..	29·2	21·4	16·5	19·1	47	..	3·9	..	7·1	0	0	31	14	13	4	0	0	0	0	0	0	0
Buldana	0830	650	1012·1	939·8	+1·1	22·4	16·8	12·8	15·1	55	—12	1·9	—1·5	0·6	0	0	10	0	9	0	0	0	0	0	1	21	0
	1730	,,	1007·1	936·9	..	29·1	19·9	14·2	16·5	43	..	2·7	..	1·0	0	0	16	0	8	0	0	0	0	0	8	15	0
Yeotmal	0830	451	1012·1	961·5	+1·2	23·8	18·6	15·0	17·1	59	—8	7·1	+3.7	11·9	0	2	29	9	14	4	2	1	0	0	1	0	0
	1730	,,	1007·6	958·0	..	28·3	19·9	14·2	16·4	43	..	4·9	..	10·1	0	2	29	5	13	8	1	0	0	1	3	0	0
Chanda	0830	193	1012·0	990·0	+0·2	24·1	20·8	18·9	21·8	73	0	3·5	+1·2	5·5	0	0	28	9	8	4	0	0	1	2	4	3	0
	1730	,,	1007·8	986·3	..	28·7	22·8	19·6	22·9	59	..	3·2	..	6·7	0	0	30	2	14	14	0	0	0	0	0	1	0
Pusad	0830	334	1012·7	974·9	..	23·7	19·4	16·7	19·0	66	..	2·5	..	4·1	0	0	31	3	9	0	2	0	0	6	11	0	0
	1730	,,	1008·0	971·2	..	29·9	21·4	16·0	18·5	45	..	2·3	..	8·3	0	2	29	.	24	1	2	0	0	2	1	0	0
Sironcha	0830	123	1011·5	997·5	+0·8	25·4	22·4	20·8	24·6	76	—5	3·8	—0·1	4·4	0	0	27	10	3	1	1	0	0	0	12	4	0
	1730	,,	1007·4	993·6	..	29·9	23·6	20·3	24·0	58	..	4·4	..	5·9	0	0	31	4	20	1	2	0	1	0	3	0	0
Coastal Andhra Pradesh																											
Kalingapatam	0330	6	1010·8	1010·1	—0·1	26·4	25·1	23·9	30·7	84	+3	4·8	+1·4	6·1	0	0	30	7	8	0	0	0	0	3	12	1	0
	1730	,,	1007·8	1007·2	..	27·6	24·9	23·7	29·3	80	..	5·3	..	9·7	0	2	28	2	11	7	3	3	2	0	2	1	0
Vishakhapatnam	0230	3	1008·0	1007·2	..	25·3	(a) 23·9	23·2	28·4	89	..	(a) 4·7	..	(a) 3·8	0	1	8	5	1	1	1	0	0	0	1	21	0
	0530	,,	1008·4	1007·4	..	25·2	(a) 23·6	22·8	27·7	87	..	(a) 5·4	..	(a) 5·6	0	2	13	4	5	2	1	0	0	1	2	15	0
	0830	,,	1010·5	1009·4	—1·1	27·1	24·5	23·2	28·4	80	+3	5·6	+1·3	8·8	0	3	18	5	9	2	1	0	0	1	3	10	0
	1130	,,	1009·8	1008·6	..	28·5	25·1	23·5	29·1	76	..	6·3	..	11·9	0	0	29	4	9	6	3	1	2	0	4	2	0
	1730	,,	1007·7	1006·6	..	27·3	(a) 24·8	23·6	29·3	81	..	(a) 6·2	..	(a) 10·0	0	1	23	1	7	10	3	3	0	0	0	6	0
	2330	,,	1009·4	1008·2	..	25·9	24·3	23·4	29·1	87	..	(a) 5·0	..	(a) 5·5	0	1	12	2	8	2	0	0	0	0	1	17	0
Yakinada	0330	8	1010·5	1009·6	—0·3	26·7	25·1	24·4	30·5	88	+11	5·6	+1·5	13·4	0	2	29	0	28	0	1	0	1	0	1	0	0
	1730	,,	1007·4	1005·5	..	27·9	25·5	24·4	30·7	83	..	5·8	..	14·4	0	6	25	0	20	0	8	0	2	0	1	0	0
Nidadavole	0830	12	1010·3	1008·9	..	26·2	24·5	23·8	29·3	87	..	6·1	..	4·6	0	0	30	6	13	5	0	0	1	0	5	1	0
	1730	,,	1007·2	1005·8	..	27·6	25·4	24·4	30·5	83	..	7·4	..	5·6	0	0	28	0	7	9	5	4	3	0	0	3	0
Rentachintala	0830	106	1010·6	998·6	..	26·5	24·4	23·3	28·9	83	+9	6·0	+0·9	1·9	0	0	22	9	4	2	1	0	1	4	1	9	0
	1730	,,	1006·9	995·0	..	28·8	24·6	22·5	27·4	70	..	6·6	..	2·4	0	0	28	10	6	5	4	1	0	1	1	3	0
Gannavaram	0230	24	1007·8	1005·1	..	25·1	24·4	24·1	30·0	94	..	4·7	..	6·1	0	2	19	4	8	4	0	0	0	3	2	10	0
	0530	,,	1008·3	1005·6	..	24·9	24·0	23·6	28·9	93	..	5·4	..	7·3	0	1	24	7	10	4	0	0	0	2	2	6	0
	0830	,,	1010·4	1007·7	+0·4	26·9	24·7	23·8	29·3	84	+4	6·0	+1·6	10·3	0	4	24	6	9	9	1	0	0	1	2	3	0
	1130	,,	1009·5	1006·8	..	29·1	25·4	23·7	29·3	74	..	6·0	..	12·4	0	6	25	6	11	8	2	2	1	1	0	0	0
	1730	,,	1007·3	1004·6	..	27·6	25·1	23·9	29·7	81	..	6·9	..	10·3	0	4	24	3	6	12	3	3	0	0	1	3	0
	2330	,,	1009·3	1006·6	..	25·6	24·7	24·2	30·4	92	..	4·5	..	6·3	0	1	20	1	10	5	1	1	1	0	2	10	0
Nagarjuna Konda	0830	126	..	..	..	27·0	23·9	22·4	27·2	77	..	5·2	..	8·3	0	1	24	6	3	5	0	1	0	5	5	6	0
	1730	,,	..	..	..	29·3	24·4	21·9	26·5	66	..	6·0	..	13·4	0	6	23	7	2	11	3	5	0	1	0	2	0
Masulipatam	0830	3	1010·2	1009·9	—0·6	27·0	25·2	24·4	30·5	86	+6	7·0	+3·2	4·5	0	0	28	7	9	8	0	1	1	0	2	3	0
	1730	,,	1007·0	1006·7	..	28·0	25·5	24·6	30·7	82	..	6·8	..	4·8	0	0	28	2	6	15	3	1	1	0	0	3	0
Ongole	0830	12	1010·1	1008·8	..	27·2	25·5	24·6	31·1	86	..	5·9	..	3·6	0	0	30	7	17	0	0	1	0	1	4	1	0
	1730	,,	1006·8	1005·5	..	28·0	25·6	24·6	30·9	83	..	6·4	..	3·9	0	0	26	5	9	12	0	0	0	0	0	5	0
Nellore	0530	20	1007·4	1005·2	..	25·0	24·3	24·1	29·7	95	..	6·2	..	0·3	0	0	3	0	0	0	0	0	0	0	3	28	0
	0830	,,	1009·8	1007·5	—0·8	26·5	25·0	24·4	30·4	89	+10	6·9	+1·9	0·8	0	0	8	1	0	0	0	0	0	2	5	23	0
	1130	,,	1009·0	1006·8	..	28·7	25·6	24·3	30·4	79	..	6·4	..	1·8	0	0	21	0	0	0	0	0	0	17	4	10	0
	1730	,,	1006·7	1004·5	..	27·6	25·4	24·4	30·5	83	..	7·1	..	1·4	0	0	18	0	0	0	0	0	0	14	4	13	0
	2330	,,	1008·7	1006·5	..	26·1	25·2	24·8	31·5	93	..	4·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Telangana																											
Ramgundam	0830	156	1011·2	993·8	+1·0	25·2	21·7	19·7	23·1	72	—3	2·9	—0·9	3·4	0	0	22	17	3	0	0	0	0	0	2	9	0
	1730	,	1007·2	989·8	..	30·3	23·0	19·4	22·1	53	..	4·6	..	6·4	0	0	30	8	17	1	1	0	0	0	3	1	0
Nizamabad (R)	0830	381																									
(R)	1730	,,																									

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—(*Contd.*)																											
Hanamkonda	0830	269	1011.0	980.7	−0.4	25.0	22.3	20.8	24.7	79	+6	3.6	+0.3	2.2	0	0	31	15	1	7	2	2	0	2	2	0	0
	1730	,,	1007.6	977.8	..	29.0	23.0	19.8	23.2	59	..	4.2	..	2.2	0	0	31	16	10	3	1	1	0	0	0	0	0
Hakimpet (Aerodrome)	0530	613	1009.4	941.2	..	21.6	19.8	18.5	21.8	84	..	5.2	..	7.3	0	1	26	7	8	9	3	0	0	0	0	4	0
	0830	,,	1010.4	942.1	..	24.2	20.7	18.7	21.8	73	..	5.3	..	14.2	0	6	24	5	14	5	5	0	0	1	0	1	0
	1130	,,	1009.4	942.5	..	27.3	21.1	17.6	20.2	58	..	5.4	..	17.0	0	10	20	4	13	6	5	1	1	0	0	1	0
	1730	,,	1007.0	940.1	..	26.9	20.6	17.1	19.6	57	..	5.5	..	14.2	0	4	27	6	18	5	1	0	0	1	0	0	0
Bhadrachalam	0830	111	1010.8	998.2	+0.3	26.3	24.1	23.1	28.3	83	0	6.1	+1.1	4.8	0	0	31	3	7	3	1	3	4	9	1	0	0
	1730	,,	1006.8	994.9	..	29.2	24.8	22.8	27.7	69	..	6.0	..	4.1	0	0	31	0	25	3	0	0	0	1	2	0	0
Hyderabad (Begampet)	0230	545	1008.9	948.1	..	21.7	20.3	19.5	22.8	87	..	3.6	..	3.5	0	0	19	5	5	7	2	0	0	0	0	12	0
	0530	,,	1009.5	948.6	..	21.3	20.1	19.5	22.7	90	..	4.7	..	3.1	0	0	16	4	5	5	2	0	0	0	0	15	0
	0830	,,	1010.9	950.6	+0.2	24.6	21.1	19.3	22.4	73	+2	5.3	+1.9	7.9	0	1	28	5	10	7	4	1	1	0	1	2	0
	1130	,,	1009.5	949.9	..	27.7	21.5	18.1	21.0	58	..	5.7	..	10.8	0	3	28	4	13	7	3	0	1	0	2	0	1
	1730	,,	1006.7	947.3	..	27.8	21.1	17.5	20.1	57	..	5.5	..	11.4	0	2	28	6	16	5	1	1	0	0	1	1	0
	2330	,,	1010.0	949.4	..	22.8	20.8	19.7	23.1	84	..	3.5	..	4.1	0	0	23	6	6	5	5	1	0	0	0	8	0
Khammam	0830	112	1010.5	997.9	..	26.3	24.3	23.5	28.8	85	..	5.6	..	2.0	0	0	16	10	1	3	0	1	0	1	0	15	0
	1730	,,	1006.6	994.1	..	28.7	24.4	22.1	26.9	68	..	6.4	..	3.0	0	0	16	5	0	11	0	0	0	0	0	15	0
Mahbubnagar	0830	505	1010.3	954.3	..	25.3	21.7	19.9	22.9	73	..	5.5	..	10.4	0	0	31	1	11	14	2	1	0	1	1	0	0
	1730	,,	1006.2	951.0	..	28.4	21.7	18.2	20.5	56	..	6.1	..	6.4	0	0	30	2	17	8	1	0	1	1	0	1	0
Rayalaseema																											
Kurnool (R)	0830	281																									
(R)	1730	,,																									
Nandyal*	0830	..																									
	1730	..																									
Anantapur	0530	350	1008.2	968.8	..	23.6	22.2	21.5	25.6	88	..	5.2	..	3.4	0	0	15	5	3	3	0	0	0	2	2	16	0
	0830	,,	1010.3	971.1	0	25.2	22.7	21.5	25.6	81	+6	5.9	+1.4	6.0	0	0	24	6	7	3	1	1	2	2	2	7	0
	1130	,,	1009.2	970.4	..	28.1	23.2	20.7	24.4	66	..	6.2	..	7.5	0	0	25	5	10	5	0	0	1	2	1	6	1
	1730	,,	1005.7	967.2	..	29.0	23.0	19.8	23.2	60	..	6.5	..	10.5	0	3	24	2	15	3	4	0	0	2	1	4	0
	2330	,,	1009.1	970.0	..	25.3	22.8	21.5	25.6	81	..	4.9	..	5.7	0	1	19	1	1	12	1	1	2	1	1	11	0
Cuddapah	0830	130	1010.3	995.6	−0.7	26.3	24.2	23.2	28.6	84	+11	5.5	+1.3	1.0	0	0	6	0	0	6	0	0	0	0	0	25	0
	1730	,,	1006.7	992.1	..	28.0	24.8	23.4	28.6	77	..	6.1	..	2.3	0	0	12	0	1	10	0	0	0	0	1	19	0
Arogyavaram	0830	701	1010.2	933.0	..	23.2	21.1	20.1	23.4	84	..	6.0	..	2.8	0	0	26	12	3	2	0	3	0	0	6	5	0
	1730	,,	1006.7	930.1	..	24.4	21.5	20.1	23.4	78	..	6.9	..	6.5	0	1	28	9	8	3	2	1	0	0	6	2	0
Madras State																											
Madras	0830	6	1009.6	1008.9	..	26.9	25.2	24.4	30.7	87	..	6.4	..	5.5	0	0	27	5	2	0	0	1	2	5	12	4	0
Madras (Minambakkam)	0230	16	1007.4	1005.6	..	25.3	24.6	24.3	30.4	94	..	5.1	..	4.1	0	2	15	5	0	0	0	1	0	7	4	14	0
	0530	,,	1007.8	1006.0	..	24.9	24.3	24.1	29.8	95	..	6.3	..	4.6	0	0	21	6	1	0	0	1	0	10	3	10	0
	0830	,,	1009.7	1008.0	−0.9	26.7	25.1	24.4	30.5	87	+7	6.5	+1.9	9.0	0	1	28	13	1	0	0	2	2	6	5	2	0
	1130	,,	1008.9	1007.2	..	28.7	25.5	24.2	30.0	77	..	6.5	..	14.5	0	8	23	10	4	6	1	0	1	4	5	0	0
	1730	,,	1006.8	1005.1	..	27.7	25.4	24.3	30.4	83	..	6.6	..	11.4	0	4	26	11	4	11	2	0	1	0	1	1	0
	2330	,,	1009.1	1007.3	..	25.8	25.1	24.7	31.1	94	..	4.9	..	5.6	0	0	20	8	1	1	2	2	1	2	3	11	0
Vellore	0530	214	1008.3	984.0	..	23.9	23.2	22.9	27.9	96	..	6.9	..	0.0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1010.0	985.8	−0.5	25.3	23.9	23.3	28.4	89	+9	7.1	+3.3	1.4	0	0	13	4	2	0	0	0	1	5	1	18	0
	1130	,,	1009.1	985.1	..	28.4	24.7	22.9	27.9	73	..	7.2	..	2.5	0	0	20	9	3	1	0	0	0	7	0	11	0
	1730	,,	1006.4	982.5	..	27.8	24.2	22.5	27.3	74	..	7.2	..	4.1	0	0	23	3	8	3	3	1	2	2	1	8	0
	2330	,,	1009.4	985.2	..	25.0	23.9	23.5	28.8	91	..	6.4	..	0.6	0	0	5	0	0	2	0	0	2	1	0	26	0
Tambaram (Aerodrome)	0830	29	1009.3	1006.0	..	26.7	25.6	25.1	31.9	91	..	6.4	..	8.7	0	0	30	10	1	0	1	1	2	4	11	1	0
	1730	,,	1006.4	1003.1	..	27.9	25.9	25.0	31.9	85	..	6.3	..	14.2	0	4	26	7	7	6	6	2	2	0	0	1	0
Tiruppattur	0830	390	1009.8	966.2	..	24.3	23.0	22.3	26.9	89	..	7.1	..	4.0	0	0	30	12	6	2	2	0	1	5	2	1	0
	1730	,,	1006.0	962.8	..	26.4	23.6	22.2	26.7	79	..	6.9	..	6.1	0	0	31	17	2	4	1	0	1	3	3	0	0
Mettur Dam R. S.	0830	..	..	..	..	26.1	24.4	23.5	29.3	86	..	6.7	..	(a) 3.5	0	0	27	0	11	0	5	0	3	0	8	3	0
	1730	..	..	..	..	28.4	25.3	23.9	29.7	78	..	6.8	..	(a) 4.2	0	0	30	0	14	0	5	0	8	0	3	0	0
Cuddalore	0530	12	1007.3	1005.9	..	24.8	24.2	24.0	29.7	95	..	7.0	..	1.4	0	0	10	0	2	0	0	0	4	1	3	21	0
	0830	,,	1009.5	1008.2	−1.1	26.7	25.0	24.3	30.4	86	+5	7.4	+2.8	3.0	0	0	20	1	3	0	0	0	4	6	6	11	0
	1130	,,	1008.8	1007.5	..	28.7	25.6	24.3	30.4	78	..	6.8	..	5.0	0	0	23	4	10	1	2	0	0	3	3	8	0
	1730	,,	1006.4	1005.1	..	27.9	25.5	24.4	30.7	82	..	6.5	..	6.3	0	0	29	3	7	7	7	1	1	1	2	2	0
	2330	,,	1008.7	1007.4	..	26.1	25.0	24.5	30.7	91	..	6.2	..	3.0	0	0	20	3	5	2	2	2	1	0	5	11	0
Kallakkurichchi	0830	127	1009.4	995.0	..	26.1	24.3	23.5	28.9	86	..	6.3	..	2.8	0	0	18	1	3	0	2	0	4	0	8	13	0
	1730	,,	1006.1	991.9	..	27.5	24.7	23.4	28.8	79	..	6.5	..	5.2	0	0	25	1	11	4	4	0	1	0	4	6	0

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

Sub-Division & Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madras State—(*Contd.*)																										
Salem	0530	278	1008·1	976·7	..	23·5	22·6	22·2	26·6	93	..	7·4	..	0·4	0	0	6	0	3	0	0	0	2	0	1	25
	0830	,,	1009·9	978·6	-1·2	25·1	23·2	22·3	26·9	85	+7	7·4	+2·8	0·7	0	0	8	1	2	2	0	0	0	3	0	23
	1130	,,	1008·6	977·7	..	28·5	24·3	22·2	26·9	69	..	7·4	..	3·6	0	0	19	0	2	3	0	1	3	8	2	12
	1730	,,	1005·7	974·9	..	27·7	24·3	22·6	27·6	74	..	7·3	..	2·6	0	0	18	0	0	13	1	0	1	3	0	13
	2330	,,	1009·2	978·0	..	24·8	23·2	22·4	27·3	87	..	6·9	..	1·2	0	0	7	0	0	5	0	0	2	0	0	24
Coimbatore (Pilamedu)	0530	399	1008·4	963·6	..	22·4	22·0	21·7	26·1	96	..	6·5	..	7·5	0	2	18	0	3	1	1	4	10	1	0	11
	0830	,,	1010·1	965·5	..	24·6	22·8	21·9	26·3	85	..	6·5	..	10·6	0	5	22	0	3	4	1	4	12	1	0	4
	1130	,,	1008·9	964·8	..	27·5	23·8	21·9	26·6	73	..	6·1	..	11·9	0	4	23	1	4	6	0	7	6	0	1	4
	1730	,,	1006·4	962·3	..	26·3	23·5	22·1	26·6	79	..	6·5	..	19·0	0	15	15	0	5	4	0	5	14	0	2	1
	2330	,,	1009·8	965·1	..	23·4	22·7	22·4	26·6	94	..	6·2	..	12·0	0	6	19	0	2	3	0	5	14	1	0	6
Coimbatore	0830	409	1010·3	964·6	0·8	24·3	22·2	21·2	25·0	83	+2	7·3	+3·0	17·4	0	15	16	0	2	4	3	11	10	0	1	0
	1730	,,	1006·4	961·2	..	26·6	23·3	21·7	25·9	76	..	7·2	..	16·6	0	11	20	0	2	3	2	9	11	3	1	0
Nagapattinam	0830	9	1009·8	1008·7	0·9	26·5	25·0	24·4	30·4	89	+10	6·6	+1·6	5·4	0	0	25	1	1	0	0	0	2	11	10	6
	1730	,,	1006·4	1005·3	..	28·3	25·4	24·1	30·0	79	..	6·9	..	13·7	0	6	24	2	7	6	3	1	2	2	7	1
Tiruchchirappalli	0230	88	1007·7	997·6	..	24·5	23·6	23·2	28·3	92	..	6·4	..	3·1	0	0	11	0	0	0	1	0	1	4	5	20
	0530	,,	1008·1	998·0	..	24·3	23·4	23·0	27·9	92	..	6·9	..	4·6	0	0	19	1	0	2	0	0	0	11	5	12
	0830	,,	1009·9	999·9	—1·1	26·1	24·1	23·2	28·4	84	+5	6·1	+1·6	8·6	0	1	24	1	1	1	0	0	0	15	7	6
	1130	,,	1009·0	999·1	..	28·8	24·8	22·9	28·1	71	..	6·5	..	9·2	0	2	23	0	3	2	0	0	2	14	4	6
	1730	,,	1006·3	996·4	..	28·4	24·8	23·2	28·3	74	..	6·4	..	3·9	0	0	16	0	5	2	0	0	2	4	3	15
	2330	,,	1009·4	999·4	..	25·2	24·1	23·6	28·9	91	..	5·7	..	4·2	0	1	14	0	2	1	1	2	3	2	2	16
Vedaranniyam	0830	4	1009·7	1009·2	..	27·1	25·3	24·5	30·7	86	..	6·1	..	3·2	0	0	23	6	3	1	0	3	2	2	6	8
	1730	,,	1006·5	1006·0	..	28·3	25·9	24·9	31·5	82	..	5·3	..	3·7	0	0	23	7	5	1	1	4	3	0	2	8
Atirampattinam	0830	6	1009·4	1008·7	..	26·7	25·1	24·3	30·5	87	..	6·9	..	5·9	0	0	27	6	4	0	1	0	1	2	12	4
	1730	,,	1006·2	1005·5	..	28·7	25·8	24·6	30·7	79	..	6·2	..	9·6	0	2	28	4	5	2	6	7	3	0	3	1
Madurai	0830	133	1009·8	994·7	1·2	25·8	23·9	23·0	28·3	85	+11	4·5	—0·6	2·8	0	0	25	1	0	3	0	3	0	4	5	6
	1730	,,	1006·3	995·5	..	28·6	25·2	23·7	29·3	75	..	5·3	..	6·5	0	0	30	1	5	7	7	1	2	3	2	1
Madurai Aerodrome	0530	131	1007·9	993·0	..	24·2	23·2	22·7	27·6	91	..	6·7	..	2·2	0	0	9	7	0	0	0	0	0	2	0	22
	0830	,,	1009·8	994·9	..	26·1	23·9	22·9	27·9	83	..	6·8	..	6·4	0	0	23	8	4	1	0	0	1	4	5	8
	1130	,,	1008·9	994·2	..	29·0	24·7	22·6	27·7	69	..	6·8	..	7·0	0	1	26	8	3	1	0	1	1	7	6	4
	1730	,,	1006·4	991·7	..	27·9	24·6	23·1	28·3	76	..	7·0	..	8·7	0	1	25	0	4	6	3	2	3	5	3	5
Trichy	0830	5	1009·7	1009·1	..	26·1	24·6	23·8	29·7	88	..	6·3	..	2·0	0	0	5	0	2	0	0	1	2	0	0	26
	1730	,,	1006·5	1005·9	..	28·5	25·6	24·4	30·4	79	..	6·2	..	11·0	0	5	16	0	0	6	9	5	1	0	0	10
Pamban	0830	11	1009·5	1008·2	1·1	27·1	25·4	24·7	31·1	87	+7	6·2	+2·6	5·8	0	0	29	2	2	0	2	2	7	5	9	2
	1730	,,	1006·5	1005·3	..	28·1	25·7	24·7	31·1	83	..	5·7	..	5·2	0	1	26	3	0	2	6	6	5	2	3	4
Tuticorin	0830	4	1010·1	1009·7	0·4	27·3	24·7	23·5	28·9	80	+11	6·8	+3·0	8·7	0	2	26	7	3	0	0	0	7	7	4	3
	*1730	,,	1006·6	1006·2	..	28·8	25·3	23·6	29·3	75	..	6·9	..	11·4	0	5	26	1	1	2	6	8	5	7	1	0
Palayankottai	0830	51	1009·8	1004·1	0·5	27·1	23·8	22·3	26·9	76	+7	6·7	+2·3	1·9	0	0	12	2	0	0	0	0	1	4	5	19
	1730	,,	1006·5	1000·8	..	28·5	24·2	22·2	26·6	70	..	7·3	..	4·9	0	1	22	1	0	1	3	5	3	7	3	8
Kanniya Kumari	0830	37	1009·9	1005·8	..	26·5	24·0	22·7	27·9	81	..	6·3	..	12·1	0	4	27	0	5	0	1	0	4	18	3	0
	1730	,,	1007·3	1003·2	..	26·7	24·4	23·3	28·6	82	..	6·7	..	13·5	0	3	28	1	1	0	0	0	6	19	4	0
Coastal Mysore																										
Karwar	0830	4	1009·2	1008·7	1·4	26·3	24·8	23·9	30·0	87	0	5·4	+0·1	7·8	0	0	30	1	7	12	3	2	1	4	0	1
	1730	,,	1006·5	1006·0	..	28·9	25·8	24·2	30·7	77	..	5·8	..	11·5	0	4	27	0	4	1	1	2	0	2	16	0
Honawar	0830	26	1010·2	1007·2	-1·4	25·8	24·9	23·2	28·6	85	+1	6·9	+2·0	3·7	0	0	27	2	2	22	1	0	0	0	0	4
	1730	,,	1006·9	1004·0	..	28·6	25·6	24·3	30·4	78	..	6·3	..	6·6	0	0	31	3	0	0	0	10	5	10	3	0
Mangalore (Bajpe)	0230	102	1007·9	996·3	..	24·1	23·6	23·4	28·6	95	..	6·6	..	4·8	0	0	19	0	1	12	1	1	1	1	2	12
	0530	,,	1008·2	996·6	..	23·7	23·3	23·1	28·3	96	..	6·3	..	5·2	0	0	22	0	7	12	1	0	0	0	2	9
	0830	,,	1009·9	998·4	..	25·8	24·3	23·7	29·3	89	..	6·5	..	5·9	0	0	26	1	3	16	4	0	0	2	0	5
	1130	,,	1009·4	998·0	..	28·9	25·2	23·5	28·9	73	..	6·3	..	9·0	0	1	27	0	2	2	4	2	4	6	8	3
	1730	,,	1007·1	995·7	..	26·8	24·8	23·8	29·7	84	..	7·2	..	9·8	0	2	26	0	0	0	1	2	4	15	6	3
	2330	,,	1009·6	998·0	..	24·5	23·9	23·6	29·1	95	..	7·2	..	7·4	0	0	26	0	0	16	6	1	0	2	1	5
Mangalore	0830	22	1010·1	1007·6	—1·1	26·6	24·8	24·0	29·8	86	+2	5·9	+1·1	2·8	0	0	31	5	7	13	4	1	0	1	0	0
	1730	,,	1007·4	1004·9	..	28·0	25·8	24·9	31·5	84	..	7·4	..	3·6	0	0	31	1	0	1	1	2	5	17	4	0
Interior Mysore North																										
Bidar	0830	664	1011·0	937·7	..	23·4	19·4	16·9	19·6	69	—1	3·3	+0·3	9·2	0	1	30	6	14	9	0	1	1	0	0	0
	1730	,,	1006·7	934·6	..	26·9	19·8	15·3	17·8	51	..	5·2	..	11·3	0	4	27	3	24	2	0	0	1	0	1	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (K.m.p.h.): 62 or more	Wind speed (K.m.p.h.): 20 to 61	Wind speed (K.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore North— (*Contd.*)																											
Gulbarga	0830	458	1010·7	959·8	−0·4	25·2	20·7	18·0	21·0	65	−1	5·3	+2·7	9·5	0	1	25	8	6	9	1	1	1	0	0	5	0
	1730	,,	1005·8	(a) 955·8	..	30·1	21·4	16·2	18·0	47	..	5·7	..	13·5	0	3	27	4	19	2	2	1	1	0	1	1	0
Bijapur	0830	594	1010·9	944·8	−0·7	22·7	19·9	18·2	21·1	77	+9	4·9	+2·0	1·3	0	0	17	11	1	3	0	0	2	0	0	14	0
	1730	,,	1006·1	941·6	..	29·0	21·7	17·7	20·5	54	..	5·2	..	1·9	0	0	21	10	3	4	1	1	2	0	0	10	0
Raichur	0830	400	1009·9	966·0	−0·5	25·5	22·7	21·0	25·3	74	+4	5·2	+2·5	3·5	0	0	27	1	12	0	4	0	1	0	9	4	0
	1730	,,	1005·8	962·1	..	29·9	22·8	18·8	21·8	54	..	6·0	..	5·0	0	0	31	0	23	1	3	1	1	1	1	0	0
Belgaum	0830	753	1010·6	927·9	−0·6	22·6	20·1	18·1	21·7	80	+3	4·3	+0·4	4·3	0	0	27	1	5	15	1	1	0	1	2	4	1
	1730	,,	1005·9	924·7	..	26·9	21·2	17·9	21·0	61	..	5·7	..	6·8	0	0	31	2	9	10	0	1	2	3	0	0	4
Belgaum (Sanra)	0530	747	1009.4	926·7	..	20.3	18.8	17·7	20.5	86	..	2.4	..	5.1	0	0	16	2	6	4	2	1	0	1	0	15	0
	0830	,,	1010.6	928.5	..	23.2	20.0	18.2	21.0	73	..	5.6	..	9.0	0	0	29	6	13	5	3	1	1	0	0	2	0
	1130	,,	1009.0	928.3	..	27·1	20.7	17.2	19.7	56	..	5.7	..	13.9	0	4	26	1	10	12	2	3	1	0	0	1	1
	1730	,,	1006.2	925.4	..	26·7	20·6	17.1	19.7	58	..	6.1	..	10.6	0	3	25	8	7	4	1	2	2	1	3	3	0
Gadag	0530	650	1009·2	937·2	..	21·5	20·2	19·6	22·7	89	..	4·1	..	1·4	0	0	7	0	3	4	0	0	0	0	0	24	0
	0830	,,	1010·6	937·5	+1·8	23·4	20·9	19·6	22·9	80	+5	4·1	0	2·5	0	0	14	0	4	6	0	1	1	2	0	17	0
	1130	,,	1009·1	938·5	..	28·3	22·0	18·7	21·8	58	..	5·1	..	6·5	0	0	27	3	8	12	0	2	0	1	0	4	1
	1730	,,	1005·8	935·5	..	28·6	21·3	17·3	20·0	53	..	6·4	..	3.9	0	0	23	4	6	10	0	1	0	2	0	8	0
	2330	,,	1009·7	937·9	..	22·9	20·6	19·4	22·7	82	..	4·4	..	5·5	0	0	22	1	2	11	1	2	1	3	1	9	0
Interior Mysore South																											
Bellary	0830	449	1010·4	960·3	−0·7	24·8	22·3	21·7	26·1	83	+14	6·3	+2·2	5·2	0	0	21	0	1	1	9	0	1	0	9	10	0
	1730	,,	1005·5	956·4	..	28·9	24·1	21·8	26·1	67	..	7·2	..	7·1	0	0	30	0	5	0	9	0	1	0	15	1	0
Chitradurga	0830	733	1010·2	929·5	−0·8	22·7	21·1	20·3	23·8	87	+12	5·8	+1·2	4·1	0	0	24	1	1	9	3	0	1	7	2	7	0
	1730	,,	1005·5	926·1	..	26·6	21·4	18·7	21·7	64	..	6·4	..	3·7	0	0	26	2	5	12	2	0	1	4	0	5	0
Shimoga	0830	571	1010·0	946·7	−0·5	23·6	21·7	20·8	24·6	85	−1	7·1	+1·1	1·9	0	0	14	1	4	2	2	1	2	0	2	17	0
	1730	,,	1005·8	943·4	..	25·9	22·8	21·3	25·3	75	..	7·3	..	2·8	0	0	15	0	5	3	0	1	4	1	1	16	0
Agumbe	0830	..	..	..	..	22·6	22·6	22·6	27·4	100	..	0	..	3·0	0	0	31	0	19	3	0	2	7	0	0	0	0
Balehonnor	0830	..	..	..	..	20·6	19·9	19·6	22·7	94	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1505·7	905·4	..	26·8	19·9	19·4	22·4	92	+12	6·8	+1·9	2·4	0	0	31	2	9	2	6	0	8	2	2	0	0
	1730	,,	1482.5	902·8	..	23·7	20·6	19·0	21·8	77	..	7·3	..	2·6	0	0	31	1	10	1	3	0	7	2	7	0	0
Bangalore	0230	921	1483·0	907·6	..	20·1	19·7	19·5	22·9	96	..	6·0	..	3·3	0	0	14	1	0	5	2	1	1	2	2	17	0
	0830	,,	1504·2	909·6	−0·9	21·1	20·1	19·6	22·8	91	+10	6·6	+1·3	5·4	0	0	21	1	3	10	1	0	2	2	2	10	0
	1130	,,	1505·8	909·2	..	24·3	21·1	19·5	22·7	75	..	7·2	..	8·6	0	3	24	4	3	11	1	0	4	2	2	4	0
	1730	,,	1480·6	906·7	..	25·5	20·8	19·5	22·7	70	..	7·5	..	6·9	0	2	22	2	6	7	0	0	2	3	4	7	0
Bangalore Aerodrome	0530	897	1483·3	910·3	..	20·0	19·7	19·6	22·7	97	..	6·3	..	2·8	0	0	12	1	0	4	0	0	2	5	0	19	0
	0830	,,	1504·4	912·1	..	21·7	20·5	19·8	23·2	89	..	7·0	..	7·0	0	1	20	4	2	6	1	0	1	6	1	10	0
	1130	,,	1506·7	911·6	..	25·0	21·7	20·1	23·5	75	..	7·0	..	9·3	0	0	28	6	5	7	1	0	2	3	4	3	0
	1730	,,	1479·3	909·2	..	23·9	21·4	20·2	23·5	81	..	7·2	..	5·7	0	0	24	7	3	6	2	0	2	2	2	7	0
	2330	,,	1499·3	911·7	..	21·2	20·6	20·3	23·8	95	..	6.5	..	2·7	0	0	14	0	2	7	1	0	1	3	0	17	0
Mysore	0830	767	1010·6	926·1	0·8	22·1	20·5	19·8	22·9	87	+6	5·3	−0·1	4·0	0	0	31	3	3	0	1	4	13	1	6	0	0
	1730	,,	1006·7	923·4	..	25·2	21·4	19·6	22·7	72	..	6·2	..	8·9	0	1	30	2	6	5	1	4	7	2	4	0	0
Kerala																											
Calicut	0530	5	1008·6	1008·0	..	24·1	23·5	23·2	28·4	95	..	6·2	..	4·9	0	2	10	1	3	5	1	0	0	0	2	19	0
	0830	,,	1010·3	1009·7	−1·0	25·7	24·4	23·8	29·7	89	+3	5·4	+0·2	2·5	0	0	11	1	3	3	2	0	0	0	2	20	0
	1130	,,	1010·2	1009·6	..	28·4	25·5	24·2	30·4	79	..	6·2	..	10·8	0	4	24	0	0	1	1	5	10	8	3	3	0
	1730	,,	1007·7	1007·1	..	27·3	25·0	24·0	29·7	82	..	6·8	..	9·5	0	3	22	0	1	2	0	0	7	8	7	6	0
	2330	,,	1010·3	1009·7	..	25·0	24·2	23·8	28·3	93	..	6·1	..	4·5	0	1	12	1	2	8	0	0	0	1	1	18	0
Palghat	0830	97	1010·3	999·3	..	25·8	24·2	23·6	28·9	88	..	6·7	..	6·1	0	0	22	0	0	6	0	0	3	12	1	9	0
	1730	,,	1007·0	996·0	..	27·3	24·6	23·4	28·6	80	..	6·8	..	9·3	0	0	29	0	0	3	3	1	3	17	2	2	0
Fort Cochin	0830	3	1010·3	1010·0	−1·4	26·1	24·7	23·8	29·8	88	+6	7·5	+2·7	3·5	0	0	21	1	6	9	3	0	0	1	1	10	0
	1730	,,	1007·2	1006·9	..	27·2	25·0	24·0	29·8	83	..	7·3	..	5·1	0	1	29	0	0	1	1	0	6	15	7	1	0
Cochin (Naval Air Station)	0230	3	1008·7	1008·4	..	24·8	23·9	23·5	28·9	93	..	6·9	..	2·6	0	0	14	1	3	2	2	0	2	3	1	17	0
	0530	,,	1008·7	1008·4	..	24·4	23·7	23·3	28·6	94	..	7·1	..	2·5	0	0	14	0	3	5	3	1	0	1	1	17	0
	0830	,,	1010·5	1010·2	..	26·1	24·4	23·6	29·3	87	..	7·0	..	3·0	0	0	16	0	2	7	5	0	2	0	0	15	0
	1130	,,	1010·3	1010·0	..	28·5	25·2	23·6	29·3	75	..	6·7	..	6·3	0	0	24	0	0	0	2	2	6	6	4	7	4
	1730	,,	1007·9	1007·6	..	27·5	24·8	23·6	28·9	80	..	7·1	..	9·0	0	1	26	0	0	0	1	1	9	13	3	4	0
	2330	,,	1010·4	1010·1	..	25·4	24·4	23·9	29·7	92	..	7·0	..	3·6	0	0	15	2	0	6	1	0	0	3	3	16	0
Alleppey	0830	4	1010·4	1010·0	−0·7	25·9	25·0	24·6	30·9	92	+7	6·5	+0·4	4·7	0	0	26	1	6	3	12	0	1	2	1	5	0
	1730	,,	1007·7	1007·3	..	27·4	25·2	24·3	30·2	84	..	6·9	..	17·9	0	9	22	0	0	0	2	0	5	12	12	0	0

(a) Mean of 30 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Wind speed (K.m.p.h.): Mean wind speed in Kms. per hour	62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala (*Contd.*)—																											
Punalur	0830	34	1010.2	1006.3	..	24.5	23.8	23.4	28.8	93	..	7.3	..	0.5	0	0	4	0	2	1	0	0	0	0	1	27	0
	1730	,,	1007.5	1003.7	..	26.9	24.8	23.8	29.7	83	..	7.6	..	3.9	0	0	30	0	0	1	0	0	3	15	11	1	0
Trivandrum	0230	64	1008.4	1001.0	..	24.0	23.4	23.1	28.3	95	..	5.8	..	4.0	0	0	23	10	6	0	1	1	0	0	5	8	0
	0530	,,	1008.6	1001.3	..	23.6	23.1	22.9	27.9	95	..	6.0	..	3.0	0	0	21	10	6	2	1	0	0	0	2	10	0
	0830	,,	1010.6	1003.3	−0.9	25.4	24.1	23.5	28.9	89	+4	5.9	+0.4	4.1	0	0	24	6	6	1	2	0	0	0	9	7	0
	1130	,,	1009.9	1002.6	..	27.7	24.6	23.3	28.3	78	..	6.8	..	7.5	0	1	27	2	0	1	1	2	2	7	13	3	0
	1730	,,	1007.8	1000.5	..	26.0	24.3	23.6	28.9	86	..	7.0	..	5.8	0	0	26	1	1	0	2	1	1	6	14	5	0
	2330	,,	1010.3	1002.9	..	24.4	23.7	23.4	28.6	94	..	6.0	..	4.1	0	0	24	11	4	1	0	2	0	1	5	7	0
Trivandrum Aerodrome	0830	8	1010.5	1009.6	..	26.2	24.3	23.4	28.9	85	..	6.2	..	5.5	0	0	20	8	1	6	1	0	0	0	4	11	0
Arabian Sea Islands																											
Amini**	0830	4																									
	1730	,,																									
Minicoy**	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir.																											
Dalhousie	0830	1959	1461.8	801.8	+1.0	14.3	11.3	8.9	11.4	72	+8	0.8	−0.3	3.1	0	0	31	1	20	0	7	0	2	0	0	0	1
	1730	,,	1452.6	801.4	..	17.6	15.4	13.9	16.3	79	..	2.3	..	3.1	0	0	31	1	4	1	5	1	11	5	3	0	0
Dharmsala	0830	1211	1569.6	886.5	+2.2	19.8	14.0	9.1	11.8	51	+2	1.0	−0.2	0.6	0	0	8	1	1	4	1	0	1	0	0	3	0
	1730	,,	1566.9	886.0	..	21.6	15.5	11.4	13.1	53	..	2.5	..	3.9	0	0	30	0	0	0	1	0	10	19	0	1	0
Simla	0830	2202	1510.2	784.0	+0.2	14.4	9.7	4.9	8.7	55	+11	0.5	−0.6	1.8	0	0	28	2	2	0	7	2	12	0	3	3	0
	1730	,,	1504.5	783.4	..	14.0	11.7	9.3	12.3	75	..	1.9	..	2.0	0	0	31	1	6	0	2	0	13	0	9	0	0
Lokpal	0830	,,	..	..	..	24.1	−5.1	−6.3	3.6	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830																										
Joshimath	0830	..	..	..	..	12.6	8.5	4.6	8.4	58	..	0.3	..	8.0	0	0	29	0	7	18	2	0	1	0	1	2	0
	1730	..	..	..	..	15.6	10.5	5.8	9.4	53	..	3.3	..	5.3	0	0	30	0	0	3	5	15	5	0	0	1	2
Mussoorie	0830	2042	1504.7	798.3	−1.3	14.6	10.5	6.0	9.8	58	−6	0.4	−1.2	2.0	0	0	24	5	2	0	5	6	2	1	3	7	0
	1730	,,	1493.8	797.3	..	14.5	12.4	10.9	13.0	80	..	3.5	..	4.0	0	0	30	3	2	0	11	12	1	0	1	1	0
Mukteswar (Kumaun)	0830	2311	3161.1	775.1	+0.3	13.7	8.9	5.0	8.5	57	0	0.7	−0.7	6.1	0	2	24	0	8	6	1	1	5	3	2	5	0
	1730	,,	3143.7	773.5	..	13.7	11.0	8.8	11.3	72	..	1.8	..	8.9	0	0	30	0	1	0	0	1	9	15	4	1	0
Nainital	0830	1953	1508.9	806.8	+0.4	15.5	10.4	5.7	9.1	53	−6	0.5	−1.4	1.8	0	1	6	0	2	2	2	0	0	0	1	24	0
	1730	,,	1483.4	804.6	..	14.1	11.0	8.5	11.1	70	..	1.0	..	5.1	0	0	31	1	0	0	1	13	6	10	0	0	0
Kalimpong	0830	1209	1460.0	875.2	−6.5	21.1	19.9	19.2	22.2	89	+10	1.6	−1.4	3.2	0	0	31	2	0	0	4	0	0	0	25	0	0
	1730	,,	1457.0	874.8	..	21.3	19.9	19.1	22.1	88	..	2.0	..	3.0	0	0	31	0	0	0	27	0	0	1	3	0	0
Darjeeling	0830	2128	1488.6	789.1	−0.2	15.1	12.1	9.7	12.0	71	−2	3.0	−1.3	0.3	0	0	4	2	0	0	6	0	1	0	1	27	0
	1730	,,	1463.5	786.6	..	14.1	12.3	11.3	13.4	82	..	4.3	..	0.9	0	0	9	1	1	0	0	0	4	2	1	22	0
Kohima	0830	1406	1553.2	864.9	..	18.6	15.7	13.7	15.7	74	..	3.2	..	1.5	0	0	31	7	4	6	0	0	0	4	9	0	1
	1730	,,	1515.0	861.0	..	19.0	17.6	16.8	19.1	88	..	4.5	..	9.7	0	0	31	0	1	0	1	0	6	7	16	0	0
Shillong	0830	1500	1524.0	852.5	+0.4	19.0	15.7	13.5	15.6	71	−1	3.6	+0.2	1.5	0	0	14	2	3	3	2	0	3	0	1	17	0
	1730	,,	1499.4	850.1	..	18.3	16.8	15.9	18.1	85	..	(a) 5.6	..	(a) 0.2	0	0	2	0	0	2	0	0	0	0	0	28	0
Cherrapunji	0830	1313	1516.9	870.5	−0.2	19.5	16.2	14.1	16.1	68	−5	3.7	−0.1	5.0	0	0	26	6	8	5	0	4	3	0	0	5	0
	1730	,,	1492.0	868.1	..	18.8	17.1	16.1	18.3	83	..	3.7	..	4.5	0	0	25	2	2	4	2	4	9	2	0	6	0
Abu	0830	1195	1521.6	883.3	−0.9	20.2	13.2	7.1	10.1	45	−3	0.1	−1.0	0.2	0	0	3	1	1	1	0	0	0	0	0	28	0
	1730	,,	1516.3	882.0	..	24.2	14.8	6.7	10.1	33	..	0.1	..	0.3	0	0	5	1	2	2	0	0	0	0	0	26	1
Aijal	0830	..	..	..	..	21.4	19.8	18.9	21.8	85	..	6.5	..	3.0	0	0	31	2	3	15	2	4	1	4	0	0	0
	1730	..	..	..	..	22.1	20.5	19.6	22.8	87	..	6.4	..	3.0	0	0	31	4	1	3	0	2	2	14	5	0	0
Pachmarhi	0830	1075	1530.7	896.3	+0.8	20.7	15.7	12.1	14.2	60	0	1.8	−0.4	2.9	0	0	29	2	13	12	0	2	0	0	0	2	0
	1730	,,	1510.2	893.5	..	24.6	18.6	14.8	17.0	55	..	2.4	..	3.7	0	0	28	3	12	5	0	0	0	0	8	3	0
Mahabaleshwar	0830	1382	1512.9	863.3	−0.3	18.5	15.2	12.7	14.9	71	−6	2.5	−1.3	10.5	0	0	31	0	15	8	8	0	0	0	0	0	0
	1730	,,	1494.4	861.4	..	21.4	17.7	15.1	17.6	70	..	3.1	..	10.1	0	0	31	2	14	2	6	0	0	0	7	0	0
Mercara	0830	1152	1506.1	885.9	0	19.3	18.4	17.9	20.5	92	+5	4.9	−0.5	11.2	0	0	30	0	4	13	0	0	0	8	5	1	0
	1730	,,	1483.9	883.5	..	20.9	19.4	18.7	21.4	87	..	6.5	..	10.4	0	0	30	4	4	7	0	0	1	0	4	1	0
Ootacamund	0830	2249	1499.3	779.1	−0.6	14.2	13.4	12.9	14.9	92	+13	5.3	+0.5	0.7		0	8	0	1	2	0	0	2	1	2	23	0
	1730	,,	1481.4	777.5	..	14.9	13.9	13.4	15.3	91	..	6.6	..	1.2	0	0	11	2	3	1	0	0	1	3	1	20	0
Coonoor (R)	0830	1747	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

**Data given as addenda in December 1962 issue. (R) Register not received. (a) Mean of 30 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations Excluding Kashmir—(*Contd.*)																											
Kodaikanal	0830	2343	3146.4	771.0	−0.2	13.3	12.6	12.1	14.1	93	1.1	7.1	+2.3	6.6	0	2	20	7	3	2	2	3	0	0	5	9	0
	1130	,,	3150.5	770.9	..	15.3	14.1	13.3	15.2	89	..	7.6	..	8.9	0	2	25	8	5	1	4	2	0	0	7	4	0
	1730	,,	3127.7	769.2	..	13.7	13.3	13.0	15.0	95	..	7.5	..	5.9	0	2	18	8	2	0	3	1	1	0	5	11	0
Nepal																											
Katmandu	0830	1324	1519.5	869.9	..	16.7	15.1	13.9	16.1	84	..	3.6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1512.2	868.7	..	23.8	16.9	12.0	14.2	48	..	3.3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1491.3	866.8	..	19.8	16.4	14.1	16.2	76	..	3.3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sikkim																											
Lachen	0830	..	..	..	..	12.7	10.1	8.1	10.8	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories.																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	24.8	19.9	16.3	19.8	62	..	2.7	..	6.9	0	0	23	0	2	8	0	1	3	9	2	3	3
	1730	..	..	..	..	25.3	20.0	16.5	19.1	60	..	2.4	..	5.1	0	0	29	5	0	1	0	1	4	11	4	2	3
Hazaribagh	0830	615	1011.7	943.3	..	22.8	18.5	15.8	18.2	66	..	2.3	..	4.1	0	0	21	4	1	6	1	1	0	2	6	10	0
	1730	,,	1008.7	940.5	..	22.7	19.0	16.7	19.3	70	..	2.5	..	2.5	0	0	17	2	1	2	0	0	0	2	10	14	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	2.7	..	..	0	4	27	1	2	5	4	0	0	14	5	0	0
	1730	..	..	..	..	..	..	..	..	..	..	2.8	..	..	0	0	31	0	1	9	1	0	0	20	0	0	0
Bokaro	0830	242	1012.8	985.8	..	25.8	21.5	19.0	22.5	67	..	4.1	..	3.0	0	0	28	0	7	0	5	0	11	0	5	3	0
	1730	,,	1011.0	983.9	..	26.8	22.5	20.4	24.2	69	..	4.3	..	3.5	0	0	31	1	11	0	10	0	4	0	4	0	1
Ramgarh	0830	..	..	..	..	23.4	19.8	17.7	20.1	79	..	2.6	..	1.5	0	0	16	0	0	0	0	1	5	7	3	15	0
	1730	..	..	..	..	25.6	20.9	17.8	20.8	63	..	3.5	..	0.5	0	0	5	0	1	0	0	0	3	1	0	26	0
Panchet Hill	0830	..	..	..	..	26.4	21.9	19.6	22.7	67	..	3.8	..	3.2	0	0	25	0	5	0	2	2	8	2	6	6	0
	1730	..	..	..	..	27.0	22.1	19.2	22.4	64	..	3.9	..	1.3	0	0	10	0	3	1	3	1	1	0	1	21	0
Durgapur	0830	..	..	..	..	26.3	22.7	20.8	24.7	73	..	2.7	..	(a) 6.4	0	0	30	13	3	5	0	5	0	2	3	0	0
	1730	..	..	..	..	27.3	23.3	21.1	25.1	69	..	2.4	..	(b) 3.4	0	1	29	5	7	4	5	2	1	1	6	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	24.1	19.4	16.5	18.8	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1012·0	994.0	..	26.2	23.0	21.4	25.5	73	..	2.6	..	2.8	0	0	25	11	2	5	0	0	0	2	3	6	2
	1130	,,	1011·1	993·3	..	29.6	24.3	21.6	25.8	63	..	3.3	..	3.1	0	0	28	8	1	4	4	0	1	0	8	3	2
	1730	,,	1008·5	990·7	..	28·4	23·9	21·5	25·6	68	..	3.4	..	1·9	0	0	18	5	1	2	4	0	1	0	4	13	1
Bhimkund	0830	..	..	..	..	24·2	21·5	20·0	23·4	78	..	4·5	..	5·6	0	1	25	4	10	1	0	0	3	0	8	5	0
	1730	..	..	..	..	25·9	22·1	20·1	23·5	70	..	5·1	..	1·5	0	0	13	1	5	1	2	3	1	0	0	18	0
Sonepur	0830	..	..	..	..	26·4	23·6	22·0	26·4	78	..	..	..	4·3	0	0	31	4	4	8	3	3	1	4	4	0	0
Khijrawan	0830	..	..	..	..	24·7	21·2	18·9	21·8	70	..	2·3	..	7·0	0	0	31	2	6	6	6	2	5	3	1	0	0
	1730	..	..	..	..	25·3	21·4	19·0	21·8	69	..	4·1	..	7·2	0	0	31	1	7	6	10	0	3	1	3	0	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	22·7	18·3	15·5	17·7	63	..	0.9	..	3·2	0	0	14	0	5	2	0	0	7	0	0	17	0
	1730	..	..	..	..	27·7	20·3	15·6	17·7	48	..	1.4	..	0·6	0	0	4	0	1	0	3	0	0	0	0	27	0
Punasa	0830	..	..	..	..	23·6	18·4	14·8	17·0	60	..	1·2	..	5·0	0	1	20	1	16	3	0	0	0	1	0	10	0
	1730	..	..	..	..	29·9	20·8	15·0	17·0	41	..	1·5	..	0·4	0	0	3	0	2	1	0	0	0	0	0	28	0
Thikri	0830	..	..	..	..	24·1	19·2	15·9	17·7	60	..	0·9	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	27·9	22·8	20·0	23·04	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	31·9	23·9	19·5	23·1	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	12·7	9·5	7·1	10·1	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·1	8·4	5·4	9·0	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	20·7	16·8	14·7	16·7	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·2	18·9	16·9	19·3	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	11·2	8·9	6·9	9·9	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·4	13·2	11·0	13·1	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	21·3	17·5	15·1	17·1	68	..	1·5	..	2·7	0	0	22	1	3	0	5	1	10	0	2	9	0
	*1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·8	18·8	17·1	19·5	75	..	2·8	..	2·3	0	0	17	3	5	2	3	0	1	0	3	14	0

*Data not available (a) Mean of 30 days. (b) Mean of 29 days. (R)—Register not recived.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1962 (ASVINA 9—KARTIKA 9, 1884 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas):	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed Km. p. h.): 62 or more	Wind speed: 20 to 61	Wind speed: 1 to 19	No. of observations — Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(Contd.) Gandak Catchment—(contd.)																											
Gorkha†	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	21·4	18·7	17·1	19·5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·4	18·1	15·5	17·6	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh	0830	..	..	..	..	18·3	14·9	12·5	14·5	69	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·3	16·8	14·5	16·5	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Mansiari	0830																										
	1730																										
Dadeldhura	0830	..	..	..	..	15·5	11·9	9·1	11·6	67	..	0·7	..	6.2	..	..	30	1	0	22	5	2	0	0	0	1	0
	1730	..	..	..	..	15·2	12·2	9·8	12·3	71	..	1·5	..	4.6	..	..	29	7	0	2	1	0	0	3	16	2	0
S. Harana	0830	..	..	..	..	19·7	15·6	12·7	14·7	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·3	15·6	13·1	15·1	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	26·0	21·3	18·7	21·6	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	††1730	..	..	..	..	25·8	22·7	21·7	25·0	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu*	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chautara	0830	..	..	..	..	17·4	15·2	13·9	15·9	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·8	15·9	13·5	15·5	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	14·6	12·2	10·9	13·0	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·4	13·3	12·3	14·3	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	10·8	8·3	6·3	9·5	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	7·3	6·5	5·8	9·2	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplechok	0830	..	..	..	..	18·2	14·4	11·6	13·7	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·2	15·1	12.2	14·2	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	17·5	14·9	13·3	15·3	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·6	15·0	14·0	16·0	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	17·1	13·9	11·6	13·7	71	..	2·8	..	..	..	..	..	1	1	0	1	1	0	1	0	26	0
	1130	..	..	..	..	20·1	15·5	12·4	14·7	62	..	3·2	..	..	..	..	..	3	0	1	0	4	7	9	4	3	0
	1730	..	..	..	..	17·0	13·5	10·9	13·2	68	..	3·8	..	..	..	..	..	1	0	0	0	16	7	4	0	3	0
Okaldhunga	0830	..	..	..	..	17·4	15·0	13·5	15·5	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	†1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·5	14·4	13·1	15·1	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	19·1	16·7	15·2	17·3	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19.7	17·3	15·8	17·9	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	20·3	17·1	15·1	17·1	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·8	16·8	13·5	15·5	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1013·0	996·3	..	23·5	20·4	18·5	21·4	73	..	2·2	..	3·7	0	0	28	1	6	1	7	1	8	0	4	3	0
	1130	,,	1011·2	994·8	..	28·5	22·8	19·8	23·1	60	..	2·5	..	4·8	0	0	30	2	1	0	0	3	11	11	2	1	0
	1730	,,	1009·5	992·8	..	24·0	21·9	20·7	24·6	82	..	2·6	..	3·1	0	0	26	0	5	10	4	2		3	1	5	0
Tista Catchment																											
Gangtok	0830	1812	1519·6	821·6	..	16·1	13·3	11·3	13·4	74	..	3·3	..	0·7	0	0	11	3	6	0	0	0	1	0	1	20	0
	1130	,,	1504·5	820·5	..	20·5	15·9	12·9	15·1	63	..	3·6	..	4·7	0	0	31	0	3	0	0	7	15	6	0	0	0
	1730	,,	9·1	819·0	..	16·2	13·8	12·1	14·2	77	..	4·6	..	3·1	0	0	23	0	1	0	1	14	6	0	1	8	0
Gezing	0830	..		..	..	18·5	15·6	13·9	15·9	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·3	15·0	13·6	15·6	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

†Data not available. *Data included under Nepal ††Observations for 30 days.

MONTHLY MEANS OF UPPER WIND

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radio wind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Table IV and V :

n—represents the number of observations;

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

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

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

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

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1, 16·2, 18·0, 21·0, 24.0, 27·0 and 30·0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4	Ambala	30°23′	76°46′	279	Ist April, 1941	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February,1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8	Bahraich	27°34′	81 36′	134	Ist October, 1961	0530	1130	1730	
9	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11	Begampet	17°27′	78°28′	543	Ist September, 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530		1730	
21	Dehra Dun	30°19′	78°03′	692	Ist October, 1958	0530		1730	
22	Dibrugarh/Mohanbari	27°29′	95°01′	112	Ist June, 1948	0530	1130	1730	2330
23	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34	Jharsuguda	21°55′	84°05′	240	Ist May, 1944	0530		1730	2330
35	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47	Srinagar	34°06′	74°48′	1603	1st August, 1962	0530*		1730*	
48	Tiruchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

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

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	AGARTALA												AHMADABAD											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·2	093	31	0·8	0·3	032	31	0·5	0·2	142	31	1·3	1·0	060	31	2·8	2·5	074	31	2·0	1·6	023
0.15 a.g.	30	3·2	0·9	057	29	2·9	1·6	292	29	3·3	0·9	284	31	5·5	4·5	065	31	2·9	2·6	069	31	3·2	2·6	040
0·3 a.m.s.l.	30	3·5	1·2	025	29	2·7	1·4	263	29	3·4	1·7	297	31	5·3	4·3	066	31	3·6	3·1	072	31	3·4	2·8	044
0·6 "	30	4·0	1·1	016	29	2·7	1·2	269	29	3·3	1·9	296	31	4·8	3·6	070	31	4·4	3·6	074	31	3·7	2·1	052
0·9 "	30	4·0	0·2	326	29	2·9	1·3	248	29	3·6	2·0	288	31	4·5	3·5	067	31	4·5	3·8	077	31	3·6	3·0	058
1.5 "	28	3·6	0·9	250	29	4·1	2·1	232	28	3·4	2·1	233	31	4·8	3·5	059	31	4·9	4·1	067	31	4·5	4·0	060
2·1 "	27	4·7	2·0	225	28	4·6	2·5	229	28	4·5	3·1	228	31	5·6	3·2	049	31	5·6	4·3	068	31	5·7	3·9	053
3·0 "	26	5·5	4·0	237	27	6·0	4·9	246	25	5·1	4·2	237	31	5·2	2·4	027	31	5·2	2·2	058	31	5·4	1·9	041
3·6 "	22	6·1	5·7	246	24	6·7	6·0	259	9	6·3	5·7	239	30	5·2	2·5	353	30	5·3	2·0	312	31	4·8	2·2	310
4·5 "	17	6·8	6·1	251	18	8·7	8·3	264	4	7·4	7·3	250	29	5·9	3·8	312	30	6·3	4·1	287	31	6·2	5·2	302
5·4 "	16	7·9	7·2	260	18	9·7	9.0	263					29	7·8	5·4	300	30	8.9	7·2	286	29	8·5	7·6	295
6·0 "	14	7·9	6·8	258	16	11·3	10·4	262					29	9·9	9·1	286	30	10·9	9·4	285	29	10·6	9·8	290
7·2 "	9	9·8	8·0	252	10	11·5	10·9	262					28	12·6	11·8	287	26	11·9	11·1	274	29	12·8	12·2	283
9·0 "	2	16·0	3·6	252	6	16·3	16·0	263					24	15.7	15·0	272	5	14·3	13·9	261	25	15·8	15·1	271

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·8	050	31	0·2	0·1	301	31	0·9	0·6	317	30	0·3	0·2	355	31	0·1	0·1	300	31	0·7	0·3	353
0·15 a.g.	31	4·3	3·6	055	31	3·9	2·3	303	31	2·4	0·8	321	30	3·1	2·2	325	31	3·2	0·9	315	31	6·0	1·9	002
0·3 a. m. s. l.	31	4·2	3·7	058	31	3·9	2·3	305	31	2·4	0·9	322	30	3·1	2·2	325	31	3·1	0·9	325	31	2·3	0·8	036
0·6 "	31	4·6	3·8	060	31	4·0	2·2	335	31	2·9	1·1	317	30	3·5	2·2	317	31	3·3	1·8	334	31	6·0	3·7	341
0·9 "	31	5·1	4·4	063	31	4·0	2·6	339	30	3·3	1·5	318	30	3·3	2·2	324	31	3·8	2·2	325	31	6·3	5·0	333
1·5 "	31	5·0	3·8	064	31	4·7	2·9	336	30	4·3	0·7	322	30	3·7	2·0	323	31	5·4	3·1	320	31	6·0	5·4	328
2·1 "	31	5·6	3·2	060	31	4·5	2·9	344	30	4·5	1·9	337	30	3·6	2·1	308	31	6·4	3·6	320	31	5·0	3·6	326
3·0 "	28	4·4	2·5	020	31	4·5	2·6	299	29	4·6	2·9	295	30	4·4	3·1	312	29	5·1	2·9	320	31	7·0	4·7	330
3·6 "	3	3·2	0·1	207	31	5·0	3·4	278	28	5·3	4·0	285	30	4·7	3·6	295	8	5·2	3·1	325	30	6·5	4·7	331
4·5 "					31	6.6	5·6	266	28	7·5	6·8	268	29	6·6	5·9	280	1	8·5	8·5	350	23	6·2	3·8	305
5·4 "					31	9·2	5·2	270	26	10·6	10·3	265	29	10·1	9·4	277					20	7·4	5·9	279
6·0 "					29	11·4	10·7	270	26	12·6	12·3	265	28	13·4	12·8	276					17	8·5	7·3	266
7·2 "					27	15·3	14·7	266	24	18·1	17·1	265	28	16·9	16·1	270					3	13·2	12·8	272
9·0 "					22	21·0	19·5	269	8	48·4	46·9	262	25	20·2	19·7	265								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	1·3	0·3	346	31	1·6	1·6	313	31	1·5	1·0	335	31	1·1	0·5	038	31	3·5	2·8	054	31	1·5	1·0	092
0·15 a.g. . . .	31	3·2	0·8	352	31	4·5	3·9	313	31	7·6	6·6	327	28	3·7	1·6	042	31	5·5	4·3	056	28	4·6	3·5	105
0·3 a.m.s.l. . .	31	2·0	0·4	331	31	2·5	2·2	312	31	2·9	2·3	339												
0·6 ,, . . .	31	3·6	1·4	338	31	5·2	4·7	316	31	8·0	7·3	328	28	4·0	1·4	041	31	4·9	3·6	056	28	5·0	3·9	098
0·9 ,, . . .	31	4·5	3·3	337	31	5·5	4·9	317	31	7·1	6·3	329	28	5·2	2·5	065	31	5·2	3·7	060	28	6·2	4·9	085
1·5 ,, . . .	31	4·7	3·6	337	31	5·0	4·3	317	31	5·0	4·5	327	26	6·3	5·2	067	30	5·9	3·8	047	28	6·2	4·8	054
2·1 ,, . . .	31	4·9	2·5	333	31	5·0	3·4	317	31	5·1	3·7	325	23	5·9	4·8	050	26	5·9	3·9	055	28	6·3	4·2	045
3·0 ,, . . .	31	6·2	2·9	332	31	6·0	3·1	315	30	6·3	4·2	303	20	5·0	3·9	060	20	5·0	3·3	054	23	4·6	2·9	071
3·6 ,, . . .	31	6·0	3·0	322	29	5·5	3·9	314	9	4·7	3·4	320	19	4·9	3·7	074	18	4·6	3·1	070	17	4·1	3·5	083
4·5 ,, . . .	29	6·7	4·6	291	29	6·0	5·0	303	4	7·3	6·8	307	17	4·7	3·7	082	15	5·0	3·4	074	6	4·2	3·0	101
5·4 ,, . . .	29	8·5	6·1	274	27	8·4	7·5	291	1	9·5	9·5	256	16	5·2	3·9	080	10	4·9	3·1	076	4	4·1	3·2	136
6·0 ,, . . .	27	10·5	9·3	276	26	10·5	9·5	281	1	10·5	10·5	240	15	5·2	3·5	078	10	5·3	4·1	074	3	4·8	4·8	126
7·2 ,, . . .	16	15·3	14·3	276	9	17·7	17·0	278					12	4·2	3·3	088	7	5·6	3·9	088	1	3·5	3·5	115
9·0 ,, . . .	6	29·3	28·7	269	1	29·0	29·0	280					9	4·5	2·0	098	4	5·9	3·0	103				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	0·9	0·2	321	31	0·5	0·2	143	31	0·5	0·1	312	31	0·6	0·5	051	31	3·3	2·3	040	31	1·3	1·1	044
0·15 a.g. . .	28	4·7	2·4	335	30	3·3	0·3	060	30	4·5	1·5	333	31	5·1	4·2	057	31	5·6	4·2	050	31	6·6	5·9	053
0·3 a.m.s.l. . .	28	4·9	2·5	349	30	3·3	0·4	055	30	4·6	1·6	340												
0·6 ,, . . .	28	4·9	2·5	008	30	4·0	1·0	355	30	4·7	1·9	342												
0·9 ,, . . .	28	4·8	2·2	358	30	4·1	1·5	342	30	4·4	1·4	329	31	7·1	6·0	067	31	5·8	4·2	050	31	8·0	6·9	055
1·5 ,, . . .	28	4·8	1·2	337	30	4·9	2·7	317	28	4·8	1·6	298	31	7·9	6·5	070	31	4·9	4·0	049	31	7·4	5·7	066
2·1 ,, . . .	26	5·9	1·4	252	26	5·7	2·9	283	26	5·9	2·0	272	30	6·1	3·2	059	29	4·4	3·2	049	28	6·2	3·3	070
3·0 ,, . . .	22	7·2	5·5	250	24	6·3	4·6	271	24	6·0	3·9	281	24	5·0	1·4	008	24	4·1	1·4	029	25	5·6	1·3	042
3·6 ,, . . .	19	8·4	6·5	254	20	7·0	5·9	276	15	5·7	4·8	287	8	5·6	0·3	057	21	4·1	0·6	343	17	5·0	0·4	185
4·5 ,, . . .	13	8·5	6·6	259	16	8·1	6·8	271	7	6·3	5·7	281					17	4·3	1·2	297				
5·4 ,, . . .	4	6·5	5·7	261	5	6·3	6·2	268									14	4·0	2·4	307				
6·0 ,, . . .	2	4·7	4·5	262	4	5·7	5·7	268									11	5·1	3·7	320				
7·2 ,, . . .	1	5·0	5·0	250	4	7·2	6·8	259																
9·0 ,, . . .	1	12·0	12·0	275	1	11·5	11·5	255																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884, Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·3	0·2	013	31	0·5	0·3	299	31	0·4	0·4	285	31	1·4	0·1	045	31	2·8	0·8	017	31	2·4	1·3	032
0·15 a.g.	31	3·2	1·9	315	31	2·1	1·3	295	31	3·6	3·3	288	17	5·2	2·9	059	24	5·1	2·3	019	27	5·3	2·7	018
0·3 a.m.s.l.	31	3·2	2·0	308	31	2·1	1·4	297	31	3·7	3·4	291												
0·6 ,,	31	3·3	2·5	301	31	2·8	1·9	301	31	3·9	3·6	299												
0·9 ,,	31	3·6	2·7	310	31	3·1	2·0	303	31	3·6	3·3	302												
1·5 ,,	31	4·0	2·4	323	30	3·9	1·2	315	31	4·1	2·1	318	17	6·8	4·9	054	22	5·5	1·9	024	27	5·8	3·8	035
2·1 ,,	30	4·4	1·3	041	30	4·8	1·0	125	30	4·5	1·4	304	17	6·0	5·0	053	18	6·1	3·1	054	26	6·0	3·5	046
3·0 ,,	30	4·4	0·8	346	30	4·5	0·7	045	30	4·8	1·2	320	15	5·0	3·7	070	7	4·9	2·9	092	21	5·6	2·8	056
3·6 ,,	29	4·8	2·4	285	30	4·5	1·3	276	30	4·3	2·2	298	14	5·0	3·8	087	5	4·9	2·6	119	16	5·5	3·0	085
4·5 ,,	25	6·9	5·4	278	30	5·9	4·8	265	30	5·7	5·3	290	14	5·6	4·1	095	2	5·5	3·1	095	13	5·0	3·4	097
5·4 ,,	22	8·2	8·2	263	30	10·9	9·9	266	30	10·2	9·9	283	13	5·4	4·6	102	2	5·3	4·3	093	9	5·3	4·4	107
6·0 ,,	18	13·0	12·7	263	30	13·9	13·5	265	29	14·2	14·2	278	11	5·0	4·1	102	1	4·0	4·0	020	9	6·4	5·1	108
7·2 ,,	15	21·6	20·9	267	30	21·6	20·8	271	27	19·7	19·3	272	10	5·2	4·5	102	1	2·0	2·0	045	8	5·6	5·0	105
9·0 ,,	4	31·5	31·0	266	28	29·3	28·5	264	21	29·8	29·0	266	9	5·7	5·0	116	1	2·0	2·0	195	8	5·9	5·3	116

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	0·8	079	31	0·7	0·1	358	31	0·6	0·5	294	31	1·1	0·7	038	31	2·4	1·9	050	31	1·2	0·8	063
0·15 a.g.	24	5·5	2·4	072	31	3·5	1·5	294	31	2·6	1·7	292	28	5·4	3·7	060	30	4·6	3·6	048	31	6·0	4·8	065
0·3 a.m.s.l.					31	3·4	1·1	308	31	2·4	1·6	297												
0·6 ,,					31	4·6	3·4	297	31	2·9	2·1	296	28	3·6	2·5	060	30	4·5	3·5	042	31	4·3	3·4	060
0·9 ,,					31	4·4	3·5	300	31	3·0	2·5	293	28	6·3	4·7	065	30	4·9	3·9	050	31	6·5	5·3	069
1·5 ,,	24	6·6	3·0	050	31	4·0	2·7	310	31	3·7	3·1	287	27	6·9	5·3	055	30	5·7	4·3	050	28	6·0	4·4	060
2·1 ,,	20	5·3	3·1	028	31	4·5	1·6	341	31	4·1	1·9	305	26	5·2	3·3	042	27	5·4	4·6	048	27	5·5	3·3	044
3·0 ,,	16	4·5	2·6	068	30	5·2	2·3	325	30	5·0	2·7	318	23	4·1	2·5	046	26	4·4	3·2	044	25	4·0	1·7	040
3·6 ,,	11	3·8	2·8	084	27	4·6	2·1	313	30	5·6	4·0	315	20	3·5	1·3	045	22	4·0	2·8	046	17	4·1	0·7	352
4·5 ,,	9	3·7	2·6	113	26	5·4	4·0	269	30	6·9	5·9	298	19	3·5	1·8	079	20	3·8	1·7	073	9	4·3	0·5	250
5·4 ,,	7	4·4	3·8	117	25	8·0	7·2	266	30	9·9	9·3	284	17	3·9	2·2	082	18	3·8	1·6	057	3	3·2	2·7	070
6·0 ,,	6	5·4	4·5	114	21	10·9	10·0	262	30	12·7	12·3	281	17	3·6	2·1	077	15	5·3	3·6	060	2	2·5	2·5	060
7·2 ,,	2	3·7	3·5	160	8	17·7	17·2	251	25	21·6	18·4	273	13	4·1	3·0	088	7	4·9	4·2	049				
9·0 ,,									6	31·3	31·1	263	9	2·9	1·6	080	4	5·7	4·3	028				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884, Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	0·9	0·2	199	31	1·4	1·0	278	31	1·1	0·7	049	31	2·6	2·2	016	31	2·0	1·9	035	31	2·7	1·8	358
0·15 a. g. . . .	30	4·0	1·0	251	28	3·9	2·7	299	31	5·0	3·9	059	31	4·4	3·7	019	31	6·9	6·1	041	27	5·1	3·0	011
0·3 a. m. s. l. . .	30	4·9	1·0	309	28	3·9	2·5	301													27	4.9	2.1	035
0·6 ,, . .	30	4·7	1·2	355	28	4·1	2·7	301	31	4·3	3.3	062	31	4·0	3·4	018	31	6·5	5·8	041	26	4·5	1·7	053
0·9 ,, . .	29	4·0	1·4	353	28	3·8	2·5	300	31	5·3	4·7	041	31	4·8	4·2	019	31	6·4	5·6	042	26	4·4	1·8	043
1·5 ,, . .	27	4·4	1·8	006	28	3·8	1·4	281	31	6·0	5·2	028	31	4·5	4·0	027	31	4·5	3·5	048	24	3·9	0·8	358
2·1 ,, . .	27	4·8	1·0	355	28	4·2	1·6	268	31	5·7	4·5	016	31	4·6	3·7	036	31	4·3	2·1	040	24	4·0	0·6	291
3·0 ,, . .	26	4·9	2·2	239	27	5·2	3·5	272	30	6·1	2·3	335	28	5·6	3·3	332	27	4·6	1·4	332	17	4·1	0·7	274
3·6 ,, . .	23	6·3	3·7	249	24	5·7	5·1	285	27	6.3	3·0	294	21	5·9	4·2	302	4	5·0	3·2	305	13	4·5	1·9	276
4·5 ,, . .	19	8·1	5·3	258	21	9·3	8·1	276	20	5.9	3.6	272	16	8·2	7·3	285					11	4·1	2·3	269
5·4 ,, . .	19	10·5	9·1	268	12	12·2	10·6	267	15	6.2	5.1	267	14	11·4	9·7	285					9	3·6	2·9	238
6·0 ,, . .	16	12·5	10·6	272	8	13·2	12·6	259	14	7.6	7.0	269	14	13·6	12·5	283					9	3·6	2·4	234
7·2 ,, . .	8	14.0	11.0	267	3	11·5	11·4	259	6	11.6	11.0	280	4	12·9	12·0	281					3	2.8	1.7	297
9·0 ,, . .	1	6.5	6.5	210	2	14·5	14·0	255	3	15.5	15.4	269	2	12·5	11·6	252								

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	2·3	1·8	056	31	1·6	0·6	035	CALM				31	2·6	0·1	008	31	1·0	0·6	265	31	0·1	0·1	225
0·15 a. g. . . .	27	4·4	2·0	292	28	4·6	1·6	095	31	4·6	3·7	340	31	3·8	0·6	052	31	5·0	2·1	312	31	6·0	3·6	225
0·3 a. m. s. l. . .	27	4.8	2.3	065	28	4·9	1·8	108	31	5·0	4·1	344	31	4·0	0·8	061	31	4·9	2·1	337	31	4·7	2·8	220
0·6 ,, . .	27	4·3	2.3	061	28	4·5	1·8	098	31	4·9	2·9	360	31	4·2	1·0	065	31	4·8	2·0	011	31	5·1	3·2	253
0·9 ,, . .	26	3·7	1.7	046	28	3·9	1·3	075	31	4·5	2·2	057	31	3·9	1·4	051	31	4·4	2·3	054	31	4·5	3·3	267
1·5 ,, . .	25	4·3	1·2	345	28	4·5	1·3	009	31	4·7	2·6	084	31	3·7	1·7	058	30	5·1	3·3	084	31	4·4	3·5	288
2·1 ,, . .	19	4·7	2·2	295	25	5·1	1·7	263	31	5·2	2·8	082	31	3·8	2·2	044	30	6·5	4.1	078	31	5·1	4·1	301
3·0 ,, . .	14	6·0	3·8	284	15	4·0	2·8	249	31	5·5	3·6	027	31	4·9	2·7	040	30	5·1	2·7	045	30	6·0	3·5	338
3·6 ,, . .	9	6·4	4·7	280	1	2·5	2·1	245	10	5.5	4·0	008	31	5·1	2·7	357	10	5·5	3·7	003	26	6·1	4·1	346
4·5 ,, . .	7	5.8	5·4	244					5	5.0	4·2	346	30	6·9	4·7	310	4	5·1	3·2	321	21	6·0	4·6	312
5·4 ,, . .	6	5.7	4.1	246					2	16.7	16.3	332	29	9·0	7·4	303	3	9·3	7·7	291	16	9·6	8·5	296
6·0 ,, . .	5	5.2	4.6	233									29	11·3	9·5	301	1	2.0	2.0	280	12	13·7	13·0	287
7·2 ,, . .	3	2.0	0.8	285									11	13·8	12·3	294					6	18·5	17·5	278
9·0 ,, . .													6	18.6	18.3	275					1	21·0	21·0	260

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	BIKANER								BOMBAY/SANTACRUZ															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·3	0·2	258	31	0·1	0·1	045	31	1·1	0·8	082	31	1·1	1·0	063	31	4·0	3·5	326	31	1·5	0·8	024
0·15 a.g.	31	2·7	1·8	315	31	4·8	1·5	118	31	4·4	4·3	053	29	3·4	3·1	067	31	5·4	4·2	338	31	5·5	4·2	018
0·3 a. m. s. l.	31	2·4	1·5	310	31	4·5	1·9	132	31	5·4	4·3	057	30	3·9	3·4	084	31	4·7	3·3	347	31	5·9	4·5	018
0·6 ,,	31	3·8	2·1	310	31	3·9	0·6	135	31	5·4	4·5	065	30	5·0	4·1	087	31	3·8	2·5	013	31	6·2	4·4	030
0·9 ,,	31	3·1	2·0	302	31	3·0	0·6	284	30	5·1	4·1	065	30	5·5	4·6	085	31	3·9	2·8	030	31	5·6	3.7	043
1·5 ,,	31	2·9	1·9	285	31	2·8	2·0	285	30	4·7	3·5	076	30	4·5	3·4	072	31	4·3	3·3	063	31	5·1	3·2	064
2·1 ,,	31	3·4	2·2	286	31	3·8	2·9	284	30	3·7	1·9	088	28	3·9	2·1	067	31	4·7	2·8	081	29	5·6	4·6	090
3·0 ,,	31	4·7	2·0	308	31	5·2	2·6	305	30	4·1	0·3	084	27	4·8	1·1	055	31	4·6	1·4	060	29	4·9	2·7	102
3·6 ,,	31	5·5	2·6	315	20	5·9	4·1	324	30	4·7	0·1	296	27	3·9	1·1	043	31	4·2	0·7	054	23	4·1	1·1	139
4·5 ,,	31	7·3	6·1	292	2	7·7	7·3	312	30	5·2	1·6	328	25	3·5	0·9	022	30	4.1	1·2	294	19	4·5	1·6	310
5·4 ,,	29	11·9	11·0	285	1	12·0	12·0	290	30	4·9	2·1	349	25	3·5	1·5	036	30	4·7	1·7	328	9	5·3	0·8	318
6·0 ,,	23	14·7	14·2	282	1	17·5	17·5	290	30	6·1	2·6	360	25	4·0	1·9	018	30	5·1	2·1	345	9	3·9	0·5	330
7·2 ,,	11	21·5	20·8	285					30	5·7	2·4	014	19	5·1	2·3	339	30	4·9	2·9	340	3	2·5	0·1	357
9·0 ,,	5	32·4	31·4	264					23	5·8	0·6	207	13	4.7	2·9	246	28	6·0	1·8	297				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON †							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·4	045	31	1·7	0·8	036	31	0·6	0·2	134	31	0·6	0·1	090	31	0·7	0·3	075	31	2·1	1·5	261
0·15 a. g.	31	4·5	2·6	024	28	3·3	1·8	028	31	3·3	0·9	314	31	4·0	0·9	301	24	3·1	1·1	091	26	4·1	3·1	260
0·3 a. m. s. l.	31	4·7	2·7	032	28	3·6	2·0	028	31	3·5	0·7	339	31	4·0	0·7	318	24	2·8	0·4	130	26	4·7	3·6	257
0·6 ,,	31	5·0	2·5	039	28	4·2	1·9	027	31	3·9	1·0	024	31	4·2	0·1	277	24	3·9	1·1	299	26	4·8	3·5	267
0·9 ,,	31	4·7	1·9	036	27	4·1	1·5	036	31	3·9	0·6	021	30	4·5	0·2	019	24	4·5	1·4	306	26	4·6	3·0	272
1·5 ,,	31	4·4	0·2	313	25	3·8	0·6	035	31	4·3	1·0	251	29	4·9	1·0	197	24	4.3	1·3	319	24	4·3	2·0	294
2·1 ,,	31	5·3	1·9	223	21	5·5	2·6	256	31	5·6	3·1	255	27	5·3	3·0	220	23	5·0	1·0	048	20	4·5	1·7	339
3·0 ,,	31	6·2	3·9	228	13	6·3	4·0	255	31	6·5	4·2	250	20	6·3	3·3	228	19	5·0	1·7	072	16	5·4	2·4	328
3·6 ,,	30	6·5	4·6	230	12	6·1	4·4	262	31	6·6	4·9	253	9	6·6	4·9	253	16	5·5	1·6	109	11	5·4	2·3	340
4·5 ,,	30	7·5	5·8	235	9	7·4	6·7	263	31	7·9	5·7	254	4	6·1	1·9	179	12	5·7	2·0	122	8	4·3	2·8	045
5·4 ,,	30	7·9	6·0	237	8	8·4	8·2	264	30	9·1	6.7	256	3	8·2	5·8	188	8	4·7	0·2	101	2	5·5	4·7	066
6·0 ,,	30	9·3	7·3	242	7	8·0	7·8	259	30	9.6	7·1	255	2	8·7	6·1	157	8	5·5	0·7	127	1	5·0	5·0	030
7·2 ,,	28	10·6	8·3	247	6	8·3	8·1	259	30	9·9	8·4	253	2	9·5	8·3	194	2	4·7	2·2	108				
9·0 ,,	28	12·5	10·2	250	3	10·5	10·5	245	30	12·2	10·2	251	2	11·5	4·9	242	1	10·0	10·0	095				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	COCHIN/WILLINGDON†				DARJEELING								DEHRA DUN								DIBRUGARH/MOHANBARI			
Time in I.S.T.	2330				0530				1730				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·4	029	31	0·5	0·2	071	31	0·8	0·6	212	31	0·6	0·4	048	31	0.6	0.4	262	31	0·7	0·6	052
0·15 a. g.	21	3·1	0·5	044	25	2·4	1·3	070	22	2·1	1·7	218	31	1·5	0·9	058	31	2·1	1·7	271	29	4·3	3·5	057
0·3 a. m. s. l.	21	3·2	0·5	292																	29	4·3	3·5	052
0·6 ,,	21	3·7	2·0	276																	29	3·0	2·4	050
0·9 ,,	19	4·0	2·6	282									31	1·3	0·7	090	31	2·2	1·9	271	29	2·9	2·1	051
1·5 ,,	15	4·0	2·3	284									31	1·2	0·6	198	31	2·0	1·9	300	24	2·4	1·3	061
2·1 ,,	14	4·0	1·5	298									31	2·2	0·1	029	30	2·7	1·2	294	23	2·3	0·5	189
3.0 ,,	11	4·7	0·2	273	25	3·3	0·6	081	22	3·0	0·9	287	30	4·3	0·6	354	29	4·2	1·3	294	21	3·7	2·2	226
3·6 ,,	8	5·4	0·2	270	25	5·4	2·0	277	20	4·7	3·9	297	28	4·8	1·4	342	29	4·5	1·2	295	20	4·8	3·6	239
4·5 ,,	5	5·3	0·6	051	22	10·7	10·3	268	17	10·1	9·8	277	21	4·5	3·1	307	28	5·3	2·5	295	18	6·9	6·8	252
5·4 ,,					20	17·7	17·5	267	14	16·7	16·5	273	19	6·4	5·1	283	24	6·5	5·8	292	16	12·9	12·6	261
6·0 ,,					17	19·6	19·1	264	13	20·8	20·5	271	14	8·6	8·1	273	22	9·1	8·5	281	10	15·5	14·9	266
7·2 ,,					10	26.1	25.4	261	8	27·3	27·1	268	6	14·4	14·2	269	18	14·6	13·9	274	3	22·8	22·7	269
9·0 ,,					1	33.5	33·5	270	1	32·0	32·0	270					3	27·5	26·3	285				

Station	DIBRUGARH/MOHANBARI												GADAG											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·3	0·2	049	31	0·3	0·3	045	31	0·3	0·3	051	31	2·1	1·2	092	31	3·4	2·3	070	31	3·3	1·7	090
0·15 a. g.	30	1·9	1·3	053	30	1·7	0·9	272	29	2·8	2·2	048	30	4·8	3·0	089	30	6·0	3·8	057	28	6·7	2·0	123
0·3 a. m. s. l.	30	1.8	1.3	051	30	1·8	0·9	272	29	2·5	1·7	060												
0·6 ,,	30	1.6	1·2	060	30	1·7	1·0	070	29	2·2	1·4	067												
0·9 ,,	30	2·3	1·0	064	30	1·6	1·6	036	29	1·9	1·0	071	30	6·0	4·0	093	30	6·1	3·9	056	28	7·0	3·1	102
1·5 ,,	27	2·1	0·6	181	30	2·3	1·1	215	29	2·6	0·4	163	28	8·0	6·9	083	30	6·4	4·3	062	28	7·7	6·2	079
2·1 ,,	27	2·9	1·8	203	30	4·5	4·0	214	27	3·8	2·8	238	27	6·9	5·2	064	29	6·3	4·4	057	26	8·0	5·8	061
3·0 ,,	23	4·1	2·7	220	30	4·8	4·2	217	24	5·6	5·2	226	26	6·0	4·2	071	26	5·7	4·1	057	25	6·3	4·7	053
3·6 ,,	19	5·0	4·2	239	26	5·9	5·0	232	16	5·6	5·1	232	26	4·6	3·0	078	18	5·5	2·5	073	20	5·7	4·1	057
4·5 ,,	17	9·1	8·8	249	22	7·7	7·3	203	1	10·5	10·5	240	20	5·0	3·4	086	12	5·3	2·9	074	14	5·1	2·2	062
5·4 ,,	14	15·4	15·0	256	20	13·0	12·7	260					16	4·8	2·9	094	10	5·3	3·5	077	8	4·2	2·3	089
6·0 ,,	14	17·1	16·7	261	19	17·4	15·9	266					13	5·6	3·7	080	9	5·3	3·8	062	6	5·0	3·3	118
7·2 ,,	12	21·7	21·4	265	13	16·8	16·2	263					12	5·4	5·0	073	7	4·3	2·9	036	1	8·5	8·5	080
9·0 ,,	7	24·9	24·6	262	2	27·0	26·5	271					11	4·0	2·9	094	6	3·0	2·1	040				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	CALM				31	2·0	1·4	018	31	0·2	0·1	058	31	0·7	0·4	177	31	0·8	0·4	218	31	1·0	0·4	310
0·15 a. g. . . .	31	2·3	1·0	075	30	2·7	2·3	033	31	2·9	1·0	023	31	2·6	0·7	150	29	3·3	1·6	250	30	2·9	1·5	317
0·3 a. m. s. l. . .	31	2·4	1.1	070	30	2.9	2.1	052	31	3.0	1.0	032	31	2·9	0·2	263	29	3·4	1·4	267	30	2·9	1·5	319
0·6 ,, . .	31	3.0	1·6	084	30	3·3	2·5	079	31	3·2	0.9	034	31	3·7	0·1	028	29	4·6	2·3	349	30	3·4	1·9	319
0·9 ,, . .	31	3·7	1·7	083	28	4·1	2·7	115	31	3·1	0·2	048	30	3·8	0·4	270	28	4·5	2·5	343	29	3·3	1·7	310
1·5 ,, . .	31	4·1	1·7	091	27	4·2	2·2	126	31	4.1	1·9	217	30	3·6	0·6	233	28	4·7	2·3	359	29	4·3	1·6	260
2·1 ,, . .	31	4·6	1·1	141	26	4·6	1·8	166	31	4·1	2·9	240	28	4·5	2·1	240	26	5·0	2·3	334	29	4·9	2·8	270
3·0 ,, . .	31	5·4	3·2	255	24	5·1	3·3	236	31	5·7	4·8	254	15	6·0	4·0	241	23	5·7	3·4	296	29	6·9	4·2	279
3·6 ,, . .	31	7·3	6·6	253	23	7·8	7·5	254	31	6·5	5·9	255	13	6·5	5·2	255	19	6·2	4·7	274	26	6·4	4·6	280
4·5 ,, . .	31	10·4	9·7	249	20	9·7	9·6	255	31	11·0	10·4	265	3	10·3	10·2	258	15	9·4	8·1	264	24	8·1	7·1	267
5·4 ,, . .	31	13·6	12·7	254	17	11·9	11·6	259	31	14·9	14·2	265	2	14·7	14·7	260	13	11·1	10·5	261	19	11·4	11·0	267
6·0 ,, . .	31	15·1	14·2	258	16	15·6	15·3	263	31	16·2	15·3	262	2	17·0	17·0	265	7	13.4	12.6	254	17	13·6	12·9	264
7·2 ,, . .	31	17·8	17.0	258	13	17.4	16.5	259	31	18·5	17.4	260					2	13·3	13.1	262	9	13·9	13·7	262
9·0 ,, . .	25	21.9	20.0	258	7	22.9	22·0	257	24	22.0	21·0	262					1	15.5	15.5	245	4	15·4	15·0	262

Station	GAYA				GOPALPUR												GORAKHPUR								GWALIOR			
Time in I. S. T.	2330				0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·8	0·4	213	31	1·5	1·2	349	31	1·9	0·7	056	31	1·4	0·8	332	31	0·4	0·1	340	31	0·5	0·4	260	31	0.4	0.2	242
015 a. g. . .	30	3·8	1·2	282	26	5·3	4·5	346	26	3·9	2·2	076	25	3·7	0·9	067	31	3·6	1·3	299	31	2·8	2·2	256	31	3·7	1.2	286
0·3 a. m. s. .	30	4·0	1·2	297	26	4·7	2·6	025	26	4·6	2·8	085	25	3·8	1·7	098	31	3·7	1·9	293	31	3·0	2·3	269	31	3.1	1.4	269
.	30	4·4	1·6	314	25	4·3	2·0	046	26	4·5	3·2	074	24	4·1	2·8	101	31	3·6	2·1	301	31	3·1	2·4	276	31	3.7	1.5	324
0·9 ,, . .	30	4·2	1·8	308	25	4·2	2·1	051	24	4·7	3·1	063	23	3·7	2·4	076	31	3·6	1·9	308	31	3·1	2·2	281	31	3.9	2.7	333
1·5 ,, . .	30	5·3	2·0	296	23	3·9	1·9	049	24	4·3	1·9	017	24	4·2	1·7	034	30	3·9	1·5	306	30	3·7	1·8	292	31	5.3	4.5	338
2·1 ,, . .	29	6·2	2·6	293	17	4·1	1·5	044	22	4·3	1·7	335	20	4·5	0·4	066	29	5·1	0·8	065	30	4·6	0.5	298	31	6.6	5.7	341
3·0 ,, . .	20	4·3	1·8	267	13	4·3	1·0	326	16	4·8	2·2	293	16	5·6	1·3	269	28	4·7	0·3	154	28	4·7	1·3	329	31	5.6	4.2	333
3·6 ,, . .	5	4·7	3·5	236	13	3·3	1·7	291	14	4·9	3·3	279	5	9·1	8·4	261	25	4·4	1·3	275	27	4·8	3·0	299	31	5.8	4.1	310
4·5 ,, . .					10	2·5	1·8	248	9	3·7	2·8	216	2	6·0	3·9	267	23	6.9	3.0	252	27	7·0	6·2	282	31	7.4	6.3	286
5·4 ,, . .					8	2·6	1·2	270	8	2·7	1·1	173	1	1·5	1·5	055	22	10.4	8.3	263	26	11·4	10·7	277	31	10.3	9.7	272
6·0 ,, . .					8	2·0	0·8	250	7	2·9	2·1	146	1	0·5	0·5	275	21	12.7	11.8	260	26	14·0	13·5	273	31	13.1	12.4	268
7·2 ,, . .					4	2·2	0·5	220	7	3.6	2·1	041					18	18.6	17.7	252	24	19.4	18·9	267	31	19.3	18.1	271
9·0 ,, . .					1	5.5	5.5	090	1	2·0	2·0	040					4	17.4	16.9	250	14	26.6	26.0	260	27	25.1	24.3	265

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	GWALIOR												IMPHAL/TULIHAL											
Time in I.S.T.	1130				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·7	0·4	295	31	1·0	0·7	353	31	0·4	0·3	226	31	0·5	0·3	029	31	1·3	0·4	211	31	2·5	1·5	260
0·15 a. g.	31	2·2	1·2	310	31	3·6	3·0	351	31	3·9	0·8	008	27	1·7	1·2	070	29	1·5	0·5	209	28	3·5	2·1	258
0·3 a. m. s. l.	31	2·2	1·0	330	31	3·2	2·7	352	31	3·4	0·3	057												
0·6 „	31	2·3	1·3	317	31	3·5	2·9	350	31	3·7	1·8	348												
0·9 „	31	2·9	2·0	324	31	3·5	3·0	342	31	3·8	2·5	339	27	1·7	1·2	054	29	1·4	0·5	203	28	3·3	1·9	259
1·5 „	31	4·3	3·0	333	31	3·8	3·1	332	31	4·4	3·8	326	26	2·4	0·6	066	28	2·2	0·5	161	28	2·5	1·3	221
2·1 „	31	5·8	4·3	347	31	4·8	3·5	332	31	5·3	4·3	331	22	3·4	1·1	194	19	2·8	0·7	182	27	3·3	1·7	258
3·0 „	31	5·9	3·6	325	31	6·1	4·4	321	30	4·9	3·4	333	10	4·9	1·9	265	12	5·3	3·9	262	20	5·3	4·2	261
3·6 „	31	5·7	3·9	294	31	6·1	5·1	310	14	5·6	4·4	313	4	4·1	3·3	256	11	5·6	5·5	266	17	6·1	5·0	267
4·5 „	31	7·9	6·7	273	31	8·5	7·9	291									7	7·7	7·4	261	8	6·7	6·3	266
5·4 „	31	11·5	11·0	266	31	11·8	11·4	281									2	7·0	6·5	230	7	10·6	10·1	273
6·0 „	31	14·3	13·7	268	31	14·4	14·1	298									2	8·5	8·5	235	3	4·2	3·5	264
7·2 „	31	18·7	18·0	270	30	18·8	18·2	270									1	17·5	17·5	230	2	9·0	8·9	243
9·0 „	22	24·9	24·3	264	24	25·7	25·2	264													1	13·5	13·5	255

Station	IMPHAL/TULIHAL				JABALPUR												JAGDALPUR							
Time I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·8	358	31	1·0	0·4	049	31	0·9	0·7	033	31	0·2	0·1	106	31	0·2	0·2	054	31	0·9	0·9	043
0·15 a.g.	29	2·1	0·8	333	30	3·6	1·7	065	31	3·3	2·6	025	31	4·4	3·3	066	30	4·2	3·6	041	31	4·0	3·4	042
0·3 a.m.s.l.																								
0·6 „					30	4·4	2·9	050	31	3·4	2·8	025	31	4·5	3·4	059	30	1·9	1·6	043	31	2·4	2·0	043
0·9 „	29	2·1	1·0	331	30	6·1	5·0	036	31	3·9	3·3	023	31	4·9	4·0	042	30	5·4	4·8	060	31	4·6	3·9	041
1·5 „	29	2·5	1·0	203	31	5·9	4·9	020	31	4·3	3·5	010	31	4·7	3·6	019	29	5·0	4·1	067	30	4·8	3·6	040
2·1 „	27	3·4	1·9	207	30	5·9	4·1	005	31	4·5	2·7	351	31	4·7	2·0	356	27	3·8	1·4	076	29	4·0	1·9	043
3·0 „	17	4·3	3·5	247	28	5·7	2·9	333	31	5·4	3·8	313	30	4·8	2·9	317	24	4·1	1·6	040	21	4·9	1·2	352
3·6 „	12	5·3	5·2	252	26	6·0	3·5	286	30	5·6	4·4	292	23	5·3	3·8	287	20	4·1	1·7	051	18	4·4	1·1	327
4·5 „	3	10·3	10·3	257	22	5·8	4·8	279	29	6·8	5·8	279	7	4·9	3·9	271	19	3·4	1·3	037	15	3·9	1·1	298
5·4 „	1	15.0	15·0	270	17	5·8	4·4	273	29	8·1	7·1	278	2	7·5	7·5	271	19	2·9	1·6	035	14	2·8	0·7	025
6·0 „					14	6·8	5·8	272	27	9·4	8·6	283	2	9·3	9·1	286	18	2·5	1·1	044	14	3·2	1·0	042
7·2 „					10	7·5	5·5	267	22	10·7	9·7	273					10	2·3	0.3	241	9	3.9	1·2	013
9·0 „					4	7·4	6·9	270	17	12·2	11·5	259					2	3·0	1·3	147	3	6.5	2.5	286

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	JAGDALPUR				JAIPUR/SANGNER												JAMSHEDPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	0·6	0·5	053	31	1·1	0·9	006	31	1·2	0·9	302	31	0·7	0·6	005	31	1·4	0·6	307	31	1·5	0·6	02
0·15 a.g. . . .	31	5·7	5·0	060	31	4·1	1·1	284	31	3·7	2·7	314	31	4·0	1·3	340	26	3·5	2·4	327	30	3·1	1·2	02
0.3 a. m. s.l. . .																	26	3·5	2·2	340	30	3·0	1·1	02
0·6 „ . . .	31	3·6	3·0	060	31	4·1	1·1	273	31	3·9	2·8	318	31	4·2	1·4	345	26	4·1	2·5	029	30	3·2	1·3	02
0·9 „ . . .	31	6·4	5·9	065	31	4·1	1·7	289	31	3·9	2·9	324	31	4·1	1·8	335	26	4·7	2·7	036	30	3·8	1·7	00
1·5 „ . . .	31	5·3	4·3	066	31	4·4	3·5	327	31	4·0	3·2	334	31	4·4	3·0	325	26	4·8	1·7	036	29	4·9	1·8	32
2·1 „ . . .	27	4·2	1·6	046	31	6·1	5·4	336	31	4·1	3·4	350	31	5·5	4·3	325	22	5·7	1·7	264	24	4·9	2·8	29
3·0 „ . . .	24	4·9	0·9	045	29	7·3	5·6	346	31	4·5	3·4	339	29	5·9	4·3	345	20	7·3	4·7	247	20	7·3	5·8	27
3·6 „ . . .	13	4·5	1·0	056	22	5·9	4·6	345	31	5·7	4·6	311	25	6·0	5·1	342	17	7·7	5·1	243	18	8·5	7·3	26
4·5 „ . . .	2	5·3	5·2	066	9	6·8	4·8	319	31	8·7	7·9	286	4	6·2	5·1	312	14	6·6	4·7	253	11	5·3	4·5	26
5·4 „ . . .									30	10·7	10·1	277					9	5·9	5·2	257	9	6·5	5·5	27
6·0 „ . . .									27	12·9	12·3	276					5	4·0	3·6	274	9	6·7	6·1	27
7·2 „ . . .									10	18·8	18·3	270					3	8·8	8·8	268	5	10·3	10·3	26
9·0 „ . . .									4	19·5	19·5	245					2	13·3	13·2	280	2	11·5	11·3	20

Station	JHARSUGUDA												JODHPUR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	1·6	1·4	023	31	1·6	0·5	030	31	1·1	0·4	055	31	0·7	0·4	358	31	0·7	0·1	326	31	1·7	0·4	00
0·15 a.g. . . .	30	4·9	4·3	037	30	3·2	1·4	026	31	3·9	0·7	067	31	4·4	1·8	033	31	2·1	0·1	135	31	4·6	2·5	01
0·3 a.m. s. l. . .	30	4·1	3·6	034	30	3·0	1·3	023	31	3·3	0·6	060	31	1·8	1·2	014	31	2·1	0·6	282	31	2·5	0·8	01
0·6 „ . . .	30	5·5	4·2	055	30	3·4	1·7	026	31	4·4	1·2	068	31	3·7	1·1	028	31	2·7	0·5	252	31	3.8	1·6	30
0·9 „ . . .	30	5·4	3·5	054	30	3·6	1·6	022	30	4·3	1·7	050	31	3·0	0·9	338	31	3·0	0·6	264	31	3·0	0·7	34
1·5 „ . . .	29	4·5	2·3	037	29	3·8	1·8	360	30	4·3	1·9	041	31	3·3	1·1	318	31	3·7	1·1	345	31	3·1	0·7	32
2·1 „ . . .	25	5·1	1·5	306	28	4·6	2·1	319	29	4·4	1·1	336	31	3·9	1·1	302	31	4·2	1·7	017	31	3·6	1·3	33
3·0 „ . . .	23	6·7	3·0	265	25	6·0	4·0	293	24	6·4	3·5	273	31	5·5	2·5	351	31	4·7	1·5	038	30	4·7	1·9	33
3·6 „ . . .	11	6·9	3·5	280	21	7·2	5·8	280	13	6·3	4·3	276	31	5·6	2·3	336	31	4·9	1·4	330	29	5·5	3·0	31
4·5 „ . . .	8	5·6	2·4	280	13	7·5	6·9	253	1	5·5	5·5	275	31	7·2	4·6	299	31	7·1	5·5	275	27	8·2	7·0	29
5.4 „ . . .	3	3·3	3·3	267	9	6·7	6·3	255					31	10·6	7·7	282	30	10·7	9·9	276	27	11·7	10·9	28
6·0 „ . . .	1	8.0	8.0	295	4	8·5	8·5	247					31	12·5	11·2	278	27	14·5	13·6	277	27	14·1	13·0	28
7·2 „ . . .													28	17.9	17.2	271	16	20·6	19·4	270	26	18·4	16·4	27
9.0 „ . . .													20	25·2	24·5	268	7	27·1	25·7	266	15	28·0	27·6	27

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	JODHPUR				LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM							
Time in I.S.T	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	0·9	0·2	081	31	0·7	0·4	272	31	1·0	0·9	280	31	0·5	0·2	224	31	1·6	0·9	329	31	3·2	2·0	344
0·15 a. g. . .	31	6·1	2·5	090	31	4·0	2·0	293	31	2·8	2·2	305	31	4·2	1·3	296	30	4·3	2·6	336	29	4·4	2·6	353
0·3 a. m. s. l. . .	31	5·3	2·3	075	31	4·0	2·0	301	31	2·8	2·2	304	31	4·1	1·8	311	30	4·4	2·3	355	29	4·9	2·7	002
0·6 ,, . .	31	5·6	1·9	094	31	3·7	2·0	313	31	3·4	2·6	307	31	3·9	2·7	306	30	4·6	1·7	021	28	5·1	3·0	358
0·9 ,, . .	31	4·5	0·8	090	31	3·6	2·9	320	31	3·5	2·7	310	31	3·9	3·1	315	30	4·6	2·1	031	24	5·5	3·1	359
1·5 ,, . .	31	4·2	0·7	315	31	4·6	2·4	325	31	4·2	3·0	304	31	4·4	3·2	310	29	5·0	2·8	050	16	5·3	2·8	035
2·1 ,, . .	31	4·6	1·4	313	31	5·6	2·3	336	31	4·5	2·2	337	31	5·1	3·1	313	29	5·0	2·9	053	14	4·5	2·7	043
3·0 ,, . .	30	5·5	1·7	345	28	5·1	3·2	310	31	5·0	3·3	310	28	4·4	2·7	303	30	4·7	2·3	078	12	4·3	2·1	053
3·6 ,, . .	20	5·1	2·8	006	25	6·3	4·2	290	31	5·3	4·1	297	15	5·5	2·4	288	30	5·3	3·0	096	7	3·6	0·7	346
4·5 ,, . .	5	5·0	2·4	319	18	6·4	5·2	269	31	8·0	7·4	282	5	5·2	3·5	172	28	5·8	4·0	105	5	4·6	1·5	301
5·4 ,, . .	3	7·8	7·8	270	16	8·9	8·3	263	29	11·5	10·9	277	1	10·5	10·5	120	26	6·3	4·7	102	5	3·3	1·7	321
6·0 ,, . .	3	11·0	10·1	271	10	12·1	11·7	260	27	14·4	13·6	274					25	5·9	4·4	107	5	5·1	2·1	002
7·2 ,, . .	2	17·2	17·0	273	6	14·9	14·7	265	25	19·3	18·2	262					25	2·6	4·5	113	5	6·8	1·7	194
9·0 ,, . .									14	24·3	22·1	256					23	6·3	4·4	105	2	6·5	3·7	192

Station	MADRAS/MINAMBAKKAM								MANGALORE/BAJPE												MINICOY			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	3·3	2·4	030	31	1·8	0·9	359	31	1·6	1·1	093	31	3·3	2·4	257	31	1·9	1·1	107	31	2·8	2·5	277
0·15 a. g. . .	30	6·3	4·7	029	27	5·0	2·0	057	29	3·6	1·7	082	28	5·1	3·6	265	26	4·0	0·7	157	28	5·7	5·1	279
0·3 a. m. s. l. . .	31	6·3	4·4	027	27	5·3	2·3	060	29	3·8	1·2	084	28	5·2	3·7	268	26	4·2	0·8	207	28	6·0	5·4	277
0·6 ,, . .	31	6·0	4·2	021	27	6·1	3·0	058	29	5·1	0·7	046	28	4·8	3·1	286	26	4·7	1·7	251	28	6·4	5·6	280
0·9 ,, . .	31	6·0	4·0	022	26	5·7	2·8	045	27	5·6	0·6	072	27	4·3	2·0	310	25	4·7	1·0	251	28	6·2	5·4	284
1·5 ,, . .	30	5·4	3·4	020	26	5·9	3·0	025	26	6·0	2·7	091	23	5·0	1·8	045	21	5·8	1·8	073	27	5·6	4·4	290
2·1 ,, . .	29	4·8	2·1	030	26	6·1	2·6	033	21	7·5	4·4	087	20	6·3	3·0	065	15	8·4	4·7	077	25	5·9	4·0	294
3·0 ,, . .	29	4·5	1·8	065	22	5·0	2·3	076	16	7·3	5·0	096	15	6·0	3·7	062	10	7·9	5·2	075	22	6·6	3·5	274
3·6 ,, . .	29	5·1	2·4	079	15	4·3	2·3	087	12	6·8	5·4	096	12	5·8	3·6	055	5	3·8	1·4	275	18	6·8	1·4	286
4·5 ,, . .	28	5·9	2·3	106	13	4·0	2·4	104	10	5·4	4·2	105	7	4·8	2·5	058	2	3·0	2·5	058	15	6·8	0·7	076
5·4 ,, . .	26	6·8	2·2	112	8	3·9	2·6	046	6	4·7	3·3	100	2	7·0	7·0	030					13	6·5	1·8	094
6·0 ,, . .	23	7·1	2·5	109	6	4·3	2·5	056	5	3·4	2·4	112	2	8·0	7·9	043					10	6·9	3·2	095
7·2 ,, . .	24	7·4	3·6	119	2	3·7	0·8	292	2	5·3	5·2	086	2	13·3	12·5	041					3	6·8	6·6	091
9·0 ,, . .	26	6·7	4·8	115	2	6·3	6·1	187													3	13·7	13·6	102

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	MINICOY								NAGPUR/SONEGAON															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	3·5	3·1	284	31	3·2	2·9	289	31	1·4	1·2	359	31	2·9	2·5	049	31	2·0	1·9	036	31	0·8	0·6	01
0·15 a. g. . .	28	7·6	7·1	285	30	5·9	5·2	285	31	5·5	5·3	042	31	4·0	3·5	048	31	4·2	4·0	029	31	5·4	4·4	05
0·3 a. m. s. l. . .	28	7·7	6·8	283	30	6·3	5·5	283																
0·6 ,, . .	28	8·3	6·5	285	30	6·4	5·8	283	31	5·7	5·4	048	31	4·2	3·9	058	31	4·4	4·0	032	31	5·7	4·8	06
0·9 ,, . .	28	8·3	7·6	283	29	6·3	5·7	285	31	5·5	4·9	053	31	4·6	4·3	058	31	4·6	4·2	040	31	5·5	4·6	05
1·5 ,, . .	26	7·9	6·7	282	28	5·9	4·7	285	30	5·2	4·3	043	29	4·4	3·5	045	31	3·6	2·9	034	31	5·2	4·0	04
2·1 ,, . .	26	7·9	6·0	287	27	6·2	4·1	288	30	5·1	3·1	013	27	4·9	2·1	360	31	4·7	3·1	011	31	5·0	2·5	00
3·0 ,, . .	14	5·7	2·8	299	22	5·7	2·7	294	30	4·5	1·8	308	25	4·8	2·2	313	31	4·6	2·6	307	30	3·7	1·1	29
3·6 ,, . .	10	6·1	1·7	106	14	4·5	2·0	309	30	4·5	1·7	282	24	4·4	2·8	268	30	4·8	2·9	287	19	4·0	1·8	26
4·5 ,, . .	8	6·0	2·1	029	9	3·9	1·5	013	30	4·2	2·7	270	24	5·2	3·6	255	30	5·6	3·6	262	10	3·9	1·7	25
5·4 ,, . .	6	8·0	4·2	078	4	3·4	2·7	038	30	5·1	3·6	282	23	5·7	4·3	271	29	5·5	4·2	272	2	6·7	6·7	28
6·0 ,, . .	5	7·0	3·4	042	2	2·0	2·0	356	28	4·7	3·1	270	21	5·9	4·8	271	29	5·8	4·3	296	1	5·0	5·0	27
7·2 ,, . .	1	5·0	5·0	060					27	6·3	4·9	280	19	8.8	6.8	267	29	7·1	5·6	280				
9·0 ,, . .									26	7·2	6·0	267	14	8.4	7.5	268	26	9.6	8.3	266				

Station	NEW DELHI/SAFDARJUNG																POONA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	1·5	1·1	309	31	2·5	1·6	308	31	1·4	1·0	330	31	0·8	0·7	310	31	0·1	0·1	360	31	0·6	0·2	12
0·15 a. g. . .	31	4·7	2·8	320	31	3·4	2·3	308	31	4·2	3·2	335	31	6·8	4·5	357	30	3·1	1·9	079	30	3·1	1·2	07
0·3 a. m. s. l. . .	31	4·6	2·8	322	31	3·4	2·3	314	31	4·2	3·2	335	31	5·3	3·5	002								
0·6 ,, . .	31	4·5	3·1	322	31	3·8	2·7	309	31	4·2	3·6	332	31	6·4	4·4	354	30	1·4	0·5	170	30	1·9	0·9	06
0·9 ,, . .	31	4·3	3·3	325	30	4·7	3·5	308	31	4·1	3·7	330	31	6·0	4·5	339	30	5·0	4·5	079	30	3·4	1·5	06
1·5 ,, . .	31	5·4	4·9	321	30	5·9	5·2	320	31	4·8	4·4	315	31	6·2	5·7	314	29	7·3	6·7	084	30	3·8	2·5	07
2·1 ,, . .	31	6·5	5·8	323	30	6·3	5·6	331	31	5·3	4·1	320	31	7·0	6·5	310	27	4·7	3·9	091	27	3·9	3·1	07
3·0 ,, . .	31	7·7	6·9	324	31	6·6	5·7	331	31	5·0	4·1	308	27	7·6	6·4	307	22	3·3	1·1	016	22	4·5	3·3	06
3·6 ,, . .	31	7·0	5·8	322	29	6·7	4·9	325	31	5·7	4·6	318	7	9·0	8·1	312	18	3·7	1·2	325	20	4·7	2·3	04
4·5 ,, . .	31	6·4	4·3	300	29	7·4	5·4	306	31	7·0	6·0	305	1	11·0	11·0	275	14	4·4	2·5	334	15	3·8	0·6	00
5·4 ,, . .	31	8·8	7·1	285	28	9·9	7·1	289	31	9·4	8·7	289					10	3·8	2·1	007	15	4·1	2·9	00
6·0 ,, . .	31	10·3	9·7	276	26	11·4	9·1	280	31	12·8	12·0	280					6	3·3	2·2	016	15	4·6	3·6	36
7·2 ,, . .	30	16·1	14·9	270	11	16·7	15·5	261	31	15·0	14·3	275					5	2·5	2·0	008	14	3·7	2·6	34
9·0 ,, . .	28	26·9	26.1	267	3	30·0	29·7	261	27	26·6	25·8	270					2	5·7	5·1	263	8	4·7	2·4	24

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	POONA				PORT BLAIR																RAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	0·1	0·0	117	31	1·6	1·1	150	31	3·2	1·9	143	31	1·8	0·9	162	31	2·2	0·7	130	31	0·7	0·6	027
0·15 a.g. . . .	30	3·6	1·3	028	31	4·7	3·1	153	30	5·0	3·4	130	31	4·4	1·9	164	30	4·2	2·1	154	29	5·3	5·0	036
0·3 a.m.s.l. . .					31	4·8	3·2	154	30	5·0	3·4	135	31	4·3	1·9	164	30	4·2	2·2	153				
0·6 ,, . .	30	1·5	0·1	100	31	5·3	3·1	151	30	4·8	3·4	145	30	5·0	2·3	163	29	4·3	2·3	143	29	6·0	5·7	048
0·9 ,, . .	30	5·1	2·8	047	30	5·1	3·1	149	24	4·6	2·7	141	30	5·1	2·3	155	28	4·6	2·6	138	28	5·7	5·1	048
1·5 ,, . .	30	6·5	5·5	069	29	5·4	3·3	140	17	4·3	3·0	125	28	5·3	2·8	152	22	4·1	2·2	133	27	4·5	3·1	043
2·1 ,, . .	28	6·1	5·6	077	26	5·9	3·4	129	12	4·2	3·5	125	26	5·6	3·3	143	13	4·0	2·6	122	26	4·3	1·4	354
3·0 ,, . .	24	4·0	2·4	082	26	5·7	3·9	127	9	5·2	3·5	103	26	5·9	3·5	134	12	4·7	3·2	143	22	6·4	3·7	291
3·6 ,, . .	19	4·4	0·7	044	24	5·7	3·8	120	7	5·8	4·4	115	24	6·1	4·0	138	2	6·5	6·5	085	20	5·8	4·0	278
4·5 ,, . .	7	4·1	2·3	268	23	5·9	3·7	112	5	4·6	3·5	105	23	6·7	4·0	117	1	5·0	5·0	065	15	5·9	4·2	259
5·4 ,, . .	4	4·3	1·9	066	24	5·9	3·5	110	5	4·5	3·7	085	20	7·1	4·5	108					10	4·5	3·5	268
6·0 ,, . .	2	5·3	3·3	074	22	6·2	4·4	112	5	6·2	5·8	100	19	7·5	5·3	111					8	3·9	2·7	258
7·2 ,, . .	1	3·5	3·5	145	20	6·2	4·2	113	3	5·5	5·3	080	19	7·3	5·6	103								
9·0 ,, . .	1	5·5	5·5	191	15	6·3	5·5	123	3	5·7	5·6	101	15	6·2	4·7	092								

Station	RAIPUR								RAXAUL								SILIGURI/BAGHDOGRA							
Time in I.S.T.	1730				2330*				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	31	1·4	1·3	043	31	0·8	0·5	071	31	0·2	0·1	032	31	0·4	0·1	267	31	0·7	0·5	007	31	1·3	0·8	236
0·15 a.g. . .	30	3·4	2·8	041	30	4·4	3·2	070	31	2·6	0·7	053	31	3·6	2·3	274	29	2·4	1·8	047	29	3·2	2·4	232
0·3 a.m.s.l. . .									31	2·9	0·3	334	31	3·6	2·3	275	29	2·3	1·6	065	29	3·2	2·2	234
0·6 ,, . .	30	3·6	3·1	038	30	4·6	3·4	066	31	3·3	1·6	292	31	3·3	2·2	269	29	2·8	2·8	061	29	2·8	1·8	238
0·9 ,, . .	30	4·1	3·4	039	30	4·6	3·3	061	31	3·3	1·5	298	31	3·1	2·1	259	29	2·8	1·2	075	29	2·8	1·2	236
1·5 ,, . .	30	4·7	3·3	024	29	4·7	3·0	023	31	3·8	0·3	291	31	3·7	1·3	258	27	3·5	2·0	088	28	2·6	0·6	159
2·1 ,, . .	28	4·7	3·1	353	28	4·1	2·0	012	29	4·2	1·5	102	29	4·7	0·3	137	23	4·7	2·3	086	26	3·3	0·4	249
3·0 ,, . .	26	4·6	3·0	300	27	5·1	2·5	290	29	4·4	1·5	096	28	4·9	1·0	055	13	4·1	0·5	086	21	4·3	1·3	266
3·6 ,, . .	25	5·4	3·8	281	11	5·1	4·4	273	28	4·1	1·3	267	28	4·5	1·5	300	9	4·9	0·9	295	17	5·7	4·5	287
4·5 ,, . .	21	6·4	5·5	272	1	11·0	11·0	270	24	7·0	5·9	259	23	5·9	4·8	275	5	9·4	8·0	275	15	10·2	10·1	275
5·4 ,, . .	18	6·1	4·7	264					20	10·5	9·6	261	16	10·5	10·1	274	3	8·8	5·2	229	11	12·7	12·0	270
6·0 ,, . .	18	6·4	5·0	261					14	13·9	13·2	261	12	13·5	13·0	271	1	1·0	1·0	130	7	11·3	10·4	258
7·2 ,, . .	9	9·8	7·8	275					5	23·6	23·4	261	6	17·2	16·9	259	1	2·0	2·0	085	4	14·4	12·3	245
9·0 ,, . .	4	8·6	7·7	250									2	25·0	25·0	250					2	9·0	9·0	197

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

October 1962 (Asvina 9 —Kartika 9, 1884 Saka)

Station	SILIGURI/BAGH-DOGRA				SRINAGAR								TIRUCHIRAPALLI											
Time in I.S.T.	2330				0530*				1730*				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	0·7	001	31	0·1	0·1	113	31	0·7	0·4	140	31	1·7	1·3	283	31	1·2	0·5	337	31	1·1	0·3	270
0·15 a.g.	29	2·4	0·5	037	30	1·7	0·9	141	31	2·1	0·3	153	29	5·9	4·6	296	30	3·5	1·3	357	26	4·8	0·7	359
0·3 a.m.s.l.	29	2·5	0·1	354									29	6·4	4·8	295	30	3·7	1·4	359	26	5·3	0·9	013
0·6 ,,	29	3·0	0·9	270									29	5·9	3·7	307	30	4·3	1·5	354	26	6·1	1·7	027
0·9 ,,	28	2·9	0·5	315									29	5·4	2·7	327	30	5·0	2·0	359	26	5·6	2·0	030
1·5 ,,	22	2·6	1·4	117									28	5·4	2·6	350	29	5·7	2·9	352	25	5·7	2·7	019
2·1 ,,	11	3·1	1·3	054	30	1·1	0·4	144	31	2·1	1·1	196	26	5·4	2·5	030	29	6·1	2·8	355	22	6·2	2·7	019
3·0 ,,	4	1·7	1·7	106	30	1·5	0·3	292	31	2·4	0·8	175	25	6·0	1·7	027	27	5·6	1·7	037	21	5·9	2·9	064
3·6 ,,	2	3·3	2·2	232	30	2·2	0·4	133	31	3·5	1·3	192	19	4·7	1·3	071	24	5·4	1·9	066	17	5·8	3·7	096
4·5 ,,	1	7·0	7·0	275	29	3·8	0·7	1[illegible]0	30	3·8	0·8	204	15	4·9	1·1	083	20	5·7	2·8	098	12	5·9	4·3	111
5·4 ,,					29	5·5	2·1	255	29	5·2	2·3	245	12	5·1	2·4	107	17	6·1	3·5	093	6	5·3	2·2	125
6·0 ,,					28	6·2	3·6	270	29	6·2	3·7	254	10	6·2	3·4	123	11	5·2	1·9	139	4	6·6	4·5	114
7·2 ,,					29	10·0	7·9	269	29	9·1	7·2	266	5	4·7	4·3	105	6	7·3	4·4	113				
9·0 ,,					26	16·2	14·1	267	29	15·8	14·4	268	1	6·5	6·5	125	5	8·2	7·3	107				

Station	TRIVANDRUM																UDAIPUR							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·7	354	31	1·7	1·2	292	31	2·0	1·6	288	31	1·5	1·0	346	CALM				31	0·2	0·2	072
0·15 a.g.	29	5·4	4·5	340	29	4·3	2·7	289	29	6·3	5·5	296	30	4·7	3·5	330	31	2·1	1·3	333	31	2·9	1·2	052
0·3 a.m.s.l.	29	5·4	4·4	335	29	4·3	2·6	291	29	6·4	5·5	293	30	5·1	3·9	318								
0·6 ,,	29	5·9	4·4	313	28	4·9	3·3	297	29	7·3	6·2	292	28	6·0	4·9	303								
0·9 ,,	29	6·7	5·0	302	22	5·5	3·9	305	29	7·3	6·0	293	27	6·4	5·0	306	31	3·0	1·3	044	31	3·1	1·4	047
1·5 ,,	27	6·7	5·4	298	12	6·7	5·4	295	28	6·8	5·1	303	25	6·8	4·5	308	31	4·4	2·8	050	31	3·1	1·6	040
2·1 ,,	27	6·3	4·5	301	4	5·5	5·2	296	28	6·5	4·1	306	20	6·5	2·7	299	31	5·4	4·3	037	31	3·4	2·5	043
3·0 ,,	27	6·3	3·2	305	2	5·7	5·6	309	27	6·9	3·3	309	18	5·4	1·7	319	31	5·4	3·5	040	31	4·7	2·6	020
3·6 ,,	27	6.4	2·3	300	2	5·7	5·7	390	26	6·8	2·7	304	12	6·2	0·7	034	31	5·8	2·1	008	31	5·4	3·0	300
4·5 ,,	27	6.3	1.3	320	1	9·0	9·0	295	26	6.7	1.6	318	7	4·6	1·1	308	29	6·6	4·6	290	30	7·1	0·6	303
5·4 ,,	25	6·7	1.3	075					25	6.5	1.8	013	3	5·8	2·8	131	29	8·7	7·6	275	30	10·3	9·5	286
6·0 ,,	25	6.0	1.9	097					25	6.4	1.5	073	1	4·0	4·0	255	25	11·2	10·1	279	29	12·4	11·9	279
7·2 ,,	24	6.9	2.9	114					25	7.1	3.6	259					5	10·9	10·2	275	27	17.1	16.2	282
9·0 ,,	22	9.3	8.3	104					22	7.8	5.8	111					2	22·7	22·5	265	10	20.7	20.5	273

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	UDAIPUR				VENGURLA												VERAVAL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface		CALM			31	0·7	0·4	029	31	2·0	1·4	247	31	0·7	0·4	029	31	2·9	2·6	025	31	4·9	2·7	243
0·15 a.g.	31	2·2	0·3	015	31	4·1	2·1	062	31	4·1	2·7	269	31	4·2	2·7	025	31	7·8	6·7	031	31	5·4	2·5	225
0·3 a. m.s.l.					31	5·2	2·5	055	31	4·4	2·2	273	31	5·1	2·5	016	31	7·5	6·3	043	31	4·7	2·0	188
0·6 ,,					31	5·9	3·1	058	31	4·6	1·2	321	31	5·7	2·3	020	31	6·5	5·5	056	31	3·9	1·3	090
0·9 ,,	31	2·9	0·7	073	30	6·7	4·1	070	31	5·0	1·7	044	29	6·3	2·9	036	31	6·3	5·4	063	31	4·1	2·6	054
1·5 ,,	31	3·9	2·3	059	27	6·9	5·5	075	24	6·1	4·6	075	28	6·7	4·8	062	31	5·8	4·5	071	31	6·0	5·4	036
2·1 ,,	31	4·4	3·6	034	21	5·5	4·4	081	21	7·0	6·1	063	26	7·3	6·3	080	31	5·2	2·7	077	31	6·7	4·7	030
3·0 ,,	30	4·6	3·7	033	16	4·6	2·9	092	19	5·1	3·2	068	22	5·4	4·7	090	29	5·7	1·5	068	30	5·7	3·3	037
3·6 ,,	20	4·5	2·7	324	2	3·7	3·7	086	18	4·1	1·9	072	7	5·4	3·8	087	13	5·4	1·1	002	30	4·4	2·3	015
4·5 ,,	5	6·5	5·7	301					16	5·0	2·6	083	1	5·0	5·0	075	4	6·0	4·1	353	29	5·9	4·0	326
5·4 ,,									15	5·1	3·5	065									29	6·2	3·9	319
6·0 ,,									14	5·4	3·9	074									29	7·3	5·4	310
7·2 ,,									10	8·1	6·3	064									24	7·3	6·2	297
9·0 ,,									3	4·5	3·7	064									20	9·3	8·2	275

Station	VERAVAL				VIJAYWADA/GANNAVARAM												VISHAKHAPATNAM							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	1·3	356	31	2·2	2·0	026	31	3·3	1·9	070	31	1·8	1·5	066	30	3·9	3·6	037	25	2·3	1·1	045
0·15 a.g.	31	5·9	4·1	360	26	4·6	3·6	047	28	4·5	3·3	079	28	5·5	4·3	084	30	8·5	7·8	024	21	3·3	2·0	058
0·3 a. m.s.l.	31	6·2	4·0	008	26	5·7	4·3	063	28	5·1	3·9	075	28	6·3	4·9	084	30	8·1	7·4	031	21	3·1	2·3	054
0·6 ,,	31	6·5	4·1	035	26	5·7	4·5	065	28	5·9	4·9	071	28	7·0	5·8	077	30	7·1	5·4	055	21	3·6	2·9	054
0·9 ,,	31	6·8	4·9	057	26	5·7	4·6	059	25	5·5	4·5	054	28	6·3	5·5	070	30	6·2	4·9	071	19	4·3	3·8	056
1·5 ,,	31	7·2	6·0	063	25	5·3	4·2	061	24	6·1	5·0	050	28	6·2	5·1	057	30	5·6	4·0	079	15	4·2	3·6	063
2·1 ,,	31	6·6	5·3	057	25	5·0	3·9	066	24	5·9	4·7	055	27	5·6	4·2	062	30	6·0	4·7	083	10	4·1	2·4	073
3·0 ,,	28	5·4	2·2	073	24	5·2	3·7	065	20	5·6	3·7	062	26	5·4	3·5	072	29	5·5	3·3	092	8	3·3	1·7	097
3·6 ,,	10	4·2	0·5	277	22	5·3	2·9	070	20	5·6	3·6	070	22	5·1	3·3	086	29	5·1	2·4	114	6	3·0	2·1	147
4·5 ,,	5	4·5	0·8	344	19	5·1	3·0	063	19	5·6	2·7	097	21	5·1	2·6	082	28	4.5	2·3	100	4	3·7	3·7	107
5·4 ,,	1	0·5	0.5	205	17	5·5	3·7	071	14	5·4	2·5	084	13	5·0	2·6	076	27	4·4	1·6	096	3	4·2	4·1	092
6·0 ,,	1	4·5	4·5	315	16	5·1	3·1	071	14	5·9	2·9	102	12	5·3	2·1	064	26	4·1	1·6	115	3	5·2	4·8	093
7·2 ,,	1	5·0	5·0	240	11	4·7	2·4	086	11	4·4	4·1	102	4	2·9	1·5	192	25	5·7	3·0	114	2	8·0	8·0	076
9·0 ,,					6	5·9	2·9	170	8	5·7	4·0	094					24	5·7	3·5	138	1	11·0	11·0	060

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Station	VISHAKHAPATNAM							
Time in I.S.T.	1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D
Surface . . .	30	3·9	3·7	044	26	1·4	1·2	031
0·15 a.g. . . .	30	7·9	7·8	039	23	3·5	2·7	063
0·3 a.m.s.l. . .	30	7·5	6·8	042	23	4·3	3·4	071
0·6 ,, . . .	30	6·7	5·9	060	23	5·4	4·5	076
0·9 ,, . . .	30	5·9	5·0	062	18	4·4	3·3	063
1·5 ,, . . .	30	5·2	3·8	065	16	4·4	3·7	059
2·1 ,, . . .	30	4·9	3·0	073	15	4·0	2·9	048
3·0 ,, . . .	29	4·5	1·9	112	13	3·7	2·2	052
3·6 ,, . . .	29	4·8	2·3	128	7	2·4	1·0	004
4·5 ,, . . .	29	5·1	1·9	128	6	1·5	0·6	146
5·4 ,, . . .	29	5·1	1·8	143	4	2·6	2·2	199
6·0 ,, . . .	29	4·6	1·4	143	2	2·5	1·9	249
7·2 ,, . . .	29	4·8	1·4	157				
9·0 ,, . . .	25	4·7	1·8	166				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Ht. in Km.	n	V	v	D
AGARTALA				
0530 hr.				
10·5	1	2·0	2·0	025
1730 hrs.				
10·5	2	25·7	25·7	262
12·0	2	26·5	26·5	267
AHMADABAD				
0530 hr.*				
10·5	23	16·8	16·0	267
12·0	19	20·5	19·6	258
14·1	16	22·1	20·7	251
16·2	12	10·6	9·7	245
18·0	9	5·5	1·7	059
21·0	2	6·5	6·3	092
1130 hr.				
10·5	5	17·4	17·0	258
12·0	5	18·2	17·6	254
14·1	4	14·7	12·3	243
16·2	3	19·5	18·6	231
18·0	1	20.0	20·0	250
1730 hr.*				
10·5	23	17·6	17·0	264
12·0	21	19·6	18·2	260
14·1	18	19·0	17·9	247
16·2	14	9·7	7·2	235
18·0	10	4·7	3·0	120
21·0	2	7·3	7·3	105

Ht. in Km.	n	V	v	D
ALLAHABAD/ BAMHRAULI				
0530 hr.*				
10·5	20	23·3	22·0	260
12·0	9	26.7	25·9	257
14·1	1	17·5	17·5	195
1130 hr.				
10·6	3	26·2	25·3	245
1730 hr.*				
10·5	21	24·2	23·6	266
12·0	5	24·7	24·7	255
14·1	1	15·5	15·5	265
AMBALA				
1130 hr.				
10·5	3	40·8	39·1	261
ANANTAPUR				
0530 hr.				
10·5	5	3·8	2·0	080
12·0	4	6·3	5·6	102
14·1	1	8·0	8·0	090
10·5	1	1·0	1·0	175
ASANSAL				
0530 hr.				
10·5	1	13·5	13·5	255
12·0	1	12·0	12·0	265
14·1	1	8·5	8·5	245
1730 hr.				
10·5	1	15·0	15·0	235
12·0	1	15·0	15·0	225

Ht. in Km.	n	V	v	D
BAHARAICH				
1130 Hr.				
10·5	21	33·9	32·8	259
12·0	16	36·7	36·3	260
14·1	10	37·7	33·7	251
16·2	2	22·3	22·3	214
1730 hr.				
10·5	16	34·0	32·6	263
12·0	7	35·2	34·5	257
14·1	2	35·5	34·4	242
16·2	1	31·0	31·0	250
BANGALORE				
0530 hr.@				
10·5	8	7·0	6·6	118
12·0	6	6·9	6·0	114
14·1	6	10·7	10·0	107
16·2	4	13·4	12·7	110
18·0	4	10·0	8·8	099
21·0	2	15·0	15·0	088
1730 hr.@				
10·5	5	7·1	6·0	106
12·0	4	8·5	8·4	123
14·1	2	12·3	12·0	119
16·2	2	22·5	21·5	103
BAREILLY				
1730 hr.				
10·5	2	41·0	41·0	260
BEGAMPET				
0530 hr.				
10·5	8	3·7	2·5	135

Ht. in Km.	n	V	v	D
12·0	5	5·2	4·7	124
14·1	4	12·4	11·7	141
16·2	2	15·7	15·7	118
18.0	2	11·5	10·7	107
21·0	2	20·5	19·5	102
1730 hr.				
10·5	3	2·7	1·0	179
12·0	2	2·5	2·0	010
14·1	1	6·5	6·5	085
16·2	1	16·0	16·0	100
BHOPAL/BAIRA-GARH				
0530 hr.				
10·5	3	18·0	17·8	267
12·0	1	15·0	15·0	255
BHUJ/ RUDRAMATA				
0530 hr.				
10·5	2	21·7	20·9	269
12·0	2	20·5	20·5	253
14·1	2	16·7	15·9	246
BOMBAY/ SANTA CRUZ				
0530 hr.*				
10·5	19	5·7	3·2	215
12·0	17	8·4	6·6	218
14·1	11	12·6	11·4	196
16·2	3	13·5	12·6	125
1130 hr.				
10·5	11	6·2	4·9	228
12·0	8	8·0	6·8	230
14·1	7	9·9	8·1	208

Ht. in Km.	n	V	v	D
16.2	5	7·8	5·8	165
18·0	4	8.6	7·9	112
1730 hr.*				
10·5	24	6·6	3·6	225
12·0	21	6·9	4·6	190
14·1	17	10·1	4·4	195
16·2	6	9·7	7·3	136
18·0	4	18·4	10·2	151
CALCUTTA/ DUMDUM				
0530 hr.*				
10·5	24	13·7	10·8	250
12·0	24	14·8	13·0	245
14·1	15	13·9	8·3	247
16·2	4	17·7	12·6	214
1130 hr.				
10·5	1	11·5	11·5	245
12·0	1	13·0	13·0	240
1730 hr.*				
10·5	29	13·3	10·6	247
12·0	28	14·0	10·5	240
14·1	15	15·5	13·6	248
16·2	6	12·9	12·2	247
18·0	1	8·0	8·0	215
2330 hr.				
10·5	2	6·0	4·5	260
12·0	2	6·5	5.7	183
DIBRUGARH/ MOHANBARI				
1130 hr.				
10·5	3	29·5	29·3	257
1730 hr.				
10·5	1	40·0	40·0	270

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Ht. in Km.	n	V	v	D
		GADAG		
		0530 hr.		
10·5	8	4·6	4·4	127
12·0	7	9·0	8·0	124
14·1	2	12·3	12·0	133
16·2	2	12·0	11·8	110
18·0	2	14·0	14·0	109
		1730 hr.		
10·5	2	3·0	2·7	153
12·0	2	8·3	8·1	128
14·1	1	8·5	8·5	130
16·0	1	9·5	9·5	060
18·0	1	8·5	8·5	075
		GAUHATI		
		0530 hr.*		
10·5	19	26·5	25·4	260
12·0	13	27·0	26·1	261
14·1	5	28·6	27·2	266
16·2	1	7·0	7·0	185
		1130 hr.		
10·5	3	16·8	14·6	245
12·0	2	13·3	12·7	207
		1730 hr.*		
10·5	18	24·0	23·4	265
12·0	11	26·8	25·9	268
14·1	3	22·5	20·5	260
		GAYA		
		1730 hr.		
10·5	3	13·5	13·4	245
12·0	2	14·0	13·9	250
14·1	1	12·0	12·0	260
16·2	1	2·5	2·5	270

Ht. in Km.	n	V	v	D
		GOPALPUR		
		1730 hr.		
10·5	1	1·0	1·0	090
12·0	1	8·5	8·5	290
		GORAKHPUR		
		0530 hr.		
10·5	1	8·0	8·0	230
		1730 hr.		
10·5	5	27·9	27·3	260
12·0	2	24·3	22·8	258
		GWALIOR		
		0530 hr.		
10·5	17	24·4	23·9	247
12·0	7	19·5	18·9	230
14·1	3	19·3	19·0	213
16·2	1	18·0	18·0	215
18·0	1	6·0	6·0	185
		1130 hr.		
10·5	9	23·5	22·5	258
12·0	1	18·0	18·0	250
14·1	1	17·5	17·5	230
		1730 hr.		
10·5	7	29·9	29·6	254
		JABALPUR		
		0530 hr		
10·5	1	3·0	3·0	200
		1730 hr.		
10·5	8	13·9	12·2	255
12·0	4	14·5	12·4	233
14·1	1	11·0	11·0	235

Ht. in Km.	n	V	v	D
		JAGDALPUR		
		0530 hr.		
10.5	2	5·0	4·2	144
12·0	2	9·7	3·7	167
14·1	1	7·0	7·0	125
		1730 hr.		
10·5	1	2·0	2·0	150
		JAIPUR/SANGANER		
		1730 hr.		
10·5	1	23·0	23·0	250
		JAMSHEDPUR		
		0530 hr.		
10·5	1	19·0	19·0	280
		JODHPUR		
		0530 hr.*		
10·5	17	28·5	27·6	264
12·0	13	30·5	30·0	267
14·1	5	31·6	30·7	264
16·2	3	20·5	20·5	250
18·0	1	11·5	11·5	250
		1130 hr.		
10·5	3	24·8	23·7	250
12·0	2	28·5	28·1	256
14·1	2	28·0	27·4	247
16·2	2	30·3	29·3	240
18·0	2	25·7	24·7	235
21·0	2	20·5	20·5	230
		1730 hr.*		
10·5	11	34·2	34·3	265
12·0	4	37·4	37·0	260
14·1	3	36·8	35·8	263
16·2	1	37·0	37·0	280

Ht. in Km.	n	V	v	D
		LUCKNOW/AMAUSI		
		1730 hr.		
10·5	9	23·4	19·0	258
12·0	6	20·0	12·2	248
		MADRAS/MINAM-BAKKAM		
		0530 hr.*		
10·5	23	8·4	6·8	095
12·0	19	9·4	8·2	093
14·1	11	15·6	14·7	093
16·2	3	17·7	17·0	102
18·0	2	5·3	3·6	056
21·0	1	19·5	19·5	085
		1130 hr.		
10·5	1	7·5	7·5	090
		1730 hr.*		
10·5	20	6·9	6·0	112
12·0	16	10·0	9·4	104
14·1	10	15·2	14·9	098
16·2	3	13·2	12·5	100
18·0	2	11·8	11·8	085
21·0	1	23·0	23·0	085
		2330 hr.		
10·5	1	10·0	10·0	180
12·0	1	6·5	6·5	180
		NAGPUR/SONEGAON		
		0530 hr.*		
10·5	25	9·5	8·1	243
12·0	21	11·2	9·6	240
14·1	18	12·1	9·8	221
16·2	14	8.0	5·2	196
18·0	11	7·4	4·0	140
21·0	2	13·5	13·2	093

Ht. in Km.	n	V	v	D
		1130 hr.		
10·5	9	9·8	8·5	265
12·0	6	12·5	11·5	252
14·1	3	14·3	13·1	239
16·2	3	7·8	6·5	225
18·0	1	8·0	8·0	030
		1730 hr.*		
10·5	26	9·5	8·6	252
12·0	25	11·2	9·8	235
14·1	23	10·5	8·7	209
16·2	21	7·9	4·5	190
18·0	15	8·0	5·7	12[illegible]
21·0	3	8·3	7·9	104
24·0	1	7·5	7·5	09[illegible]
		NEW DELHI/SAF-DARJUNG		
		0530 hr.*		
10·5	26	34·9	33·5	26[illegible]
12·0	24	35·1	35·0	26[illegible]
14·1	16	28·5	26·6	25[illegible]
16·2	11	23·9	21·8	24[illegible]
18·0	9	12·2	6·4	24[illegible]
21·0	2	6·0	3·5	22[illegible]
24·0	1	17·5	17·5	07[illegible]
		1130 hr.		
10·5	3	38·7	37·5	26[illegible]
12·0	3	43·5	43·0	25
14·1	3	52·8	51·9	25
16·2	2	54·5	54·5	25

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9 km. above mean sea level

October 1962 (Asvina 9—Kartika 9, 1884 Saka)

Ht. in Km.	n	V	v	D
		NEW DELHI/ SAFDARJUNG		
		1730 hr.*		
10·5	23	31·2	30·4	269
12·0	22	31·4	30·0	265
14·1	20	30·2	28·7	258
16·2	17	21·6	19·9	253
18·0	12	16·5	10·8	265
21·0	6	14·7	6·1	256
24·0	4	12·0	3·9	085
27·0	1	8·5	8·5	085
		POONA		
		0530 hr.		
10·5	2	7·3	7·1	248
12·0	1	2·0	2·0	165
		1730 hr.		
10·5	6	5·6	5·2	220
12·0	6	6·4	5·2	192
14·1	4	11·6	9·7	167
16·2	3	8·7	5·9	087
18·0	1	4·5	4·5	095
		PORT BLAIR		
		0530 hr.*		
10·5	13	9·0	8·6	112
12·0	10	10·8	9·9	102
14·1	6	14·0	13·3	115
16·2	1	22·5	22·5	105

Ht. in m.	n	V	v	D
		1130 hr.		
10·5	2	5·5	3·5	072
		1730 hr.*		
10·5	13	8·2	7·6	101
12·0	8	9·5	8·7	116
		RAIPUR		
		1730 hr.		
10·5	2	12·7	12·1	240
12·0	1	14·5	14·5	235
		RAXAUL		
		1730 hr.		
10·5	1	27·0	27·0	265
		SRINAGAR		
		0530 hr.*		
10·5	25	23·8	22·5	267
12·0	17	28·9	28·8	267
14·1	7	34·7	32·9	266
		1730 hr.*		
10·5	27	24·2	22·9	265
12·0	26	31·7	30·2	263
14·1	14	34·7	33·9	262
16·2	6	28·3	27·9	260
18·0	4	17·1	17·0	263
21·0	1	12·5	12·5	270
		TIRUCHCHIRA-PPALLI		
		1730 hr.		
10·5	4	9·5	9·0	104
12·0	3	12·7	5·9	159
14·1	2	19·3	19·0	096
16·2	1	25·5	25·5	100

Ht. in Km.	n	V	v	D
18·0	1	10·0	10·0	095
		TRIVANDRUM		
		0530*		
10·5	22	11·9	11·3	100
12·0	22	15·9	15·2	093
14·1	18	25·0	24·4	098
16·2	16	13·3	11·7	103
18·0	8	6·3	2·6	123
21·0	4	15·6	14·3	084
		1730 hr.*		
10·5	19	10·8	9·3	092
12·0	18	13·0	12·0	098
14·1	12	26·2	24·7	095
16·2	10	14·1	13·6	092
18·0	4	10·9	9·5	141
21·0	1	10·5	10·5	095
		UDAIPUR		
		1730 hr.		
10·5	1	16·5	16·5	280
12·0	1	23·0	23·0	250
		VERAVAL		
		0530 hr.		
10·5	15	10·3	10·0	265
12·0	9	11·8	10·4	250
14·1	6	10·6	9·4	234
16·2	3	6·0	5·1	205
18·0	1	10·0	10·0	140

Ht. in Km.	n	V	v	D
		VIJAYWADA/GANNA-VARAM		
		0530 hr.		
10·5	2	2·3	2·1	177
12·0	2	4·5	3·7	164
14·1	1	11·5	11·5	110
16·2	1	14·5	14·5	105
		1730 hr.		
10·5	6	4·1	2·7	108
12·0	3	5·3	4·5	105
14·1	1	12·0	12·0	110
		VISHAKHAPATNAM		
		0530 hr.*		
10·5	24	6·0	4·2	138
12·0	21	7·1	4·7	155
14·1	20	8·9	7·0	136
16·2	16	11·1	9·9	124
18·0	13	7·9	7·4	105
21·0	5	9·4	7·8	101
24·0	1	23·0	23·0	085
		1130 hrs.		
10·5	1	5·0	5·0	065
12·0	1	3·5	3·5	060
14·1	1	5·5	5·5	205
16·2	1	15·5	15·5	135
		1730 hrs.*		
10·5	22	4·5	2·9	134
12·0	21	5·8	4·0	140
14·1	20	8·4	7·5	13
16·2	16	11·5	10·7	127

Ht. in Km.	n	V	v	D
18·0	10	9·9	8·9	104
21·0	6	10·0	9·8	099
24·0	2	16·5	16·4	081

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 14 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

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

RADIOSONDE DATA

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

October, 1962 (Asvina 9—Kartika 9, 1884 Saka)

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

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1004 mb.)						ALLAHABAD/BAMHRAULI (999 mb.)						BANGALORE (908 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	27	055	292·0	297	288	287·7	31	098	292·4	298	289	298·8	31	921	292·6	294	291	292·2
1000	27	093	..	..	..	..	29	088	..	..	..	..	31	092	..	..	..	..
900	27	1016	295·9	299	293	280·0	29	1011	294·0	297	293	281·9	31	1001	292·6	294	291	291·7
850	27	1510	292·1	295	289	278·4	29	1503	293·6	295	287	278·9	31	1493	291·1	293	289	288·3
800	27	2007	287·8	291	286	275·7	29	2007	286·5	293	284	274·6	31	2012	288·5	291	285	285·3
700	27	3141	280·9	285	277	266·7	29	3132	281·9	285	278	262·8	31	3135	282·2	285	279	279·0
600	27	4402	276·0	281	269	258·2	29	4397	275·7	279	272	256·4	31	4407	275·8	279	272	272·1
500	27	5856	268·7	272	264	..	29	5847	267·9	274	265	..	30	5860	268·2	271	265	..
400	26	7573	256·6	263	251	..	28	7569	257·9	262	253	..	29	7581	257·1	262	254	..
300	24	9668	240·5	248	234	..	23	9676	244·3	248	241	..	29	9684	241·9	247	237	..
250	23	10937	231·1	241	224	..	22	10961	235·7	240	229	..	29	10949	231·5	238	227	..
200	18	12425	220·5	232	215	..	19	12463	224·5	230	217	..	27	12425	219·7	225	216	..
175	17	13261	213·4	219	207	..	15	13338	218·2	223	215	..	27	13264	212·8	216	209	..
150	17	14213	206·2	212	200	..	13	14306	211·8	216	206	..	27	14213	205·3	212	201	..
125	16	15317	199·2	206	193	..	10	15423	203·5	209	194	..	27	15281	198·8	206	195	..
100	16	16605	196·9	201	190	..	9	16745	199·1	203	193	..	26	16542	195·7	204	192	..
80	14	17913	201·4	217	192	..	8	18075	204·3	218	196	..	26	17880	199·7	208	193	..
70	10	18657	205·1	210	196	..	6	18926	207·8	223	193	..	24	18699	203·5	212	195	.
60	7	19609	209·7	215	206	..	..	..	..	..	..	..	19	19628	204·2	213	199	..
50	6	20725	213·0	217	208	..	..	..	..	..	..	..	18	20694	209·4	213	203	..
40	..	..	..	..	..	..	..	..	..	..	..	..	11	22122	213·5	219	207	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTA CRUZ (1007 mb.)						CALCUTTA/DUM DUM (1009 mb.)						GAUHATI (1005 mb.)					
Surface	31	013	296·5	299	293	292·5	31	006	296·0	300	293	295·0	31	049	296·2	299	294	294·9
1000	31	075	..	..	..	..	29	081	..	..	..	..	31	096	..	.	..	..
900	31	1001	296·1	300	293	284·4	29	1001	291·0	294	286	287·8	31	1012	292·9	296	290	288·3
850	31	1497	292·4	297	289	270·6	29	1488	287·8	293	282	284·7	31	1503	289·9	294	287	283·9
800	31	2015	288·3	293	284	278·5	29	2005	285·7	291	282	281·2	31	2019	286·7	290	283	280·0
700	31	3132	281·6	285	278	269·7	29	3113	280·3	285	278	273·7	31	3131	280·2	285	276	272·2
600	31	4396	276·3	280	273	258·5	28	4366	273·6	278	271	264·3	31	4385	273·8	280	270	262·6
500	31	5855	268·4	274	265	253·0	27	5813	266·0	270	262	..	31	5829	265·6	271	261	..
400	31	7579	257·9	263	253	..	26	7520	256·5	262	253	..	31	7540	256·6	261	253	..
300	25	9686	243·8	246	235	..	24	9620	242 2	249	238	..	22	9649	244·0	249	240	..
250	21	10957	233·2	237	225	..	24	10896	234·0	239	229	..	20	10886	235·2	239	231	..
200	19	12448	220·1	226	214	..	24	12381	221·4	227	216	..	17	12437	224·5	231	221	..
175	14	13328	215·3	219	209	..	21	13434	215·3	221	210	..	13	13305	218·2	225	212	..
150	13	14278	208·5	212	202	..	13	14183	207·0	212	202	..	8	14286	211·5	219	207	..
125	8	15377	200·1	205	190	..	8	15170	200·0	205	196	..	..	..	..	..	..	..
100	..	..	..	..	..	..	7	16529	194·0	197	189	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

October, 1962 (Asvina 9—Kartika 9, 1884 Saka)

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

Standard Pressure Surface mbs.	JODHPUR Surf. Pr. (986 mb.)						MADRAS/MINAMBAKKAM (1006 mb.)						NAGPUR/SONEGAON (975 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	292·8	296	290	281·5	31	015	298·3	301	296	297·3	31	311	292·3	297	287	289·0
1000	31	096	..	..	..	..	29	068	..	..	..	..	31	094	..	..	..	..
900	31	1010	296·8	300	293	278·1	29	986	294·2	296	291	291·4	31	1009	294·3	297	291	282·8
850	31	1504	293·2	297	290	274·5	29	1481	291.0	293	288	288·7	31	1502	290·7	293	289	280·5
800	31	2021	288·9	294	285	272·2	29	1999	288·1	291	284	285·9	31	2018	287·3	290	283	278·3
700	31	3136	281·1	288	276	261·8	29	3118	282·1	287	279	279·4	31	3137	281·6	285	277	270·4
600	31	4391	274·7	282	269	254·2	27	4378	275·4	282	272	273·2	31	4401	275·3	280	269	260·7
500	30	5837	266·7	273	263	..	27	5830	266·9	271	263	..	31	5855	267·7	273	262	..
400	29	7544	255·9	260	250	..	26	7548	257·6	[illegible]54	252	..	29	7576	256·0	259	248	..
300	19	9647	242·6	248	238	..	25	9663	243·7	249	238	..	28	9651	242·1	245	238	..
250	19	10923	234·5	240	227	..	22	10930	233·5	243	227	..	27	10956	231·9	237	226	..
200	17	12417	223·4	227	218	..	21	12408	221·6	230	216	..	25	12444	220·7	226	215	..
175	14	13279	216·9	221	213	..	19	13252	215·5	227	209	..	24	13278	214·6	219	209	..
150	11	14255	210·8	215	206	..	15	14188	206·1	215	201	..	24	14246	207·8	216	203	..
125	9	15378	205·9	211	200	..	15	15257	198·6	205	192	..	20	15304	201·3	206	198	..
100	7	16718	202·4	207	197	..	9	16549	195·4	199	189	..	19	16591	196·2	201	190	..
80	6	18016	204·3	210	197	..	6	17773	198·3	203	194	..	16	17926	198·3	205	189	..
70	..	..	..	..	..	..	5	18570	202·2	207	200	..	12	18740	200·8	206	195	..
60	..	..	..	..	..	..	..	..	..	..	..	..	8	19655	202·6	207	199	..
50	..	..	..	..	..	..	..	..	..	..	..	..	5	20679	204·4	206	201	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (987 mb.)						PORT BLAIR (1000 mb.)						SRINAGAR (843 mb.)					
Surface	31	209	291·2	295	289	285·8	30	079	298·0	300	296	296·9	31	1588	278·8	284	276	278·5
1000	31	095		..	..	..	30	083	..	..	..	..	31	183	..	..	..	..
900	31	1011	295·8	299	293	278·5	30	1003	293·3	296	291	293·3	31	1063	..	..	..	..
850	31	1505	292·1	296	289	274·2	30	1497	290·6	295	286	290·6	31	1533	..	..	..	..
800	31	2023	288·2	292	285	270·8	30	2013	287·9	292	285	285·7	31	2032	280·7	284	276	276·0
700	31	3138	280·9	286	276	260·3	30	3135	282·9	287	279	279·5	31	3125	275·6	281	269	261·1
600	31	4391	273·1	279	268	250·2	29	4402	275·6	283	269	272·2	31	4355	267·6	273	264	..
500	31	5826	264·2	270	258	..	29	5859	267·6	271	263	264·1	30	5759	257·9	265	253	..
400	31	7520	253·8	258	249	..	28	7572	256·6	262	251	..	30	7409	246·5	252	243	..
300	30	9615	242·2	245	239	..	28	9672	240·9	246	232	..	26	9431	233·0	239	228	..
250	30	10889	234·2	238	230	..	25	10919	229·9	239	222	..	25	10660	226·3	231	221	..
200	29	12193	223·8	229	219	..	25	12385	219·4	229	210	..	21	12111	221·4	227	212	..
175	29	13257	217·8	224	213	..	19	13222	212·2	220	205	..	17	12971	217·5	223	215	..
150	29	14226	211·4	216	204	..	17	14264	206·3	212	198	..	13	13941	214·0	221	209	..
125	24	15341	206·2	214	199	..	13	15382	200·5	207	190	..	9	15047	209·0	213	204	..
100	19	16685	203·1	210	194	..	5	16692	198·8	202	192	..	6	16403	208·0	211	205	..
80	12	17992	203·6	208	195	..	..	..	..	..	..	..	..	..	..	..	..	..
70	6	18739	204·3	209	199	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

[October, 1962 (Asvin 9—Kartika 9, 1884 Saka)

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

Standard Pressure Surface mbs.	TRIVANDRUM Surf. Pr. (1001 mb.)						VISHAKHAPATNAM (1004 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	297·2	298	296	295·5	31	004	298·7	301	297	295·8
1000	81	074	..	..	..	..	31	075	..	..	..	..
900	31	994	292·6	295	289	289·8	31	1000	293·9	297	291	290·5
850	31	1487	289·7	293	287	287·1	31	1495	291·3	295	289	287·3
800	31	2002	287·1	290	283	284·3	31	2013	288·9	291	287	284·6
700	31	3120	281·1	285	275	277·7	31	3139	283·0	287	280	278·1
600	31	4380	274·6	279	270	270·8	31	4407	275·5	280	273	271·0
500	30	5829	267·1	273	263	..	30	5867	268·3	275	265	273·0
400	30	7544	256·1	263	248	..	29	7586	257·7	264	251	..
300	27	9640	241·3	249	233	..	27	9701	243.3	254	238	..
250	26	10896	230·0	235	222	..	27	10975	232.7	245	222	..
200	26	12363	217·9	226	212	..	24	12424	220.7	232	216	..
175	25	13200	211·4	218	205	..	23	13306	214·2	222	209	..
150	25	14154	204·1	210	197	..	23	14268	207·0	212	202	..
125	23	15230	198·5	207	191	..	18	15329	201·0	208	195	..
100	21	16534	196·5	203	188	..	18	16656	196·9	203	191	..
80	16	17852	201·5	209	191	..	15	18033	201·0	209	189	..
70	14	18647	203·4	209	193	..	14	18774	203·9	211	193	..
60	9	19543	206·9	217	196	..	10	19701	207·7	217	203	..
50	8	20661	209·9	216	201	..	8	20811	212·5	223	207	..
40	6	22019	212.7	217	205	..						
30												
20												
10												

RADIOSONDE DATA

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

October, 1962 (Asvin 9—Kartika 9, 1884 Saka)

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

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1003 mb.)						ALLAHABAD/BAMHRAULI (998 mb.)						BANGALORE (907 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	306.2	308	301	290·8	31	098	302.3	305	298	290.6	31	921	297.1	301	293	292.7
1000	30	081	..	..	..	..	30	079	..	..	..	..	31	058	..	..	..	..
900	30	1117	297.3	301	295	283.4	30	1008	295.7	298	293	282·0	31	983	296.5	301	293	292.2
850	30	1513	292.8	296	289	280.9	30	1502	291.6	294	289	279.0	31	1481	293.1	297	290	289.4
800	30	2032	288.3	291	285	277.5	30	2009	288.0	294	284	275.9	31	2003	289.5	293	286	286.6
700	30	3150	282.3	285	277	268.3	30	3138	282.8	287	277	259.2	31	3129	283.0	287	279	279.5
600	30	4412	276.6	281	271	261.5	29	4401	276.4	281	273	255.7	31	4398	276.1	278	273	273.3
500	28	5869	269.5	274	265	..	28	5857	268.5	273	265	..	31	5858	268.3	272	265	..
400	28	7586	257.7	262	254	..	28	7577	258.1	262	254	..	28	7579	257.8	261	254	..
300	27	9705	245.2	247	237	..	27	9705	245.3	251	241	..	26	9691	242.5	246	238	..
250	26	10972	231.4	237	226	..	26	10993	236.8	243	229	..	25	10959	232.0	236	228	..
200	25	12449	219.4	226	214	..	23	12508	225.4	232	216	..	22	12445	220.0	224	216	..
175	22	13299	212.8	218	205	..	21	13373	218.9	228	208	..	21	13275	212.2	217	205	..
150	22	14245	205.6	216	196	..	17	14334	212.5	223	206	..	20	14232	203.9	210	194	..
125	21	15334	199.7	205	191	..	12	15477	206.4	217	201	..	18	15296	197.7	204	188	..
100	20	16634	197·5	205	193	..	12	16822	202.9	211	197	..	16	16589	194.3	200	187	..
80	17	17881	201·6	210	195	..	5	18225	203.4	211	196	..	14	17889	197.0	203	192	..
70	15	18769	205·5	214	199	..	..	..	..	..	..	..	14	18680	201.6	208	197	..
60	9	19735	209·1	219	203	..	..	..	..	..	..	..	13	19578	205.1	211	201	..
50	..	..	..	..	..	..	..	..	..	..	..	..	9	20695	208.8	214	205	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22077	211·4	215	206	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ (1006 mb.)						CALCUTTA/DUM DUM (1008 mb.)						GAUHATI (1002 mb.)					
Surface	31	013	304.1	307	301	294.3	31	006	300.7	304	295	295.0	31	049	300.3	304	295	296.2
1000	31	063	..	..	..	..	30	073	..	..	..	..	31	072	..	..	..	..
900	31	998	297.6	300	294	286.2	30	997	294.0	297	288	286.9	31	946	294.3	296	290	289.2
850	31	1495	294·1	297	291	282·1	30	1490	291.0	296	286	283.1	31	1491	291.1	295	287	286.0
800	31	2017	290.0	294	286	278.6	30	2007	288.0	292	285	278.3	31	2008	287.8	292	284	281.9
700	31	3142	283.6	289	279	270.3	30	3130	282.9	286	278	270.3	31	3125	281.5	285	278	268.7
600	31	4411	277.5	282	273	261.1	30	4397	276.7	280	272	264.0	31	4387	274.8	279	270	259.1
500	30	5879	270.1	274	266	249.0	29	5859	269.1	273	263	..	31	5834	267.3	272	262	260.0
400	30	7614	259.5	265	255	..	29	7587	258.9	263	253	..	30	7552	257.7	264	252	..
300	26	9733	244.6	247	240	..	26	9717	245.4	249	241	..	23	9655	242.8	248	231	..
250	24	11019	235.3	239	230	..	26	11009	235.8	241	231	..	17	10929	234.5	239	229	..
200	23	12526	223.4	229	218	..	24	12509	223.9	230	216	..	17	12431	222.5	228	212	..
175	19	13387	216.5	223	211	..	19	13344	215.7	223	209	..	13	13273	215.3	218	210	..
150	18	14350	209.1	213	200	..	16	14288	207.9	213	200	..	6	14244	211·7	221	209	..
125	16	15439	202.0	206	196	..	14	15373	200.6	207	193	..	..	..	..	..	..	..
100	12	16716	196.5	203	190	..	10	16718	196.2	202	189	..	..	..	..	..	..	..
80	6	18054	201.3	207	192	..	5	17970	194.6	202	187	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

October, 1962 (Asvin 9—Kartika 9, 1884 Saka)

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

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (984 mb.)						MADRAS/MINAMBAKKAM (1001 mb.)						NAGPUR/SONEGAON (974 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature°A				No. of Obs.	Ht. gpm.	Temperature°A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	27	218	306.3	309	301	282.1	31	015	301.0	303	297	297.7	31	311	301.7	305	297	288.1
1000	27	081	..	..	..	..	28	059	..	..	..	..	29	072	..	..	..	..
900	26	1010	299.1	302	296	276.0	28	980	294.7	298	292	291.5	29	1003	296.5	299	293	284.2
850	26	1514	294.3	297	292	271.9	28	1478	291.9	294	289	288.4	29	1499	292.3	295	290	282.0
800	26	2005	289.7	298	287	271.3	28	1997	289.1	292	287	284.9	29	2018	288.3	291	286	279.0
700	25	3150	280.7	287	276	263.6	28	3121	283.3	286	279	278.1	29	3141	282.9	287	277	270.1
600	24	4403	274.0	280	269	260.5	27	4387	276.0	279	273	271.8	29	4408	276.3	281	272	262.0
500	24	5844	266.3	271	263	253.0	26	5842	267.7	271	262	..	28	5868	268.6	271	263	..
400	21	7551	256.5	261	250	..	26	7582	257.6	263	250	..	27	7591	257.6	262	252	..
300	14	9648	243.5	247	239	..	26	9671	242.3	249	235	..	27	9703	242.6	247	234	..
250	8	11049	236.5	241	234	..	20	10937	231.7	238	227	..	27	10974	233.0	238	223	..
200	6	12413	224.0	228	220	..	19	12413	219.8	228	214	..	26	12458	220.0	225	212	..
175	6	13382	218.0	221	216	..	16	13242	214.1	221	208	..	25	13295	213.6	219	206	..
150	5	14251	213.4	217	212	..	13	14205	206.5	214	201	..	24	14265	206.7	212	198	..
125	5	15387	208.8	212	205	..	11	15284	200.6	204	198	..	24	15329	200.1	208	192	..
100	..	..	..	..	..	..	8	16590	194.3	199	192	..	22	16643	195.9	202	189	..
80	..	..	..	..	..	..	8	17877	196.1	202	188	..	18	17963	198.6	204	193	..
70	..	..	..	..	..	..	6	18635	202.5	208	196	..	14	18738	201.0	206	193	..
60	..	..	..	..	..	..	6	19524	203.0	208	195	..	12	19629	205.0	212	197	..
50	..	..	..	..	..	..	..	..	..	..	..	..	8	20742	208.0	215	201	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARUNG (986 mb.)						PORT BLAIR (999 mb.)						SRINAGAR (842 mb.)					
Surface	31	209	301.5	304	295	288.4	31	079	299.8	303	298	297.3	31	1588	291.2	297	283	286.6
1000	31	082	..	..	..	..	31	073	..	..	..	..	31	095	..	..	..	..
900	31	1012	296.6	301	294	278.7	31	995	293.6	297	291	292.2	31	1015	..	..	..	..
850	31	1508	294.6	297	290	275.8	31	1489	291.0	293	287	289.2	31	1506	..	..	..	..
800	31	2025	288.6	293	286	271.3	31	2007	288.7	291	284	285.8	31	2024	288.0	292	279	280.6
700	31	3142	281.0	286	277	257.1	31	3130	282.8	287	278	279.9	31	3140	280.0	284	273	272.1
600	31	4395	273.2	279	270	248.3	30	4398	276.0	281	271	273.4	29	4387	270.3	275	263	..
500	31	5832	264.6	271	259	..	29	5857	268.3	274	263	..	29	5804	259.8	266	254	..
400	31	7528	253.7	262	246	..	29	7576	256.5	262	251	..	29	7469	247.9	254	242	..
300	24	9614	241.9	247	238	..	28	9685	242.0	248	237	..	28	9505	234.4	244	227	..
250	24	10893	234.9	239	231	..	28	10950	231.3	238	224	..	27	10749	228.3	236	221	..
200	23	12396	224.8	230	220	..	22	12424	219.2	225	212	..	25	12222	223.2	227	217	..
175	21	13264	219.0	225	214	..	20	13284	213.6	219	207	..	22	13093	220.2	225	213	..
150	19	14239	213.1	221	206	..	12	14235	206.8	213	200	..	19	14075	216.5	220	210	..
125	18	15375	207.4	217	200	..	8	15350	200.7	205	194	..	17	15219	213.9	218	208	..
100	13	16725	204.3	214	196	..	..	..	..	..	..	..	10	16594	211.7	216	204	..
80	9	18033	205.9	210	203	..	..	..	..	..	..	..	8	17952	211.0	215	203	..
70	9	18842	208.4	213	205	..	..	..	..	..	..	..	8	18740	211.9	215	202	..
60	8	19797	211.2	213	209	..	..	..	..	..	..	..	..	..	..	..	..	..
50	8	20965	214.8	217	211	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI – Mean Dynamic height, Temperature and Dew Point at Standard Pressure Surfaces

October, 1962 (Asvin 9—Kartika 9, 1884 Saka)

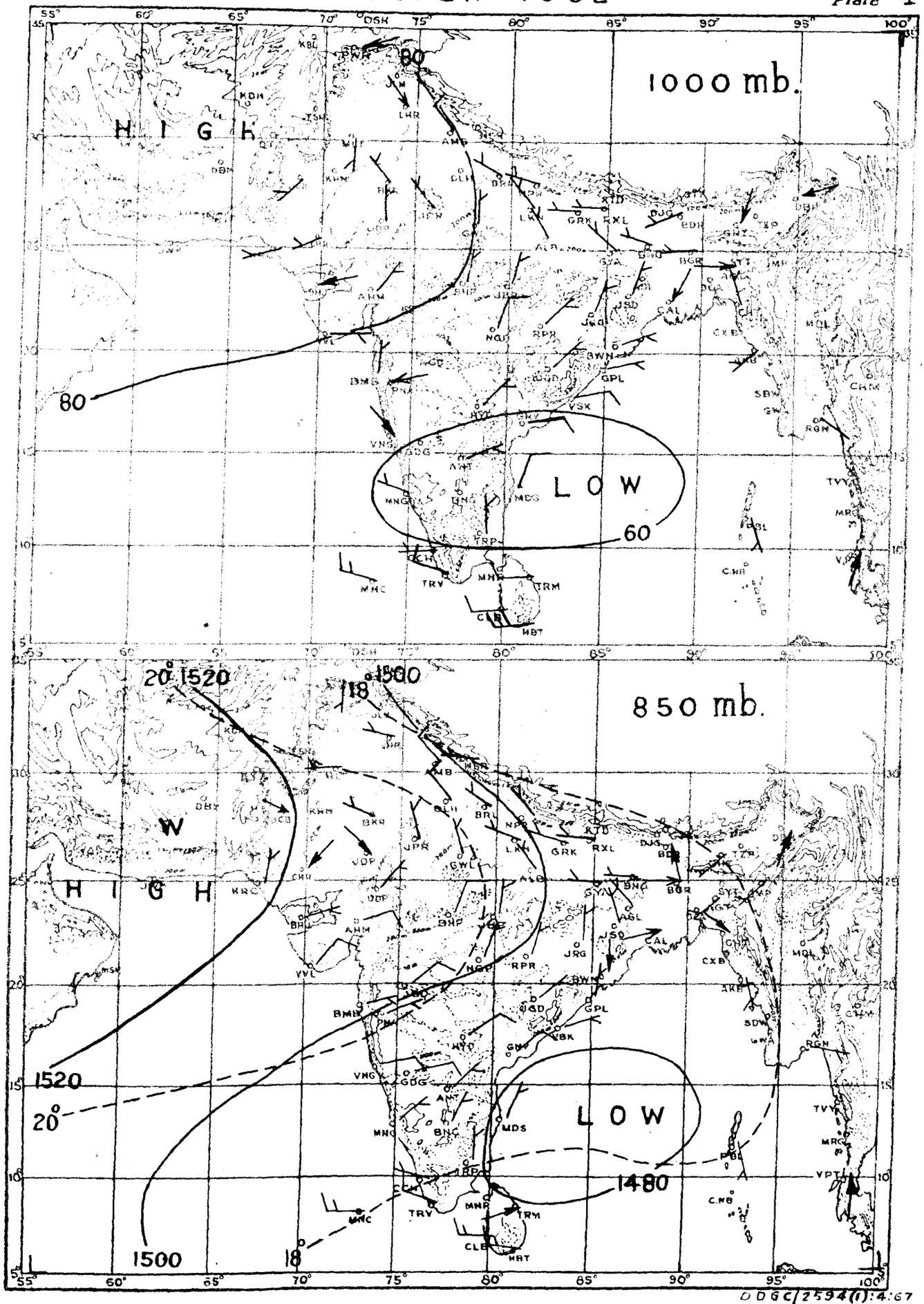
(B) From Ascents at 12 Hours G. M. T.

Standard Pressure Surface mbs.	TRIVANDRUM Surf. Pr. (1002 mb.)						VISHAKHAPATNAM (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	299.7	306	297	296.5	31	004	300.8	304	297	296.6
1000	31	064	..	..	..	..	31	068	..	..	..	..
900	31	988	294.0	297	292	290.2	31	995	294.5	299	291	289.8
850	31	1482	291.5	295	287	287.2	31	1489	291.5	296	289	286.7
800	31	2001	288.6	292	285	284.5	31	2008	288.6	292	286	284.3
700	31	3125	283.4	288	278	277.3	31	3133	282.9	287	279	277.5
600	31	4400	277.0	281	271	271.6	31	4401	276.2	279	272	270.6
500	31	5857	269.2	273	266	268.7	31	5861	268.3	273	264	..
400	31	7578	258.5	264	253	..	30	7585	258.1	265	252	..
300	27	9700	243.7	257	239	..	27	9710	243.5	251	235	..
250	23	10971	233.2	239	228	..	24	10983	234.0	242	228	..
200	22	12450	220.2	229	215	..	24	12437	222.9	232	216	..
175	21	13285	212.7	221	209	..	20	13313	215.5	226	207	..
150	21	14249	205.8	213	201	..	20	14288	208.6	218	199	..
125	18	15303	199.4	208	194	..	19	15351	201.9	211	193	..
100	15	16597	195.4	206	188	..	17	16680	197.2	206	191	..
80	5	17926	199.4	203	193	..	11	18023	199.6	217	191	..
70							8	18805	200.0	212	192	..
60							7	19700	201.6	207	194	..
50							6	20819	206.2	211	204	..
40							5	22185	210.0	213	207	..
30												
20												
10												

GIPN—S6—1 D. D.G. Obs. P./67—1-8-67—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **OCTOBER 1962** *Plate* I



DDGC/2594(1):4.67

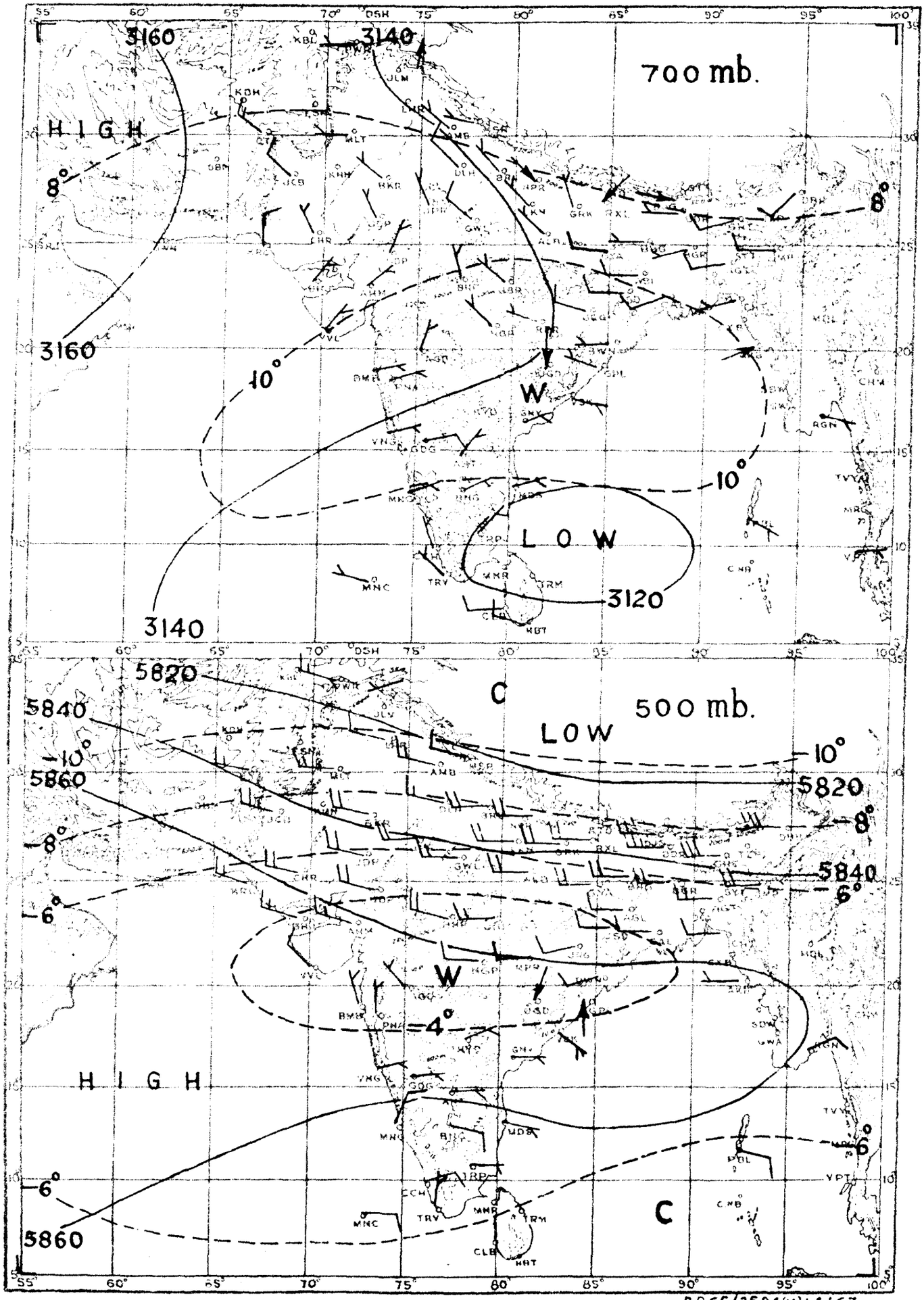
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

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

G.P.Z.P. POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **OCTOBER 1962** *Plate* II



DDGC/2594(11):4:67

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

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

G.P.Z.P. POONA, 1966

Registered No. MH-75

INDIA WEATHER REVIEW, 1962

Monthly Weather Report

November

Published by authority of the Government of India

Chief features :—

(i) Spells of precipitation in the Peninsula in the first and last week and in northwest India during the latter half of the month;

(ii) Movement of two western disturbances across the country; and

(iii) Formation and movement of a cyclonic storm in the Bay of Bengal.

Last month's low pressure area over east central Arabian Sea shifted slowly northwestwards, weakened and became unimportant by 6th. Under its influence moist easterlies or southeasterlies penetrated into the Peninsula and caused a spell of thundershowers in many parts of Andhra Pradesh, Maharashtra and Gujarat States and in west Madhya Pradesh during the first week. Some of the noteworthy amounts of rainfall recorded were : Khammam 7 cm on 2nd, Masulipatam 8 cm on 3rd and Kolhapur 11 cm, Hakimpet 8 cm and Kandla (Kutch) 6 cm on 4th.

A low pressure wave over south Andaman Sea on 2nd moved westwards across the Laccadive-Maldive area on 6th. Another low pressure wave developed over the south Bay of Bengal on 6th and moved westwards across southeast Arabian Sea by 10th. Under their influence there was good rainfall activity in the south Bay Islands and in the south Peninsula. Kondul recorded 11 cm of rain on 6th, Adirampattinam and Vedaranyam 8 cm each on 8th and Nagapattinam 12 cm on 9th.

The northeast monsoon was generally weak and there were no rains in the Peninsula during the period 10th to 23rd except in the extreme southern parts. However, a low pressure wave moved westwards across southwest Bay of Bengal and Ceylon on 24th-25th, and under its influence rainfall activity revived over the Peninsula. Madras recorded 5 cm of rain on 24th, Adirampattinam 5 cm on 25th and Nellore 9 cm on 26th.

A depression from the east moved into the south Andaman Sea on the morning of 26th with its centre about 300 kms east of Kondul. Moving initially westwards and later northwestwards, it intensified into a cyclonic storm by 27th evening when it was centred near Lat. 10°N and Long. 89°E. It intensified further into a severe cyclonic storm of small extent with a core of hurricane winds in the course of the next 12 hours and moved westnorthwestwards. It crossed coast near Nellore during the night of 29th-30th and rapidly weakened into a low pressure area. Under its influence, moderate showers occurred in the Bay Islands during 26th-28th and in Andhra Pradesh on 29th.

Weather remained practically dry over north India during the first fortnight except for two spells of light showers in Assam. Under the influence of last month's depression which weakened over Assam and moved away eastwards, a few showers continued to occur in upper Assam during the first week. In association with a feeble upper air trough over the north Bay of Bengal and adjoining parts of northeast India, moist air penetrated into Assam and caused a few very light showers there on 12th and 13th.

A feeble western disturbance which lay as an upper air trough over West Pakistan on 11th moved slowly eastwards across the Western Himalayas by 15th. It caused a few very light showers of rain or snow in Jammu and Kashmir on 13th and 14th. Another feeble western disturbance lying over West Pakistan on 16th as a surface low moved northeastwards and caused moderate rain or snow in Jammu and Kashmir on 18th. An induced low also developed over Sind and neighbourhood on 18th. It moved northeastwards and persisted over the Punjabs and neighbourhood as an active upper air low from 19th. It moved away eastwards across the Western Himalayas by 25th. Under its influence a spell of well distributed precipitation occurred in the Western Himalayas and the adjoining plains. Srinagar and Dalhousie each recorded 5 cm of rain on 20th and 21st respectively. According to press reports, a hailstorm followed by heavy rain lashed Amritsar city on the night of 20th.

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1—2 D.D.G. Obs. P/67

Night temperatures were generally above normal in the Peninsula and central parts of the country during the first week and also on 24th to 27th, being appreciably so on a few days. They were below normal in the central parts of the country during the second week and in the Peninsula during the second and third weeks. They were also below normal in northeast India during the first 10 days of the month. Northwest India and Uttar Pradesh had night temperatures above normal from 13th to 21st, with markedly above normal temperatures in Rajasthan and Uttar Pradesh on 19th-21st. Night temperatures remained generally below normal in the whole of north India from 25th to 30th, being markedly so in Rajasthan and adjoining areas on 28th-30th.

Rainfall for the month was in excess in the Punjab(I), Jammu and Kashmir, Gujarat State, Marathwada, Vidarbha and Telangana and normal in West Bengal, Bihar State, east Uttar Pradesh and Madhya Maharashtra. It was in slight defect in west Rajasthan and moderate defect in the Bay Islands, Orissa, west Madhya Pradesh, Rayalaseema and north Interior for Mysore. It was in large defect over the rest of the country outside Himachal Pradesh.

Mean maximum temperature was above normal in the Bay Islands, Bihar Plateau, east Madhya Pradesh and the Arabian Sea Islands and below normal in Sub-Himalayan West Bengal and Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh. Mean minimum temperature was above normal in Gujarat State and normal over the rest of the country outside Himachal Pradesh.

Mean relative humidity in the morning was above normal in the Punjab(I), Telangana and north Interior Mysore and below normal in Bihar State, east Madhya Pradesh and Kerala. It was normal over the rest of the country outside Himachal Pradesh.

Mean cloud amount in the morning was above normal in Uttar Pradesh, the Punjab(I), Jammu and Kashmir, Rajasthan, west Madhya Pradesh, Gujarat State, Vidarbha and the Arabian Sea Islands and below normal in West Bengal, Orissa, Bihar State and coastal Andhra Pradesh. It was normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,

The 20th February, 1963.

R. ANANTHAKRISHNAN,

for DIRECTOR GENERAL OF OBSERVATORIES.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur & Tripura)	11·7 −19·4	38	27·1 +0·2	15·4 +0·2	81 −1	75	2·5 −0·3	1·6
2. West Bengal	0 −21·2	0	28·9 +0·4	16·6 −0·5	68 −3	63	0·5 −1·2	0·9
3. Orissa	2·8 −40·5	65	28·5 −0·2	16·8 −0·7	71 −1	59	1·2 −1·1	1·4
4. Bihar	0 −11·0	0	28·9 +1·1	13·9 −0·8	63 −6	55	0·5 −0·8	0·9
5. Uttar Pradesh	2·1 −3·7	36	28·6 +0·4	12·3 +0·3	66 0	48	1·4 +0·6	1·4
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	16·5 +10·5	275	26·8 −0·1	10·2 +0·6	67 +6	45	1·3 +0·3	1·5
7. Jammu and Kashmir	22·4 +8·2	158	15·5 −1·4	1·3 −0·8	62 −3	53	3·5 +1·1	3·7
Sub-division								
1. Bay Islands	145·1 −122·1	54	30·8 +2·0	23·3 +0·2	75 −1	84	4·6 0	5·0
2. Assam (Including Manipur & Tripura)	11·7 −19·4	38	27·1 +0·2	15·4 +0·2	81 −1	75	2·5 −0·3	1·6
3. Sub-Himalayan, West Bengal	0 −10·3	0	27·0 −1·1	15·0 −0·4	74 0	68	0·7 −0·5	1·4
4. Gangetic West Bengal	0 −25·2	0	29·5 +0·8	17·1 −0·5	67 −4	62	0·4 −1·5	0·7
5. Orissa	2·8 −40·5	65	28·5 −0·2	16·8 −0·7	71 −1	59	1·2 −1·1	1·4
6. Bihar Plateau	0 −14·1	0	28·9 +1·5	13·5 −0·9	61 −6	51	0·6 −1·1	0·9
7. Bihar Plains	0 −8·8	0	28·9 +0·8	14·3 −0·8	66 −6	59	0·5 −0·6	0.8
8. Uttar Pradesh (East)	0 −6·7	0	28·9 +0·4	12·6 0	67 −1	48	1·5 +0·7	1·2
9. Uttar Pradesh (West)	5·1 +0·3	11	28·2 +0·4	12·0 +0·6	64 +1	47	1·2 +0·5	1·6
10. Punjab (India) (Including Delhi)	16·5 +10·5	275	26·8 −0·1	10·2 +0·6	67 +6	45	1·3 +0·3	1·5
11. Himachal Pradesh.	49·6 ..	..	24·7 ..	7·5 ..	85 ..	51 ..	0·9 ..	1·3
12. Jammu and Kashmir.	22·4 +8·2	158	15·5 −1·4	1·3 −0·8	62 −3	53	3·5 +1·1	3·7
13. Rajasthan (West)	1·3 −0·4	76	30·4 −0·3	12·8 0	50 0	27	1·1 +0·2	1·5
14. Rajasthan (East)	3·4 −3·7	48	29·9 +0·4	12·0 −0·6	56 +4	34	1·7 +0·9	1·9
15. Madhya Pradesh (West)	11·1 −3·9	74	29·4 +0·7	12·9 +0·4	53 −3	37	2·1 +0·8	2·3

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—(*Contd.*)								
8. Rajasthan	2·3 −2.1	52	30·1 +0·1	12·4 −0·3	53 +2	31	1·4 +0·6	1·7
9. Madhya Pradesh	6·6 −6·7	50	29·3 +1·1	12·8 0	57 −5	39	1·9 +0·4	2·1
10. Gujarat State	12·0 +7·6	273	32.5 0	18·2 +1·5	62 +4	43	1·9 +0·7	2·5
11. Maharashtra State	29·9 +6·3	127	31·2 +0·6	17·4 +0·3	65 +2	45	2·4 +0·2	2·8
12. Andhra Pradesh	52·1 −27·9	65	29·9 0	19·3 −0·6	76 +3	60	2·6 −0·9	2·7
13. Madras State	88·3 −139·3	39	29·9 +0·2	22·2 −0·3	78 −4	67	4·6 −0·1	4·5
14. Mysore	23·0 −28·9	44	29·2 0	18·2 −0·2	74 +3	52	3·4 +0·1	3·9
15. Kerala	34·3 −144·4	19	31·1 +0·9	23·5 −0·1	75 −6	71	3·9 −0·7	4·5
Sub-division—(*Contd.*)								
16. Madhya Pradesh (East)	0·9 −10·2	8	29·3 +1·4	12·7 −0·5	62 −7	43	1·6 −0·2	1·8
17. Gujarat Region	12·8 +7·0	221	33·8 +0·5	17·7 +1·5	63 +3	37	1·8 +0·6	2·0
18. Saurashtra and Kutch	11·6 +7·9	314	31·8 −0·2	18.6 +1·5	62 +5	47	1·9 +0·8	2·7
19. Konkan	12·2 −12·7	49	32·7 +0·9	21·8 +0·5	69 +2	63	2·0 −0·3	2·3
20. Madhya Maharashtra	31·5 +2·7	109	31·0 +0·5	15·4 −0·1	65 +2	38	2·3 +0·2	2·9
21. Marathwada	43·7 +16·3	159	30·5 +0·3	15·5 +0·3	59 +3	39	2·5 +0·1	3·1
22. Vidarbha	42·0 +27·2	284	30·3 +0·6	16·0 +0·5	64 +3	42	2·8 +0·7	2·8
23. Coastal Andhra Pradesh	56·0 −68·7	45	30·1 +0·4	20·5 −0·8	76 +1	65	2·4 −1·4	2·8
24. Telangana	61·6 +42·5	323	29·9 +0·1	17·1 −0·3	78 +8	53	2·7 −0.3	2·3
25. Rayalaseema	30·4 −26·6	53	29·6 −1·0	19·4 −0·4	76 +3	57	2·9 −0·6	3·1
26. Madras State	88·3 −139·3	39	29·9 +0·2	22·2 −0·3	78 −4	67	4·6 −0·1	4·5
27. Coastal Mysore	7·8 −54·7	12	32·6 +0·8	22·2 +0·2	70 −3	65	3·5 0	4·0
28. Interior Mysore (North)	21·1 −11·6	65	29·5 −0·1	17.6 −0·3	71 +8	46	2·7 +0·2	3·2
29. Interior Mysore (South)	31·1 −32·7	49	27·6 −0·3	17·1 −0·3	77 +1	52	4·1 0	4·5
30. Kerala	34·3 −144·4	19	31·1 +0·9	23·5 −0·1	75 −6	71	3·9 −0·7	4·5
31. Arabian Sea Islands	33·5 −74·4	31	31·1 +1·1	23·5 −0.4	77 +1	73	5·5 +1·6	5·9

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hour	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30·0	..	31·7	2	23.4	..	20·0	17	24·5	19·3	..	10·3	24	2	..	12·3	9·8	..	0	6	0	0	0	0	0	0	0	0	0
Long Island	30·5	..	31·7	1	22·9	..	20·4	17,19	0	26·4	..	9·6	30	4	..	3·8	2·7	..	0	7	0	0	2	0	0	0	0	0	0
Port Blair	30·8	+2·0	31·7	22	23·3	+0·2	20·6	15	80·0	145·1	−122·1	35·0	2	10	−3·6	7·7	6.8	−6·7	0	14	0	0	1	7	0	0	0	2	0
Car Nicobar	30·2	..	31·8	3	23·8	..	20·1	14	18·8	62·1	..	27·8	27	4	..	7·4	4·9	..	1	6	0	0	0	0	0	0	0	0	0
Nancowry	31·5	..	33·0	24,25	24·5	..	23·3	30	68·3	128·9	..	38·7	27	11	..	0 6	0·6	..	1	17	0	0	5	0	0	0	0	0	0
Kondul	28·7	..	29·6	5,6	24·4	..	22·1	6	111·6	321·9	..	108·4	6	13	..	..	..	..	0	20	0	0	3	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	25·4	..	..	..	16·6	..	..	..	(l) 20.4	(k) 43·6	..	..	..	..	..	(k) 5·1	(k) 9.1	..	..	..	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	25·8	+4·3	28·6	14	15·0	+0·6	10·4	28	1·1	18·7	−14·8	5·7	19, 24	3	+0·5	3·9	2·3	+0·7	3	5	0	0	1	10	0	0	0	0	0
Digboi	27·1	..	32·2	9	18·2	..	12·9	28	(j) 0	3·6	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0
North Lakhimpur	25·9	−1·8	28·8	13	15·0	+1·6	10·6	26	12·9	101·8	+75·8	19·8	19	8	+5·9	4·7	2·7	..	0	11	0	0	0	5	0	0	0	0	0
Sibsagar	26·6	+1·0	29·9	19	16·1	+0·7	11·8	27,28	1·3	6·9	−24.1	2·9	19	1	−1·3	3·6	2·3	+0·5	1	4	0	0	0	18	0	0	0	0	0
Golpur	27·0	..	28·8	7	12·9	..	8·3	27,28	0	45·6	..	21·4	7	4	..	3·6	4·3	..	0	4	0	0	0	0	0	0	0	0	0
Majbat	27·8	..	29·6	13,19	15·7	..	11·0	27	0	9·4	..	7·8	2	1	..	6.4	3·5	..	0	2	0	0	0	0	0	0	0	0	0
Jorhat	27·0	..	28·6	6, 12,13	16·2	..	11·4	27	0	2·1	..	1·8	19	0	..	..	..	..	0	2	0	0	0	11	0	0	0	0	0
Tangla	29·0	..	31·7	19	15·9	..	9·7	24	0	0	..	0	..	0	..	5·7	3·5	..	0	0	0	0	0	2	0	0	0	0	0
Tezpur	27·6	+0·4	29·4	6	14.7	−1·7	11·1	27	(e) ·0	(e) 6·5	..	..	..	..	..	(f) 4·4	(f) 2·5	..	..	..	0	0	0	0	0	0	0	0	0
Golaghat	27·7	..	..	..	16.7	..	..	..	(k) 0	(d) 0	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Rangia	28·9	..	30·9	7	16.7	..	12.7	26	..	..	..	..	..	..	..	5·2	3·2	..	..	..	0	0	0	0	0	0	0	0	0
Chaparmukh	29·0	..	30·6	5 days	16·6	..	12·2	26,27	0	0	..	0	..	0	..	4·0	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Goalpara	29·0	..	30·6	13	15·9	..	10·8	26	0	0	..	0	..	0	..	3·6	1·5	..	0	0	0	0	0	2	0	0	0	0	0
Gauhati	28·6	+1·2	30·8	15	16 8	+0·5	12·9	26	..	0	−14·0	0	..	0	−1·2	..	0	−1.8	0	0	0	0	0	12	0	0	0	0	0
Gauhati (Bhorjor)	28·0	+0·6	29·7	2	15·5	+0·9	10·8	26	0	0	−14·0	0	..	0	−1·2	3·6	2·1	..	0	0	0	0	0	6	0	0	0	0	0
Dhubri (Rupsi)	27·9	..	28·9	3,13	15·0	..	9·4	26	0	0	..	0	..	0	..	4·1	2·3	..	0	0	0	0	0	4	0	0	0	0	0
Dhubri	27·5	+1·2	29·5	15	18·2	+0·4	13·7	26	0	0	−10·2	0	..	0	−0·7	3·7	3·5	−2·9	0	0	0	0	0	0	0	0	0	0	0
Lumding	28·4	+2·2	31·1	3	17·7	+2·3	14·3	28	0	0	−29·2	0	..	0	−1·9	2·1	1·1	..	0	0	0	0	0	0	0	0	0	0	0
Tura	26·5	..	28·7	3	13·7	..	9·1	26	0	0	..	0	..	0	..	4·7	5·4	..	0	0	0	0	0	0	0	0	0	0	0
Hallong	23·9	..	25·7	15	14·6	..	11·6	27	0	0	−60·5	0	..	0	−2·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram)	28·1	..	29·5	13	15·7	..	12·3	29	10·4	22·0	..	11.6	1	2	..	4.5	7.3	..	0	2	0	0	0	1	0	0	0	0	0
Silchar	26·6	−2·8	29·4	13	16.7	−0·8	12·6	30	0	1·0	−43·5	1·0	1	0	−2·1	1·1	0.4	−1·2	0	1	0	0	0	0	0	0	0	0	0
Imphal (Tulihal)	24·2	−0·6	25·3	6,7,8	8·9	−1·2	4·9	30	0	0	−28·1	0	..	0	−1·5	5·4	3·1	−0·2	0	0	0	0	0	18	0	0	0	0	0
Kailashahar	28·6	..	29·7	3	15·1	..	11·1	27	0	0	..	0	..	0	..	2·3	1·0	..	0	0	0	0	0	3	0	0	0	0	0
Agartala	28·8	0	30·8	3	14·8	−1·4	10·7	27	0	0	−48.7	0	..	0	−1·7	4·5	2.5	−0·8	0	0	0	0	0	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	27·7	−0·8	29·4	12	13·4	−0·7	9·2	25	0	0	−6·0	0	..	0	−0·4	7.7	6.4	+3·6	0	0	0	0	0	0	0	0	0	0	0
Jalpaiguri	24·4	−3·4	26·1	4 days	15·7	−0·3	11·2	25	0	0	−12·5	0	..	0	−0.8	5·5	3·5	+1·9	0	0	0	0	0	0	0	0	0	0	0
Cooch Behar	28·0	..	29·5	13	15·0	..	9·7	25	0	0	−11·4	0	..	0	−0·8	3·6	2·0	..	0	0	0	0	0	14	0	0	0	0	0
Balurghat	30·2	..	32·5	3	13·3	..	7.3	26	0	0	..	0	..	0	..	3.6	1·6	..	0	0	0	0	0	0	0	0	0	0	0
Malda	26·8	+0·9	31·9	3	16·0	−0·2	11·1	26	0	0	−11·4	0	..	0	−0·7	6·1	3·7	−0·2	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore	29·9	+1·7	32·3	2	15·9	−1·7	11·7	30	0	0	−16·5	0	..	0	−0·7	0·6	0·1	−1·5	0	0	0	0	0	0	0	0	0	0	0
Suri	29·5	..	32·7	3	15·9	..	11·6	29	..	0	..	0	..	0	..	..	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Asansol	29.7	+0·9	32·2	2	14·6	−1·0	10·0	30	0	0	−14·5	0	..	0	−1·0	5.5	2·7	−2·3	0	0	0	0	0	0	0	0	0	0	0
Shanti Niketan	29·3	..	31·6	3	15·3	..	11·2	28	0	0	..	0	..	0	..	5·2	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Krishnanagar	30·2	+1·1	33·1	3	16·2	−0·6	12·2	28,29	0	0	−24·9	0	..	0	−1·2	1·3	1.1	−0·8	0	0	0	0	0	0	0	0	0	0	0
Purulia	29.0	+0·9	31·3	3,4	16·1	−0·5	12·8	26	0	0	−19·0	0	..	0	−1.1	2·8	2·0	−1·2	0	0	0	0	0	0	0	0	0	0	0
Bankura	29.6	..	32·7	3	..	..	..	..	0	0	−16·5	0	..	0	−1.1	0.7	1.0	..	0	0	0	0	0	0	0	0	0	0	0
Burdwan	30.2	+1·4	32·7	3	18·3	+0·6	13·3	28	0	0	−21·8	0	..	0	−1·0	3.4	3·3	+1·4	0	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	29·0	..	32·0	3	16·2	..	11 7	29	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	6	0	0	0	0	0
Calcutta (Dum Dum)	29·6	+0·6	33·8	3	17·0	−0·7	13·2	26,28	0	0	−28·6	0	..	0	−1·1	4·9	2·4	−1·5	0	0	0	0	0	4	0	0	0	0	0
Calcutta	30·1	+1·1	33·4	3	17·9	+0·3	13 6	29	0	0	−20·6	0	..	0	−1·1	7·4	4·1	+1·0	0	0	0	0	0	1	0	0	0	0	0
Midnapore	29·2	+0·1	32·8	3	16·2	−1·2	11·9	29	0	0	−22·1	0	..	0	−1·1	4·7	2·8	+0·7	0	0	0	0	0	0	0	0	0	0	0
Contai	29·4	+0·5	31·4	3	18·1	−0·7	13.8	27	0	0	−60·0	0	..	0	−2·2	4·4	3·0	0	0	0	0	0	0	2	0	0	0	0	0
Sagar Island	27·9	0	29·0	3	20·3	+0·6	16·2	26	0	0	−32·5	0	..	0	−1·3	11·3	8.8	+0·1	0	0	0	0	0	0	0	0	0	0	0
Sand heads	30·9	..	36·3	23	24·9	..	23.4	30	0	0	−69·9	0	..	0	−2.5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	30·4	..	33·6	3	14·7	..	11·1	29	0	0	..	0	..	0	..	2·9	1·4	..	0	0	0	0	0	3	0	0	0	0	0

(j) Mean of 21 days. (e) Mean of 26 days. (d) Mean of 27 days. (f) Mean of 25 days. (k) Total or Mean of 20 days. (l) Mean of 19 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground rost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Orissa—(*Contd.*)																													
Jharsuguda	30·2	+1·1	31·5	2	14·4	−0·7	10·8	28	0	0	−6·5	0	..	0	−0·7	5·9	4·0	−1·9	0	0	0	0	0	0	0	0	0	0	0
Keonjhargarh	27·5	..	29.6	2	14·9	..	11·4	29	0	0	..	0	..	0	..	3·6	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Balasore	29·3	+0·2	31·2	2	16·8	−0·5	13·4	29	0	0	−38·1	0	..	0	−1·5	5·7	3·4	+0·8	0	0	0	0	0	0	0	0	0		0
Sambalpur	30·2	+1·4	32·8	2	14·7	−1·6	11·2	28	0	0	−20·6	0	..	0	−1·0	4·2	3.1	−0·3	0	0	0	0	0	0	0	0	0	0	0
Angul	29·2	+0·4	30·8	4	16·1	−0·7	12·8	29	0	0	−23·2	0	..	0	−1·4	5·6	5.2	+0·4	0	0	0	0	0	0	0	0	0	0	0
Cuttack	30·6	+1·2	32·8	3	18·2	−0·6	16·1	27	0	0	−41·1	0	..	0	−1·6	3·6	2·1	+0·2	0	0	0	0	0	0	0	0	0	0	0
Chandbali	29·7	+0·8	31·7	3	18·1	−0·5	13·6	27	0	0	−41 9	0	..	0	−1·5	6·1	1·3	−0·8	0	0	0	0	0	0	0	0	0	0	0
Bolangir	30·3	..	32·5	5	15·3	..	11·0	16	0	0	..	0	..	0	..	4·2	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Phulbani	28·0	..	30·5	3	11·2	..	8·2	29	0	0	..	0	..	0	..	3·5	2·2	..	0	0	0	0	0	0	0	0	0	0	0
Titlagarh	30·3	..	31·8	11	14·9	..	11·9	29	0	0	..	0	..	0	..	(b) 2·9	(b) 2·0	..	0	0	0	0	0	0	0	0	0	0	0
Bhubaneswar	29·6	+0·2	31·7	4	17·7	−0·3	13·7	10	0	0	−50·5	0	..	0	−1·6	6·9	5·0	−2·3	0	0	0	0	0	1	0	0	0	0	0
Puri	29·5	+0·3	31·1	4,16, 17	20·6	−0·1	18·9	30	0	0	−81·0	9	..	0	−2·4	9·9	3·0	−1·2	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	29·3	+0·4	30·8	6	16·4	−1·2	16·4	12	0	0	−99·8	0	..	0	−2·3	10·6	3·4	−1·6	0	0	0	0	0	0	0	0	0	0	0
Koraput	17·5	−7·9	22·2	1	13·3	−0·4	10·0	25, 26	20·1	23·4	+2·8	14·7	3	3	+1·2	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Bihar Plateaus																													
Dumka	29·6	+1·6	33·3	3	14·3	−1·0	9·9	30	0	0	−13·7	0	..	0	−0·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Daltonganj	29·1	+1·1	33·1	2	12·2	−0·2	7·6	28	0	0	−14·2	0	..	0	−0·8	4·1	2·5	+0·1	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	25·7	+0·4	28·4	2	12·2	−1·8	8·1	26	0	0	−14·2	0	..	0	−0·9	10·3	7·1	+0·2	0	0	0	0	0	0	0	0	0	0	0
Dhanbad	29·4	..	32.7	2	15·7	..	12·0	26, 28	0	0	..	0	..	0	..	5.4	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Ranchi	28·6	+3·3	30·7	3	13·1	−0·9	9·8	26, 29	0	0	−15 5	0	..	0	−1 0	4·3	3·2	−1·1	0	0	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	26·6	..	29·1	2	13·4	..	10·1	28	..	0	..	0	..	0	..	(g) 12·6	7·7	..	0	0	0	0	0	0	0	0	0	0	0
Jamshedpur	30.5	+1.1	32·2	3	14·4	−0·6	10·5	29	0	0	−9·4	0	..	0	−0·7	6·2	3·7	+1·1	0	0	0	0	0	0	0	0	0	0	0
Jamshedpur (P.B.O.)	28·9	..	31·3	2,3	13·9	..	10·0	29	0	0	..	0	..	0	..	6·0	3·2	..	0	0	0	0	0	0	0	0	0	0	0
Chaibasa	29·8	+1.5	32.8	3	14·6	−0·8	11·1	28	0	0	−17·8	0	..	0	−1·0	2·7	2·3	+0·4	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	24 8	−3·1	..	..	13·4	+0·1	10·6	27	0	0	−6.1	0	.	0	0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	29·2	..	31·5	12	14·5	..	9·2	25	0	0	..	0	..	0	..	5·2	2·8	..	0	0	0	0	0	4	0	0	0	0	0
Darbhanga	28·3	0	30.6	2,13	14 3	−0·5	10·6	27, 28	0	0	−6·9	0	..	0	−0·4	5·5	1·4	0	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	−7·4	0	..	0	−0·5	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chapra	29·5	..	32·2	5	14·4	..	10·8	27	0	0	−9·1	0	..	0	−0·5	4·2	2·8	..	0	0	0	0	0	0	0	0	0	0	0
Purnea	28 8	+0·8	30·5	13	13·7	−1·1	8·8	26	0	0	−8·6	0	..	0	−0·5	3·9	1·9	+0·3	0	0	0	0	0	0	0	0	0	0	0
Patna	29.2	+1·4	32·5	2	15·7	−0·4	11·1	28	0	0	−8·6	0	..	0	−0·5	4·4	1·5	+2·1	0	0	0	0	0	0	0	0	0	0	0
Patna Aerodrome	28·5	..	31·6	2	14·0	..	9 6	26	0	0	..	0	..	0	..	7·4	3·8	..	0	0	0	0	0	2	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	−9·4	0	..	0	−0·6	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhagalpur	29·3	+0·2	32·3	3	16·2	−0·5	12·2	29	0	0	−5·0	0	..	0	−0·3	7·1	1·4	+1·0	0	0	0	0	0	1	0	0	0	0	0
Sabaur	28·7	+0·8	31·7	3	12·8	−1·0	7.3	26	0	0	−9·7	0	..	0	−0.7	7·2	3·8	−0·2	0	0	0	0	0	0	0	0	0	0	0
Jamui	29·0	..	31·4	2	14·3	..	10·6	28, 29	0	0	..	0	..	0	..	4·9	2·5	..	0	0	0	0	0	0	0	0	0	0	0
Dehri	28·9	..	31·7	2	15·0	..	11·4	26	0	0	−11·7	0	..	0	−0·7	5·7	1·5	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	28·8	+1·4	31·4	2	12·6	−1·3	8·4	30	0	0	−12·5	0	..	0	−0·7	5·4	3·2	−1·5	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich	28·5	+0·2	31·5	1	12·7	−0·7	8·1	26	0	0	−7·1	0	..	0	−0·5	4·8	3·0	+1·1	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	29·1	..	34·9	4,6	..	..	..	..	0	0	..	0	..	0	..	3.0	1·4	..	0	0	0	0	0	1	0	0	0	0	0
Hardoi	28·5	−0·6	31·8	1	12·2	0	6·4	30	0	0	−1·9	0	..	0	−0·2	8·7	1·6	+1·5	0	0	0	0	0	0	0	0	0	0	0
Gonda	28 2	−0·5	31·7	2	13·1	+0·4	8·9	28, 29	0	0	−5·1	0	..	0	−0·5	3·1	2·5	−0·2	0	0	0	0	0	0	0	0	0	0	0
Lucknow	28·7	−0·1	32·0	1,2	12·9	+0·6	9·2	27, 29 30	0	0	−5·6	0	..	0	−0·4	3·9	2·3	+0·9	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi)	28·9	+0·8	32·3	1,2	10·2	−0·2	4·9	30	0	0	−5·6	0	..	0	−0·4	9·7	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Faizabad	28·3	..	31·4	2	12·5	..	7.9	25	0	0	..	0	..	0	..	3·7	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	29·5	+1·7	33·4	2	13·7	−0·4	9·3	25	0	0	−4.8	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kanpur	29·2	+1·0	32·9	2	12·6	+0·4	6·7	30	0	0	−8·9	0	..	0	−0·4	12·8	7·4	+3·4	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	29·0	..	34·4	1	12·0	..	6·1	27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sultanpur	29·2	..	32·8	2	13.5	..	9·7	26	0	0	..	0	..	0	..	5·4	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	30·0	..	34·5	2	11·4	..	7.1	25 26, 27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	29·4	0	33·0	2	12·0	−0·6	7·0	26	0	0	−2·3	0	..	0	−0·4	8·1	4.0	+1·6	0	0	0	0	0	0	0	0	0	0	0
Ballia	30·0	..	33·2	2,3	13·5	..	9·0	25	0	0	..	0	..	0	..	0·9	0·7	..	0	0	0	0	0	0	0	0	0	0	0
Banda	31·3	..	34·2	1	12·2	..	7·3	26	0	0	..	0	..	0	..	0·8	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli).	29·8	+1·2	33·4	2	12·9	+0·5	6·6	26	0	0	−7·9	0	..	0	−0·5	4·3	2·3	−0·4	0	0	0	0	0	0	0	0	0	0	0
Varanasi (Babatpur)	28·7	+0·3	32·8	2	13·0	+0·2	8·9	29	0	0	−14·9	0	..	0	−0·2	11·5	8·0	+2·9	0	0	0	0	0	0	0	0	0	0	0
Varanasi	28·6	+0·3	32·7	2	13·6	+0·3	9·4	28	0	0	−9·4	0	..	0	−0·6	6·1	5·5	+2·9	0	0	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. (g) Mean of 24 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830—1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation 0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)																														
Mukhim(R) Tehri(R) Dehra Dun	24·6	+0.5	26·9	16	8·9	−1·7	5·3	24	6·6	18·0	+9.1	9·2	20	3	+2.3	3·8	3·8	+0·9	0	3	0	0	2	0	0	0	0	0	0
Roorkee Mansiari(R)	26.3	—0·1	30 2	1	10·3	+0·5	5·8	20,30	4·4	20.1	+14·3	14.0	20	3	+2·5	6·1	4·2	+2·6	0	3	0	0	3	0	0	0	0	0	0
Najibabad	25·8	..	30·2	1	10·1	..	4·6	30	3·6	12.2	..	5.8	22	2	..	2·7	1·8	..	0	3	0	0	3	0	0	0	0	0	0
Meerut	27 9	+0·3	30·6	1,2,18	11·8	+1·3	5.6	30	..	2·4	−0·9	2·4	21	0	—0·3	..	11·5	..	0	1	0	0	1	0	0	0	0	0	0
Bareilly	28·3	+0·7	32·0	1	12·5	+0.6	7·3	30	0	0	—4 6	0	..	0	—0·3	6·7	3·7	+2·4	0	0	0	0	0	0	0	0	0	0	0
Aligarh	28·7	0	32·4	1	11·7	—0·6	6.0	29	0	0	−0.8	0	..	0	—0·1	15.5	11·7	+7.0	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	29·8	+0·6	32·6	12	14·2	+2·4	7·6	30	0	0	−3·8	0	..	0	−0·3	7·7	3·9	+2·5	0	0	0	0	0	0	0	0	0	0	0
Agra	29·5	+0·4	36·0	5	12·2	+1·1	5·4	30	0	0	−3.6	0	..	0	−0·3	4·8	2·9	−0.5	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	29·5	.	32·8	13	10·9	..	4·8	27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orai	27·9	..	31·1	1	12·1	..	5·9	28	0	0	..	0	..	0	..	8·1	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	30·5	+0·8	34·0	1	14·1	+1.4	7·8	28	0	0	−7·4	0	..	0	−0·5	2.0	1·4	—1.3	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																														
Pathankot	24·8	—1·1	28·7	16	9·1	−0·7	4.1	29	24.0	46.9	+36 9	22.4	21	3	+2·2	6·7	4·9	—1·2	0	4	0	1	4	0	0	0	0	1	0
Amritsar(Rajasansi)	26·0	−0·5	30·6	15	8·9	+0·6	1·6	30	1.6	11.3	+3 9	9.6	21	1	+0·4	9·5	7·2	+2·0	0	2	0	1	3	0	2	0	0	1	0
Adampur Aerodrome	25·5	..	29·5	12,15	8·1	..	1·9	29	8·1	28·6	..	18·0	21	3	..	..	..	..	0	3	0	0	2	0	0	0	0	0	0
Ludhiana	27·3	−0·1	34.6	21	9·2	−1.4	0.3	30	11·8	34.9	+31.6	22.7	21	2	+1.6	5·0	3.2	+1.9	0	2	0	1	2	0	0	0	0	0	0
Ferozepur	26·7	..	32·1	15	9·7	..	2·1	30	0	16.6	..	16·6	21	1	..	4·3	2.0	..	0	1	0	0	0	0	0	0	0	0	0
Halwara(Aerodrome)	25·6	..	30·0	10	8·9	..	2·2	28,30	5·9	36.7	..	17.3	21	3	..	..	..	..	0	3	0	0	3	0	0	0	0	0	0
Chandigarh	25·7	—1·3	29·7	1	10·4	+0·1	5·2	29	4·4	13·0	+7.6	5.5	22	3	+2·6	3·4	4·0	..	0	3	0	0	0	0	0	0	0	0	0
Ambala	27.3	—0·5	31·0	30	11·5	+1.6	6·0	30	0	12.6	+7·8	9.2	22	2	+1·6	8·2	6·5	+3·6	0	2	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	26 4	..	29·4	9,17	9·3	..	3·9	29,30	1·0	7·5	..	6.5	22	1	..	..	..	..	0	2	0	0	3	1	0	0	0	0	0
Patiala	26·0	..	30·6	12	11·3	..	5·4	30	3·3	10·5	+10.2	4.2	21	3	+3 0	10.1	9.3	..	0	3	0	0	2	0	0	0	0	0	0
Bhatinda	26·8	..	32·5	12,13	9.8	..	2·8	30	0	17.9	..	9.1	21	2	..	3.4	1.9	..	0	3	0	0	0	0	0	0	0	0	0
Karnal	26·2	..	29·0	1,9,13	10·5	..	4.5	30	0	13.0	..	9.0	20	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Hissar	28·3	—0.8	32·4	12	10·7	+0·8	2·5	29	1·2	1.2	−0.3	1.2	20	0	−0.2	6.0	5·6	+1·3	0	1	0	0	1	0	0	0	0	0	0
New Delhi Safdarjang	28·1	—0.7	31·7	12	11·9	+0·5	5·1	29	0	2.0	−0.5	2·0	21	0	—0.3	15·1	11.0	+3.9	0	1	0	0	1	1	0	0	0	1	0
Palam (Aerodrome)	28.2	..	31·8	12	10·0	..	3·3	30	0	1.1	..	1.1	21	0	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Himachal Pradesh																														
Mandi	23·9	—0·5	27.7	19	6.2	—0·6	3·0	26	19.4	47.2	+39.5	31·8	23	4	+3·6	0	0	−1·6	0	4	0	0	2	7	0	0	0	0	0
Bilaspur	25·5	..	31·2	8	8.7	..	5·9	25,28	21·0	52.0	..	34.0	22	3	..	2·2	2·0	..	0	3	0	0	3	0	0	0	0	0	0
Jammu and Kashmir																														
Misgar (R)																														
Gilgit (R)																														
Skardu (R)																														
Dras	..	..	..	..	..	..	..	..	..	18·9	+6·4	10·8	11	3	+1·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sonamarg	..	..	..	..	..	..	..	..	..	4·1	−35·3	0·9	18	0	−2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	6·2	−2·0	10·9	11	−7·1	−0·7	−13·9	25	1·2	2·6	+1·6	1·8	24	0	−0·2	5·5	3·9	+0 8	0	2	4	0	0	0	0	0	0	0	0
Srinagar	12·0	−4·9	19.7	10	1·4	+2.0	—0·4	24	17.5	80.9	+69·7	50.3	20	3	+1.9	..	..	..	0	6	3	0	0	0	0	4	0	0	0
Srinagar (Aerodrome)	11·1	..	18.0	10	1.6	..	—1·3	24	23 6	102·3	..	57.9	20	6	..	..	..	..	0	6	3	0	0	1	0	0	0	0	0
Gulmarg	Closed during winter Months.																													
Banihal	16.4	..	21·6	11	2·1	..	—1·8	24	31·3	87·8	..	50.6	21	5	..	..	..	..	0	5	1	1	2	0	0	0	0	0	0
Jammu	28.4	+2·8	30·6	22	9·6	—3·8	6·1	30	..	5·4	−1·7	5·4	21	1	+0·4	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Jammu (Aerodrome)	25·4	..	29·4	14	11·4	..	5·0	26,29	1·3	6·9	..	3.1	21	2	..	..	..	..	0	3	0	0	2	0	0	0	0	0	0
Rajasthan (West)																														
Ganganagar	28·4	—0·8	32·9	14	11·1	—0·1	3·4	30	0	6.3	+3.3	5.0	19	1	+0·8	3·9	2·5	0	0	3	0	0	0	0	0	0	0	0	0
Anupgarh (R) Mahajan	30·8	..	34·0	9	..	..	..	..	0	0	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Churu	26·8	..	32·8	14,15	9·9	..	1·4	30	0	0	..	0	..	0	..	7·2	4.4	..	0	0	0	0	0	0	0	0	0	0	0
Bikaner	30·4	−0.5	36·6	13,14	10·1	−0·6	2.1	30	0	0	−1·3	0	..	0	−0.1	4·7	3.3	—0·7	0	0	0	0	0	1	0	0	0	0	0
Nagaur	27·9	..	32·1	9	11·9	..	4·9	27	0	0	..	0	..	0	..	6·4	5·4	..	0	0	0	0	1	0	0	0	0	0	0
Phalodi	30·4	..	35·8	1	13·2	..	5.2	30	0	0	—0·5	0	..	0	−0·1	10.8	8·7	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	30 2	..	35·0	8	12·0	..	4·3	28	0	0	..	0	..	0	..	8·4	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	30·9	0	34·7	9	14·7	+1·5	10.1	22	0	0	−2·8	0	..	0	−0.2	7·7	6 2	—1.0	0	0	0	0	1	0	0	0	0	0	0
Barmer*	31·9 (m)	0	35·7	8	15·3	−0·8	8·7	24	0	0	−0·8	0	..	0	−0·2	4·8 (m)	5·4 (m)	−0·4	0	0	0	0	0	0	0	0	0	0	0
Munabao	30·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7·4	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																														
Pilani	28·5	..	32·2	11	9.9	..	2.1	30	0	0	..	0	..	0	..	7·6	7·0	..	0	0	0	0	0	0	0	0	0	0	0

*Observations for 29 days. (R) Register not received. (m) Mean of 18 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—(Contd.)																													
Sikar	28·1	..	31·4	15	7.8	..	0·0	30	0	0	..	0	..	0	..	3.2	2.9	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	29·1	..	33·0	11	12.1	..	7·8	29	0	0	..	0	..	0	..	3·1	1.4	..	0	0	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	29.0	−0·3	31·7	12	12·4	+0·3	6·2	23	0	0	−3·6	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	30·0	..	33·5	12	11·0	..	5·0	27	0	0	..	0	..	0	..	5·1	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	29·5	+0·8	32·6	14	11.4	−0.1	6·5	30	0	1·4	−3·4	1·4	5	0	−0·4	6·3	4·0	+2·1	0	1	0	0	0	0	0	0	0	0	0
Tonk	27.4	..	33·3	5	10.7	..	4·4	27	0	0	..	0	..	0	..	5.9	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	29·4	..	32·9	10,11	12·0	..	6·5	27	0	0	..	0	..	0	..	6·5	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	30·4	..	34·0	1	14·6	..	8·9	27	0	1·2	..	1·2	5	0	..	7·3	5·8	..	0	1	0	0	1	0	0	0	0	0	0
Kota	30·8	+0.4	34·0	1,11	11·9	−3·2	7·8	30	0	3·4	−2·4	3·4	5	1	+0·4	1·6	1·1	−0·5	0	1	0	0	1	0	0	0	0	0	0
Erinpura (Jawai Dam).	31·2	..	33.5	2,17	14·8	..	8·4	28	0	0	..	0	..	0	..	3·0	2·8	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	30·4	..	33.3	1	13·1	..	7·4	28	0	3·2	..	3·2	5	1	..	4·9	2·8	..	0	1	0	0	2	0	0	0	0	0	0
Udaipur	29 9	+0·2	33·1	11	11·3	−1·0	6·9	29	0	0	−2·8	0	..	0	−0·3	2·3	1·2	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	30 1	+0·8	33·3	1	13·1	+1·0	7.9	28	0	12·0	−6·5	12.0	5	1	−0·1	3·9	(b) 2·1	+0·2	0	1	0	0	1	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	29·8	+0·2	34·0	1	11·0	+0·4	4·6	27	0	0	−3·6	0	..	0	−0·4	8.6	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Sheopur	30·8	+1·4	33·5	1	10·9	−0·1	4·6	27	0	0	−4·4	0	..	0	−0·4	7·0	5·7	+1·6	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	28·9	..	31·0	1	9·2	..	2·6	27	0	0	..	0	..	0	..	6·4	2·9	..	0	0	0	0	0	1	0	0	0	0	0
Nowgong	30·3	+2·1	34·2	1	9·4	−2·2	3·8	26, 27	0	0	−10·9	0	..	0	−0·7	4·3	2·0	+0·7	0	0	0	0	0	0	0	0	0	0	0
Guna	29·9	+1·1	33·0	2	11·1	+0·5	5·6	28	0	0	−22·1	0	..	0	−0·8	8·3	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Nimach	28·5	−0·7	31·8	10,11	13·6	+0·8	10·1	27	0	2.1	−5·8	2·1	5	0	−0·4	6·8	5·4	+0·1	0	1	0	0	1	0	0	0	0	0	0
Rajgarh	30·2	..	33·3	1	12·3	..	6·7	30	13·3	13·3	..	13·3	6	1	..	6·0	4·6	..	0	1	0	0	0	0	0	0	0	0	0
Sagar	28·6	+0·5	31·3	2	14·8	−0·2	9·6	25	0	0	−16.0	0	..	0	−0·9	5·8	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Ratlam	30·4	+0·2	32·2	11,12 14	14·9	+0·6	12·3	28	18·4	34·7	+31·7	25·2	4	2	+1·7	7·6	7·4	+1·3	0	2	0	0	2	0	0	0	0	0	0
Bhopal (Bairagarh)	29·3	−0·9	32·0	1	14·2	+1.5	9·3	28	1·2	2·0	−23·7	1·2	4	0	−1.2	8·7	6·4	+0·4	0	2	0	0	2	0	0	0	0	0	0
Ujjain	30·1	..	33·0	2	13·0	..	8·0	30	..	19·0	..	19·0	4	1	..	..	5·5	..	0	1	0	0	1	11	0	0	0	0	0
Narsinghpur	30.3	..	34.0	2	10·7	..	5.2	26	0	0	..	0	..	0	..	3·5	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	30 3	+1·1	33·3	1	13·7	−1·0	9·5	29	4·4	4·4	−12.6	4·4	5	1	+0.1	4·7	3·3	+0·7	0	1	0	0	1	0	0	0	0	0	0
Indore	29·3	+0·2	32.5	1	13·8	+1·8	9·5	26, 30	0	24·5	+9·0	18·1	3	2	+1·1	8·9	6·7	..	0	2	0	0	3	0	0	0	0	0	0
Rajpur (Jhabua)	31·3	..	33·6	2	14·9	..	11·0	30	0	24·1	..	24·1	4	1	..	5·2	2·4	..	0	1	0	0	1	0	0	0	0	0	0
Chhindwara	29·1	+1·5	30·3	1,2	12.4	+0·8	9·8	29	8·2	24·2	+6·2	17·2	5	2	+1·7	4·8	2·9	−1.0	0	3	0	0	1	0	0	0	0	0	0
Seoni	28·0	+0·6	30·4	13	13·4	+0·5	11·7	27	5·0	6·8	−10·5	6·8	5	1	0	7.2	4·3	+0·8	0	1	0	0	0	0	0	0	0	0	0
Betul	28·1	+0·6	30·1	2	13·1	+1·1	9·2	28	12·8	54·2	+25·3	36·1	3	3	+1·8	6·0	4·0	+0·1	0	3	0	0	2	0	0	0	0	0	0
Khandwa	..	..	..	..	14·4	+0.8	10·0	29	1·0	2·4	−16·9	1·4	4	0	−1·0	6·1	4·3	+0·6	0	2	0	0	1	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	30·0	+2·3	·6	2	11.8	−0.5	6·1	26	0	0	−8·9	0	..	0	−0.7	5·0	3.1	+0·4	0	0	0	0	0	0	0	0	0	0	0
Sidhi	29 5	..	32·5	2	10·5	..	5.5	26, 28	0	0	..	0	..	0	..	6·4	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	29·2	+1·7	32·8	2	10·2	1 0	4·4	26	0	0	−16·3	0	..	0	−0·7	4·9	2·8	+0·4	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	30·1	+2·2	33·1	2	12·1	+0·8	6·5	26	0	0	−10·9	0	..	0	−0·9	4·4	2·3	+0·4	0	0	0	0	0	0	0	0	0	0	0
Ambikapur	27·1	+1·1	29·8	2	10·3	−0·2	6·8	26	0	0	−1·1	0	..	0	−0·1	9·6	5·9	+0·1	0	0	0	0	0	0	0	0	0	0	0
Pendra	27.4	+2·1	28·9	5	13.8	+0·9	9·7	26	0	0	−18·3	0	..	0	−1·3	7·9	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Mandla	29.1	+1·0	31·1	2	9·3	−0·6	4·9	27	0	0	−7·9	0	..	0	−0·2	4·0	1·8	+0·2	0	0	0	0	0	0	0	0	0	0	0
Champa	29.8	+0·6	31·5	1,3	14·3	−2·0	11·9	29	0	0	−5·7	0	..	0	−0·6	5·8	5·2	−0·1	0	0	0	0	0	0	0	0	0	0	0
Raigarh	30·8	+1·0	32·4	3,4	14·8	−1·6	12·1	29	0	0	−0·7	0	..	0	−0·1	1·7	1·0	−2·8	0	0	0	0	0	0	0	0	0	0	0
Raipur	29·8	+1·1	31·2	3,11	15·5	−0.4	12·6	29	0	0	−13·5	0	..	0	−1·1	5·2	3·7	+0.5	0	0	0	0	0	0	0	0	0	0	0
Kanker	29·3	+1·0	31·3	5	14.0	+0.1	9.6	29	0	0	−9·7	0	..	0	−0·8	4·2	2·5	−0·6	0	0	0	0	0	0	0	0	0	0	0
Jagdalpur	29·2	+1·5	30·8	28,29	14·0	−1·0	11·0	16	2·7	10·0	−19·0	4·3	3	2	+0·1	5.5	2·3	..	0	3	0	0	3	7	0	0	0	0	0
Gujarat Region																													
Deesa	33.2	..	35·6	3	15·0	..	11·8	30	0	0	..	0	..	0	..	7·6	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	33·2	..	35 6	1	14·9	..	11·5	11	0	0	..	0	..	0	..	6·2	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Idar	3[illegible]·2	..	34·2	10	18·6	..	15·7	19	0	0·6	..	0·6	4	0	..	6·6	5·7	..	0	1	0	0	0	0	0	0	0	0	0
Ahmadabad	3[illegible] 1	−0.2	35·0	18	16·2	+0·1	11·4	30	0	2·0	−1·6	2·0	4	0	−0·4	9·1	4·9	+1·0	0	1	0	0	1	0	0	0	0	0	0
Dohad	31·1	−0·4	33·2	1	15·7	+0.6	12.5	27, 30	0	20·8	+9·7	20·8	4	1	+0·4	6.5	6.0	−0·8	0	1	0	0	2	0	0	0	0	0	0
Baroda (Aerodrome)	33·2	..	35·6	1,2	17·4	..	13.3	30	0	61·4	..	61·4	4	1	..	8·0	5·4	..	0	1	0	0	1	0	0	0	0	0	0
Baroda	34·1	+0·7	36·7	1	18.1	+3·8	14·4	30	0	29·5	+24·3	29·0	4	1	+0·6	1.2	0·8	−1·8	0	2	0	0	1	1	0	0	0	0	0
Broach	34·9	−0·2	37·0	18	18·1	+0·9	13·8	30	0	11·0	+9·8	11·0	4	1	+0.9	4·6	3·8	−0·8	0	1	0	0	0	0	0	0	0	0	0
Surat	35·7	+2·4	37·0	10,13	20.5	+2·2	17.8	30	0·7	0·9	−7·2	0·9	2	0	−0·5	7·2	7·2	+2·7	0	1	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimasar (R)																													
Naliya	32·1	..	36·2	7,8	14·8	..	8·5	30	5·6	5·6	..	5·6	5	1	..	10.2	5·5	..	0	1	0	0	2	3	0	0	0	0	0

(R) Register not received.

(b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(*Contd.*)																														
Bhuj (Rudramata)	31·9	0	35·3	1	16·5	+1·1	10·3	30	6·0	6·0	+4·0	3·0	4,5	2	+1·8	10·2	6·0	−2·0	0	2	0	0	2	0	1	0	0	0	0
Kandla Aerodrome	32·3	..	35·3	1	19·1	..	16·3	30	..	30·9	..	30·8	4	1	..	..	14·9	..	0	1	0	0	2	0	0	0	0	0	0
New Kandla	30·7	..	35·0	2	20·5	..	16·4	30	0	55·3	..	55·8	4	1	..	10·7	11·5	..	0	1	0	0	1	0	0	0	1	0	0
Mandvi	30·3	−0·2	33·5	7	..	..	..	..	0	0	−1·8	0	..	0	−0·5	15·0	14·0	+0·2	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	33·1	+0·3	35·9	1	19·5	+1·6	16·1	22	28·6	31·0	+29·9	31·0	4	1	+0·9	7·2	6·6	−0·1	0	1	0	0	3	0	0	0	0	0	0
Jamnagar (Aerodrome)	30·7	−2·0	34·0	2	18·4	+3·3	12·8	30	0	2·5	+1·0	2·5	4	1	+0·8	..	..	..	0	1	0	0	2	0	0	0	0	0	0
Dwarka	30·0	−0·6	34·8	7,8	..	..	..	..	0	0	−2·0	0	..	0	−0·1	17·9	13·7	+2·0	0	0	0	0	0	0	6	0	0	0	0
Rajkot	33·3	+0·6	36·1	1	17·7	+1·5	13·5	30	16·6	59·0	+56·2	29·0	4	3	+2·7	13·3	11·7	+1·1	0	3	0	0	3	0	1	0	1	0	0
Bhavnagar (Aerodrome)	31·0	+0·3	34·5	7,8	19·5	+1·5	11·7	30	0	1·0	−5·6	1·0	4	0	−0·3	16·4	13·0	+3·3	0	1	0	0	1	0	0	0	0	1	0
Porbander (Aerodrome)	32·9	−0·1	35·7	7	20·1	+0·1	16·5	11	0	4·9	−7·3	4·0	3	1	+0·7	15·9	12·5	..	0	1	0	0	1	0	0	0	0	0	0
Keshod	34·1	..	36·4	1	17·9	..	13·6	9	14·9	14·9	..	12·5	6	1	..	16·1	13·1	..	1	2	0	0	2	0	0	0	0	0	0
Mahuva	33·0	..	35·2	7	21·0	..	18·6	1,20	0	0	..	0	..	0	..	11·1	7·5	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	33·0	..	36·2	8	19·6	..	16·5	30	0	0·9	−3·4	0·9	4	0	−0·2	17·4	12·8	.	0	1	0	0	0	0	0	0	0	0	0
Konkan																														
Dahanu	32·6	+0·9	34·6	28	21·0	+1·0	18·8	10	4·7	5·9	−24·8	4·7	2	1	+0·3	13·8	9·9	−0·2	0	2	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	33·6	+1·3	35·2	7	20·4	+1·7	17·7	30	1·5	4·1	−10·7	2·6	1	1	+0·3	11·6	7·9	..	0	2	0	0	0	0	0	0	0	0	0
Bombay	33·5	+1·6	35·5	29	23·6	+1·1	21·1	30	0	0.5	−13·0	0·5	1	0	−0·8	7·2	5·6	−4·5	0	1	0	0	0	0	0	0	0	0	0
Alibag	31·8	+0·5	34·1	7	21·5	+0·6	19·5	25	..	2·4	−37·0	2·4	1	0	−1·4	..	8·3	+1·1	0	1	0	0	0	0	0	0	0	0	0
Bhira	35·3	..	36·2	18,19, 27	19·0	..	16·0	12	5·6	20·5	..	12·2	2	2	..	4·1	2·6	..	0	4	0	0	2	0	0	0	0	0	0
Harnai	32·4	+1·6	35·2	8	24·1	+0·2	22·1	13	0	0	−25·2	0	..	0	−1·5	11·8	11·1	−0·1	0	0	0	0	2	0	0	0	0	0	0
Ratnagiri	33·2	..	34·9	8	20·4	..	17·0	30	0	0	−25·7	0	..	0	−1·3	12.6	8·6	..	0	0	0	0	2	0	0	0	0	0	0
Devgarh	32·2	+0·3	34·5	25	22·2	−0·5	20·5	22	0	23·6	−1·2	23·6	1	1	−0·9	13·7	11·2	+1·0	0	1	0	0	0	0	0	0	0	0	0
Vengurla	32·9	+0·2	35·6	27	20·1	−0·6	17·0	30	6·3	56·3	+35·9	49·6	6	2	+0·4	9·7	6·0	..	0	3	0	0	3	0	0	0	0	0	0
Madhya Maharashtra																														
Nandurbar	32·9	..	35.0	1	18·8	..	16·0	11	0·4	16·9	..	6·5	2	3	..	7·8 (b)	4·6 (c)	..	0	3	0	0	0	0	0	0	0	0	0
Jalgaon	32·1	+0·1	34·0	1	15·2	+0·7	11·3	11	8·0	55·3	+34·5	41·1	4	3	+2·1	10·4	7·9	+0·8	0	3	0	0	4	0	0	0	0	0	0
Malegaon	31·8	+0·9	33·0	15	15·3	+1·0	11·5	30	2·4	21·6	−0·5	11·6	5	3	+1·8	6·5	4·5	−0·6	0	4	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	31·0	..	32·4	13	15·0	..	11·2	29	15·8	19·7	..	8·4	2	3	..	8·4	4·3	..	0	4	0	0	3	0	0	0	0	0	0
Ahmadnagar	30·5	+1·0	31·5	12	13·9	−0·7	10·0	24	5·9	17.7	−10.5	10·8	3	2	+0·6	8·3	4·8	−1·8	0	3	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	.	17·2	−2·1	8·0	2	3	+1·3	..	..	..	0	4	..	..	..	..	..	..	.	..	..
Poona (Aerodrome)	30·0	..	31·2	1	15·3	.	11·8	24	23·4	77·0	..	50·3	4	2	‡..	..	..	..	0	5	0	0	5	1	0	0	0	0	0
Poona	30·6	+0·3	31·8	30	15·1	+0·4	11·3	24	5·8	36·9	+9·5	21·0	4	3	+1·4	4·9	2·5	−3·5	0	4	0	0	1	0	0	0	0	0	0
Jeur	31·2	+0·3	32·6	30	14·5	−0·7	10·8	17	0	3·6	−19·2	3·6	3	1	−0·1	9·1	4·9	−0·4	0	1	0	0	0	0	0	0	0	0	0
Baramati	30·8	+0·9	31·6	30	15·6	−0·4	11·2	30	0	9·2	−27·9	9·2	2	1	−1·3	7·8	5·9	−0·8	0	1	0	0	0	0	0	0	0	0	0
Sholapur	30·7	−0·1	33·2	24	16·9	−0·2	12·5	29	2·2	32·6	−1·2	21·9	4	2	+0·3	9·3	8·9	−0·9	6	2	0	0	0	0	0	0	0	0	0
Miraj	30.7	+1·1	31·6	30	16·0	−1·0	11·5	29	7·0	17·2	−29·0	9·6	4	2	−0·5	..	..	..	0	3	0	0	1	1	0	0	0	0	0
Kolhapur	30·6	+0·4	32·2	30	16·1	−0·3	13·2	12,14	36·1	105·7	+73·4	105·7	4	1	−1·0	15·4	9·1	+0·4	0	1	0	0	2	0	0	0	0	0	0
Marathwada																														
Aurangabad	30·8	+0·7	32·0	1	16·3	0·6	13·6	30	23·2	23·8	−0·3	18·2	3	3	+1·7	6·4	4·8	−2·6	1	3	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	30·2	..	31·6	2	11·9	..	8·3	29	42·5	44·9	..	42·8	3	1	..	9·6	5·3	..	1	2	0	0	2	0	3	0	0	0	0
Parbhani	30·3	−0·1	31·6	2,6	14·8	+0·1	11·3	23	11·2	63·6	+32·9	36·2	3	3	+1·4	8·6	5·2	−0·3	0	3	0	0	1	0	0	0	0	0	0
Nander	30·7	..	32·3	2	15·0	..	9·4	29	0	29·0	..	27·0	3	1	..	3·5	2·6	..	0	2	0	0	0	0	0	0	0	0	0
Bir	30·5	..	31·9	7	14·3	..	9·5	29,30	32·6	42·3	..	42.3	3	1	..	6·6	3·4	..	0	1	0	0	2	0	0	0	0	0	0
Vidarbha																														
Gondia	30·5	+1·4	32·6	7	15·5	+0·2	12·9	27,29	0	0·6	−17·4	0·6	2	0	−0·9	3·6	2·0	−0·6	0	1	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	30·6	+0·7	32·0	6,7	14·1	+0·2	11·2	27	4.7	12·7	−6·9	4·7	4	3	+1·9	8·2	6·9	..	0	3	0	0	1	0	0	0	0	0	0
Amraoati	31·0	+0·7	32·0	4	17·1	+0·1	14·9	10,29	8·2	71·8	+1·0	8.6	2	2	+1·0	9·0	7·0	+1·7	0	3	0	0	1	0	0	0	0	0	0
Akola (Aerodrome)	31·1	..	32·9	6	14·7	..	10·5	29	3·4	21·3	..	14·4	3	2	..	8·5	7·3	..	0	2	0	0	2	0	0	0	0	0	0
Akola	31·4	+0·3	33·1	1	16·0	+1·3	12·1	30	0	18·4	−0·1	9·0	3	3	+2·0	4·7	3·7	−0·5	0	3	0	0	0	0	0	0	0	0	0
Bramhapuri	30·4	..	33·0	6	15·8	..	12·5	29	0	15.4	..	15·4	2	1	..	5·0	3·0	..	0	1	0	0	0	0	0	0	0	0	0
Buldhana	28·6	+0·5	30·2	20,22	..	..	..	..	66·8	113·4	+91·4	49·4	2	4	+2·7	6·2	5·1	−0·8	0	4	0	0	0	0	0	0	0	0	0
Yeotmal	29·1	0·0	31·0	1	17·6	+1·4	14·6	30	0	133·2	+131·3	63·2	3	3	+2·7	8.3	7·0	−0·1	0	3	0	0	2	1	0	0	0	0	0
Chanda	29·9	+0·3	31·0	7	15·2	+0·2	9·6	29	0·2	25·2	−8·4	21·8	2	2	+0·7	5·6	3.2	+0·9	1	2	0	0	1	0	0	0	0	0	0
Pusad	30·5	..	32·1	1	15·0	..	10·6	29	0	56·7	..	33·3	2	2	..	7·1	4·7	..	0	3	0	0	0	0	0	0	0	0	0
Sironcha	30.9	+0·7	32·5	4	16·8	−0·1	13·6	29	0	15·0	+10·1	10·2	3	2	+1·3	5·6	3·3	+0·1	0	2	0	0	1	0	0	0	0	0	0
Coastal Andhra Pradesh																														
Kalingapatam	29·8	+1·2	32·2	6	19·2	−1·5	16·1	12	0·0	24·8	−61·3	22·6	1	1	−1·7	8.7	6·8	−2·9	0	2	0	0	2	0	0	0	0	0	0

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

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*Contd.*																													
Vishakhapatnam	30·0	−0·3	30·7	10	20·0	−1·6	16·8	13	1·4	23·7	−94·9	20·7	2	2	−1·9	12·5	6·3	+0·2	1	2	0	0	1	0	0	0	0	0	0
Kakinada	29·7	+1·3	32·8	1	21·2	−0·8	19·0	20	0·0	12·6	−129·4	10·8	3	1	−3·5	13·1	10·7	−0·6	0	3	0	0	0	0	0	0	0	0	0
Nidadavole	30·5	..	33·1	1	20·0	..	17·4	12	1·8	18·3	..	9·1	1	2	..	8·3	6·4	..	0	3	0	0	1	0	0	0	0	0	0
Rentachintala	31·2	+0·6	35·0	1	18·8	−1·0	15·9	13	18·4	42·6	−5·7	37·6	4	2	−1·6	4·6	3·0	−2·3	0	2	0	0	0	0	0	0	0	0	0
Gannavaram	30·3	−0·4	32·6	1	21·1	0	18·6	13,14	1·9	12·3	−21·4	9·6	3	1	−1·4	12·3	9·2	−1·0	0	3	0	0	3	0	0	0	0	0	0
Nagarjunakonda	30·9	..	34·2	1	19·3	..	15·7	13	58·5	105·8	..	76·4	4	2	..	9·4	6·1	..	0	3	0	0	1	5	0	0	0	0	0
Masulipatnam	29·5	+0·2	30·7	1	20·9	−0·9	19·2	15	2·0	134·6	−12·2	83·6	3	3	−1·7	5·5	3·9	−2·9	0	4	0	0	1	0	0	0	0	0	0
Ongole	28·5	..	31·6	13	21·5	..	19·7	21	14·7	92·2	..	58·4	3	4	..	9·0	5·7	..	0	5	0	0	0	0	0	0	0	0	0
Nellore	30·0	+0·4	33·1	2	22·1	−0·1	19·9	15	83·7	141·2	−156·0	93·2	26	6	−2·8	5·3	3·4	−1·4	0	7	0	0	2	0	0	0	0	0	0
Telangana																													
Ramagundam	31·2	+0·5	33·2	1	17·8	−0·1	14·3	29	2·0	118·0	+107·3	57·6	3	3	+2·2	6·3	3·4	−1·1	0	4	0	0	2	0	0	0	0	0	0
Nizamabad(R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanamkonda	30·1	+0·5	32·2	2	17·5	−0·3	14·9	16	4·8	48·8	+20·9	42·0	3	2	+0·3	7·9	4·7	0·0	0	3	0	0	1	0	0	0	0	0	0
Hakimpet (Aerodrome)	27·3	..	30·6	1	17·6	..	14·2	29	82·5	85·0	..	82·5	4	1	..	..	..	..	0	4	0	0	2	4	0	0	0	0	0
Bhadrachalam	30·4	−0·1	33·0	1	18·1	−0·1	15·0	13	46·0	51·0	+42·4	25·0	5	4	+3·4	4·5	3·2	−1·3	0	4	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet)	28·1	−0·7	31·8	2	15·2	−0·9	12·2	29	25·8	28·5	−0·5	25·8	4	2	−0·1	11·1	7·2	−0·5	0	2	0	0	1	3	0	0	0	0	0
Khammam	30·4	..	32·6	1	18·8	..	16·2	12,13	91·0	110·4	..	73·0	2	4	..	3·3	1·8	..	0	4	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·3	..	32·0	1,2	17·3	..	14·3	14	1·6	6·6	..	3·2	30	2	..	12·2	8·3	..	0	3	0	0	2	0	0	0	0	0	0
Rayalaseema																													
Kurnool	29·2	−1·9	32·7	2	18·3	−0·5	14·9	15	0·0	32·4	+2·2	26·2	30	2	−0·1	8·8	4·8	+0·9	0	3	0	0	0	0	0	0	0	0	0
Nandyal*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Anantapur	29·8	−0·2	32·5	1	19·3	−0·2	15·0	15	7·4	19·8	−31·3	10·2	2	2	−1·1	10·9	8·8	+0·3	0	3	0	0	0	0	0	0	0	0	0
Cuddapah	29·9	−1·0	32·3	1	20·5	−0·6	17·7	15	20·2	39·0	−50·7	13·2	5	4	−1·2	5·9	4·6	−0·9	0	5	0	0	0	0	0	0	0	0	0
Arogyavaram	26·4	..	30·1	2	17·1	..	14·0	12	44·6	58·6	..	41·8	5	2	..	8·6	5·2	..	1	4	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	29·7	..	33·0	1	22·3	..	19·7	12,15	..	79·9	..	39·9	24	4	..	..	7·8	..	0	4	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	29·6	−0·1	33·8	1	22·1	−0·1	19·7	15	50·2	86·1	−268·5	47·3	24	5	−6·1	16·9	10·8	−4·2	0	6	0	0	2	0	0	0	0	0	0
Vellore	29·8	+0·7	34·4	1	20·0	−0·6	15·6	12	3·4	30·9	−164·2	15·8	5	4	−4·5	10·8	7·3	+4·1	0	5	0	0	1	0	0	0	0	0	0
Tambaram (Aerodrome)	30·4	..	34·0	1	22·0	..	19·4	15	36·9	73·2	..	47·2	24	3	..	..	..	..	0	6	0	0	1	0	0	0	0	0	0
Tiruppattur	29·4	..	31·9	2	18·3	..	13·5	12	9·6	9·6	..	9·6	5	1	..	4·9	3·1	..	0	1	0	0	0	0	0	0	0	0	0
Mettur Dam	31·1	..	33·2	5 days	21·5	..	18·2	13	21·1	36·1	..	12·7	26	4	..	7·6	6·0	..	0	5	0	0	0	0	0	0	0	0	0
Cuddalore	29·3	+0·2	32·7	1	21·2	−1·4	17·8	15	42·2	173·8	−220·4	40·5	25	9	−2·6	13·4	10·5	+4·4	0	9	0	0	0	0	0	0	0	0	0
Kallakkurichchi	29·5	..	33·4	1	21·8	..	19·3	12,14	16·4	66·6	−106·4	32·6	24	5	−3·4	11·2	8·2	..	0	6	0	0	1	0	0	0	0	0	0
Salem	31·3	+0·7	33·5	1	21·1	+0·4	13·2	(5 11,12	6·4	19·6	−77·2	10·4	24	3	−3·2	9·3	8·9	+4·7	1	4	0	0	1	0	0	0	0	0	0
Coimbatore (Pilamedu)	29·2	..	32·1	3	19·7	..	16·7	15	18·3	42·4	..	17·8	26	4	..	14·5	9·4	..	0	4	0	0	2	0	0	0	0	0	0
Coimbatore	29·8	+0·1	32·8	3	19·9	−0·7	17·6	12	32·5	56·3	−46·1	36·0	4	4	−2·8	9·1	5·8	+2·3	0	4	0	0	1	0	0	0	0	0	0
Nagapattinam	29·2	+0·1	32·2	1	23·7	+0·1	21·6	14	125·0	233·2	−212·3	119·6	9	8	−5·0	17·3	17·7	+7·9	1	13	0	0	1	0	0	0	0	0	0
Tiruchirappalli	30·4	+0·1	34·1	1	22·3	+0·1	19·4	11	9·6	33·5	−114·8	9·1	26	5	−3·5	11·6	9·3	+3·2	..	..	0	0	1	0	0	0	0	0	0
Vedaranniyam	30·0	..	32·3	4	23·4	..	21·6	11,15	65·3	273·5	..	79·0	8	10	..	9·7	7·8	..	1	12	0	0	2	0	0	0	0	0	0
Atirampattinam	29·7	..	32·1	1	22·7	..	20·0	15	127·2	235·0	..	67·0	8	11	..	11·6	8·9	..	0	12	0	0	8	0	0	0	0	0	0
Madurai	30·3	−0·1	33·0	2	22·5	−0·3	20·5	12	14·9	55·7	−89·8	34·8	4	4	−4·0	8·8	6·3	−0·3	0	6	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	29·9	..	32·6	2	22·0	..	19·7	4	8·0	80·4	..	67·2	4	3	..	14·0	10·3	..	0	6	0	0	3	0	0	0	0	0	0
Tondi	30·4	..	31·6	7	23·4	..	21·4	15	52·8	171·4	..	58·4	8	8	..	15·8	12·5	..	0	9	0	0	4	0	0	0	0	0	0
Pamban	29·5	0·0	32·1	1	24·0	−0·6	22·4	26	35·1	185·8	−111·9	50·4	8	6	−7·0	14·8	13·8	−0·5	1	9	0	0	0	0	0	0	0	0	0
Tuticorin	28·6	−0·5	32·7	1	23·7	−0·1	21·9	12	4·3	56·9	−137·0	27·6	26	3	−6·3	22·2	20·6	+6·8	0	3	0	0	1	0	0	0	0	0	0
Palayankottai	31·6	+0·9	35·3	2	23·7	+0·1	22·8	29	43·2	61·4	−123·4	23·4	8	4	−5·5	8·6	5·4	−1·4	0	8	0	0	0	0	0	0	0	0	0
Kanniyakumari	30·3	..	31·9	5	24·1	..	21·7	5	15·4	99·6	..	59·0	5	6	..	22·1	19·3	..	0	7	0	0	1	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·7	+1·1	36·3	5	20·1	−0·8	17·3	16	1·4	5·0	−48·7	3·8	6	1	−1·8	10·2	7·3	..	0	2	0	0	1	0	0	0	0	0	0
Honavar	32·3	−0·4	35·1	22	21·4	−0·5	18·2	15	3·3	10·7	−50·8	8·4	6	1	−1·9	9·4	8·6	+4·4	0	2	0	0	3	0	0	0	0	0	0
Mangalore (Bajpe)	32·0	..	34·0	25	21·6	..	19·1	16	4·0	8·5	..	7·5	5	1	..	9·6	6·6	..	0	2	0	0	2	0	0	0	0	0	0
Mangalore	32·8	+1·8	35·3	25	25·0	+1·9	23·4	28,29	3·6	7.7	−64·7	6·9	5	1	−3·4	10·7	8.0	+1·6	0	2	0	0	3	0	0	0	0	0	0
Interior Mysore North																													
Bidar	27·7	−0·4	30·2	2	17·7	−0·4	15·3	8	8.2	22·8	+1·0	14·4	3	2	+0·3	18·5	11·2	+2·3	1	2	0	0	0	0	0	0	0	0	0
Gulbarga	30·7	0·0	33·6	2	16·9	−0·4	12·2	29	14·2	1·8	−26·1	1·2	3	0	−1·7	14·4	10·2	+0·7	0	2	0	0	1	0	0	0	0	0	0
Bijapur	29·5	−0·3	31·8	1,2	17·5	+0·4	13·4	29	8·9	15·5	−16·8	7·4	26	3	+1·2	5·4	2.7	−1·2	0	3	0	0	1	0	0	0	0	0	0
Raichur	30·0	−0·3	32·8	2	20·4	+0·6	17·7	10	5·3	29·5	0·0	22·0	30	2	+0·2	11·7	9·9	+1·2	0	2	0	0	0	0	0	0	0	0	0
Belgaum	29·6	+0·2	30·5	19,22	15·8	−1·0	12·0	14	38.4	50·2	+10·8	41·6	4	1	−1.4	8·4	6·1	0	0	3	0	0	1	0	0	0	0	0	0
Belgaum (Samra)	28·6	..	29·5	30	16·6	..	12·9	14	61·5	82·1	..	66·9	4	3	..	11·2	5·6	..	0	3	0	0	3	2	0	0	0	0	0
Gadag	29·5	+0·1	30·7	2	17·5	−0.7	15·1	22	1·6	6·6	−38·6	5·0	3	1	−2·0	9·8	6·3	−0·6	0	2	0	0	1	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	29·5	−1·1	32·4	1	19·4	+0·4	17·0	14	10.0	36·0	−14·0	20·0	5	3	−0·1	7·3	4·5	+0·6	0	3	0	0	0	0	0	0	0	0	0

*Data not reliable. (R) Register not received.

Division and station	Air temperature in °C.								Rain fall millimeters					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour.			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal.	Height	Date	Mean minimum	Departure from normal.	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal.	Heaviest fall in 24 hours	Date	Total in the month	Departure from norm l	Mean between 0830. 1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm)	Precipitation (0.3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28
Interior Mysore (South)—*Contd.*																													
Chitradurga	27·6	—0·8	31·7	1	17·8	—0·5	14·3	15	20.1	48·1	—12·1	18·8	3	4	+0·6	9·0	6·6	+0·6	0	6	0	0	2	0	0	0	0	0
Shimoga	28·6	—0.5	30·2	2	16·4	—0·7	12·3	15	2·0	15·0	—34·6	6·8	3	3	—0·3	7·9	3·9	—0·2	0	3	0	0	0	0	0	0	0	0
Agumbe	27·5	..	29·5	7,15	14.9	..	10.7	16	..	37·3	..	26·0	5	3	..	..	4·4	..	0	6	0	0	0	0	0	0	0	0
Balehonnur	26·6	+0.5	28·8	2	15·7	—0·7	12.3	15	..	45·2	—26·9	20·6	3	3	—1.7	..	..	..	0	5	0	0	0	0	0	0	0	0
Hassan	26·5	—0·6	29·3	3	15·8	—0·5	12·1	15	3.8	53·1	—23·9	41·2	5	3	—1·6	5·7	3·4	—1·1	0	4	0	0	2	4	0	0	0	0
Bangalore	26·7	+10·4	29·5	1	16·9	+0.4	12·9	15	9·7	7·4	—60.4	3·9	24	1	—3·5	9·7	7·4	+0·3	0	4	0	0	1	0	0	0	0	0
Bangalore (Aerodrome)	27·5	..	29·8	2	16·2	..	12·9	15	6.6	10·8	..	3·4	26	2	..	..	..	..	1	5	0	0	1	3	0	0	0	0
Mysore	27·6	—0·3	29·3	4 days	17·5	—0·5	14.3	12,16	4·0	12·7	—56·9	6·1	1	2	—2·2	14·9	11·3	+3·3	1	4	0	0	0	0	0	0	0	0
Kerala																													
Calicut	31·6	+0.9	32·6	21,22	23·0	—0·3	21·0	23	11.2	17.4	-121·3	11.2	27	3	—3·2	7·2	6·2	+0·1	0	3	0	0	2	0	0	0	0	0
Palghat	32·5	..	34·6	17	22·7	..	20·6	14	4·0	20·0	..	11·0	5	2	..	10·8	8·5	..	0	3	0	0	3	0	0	0	0	0
Fort Cochin	30·5	+0·7	31·7	23	23·9	—0·2	22·3	13,23	5.8	17·0	-152·9	9·1	5	2	—6·4	9·2	7·7	+2·4	1	5	0	0	4	0	0	0	0	0
Cochin (Naval Air-Station)	31·6	..	32·9	26	23·3	..	21·2	23	11·5	22·9	..	10·7	4	2	..	8·6	6·5	..	0	5	0	0	9	1	0	0	0	0
Alleppey	31·4	+1·0	33·8	27	23·7	—0·2	22·1	23	13·4	81·6	-147·1	26·4	5	6	—5·0	11·7	7·8	—0·6	0	8	0	0	3	0	0	0	0	0
Punalur	31·5	..	34·1	27	21·5	..	19·3	13	49·4	41·4	..	21·2	5	2	..	6·1	5·9	..	0	2	0	0	0	0	0	0	0	0
Trivandrum	31·0	+0·9	33·1	23	23·3	+0·2	21·9	24	30·1	21·0	—56·3	9·2	5	2	—7·5	6·4	4·7	+0·5	0	8	0	0	7	0	0	0	0	0
Trivandrum Aerodrome	30·3	..	31·9	28	22·9	..	21·1	24	..	24·8	..	13·8	5	3	..	..	5·1	..	0	6	0	0	6	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	18·2	—0.3	21·5	4 days	6·7	—1·1	2·0	4,6	80·0	141·0	116·9	54·0	20	4	+2·9	5·5	5·7	+3·1	0	5	0	3	5	0	0	0	0	0
Dharmsala	20·2	—0·5	23·1	15	10·8	—0·6	5·1	24	38·2	52·6	+37·6	25·4	20	3	+2·2	38·2	4·6	+0·9	0	3	0	0	3	0	0	0	0	0
Simla	14·3	+0·3	17·9	11	7·1	+0·3	0	24	10·7	23·9	+10·7	12·7	22	2	+0·9	2.3	1·4	—0·6	0	4	0	0	2	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	34·4	+26·3	23·1	22	2	+1·2	..	..	..	0	2	0	0	0	0	0	0	0	0
Lokpol	3·0	..	—0·6	1	—9·1	..	—10·0	30	..	163·0	..	60·4	22	5	..	..	..	..	0	4	4	0	0	10	0	28	0	0
Badrinath (R)														Closed during winter months														
Joshimath	16·9	..	25·1	17	7·1	..	4·7	22	38·5	68·3	..	35·0	22	3	..	3·9	5·6	..	0	3	1	0	1	1	0	0	0	0
Mussoorie	16·8	+1·5	22·2	17	7·9	+0·6	0·7	24	21·6	34·0	—29·7	17·2	20	3	+2·1	9·7	8·6	+1·4	0	3	0	0	2	0	0	0	0	0
Mukteswar (Kumaun)	17·3	+2·4	23·1	17	6·5	+0 4	0·7	24	6·0	9·0	—1·7	9·0	22	1	+0·3	10·4	10·9	+3·5	0	1	0	1	2	0	0	21	0	0
Nainital	16·6	+0·9	21·2	17,18	6·0	+0·4	0.6	24	5·0	6.5	—0·9	6·5	22	1	+0·5	6.2	5·8	—1·3	0	1	0	0	0	0	0	0	0	0
Kalimpong	18·7	+0·6	23.6	5	11·2	—0.7	3·9	28	0	0	—18·0	0	..	0	—1·4	5·0	3·9	—6·6	0	0	0	0	0	0	0	0	0	0
Darjeeling	15·2	+0 8	18.3	13	6 9	+0·3	4.4	26	0	0	—20·6	0	..	0	—1 2	1·9	1·9	+0·5	0	0	0	0	0	0	0	0	0	0
Kohima	17·8	..	18.9	4 days	11.1	..	8·8	29	0	0	..	0	..	0	..	4·4	3·5	..	0	0	0	0	0	0	0	0	0	0
Shillong	18·6	—0·3	20·6	2,3	7·8	—0·1	5·0	26	0	6·6	—34·3	3·2	17	2	0 7	3·9	3·6	+1·7	0	3	0	0	0	0	0	0	0	0
Cherrapunji	19·7	0	21·8	1	11.4	—0·8	8·4	29	0	0	—68·6	0	..	0	—1·8	7 0	4·9	+0·6	0	0	0	0	0	0	0	0	0	5
Abu	25·0	+1·8	28·3	8	10·6	—3.7	8·0	24	0	0	— 5·6	0	7	0	—0·4	2·8	2·3	—2·4	0	0	0	0	0	0	0	0	0	0
Aijal	22·5	..	25·1	30	15·1	..	12·8	27	0	0	..	0	..	0	..	10·0	11·0	..	0	0	0	0	0	0	0	0	0	0
Pachmarhi	25·5	+1·9	27·6	1	8·8	—1·6	5·3	28	16·8	29·6	+10·8	16·8	5	3	+1·8	3·7	2·1	—1·0	0	3	0	0	2	0	0	0	0	0
Mahabaleshwar	23·9	+0·6	24·6	20,22	15·0	+0·1	13·3	23	0·6	28·9	—11·1	13·6	1	2	—0 4	11·3	11·9	—0·2	0	4	0	0	2	5	0	0	0	0
Mercara	24·0	+0·1	25·6	2	15·0	—0.8	12·0	23	16·0	21·0	—55·2	13·0	5	2	—3·3	13·5	12·3	+5·7	0	2	0	0	2	0	0	0	0	0
Ootacamund	20·3	+2·7	23·4	17	7·1	—1·8	3·6	11	17·8	25·8	—135·0	11·6	4	3	—7·5	..	..	..	0	6	0	0	0	0	0	5	0	0
Coonoor (R)																													
Kodaikanal	17·3	+1·2	20·9	14	9·4	—0·3	6·5	24	49·3	67·8	—191·0	25·1	26	7	—5·8	10·2	10·6	—1·5	0	11	0	0	2	14	0	0	0	0
Nepal																													
Katmandu	23·5	..	25·7	28	5.5	..	0·1	25	0	0	..	0	..	0	..	1.3	0·8	.	0	0	0	0	0	14	0	2	0	0
Sikkim																													
Lachen	12·1	..	13·9	25,29	1·3	..	—0·3	27	..	45·8	..	32·2	1	3	..	..	..	..	0	4	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	26·9	..	29.4	2	14·5	..	10·0	30	0	0	..	0	..	0	..	10·0	6·6	..	0	0	0	0	0	0	0	0	0	0
Hazaribagh	25·9	..	28·9	2	11·7	..	7·6	26	0	0	..	0	..	0	..	8·4	4·4	..	0	0	0	0	0	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0

*Data given as addenda in December 1962 issue. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and (0·2mm)	Precipitation (0.3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground rost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.—(Contd.) **Damodar Catchment.**—(Contd.)																													
Bokaro	28·6	..	30·9	25	14·2	..	9·2	16	0	0	..	0	..	0	..	5·1	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Maithon	28·1	..	32·7	1	14·1	..	10·0	27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	8	0	0	0	0	0
Ramgarh	29·2	..	31·0	3	11·5	..	7·8	26 28	0	0	..	0	..	0	..	2·6	1.2	..	0	0	0	0	0	0	0	0	0	0	0
Panchet Hills	29·9	..	32·7	2	15·7	..	12·3	26, 28,29	0	0	..	0	..	0	..	3·9	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Durgapur	30·6	..	33·4	5	14·2	..	11·1	26, 23,29	0	0	..	0	..	0	..	8.1	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment.																													
Ginabahar	29 8	..	31·2	34	10·8	..	8·7	28,29	..	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Hirakud	29·5	..	31·4	4	16·4	..	13·4	28	0	0	..	0	..	0	..	4·6	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Bhimkund	26·5	..	30·2	2	13·4	..	9·8	29	0	0	..	0	..	0	..	4·9	2·7	..	0	0	0	0	0	7	0	0	0	0	0
Sonepur	29·9	..	31·7	4days	15 5	..	12·2	29	..	0	..	0	..	0	..	..	1·6	..	0	0	..	..	.	..	..	..	..	..	..
Khijrawan	28·8	..	31·1	3	13·9	..	9·5	29	0	0	..	0	..	0	..	5·6	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment.																													
Bagra Tawa	30·6	..	33·5	7	14·1	..	7·9	28,29	0	4·7	..	3·2	3	1	..	4·0	2·5	..	0	2	0	0	1	0	0	0	0	0	0
Punasa	31·8	..	33·8	1	14·4	..	9 3	29	0	0·6	..	0·6	4	0	..	4·2	2·1	..	0	1	0	0	0	0	0	0	0	0	0
Thikri	32·9	..	36·0	11	14·7	..	9·8	30	..	21·2	..	13·7	4	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Sabarmati Catchment.																													
Dharoi	33·4	..	34·8	3	15 8	..	13·0	8,9	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	16·1	..	23·6	17	0·9	..	−1.5	25	0	1·6	..	1·6	1	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Timure	19·7	..	21·7	11	6·1	..	4·0	5	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Pokhara	23·2	..	25·6	11	10·8	..	5·8	22	0	1·4	..	1·4	1	0	..	4·4	4·0	..	0	1	0	0	0	0	0	0	0	0	0
Gorkha*																													
Nuwakot	24·6	..	26·4	1	11·3	..	7·7	26	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	20·5	..	21·9	11,28	9 2	..	5·6	25	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment.																													
Dadeldhura	17·5	..	22·2	17	8·7	..	4·7	24	0·6	2·2	..	1·2	1	0	..	5·8	4·7	..	0	2	0	0	0	0	0	0	0	0	0
Sallayana	22·3	..	24·0	5,16,29	10·0	..	6·7	25	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Butwal	27·7	..	29·9	2,3	16·7	..	9·4	25	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																													
Katmandu†																													
Koel Catchment.																													
Chautara	22.1	..	25·3	30	10·0	..	6·6	26	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	0	12·4	..	9·0	1	1	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Walungchung Gola	12·0	..	14·0	15	−0·3	..	−2·0	17	0	3·8	..	3·8	1	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Taplethok	22·3	..	24·1	13	10·3	..	6·5	26	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhujpur	18·8	..	22·3	13	10·3	..	7·7	26,27	0	0	..	0	..	0	..	..	..	.	0	0	..	..	..	..		..	..	..	..
Taplejung	18 2	..	20·8	10	8·4	..	5·1	25	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Okhaldunga*																													
Chainpur	17·6	..	20·0	1,3	12·7	..	9·7	27	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Angbung	22·8	..	24·4	12	12·1	..	7·7	29	0	0	..	0	..	0	..	..	..	..	0	0	.	..	..	..	..	..	..	..	..
Barahakshetra	27·4	..	29·5	12	14·5	..	10·9	25	0	0	..	0	..	0	..	5·5	3·8	..	0	0	..	..	..	..	..	..	..	..	..
Tista Catchment.																													
Gangtok	19·5	..	22·3	13	8·7	..	6·1	30	0	0	..	0	2	0	..	5·6	3·8	..	0	0	0	0	0	3	0	0	0	0	0
Gezing	20·9	..	23·6	13	9·9	..	7·1	29	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..

* Data not available.

†Data included under 'Nepal'.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Bay Islands																										
Maya Bandar	0830	28	1013·0	1009·9	..	28·3	25·3	24·0	29·8	77	..	3·4	..	4·4	0	0	18	0	16	2	0	0	0	0	0	12
	1730	,,	1010·3	1007·1	..	27·3	24·7	23·5	28·9	81	..	4·1	..	4·7	0	0	22	0	20	2	0	0	0	0	0	8
Long Island	0830	25	1012·7	1009 9	..	28·5	25.1	23·6	29·1	77	..	4·1	..	2·1	0	0	13	0	4	8	0	0	0	0	1	17
	1730	,,	1010·3	1007·4	..	26·0	24·1	23·3	28·6	85	..	4·1	..	1.0	0	0	7	0	4	1	2	0	0	0	0	23
Port Blair	0530	57	1011·4	1002.4	..	23·8	23·0	22·6	27·4	93	..	4·0	..	3·6	0	2	6	1	4	3	0	0	0	0	0	22
	0830	,,	1012·8	1004.0	+0.9	28·8	25·5	23·9	29·7	75	−1	4·6	0	10·2	0	2	24	4	13	6	2	0	0	1	0	4
	1130	,,	1011·0	1002·2	..	29·3	25·4	23·7	29·3	72	..	5·2	..	11·4	0	3	27	1	20	8	1	0	0	0	0	0
	1730	,,	1010·5	1001·6	..	26·1	24·1	23·3	28·6	84	..	5·0	..	7·2	0	2	21	1	14	7	0	0	0	0	1	7
	2330	,,	1011·7	1002·8	..	24·8	23·6	23·0	28·1	90	..	3·7	..	5·9	0	0	13	1	7	5	0	1	0	0	0	16
Car Nicobar	0830	10	1012·3	1011·1	..	28·8	25·3	23·9	29·7	74	..	4·9	.	4·2	0	0	29	1	21	4	1	1	1	0	0	1
	1730	,,	1009·6	1008·4	..	26·9	24·7	23·6	29·1	83	..	4·7	..	1·5	0	0	13	0	9	3	1	0	0	0	0	17
Nancowry	0830	26	1012·2	1009·3	..	29·1	26 1	24·8	31·3	77	..	4·1	..	0.5	0	0	5	0	0	0	1	1	2	1	0	25
	1730	,,	1009·8	1006·8	..	26 5	24·6	23·8	29·5	85	..	4·1	..	0.1	0	0	1	0	0	0	0	0	0	0	1	29
Kondul	0830	8	..	..	..	27·6	25·2	24·1	30·0	81	..	5·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	26·6	24·7	23·9	29·7	85	..	5·1	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Assam (Including Manipur, Tripura)																										
Pasighat	0830	157	1017.0	998·8	..	20·0	16·6	14·1	16·1	69	..	(j) 3·0	..	(j) 14·3	0	9	10	0	0	0	0	0	0	0	19	2
	1730	,,	1012·9	994·8	..	19·5	18·0	17·0	19·4	85	..	(k) 2·9	..	(k) 2·6	0	1	3	0	0	0	0	0	0	0	4	16
Dibrugarh (Mohanbari)	0230	111	1013·5	1000.4	..	15·8	15·4	15·1	17·1	95	..	3.2	..	0·3	0	0	2	0	1	0	0	0	0	1	0	28
	0530	,,	1014.4	1001.3	..	15·5	15·2	15·0	17·0	97	..	3.9	..	0·7	0	0	5	0	3	1	0	0	1	0	0	25
	0830	,,	1016·5	1003·6	−0·3	20·4	18·4	17·1	19·5	82	−5	4·3	+1·7	2·6	0	0	15	0	9	4	0	1	0	1	0	15
	1130	,,	1014·2	1001·5	..	24·0	19·3	16·3	18·5	63	..	4·1	..	4·2	0	1	23	2	11	2	1	2	1	2	3	6
	1730	,,	1012·7	999·9	..	20·2	18·2	16·9	19·3	81	..	2·7	..	0·4	0	0	3	0	1	1	0	0	0	0	1	27
	2330	,,	1014·3	1001·2	..	16·5	16·0	15·7	17·8	94	..	3·0	..	0·7	0	0	3	1	1	0	0	0	0	0	1	27
Digboi	0830	152	1015·5	998·0	..	21·5	19·2	17·8	20·4	80	..	(c) 2·1	..	(c) 3·0	0	1	15	3	3	3	0	0	1	2	4	12
	1730	,,	1011·7	994·2	..	22·8	20·3	18·9	21.8	78	..	(j) 1·5	..	(j) 1·2	0	0	7	0	3	2	2	0	0	0	0	14
North Lakhimpur	0830	102	1016·7	1004·8	0	20·8	18·7	17·4	19·9	82	+6	3·4	+0·7	2·0	0	0	23	3	13	3	0	2	1	1	0	7
	1130	,,	1014·4	1002·7	..	24·3	20·1	17·6	20·1	66	..	3·3	..	3.5	0	0	30	3	11	5	5	4	1	1	0	0
	1730	,,	1012·9	1001·1	..	20·8	19·2	18·2	20·9	86	..	3·1	..	1·6	0	0	20	2	12	1	1	0	2	1	1	10
Sibsagar	0830	97	1016·3	1005·1	−0·3	21·2	19·4	18·3	21·0	84	−5	5·0	−0·4	2·5	0	0	19	4	6	3	2	2	2	0	0	11
	1730	,,	1013·0	1001.8	..	23·3	20·5	18·9	21·8	77	..	2·6	..	1·5	0	0	9	4	3	1	0	0	1	0	0	21
Gohpur	0830	..	..	..	..	20·3	19·1	18·4	21·1	89	..	1·1	..	6.0	0	0	30	5	8	2	7	3	4	0	1	0
	1730	..	..	..	..	21·5	20·2	19·5	22·7	87	..	1·1	..	6·0	0	0	30	4	9	0	3	0	5	0	9	0
Majbat	0830	,,	..	..	..	22.7	19.3	17·2	19·6	70	..	2·2	..	6·9	0	0	29	2	4	19	4	0	0	0	0	1
	1730	..	..	..	..	22.5	20·1	18·7	21·6	78	..	1·7	..	0·5	0	0	3	1	1	1	0	0	0	0	0	27
Jorhat (Aerodrome)	0530	90	1013·7	1003·2	..	16·6	16·5	16·5	18·8	98	..	3·6	..	1·3	0	0	7	1	2	2	0	0	2	0	0	23
	0830	,,	1016.0	1005·7	..	20·4	19·0	18·2	20·9	86	.	4·4	..	3·3	0	0	17	0	2	4	0	0	5	4	2	13
	1130	,,	1013·8	1003·6	..	25.1	20·6	17·9	20·5	65	..	3·6	..	7·2	0	0	29	2	10	5	3	1	4	2	2	1
	1730	,,	1011·9	1001·6	..	21·4	19·6	18·5	21.3	84	..	2·5	..	4·0	0	0	16	2	10	1	0	1	2	0	0	14
	2330	,,	1013·8	1003·4	..	17·6	17·3	17·1	19·5	97	..	1·5	..	1.2	0	0	7	2	3	0	0	0	0	1	1	23
Tangla	0830	78	1015.4	1006.4	..	21.6	18·7	16·9	19·3	76	..	0·2	..	0·4	0	0	2	0	1	1	0	0	0	0	0	28
	1730	,,	1010.9	1001.9	..	24.9	21·5	19·9	23·2	72	..	0·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30
Tezpur	0830	79	1016 9	1007·7	−0.2	20·5	18·9	17·9	20·5	84	+3	(e) 1·5	−0·8	(e) 3·8	0	0	21	0	14	1	0	2	3	0	0	5
	1730	,,	1012·9	1003·7	..	22·4	19·5	17·7	20·2	74	..	(e) 1·2	..	(e) 1·4	0	0	7	0	5	1	0	0	1	0	0	19
Golaghat	0830	..	..	..	..	21.0	18.8	17.4	19.9	80	..	(d) 5·3	..	(d) 0	0	0	0	0	0	0	0	0	0	0	0	27
	*1730	..	..	..	..	26·2	21.1	18.2	20.9	61	..	4·5	..	0	0	0	0	0	0	0	0	0	0	0	0	20
Rangia	0830	..	..	..	..	22·3	19·6	17·9	20·5	77	..	1·0	..	3·3	0	0	30	0	5	22	1	1	0	0	1	0
	1730	..	..	..	..	24.6	20·9	18·8	21·7	70	..	0·3	..	0·2	0	0	4	0	0	2	0	0	0	2	0	26
Chapamukh	0830	66	1017·0	1009·4	..	22·4	19·4	17·6	20·1	74	..	1·6	..	3·3	0	0	30	1	0	21	5	2	0	0	1	0
	1730	,,	1012·2	1004·7	..	24·8	21·5	19·7	22·9	73	..	1·8	..	3·2	0	0	30	13	3	6	1	0	0	6	1	0

(d) Mean of 27 days (c) = Mean of 28 days. (j) = Mean of 21 days. (k) Mean of 20 days (e) Mean of 26 days. *Observations for 20 days.

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amoun (Oktas): Mean amount	Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	W	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Goalpara	0830	38	1016·0	1011·5	..	20·7	18·4	16·9	19·3	79	..	1·4	..	0.9	0	0	14	0	8	2	3	1	0	0	0	16	0
	1730	"	1012·6	1008.2	..	27.3	21·5	18·2	20·9	58	..	0·2	..	1·0	0	0	15	0	4	0	1	0	3	3	4	15	0
Gauhati	0830	..	..	..	..	22·0	19·6	18·2	20·9	80	—6	0·8	—1.8	0·3	0	0	3	0	1	2	0	0	0	0	0	27	0
Gauhati (Bhorjor)	0230	54	1013·1	1006·8	..	16·9	16·4	16·1	18.3	95	..	0·8	..	0·3	0	0	2	0	1	0	0	1	0	0	0	28	0
	0530	"	1013·9	1007·6	..	15·9	15·6	15·4	17·5	96	..	1·5	..	0·3	0	0	2	0	0	1	0	0	1	0	0	28	0
	0830	"	1016·1	1009·8	0	22·1	19·5	17·9	20·5	77	—1	1·6	—1.0	1·4	0	0	8	3	2	1	0	1	0	0	1	22	0
	1130	"	1013·9	1007·5	..	26·0	20·9	17·9	20·5	61	..	2·0	..	6·4	0	0	27	12	5	1	0	0	1	3	5	3	0
	1730	"	1012·1	1005·9	..	22·3	20·1	18·8	21·7	81	..	2·3	..	0·5	0	0	3	0	1	0	0	0	2	0	0	27	0
	2330	"	1014·1	1007·8	..	17·9	17·2	16·7	19·0	93	..	1·2	..	2·1	0	0	9	0	1	0	1	2	5	0	0	21	0
Dhubri (Rupsi)	0530	36	1013·0	1008·7	..	15·5	15.1	14.8	16·8	96	..	1·0	..	1·2	0	0	9	1	7	0	0	0	0	0	1	21	0
	0830	"	1015·1	1011·0	..	21·8	19 3	17·8	20·4	78	..	0·6	..	5·3	0	0	28	0	11	8	3	1	3	2	0	2	0
	1130	"	1013·5	1009·3	..	26·1	20·4	16·9	19·3	57	..	2·0	..	7·2	0	0	28	0	5	5	6	4	4	2	2	2	0
	1730	"	1011.6	1007·5	..	21·1	19·4	18·4	21·1	84	..	0·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Dhubri	0830	35	1016·3	1012·2	+0·3	21·5	19·2	17·8	20·4	80	+1	0·1	—1·6	1·4	0	0	15	0	14	0	1	0	0	0	0	15	0
	1730	"	1012·8	1008·8	..	23·8	19·5	16·8	19·1	65	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Lumding	0830	149	1016·5	999·2	..	19·9	18·0	16·7	19·0	82	—7	1·4	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	"	1011·3	994·4	..	24.6	20·7	18·5	21·3	68	..	1·3	..	0·1	0	0	1	0	0	0	0	0	1	0	0	29	0
Tura	0830	370	1016·6	974·0	..	18·7	16·3	14·6	16·6	78	..	3·1	..	2.9	0	0	29	1	1	19	6	2	0	0	0	1	0
	1730	"	1012·7	970·9	..	23·6	19·8	17·5	20·0	69	..	3·1	..	2·7	0	0	25	1	0	4	12	3	5	0	0	5	0
Haflong	0830	682	1015·1	938·5	..	19·2	16·2	14·0	15·9	73	..	1·4	..	6·2	0	0	30	0	0	0	0	2	28	0	0	0	0
	1730	"	1011·7	935·5	..	19·5	16·8	14·9	16·9	75	..	0·8	..	10.0	0	0	30	1	0	0	0	2	26	1	0	0	0
Silchar (Kumbhirgram)	0530	97	1013·2	1001·9	..	15·9	15·1	14·5	16·5	91	..	0·5	..	6.5	0	0	29	0	1	28	0	0	0	0	0	1	0
	0830	"	1014·9	1003·7	..	20·7	17·9	16·1	18·3	75	..	1·0	..	6·1	0	0	29	0	1	19	9	0	0	0	0	1	0
	1130	"	1012·5	1001·5	..	25·1	19·7	16·3	18 5	58	..	0·8	..	2.9	0	0	27	1	0	6	11	3	3	1	2	3	0
	1730	"	1010·9	999·8	.	22·9	19·7	17·8	20·4	73	..	0·2	..	1·5	0	0	15	5	3	1	0	0	2	2	2	15	0
Silchar	0830	29	1016·2	1012·7	+0.4	21·4	18·9	17·3	19·7	77	—3	1·6	—0·9	0·3	0	0	3	0	0	1	1	1	0	0	0	27	0
	1730	"	1012·4	1009·0	..	23·9	20·6	18·7	21·6	73	..	0·1	..	0·1	0	0	1	0	0	0	0	1	0	0	0	29	0
Imphal (Tulihal)	0530	781	1018·1	927·9	..	9·6	9·5	9.5	11·9	99	..	3·0	..	0·5	0	0	4	1	1	0	0	0	1	0	1	26	0
	0830	"	1018·6	929·7	0	14·3	13·2	12·4	14·4	89	+11	5·4	+2·0	2·1	0	0	17	1	6	1	1	3	2	1	2	13	0
	1130	"	1014·1	927·7	..	21.3	16·3	12·9	14·9	59	..	2·0	..	4·6	0	0	28	2	0	0	0	2	19	5	0	2	0
	1730	"	1012·9	925·6	..	17·7	15·0	13.1	15·1	75	..	1·6	..	4·0	0	0	23	0	0	0	3	8	4	5	3	7	0
	2330	"	1017·0	927·5	..	11·8	11·5	11·3	13·4	96	..	1·2	..	2·2	0	0	17	2	14	1	0	0	0	0	0	13	0
Kailashahar	0530	29	1014·6	1011·2	..	15·7	15·4	15·2	17·1	97	..	1·0	..	0·4	0	0	5	0	0	0	0	4	1	0	0	25	0
	0830	"	1016·5	1013·1	..	21·1	19·1	17·9	20·5	81	..	0·8	..	0·9	0	0	9	1	1	0	0	1	5	1	0	21	0
	1130	"	1014·3	1011·0	..	27·0	20·9	17·3	19·7	56	..	2·1	..	2·3	0	0	29	4	6	6	0	5	0	5	3	1	0
	1730	"	1012·8	1009·4	..	23·8	21·0	19·4	22·5	77	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Agartala	0230	16	1012·3	1010·4	..	16·4	15·9	15 5	17·6	94	..	0	..	0·5	0	0	3	0	0	0	2	1	0	0	0	27	0
	0530	"	1013·0	1011.1	..	15·3	14·9	14·6	16·6	95	..	1·0	..	0·2	0	0	2	0	0	0	1	1	0	0	0	28	0
	0830	"	1015·0	1013·1	+0·4	23·5	20·1	18·1	20·8	71	—6	0·8	—1·3	0·8	0	0	4	0	0	1	0	0	3	0	0	26	0
	1130	"	1013·5	1011.7	..	27·3	20·4	16·1	18·3	50	..	2·7	..	5·2	0	0	25	8	4	3	0	0	1	5	4	5	0
	1730	"	1011·7	1009·9	..	23·3	20·0	18·1	20·8	73	..	1·0	..	1·7	0	0	10	6	2	0	0	1	0	0	1	20	0
	2330	"	1013·3	1011·4	..	17·4	16·8	16·4	18·6	93	..	0·1	..	0·9	0	0	4	1	1	1	0	1	0	0	0	26	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1012·7	997·5	..	16.5	15·4	14·6	16·6	88	..	0·1	..	2·4	0	0	14	13	0	0	0	0	1	0	0	16	0
	0530	"	1013·7	998·2	..	14·2	13·9	13·6	15·5	96	..	0·8	..	2.6	0	0	15	14	0	1	0	0	0	0	0	15	0
	0830	"	1015·5	1000·4	—0.1	21·0	18·1	16·4	18·6	74	+3	1·3	—0·4	4·6	0	0	20	5	1	11	2	0	0	0	1	10	0
	1130	"	1013·9	999·0	..	25·9	20·0	16·3	18·5	57	..	2·1	..	7·4	0	1	26	0	1	13	4	7	1	1	0	3	0
	1730	"	1011·9	996·9	..	21·1	19·1	18·0	20·6	81	..	2·7	..	2·4	0	0	13	3	1	0	0	0	2	4	3	17	0
	2330	"	1013·8	998·6	..	17·9	16·3	15·2	17·3	84	..	0·8	..	4·1	0	0	21	20	0	0	0	0	0	0	1	9	0
Jalpaiguri	0830	83	1015·7	1006·1	—0·2	18.8	17·3	16·4	18·6	86	+6	0·4	—0·7	3·2	0	0	28	10	6	2	1	1	1	0	7	2	0
	1730	"	1011·9	1002·4	..	23·9	19·8	17·8	19·7		..	0·7	..	0·7	0	0	7	0	0	0	0	1	5	1	0	23	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—*Contd.*																											
Cooch Behar	0830	43	1015·9	1010·9	..	21·4	18·8	17·2	19·6	77	..	1·0	..	5·9	0	0	27	0	15	8	3	1	0	0	0	3	0
	1130	,,	1014·1	1009·2	..	26·4	20·3	16·6	18·9	55	..	1·8	..	7·9	0	0	29	0	4	11	4	0	1	3	0	1	6
	1730	,,	1012·1	1007·2	..	21·9	19·2	17·5	20·0	76	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Balurghat	0830	26	1014·6	1011·6	..	22·3	18·8	16·6	18·9	70	..	0·1	..	1·7	0	0	23	5	3	2	1	2	5	2	3	7	0
	1730	,,	1011·3	1008.4	..	25·1	20·1	17·0	19·4	61	..	0·6	..	0·1	0	0	2	0	0	0	0	0	1	1	0	28	0
Malda	0830	31	1015·5	1011·9	−0·1	22·6	18·1	14·9	16·9	62	−10	0·5	−0.3	5·3	0	0	30	8	3	2	0	3	4	5	5	0	0
	1730	,,	1012·2	1008·6	..	24·6	19·1	15·7	17·8	57	..	0·7	..	2·2	0	0	19	5	0	1	0	2	3	1	7	11	0
Gangetic West Bengal Berhampore	0830	19	1015·3	1013·2	−0.2	21·5	18·2	16 0	18·2	69	−6	0·4	−1·4	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1012·2	1010·0	..	24·1	19·2	16·1	18·3	61	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Suri	0830	..	..	..	..	21·4	16·8	13·4	15·4	60	..	0·8	..	5·1	0	0	27	0	3	2	0	0	2	11	9	3	0
Asansol	0230	126	1012·9	999·9	..	15·9	15·1	14·3	16·3	88	..	0·1	..	0·5	0	0	4	0	0	0	0	0	0	2	2	26	0
	0530	,,	1013·7	1000·6	..	15·1	14·3	13·8	15·8	91	..	0·5	..	1·0	0	0	9	0	0	0	0	0	0	8	1	21	0
	0830	,,	1015·5	1002·7	+1·7	21·3	17·5	15·0	17·0	67	−2	0.2	−1·9	4·9	0	0	23	0	0	0	0	0	1	12	10	7	0
	1130	,,	1013·9	1001·3	..	27·8	19·2	13·3	15·3	41	..	0·7	..	6·1	0	0	24	4	4	0	0	0	1	6	9	6	0
	1730	,,	1011·8	999·1	.	23·4	18·8	15·8	17·9	62	..	1·0	..	0·7	0	0	5	0	0	0	0	0	0	3	2	25	0
	2330	,,	1013 6	1000·9	..	16·6	15·1	14·1	16·1	84	..	0·5	..	0·4	0	0	3	0	0	0	0	0	0	1	2	27	0
Shanti Niketnan	0830	59	1016·3	1009.5	..	21·9	17·6	14·6	16·6	63	..	0·4	..	6·9	0	0	24	4	0	0	0	1	0	7	12	6	0
	1130	,,	1014·8	1008·1	..	27·5	18·6	12·2	14·2	39	..	0·3	..	4·8	0	0	26	8	2	1	1	0	4	4	6	4	0
	1730	,,	1012·4	1005·7	..	22·8	18·4	15·5	17·6	63	..	0·9	..	1·8	0	0	16	5	0	1	0	4	2	1	3	14	0
Krishnanagar	0830	15	1016·7	1015·0	+1·3	22·9	18·8	16·2	18·4	67	−2	0	−1·7	0·5	0	0	7	6	0	0	0	0	0	1	0	23	0
	1730	,,	1012·4	1010·7	..	25.5	19·8	16·3	18·5	59	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Purulia	0830	255	1016·8	987 5	+0·6	21·1	15·7	11.4	13·5	55	−7	0·3	−1.0	4.0	0	0	29	1	1	0	1	0	3	2	21	1	0
	1730	,,	1012·8	984·1	..	25·0	17·7	12·3	14.3	44	..	1·3	..	0·6	0	0	5	0	2	0	0	0	0	0	3	25	0
Bankura	0830	100	1016.1	1004·7	..	22·6	17·7	14·3	16.3	59	..	0.1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1011·0	999·7	..	25·5	19·4	15·0	17 6	55	..	0·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Burdwan	0830	32	1015.3	1011·6	−0.1	24·1	19·1	16·0	18·2	60	−9	0·1	−1·6	0·9	0	0	3	0	0	0	0	0	1	2	0	27	0
	1730	,,	1012·0	1008·3	..	26·1	20.7	17·8	21·7	61	..	0·	..	0·4	0	0	2	0	0	1	0	1	0	0	0	28	0
Barrackpore (Aerodrome)	0530	7	1013·9	1013·1	..	17·3	16·8	16·5	18·8	95	..	0·6	..	0·7	0	0	5	0	0	0	0	0	1	2	2	25	0
	0830	,,	1016·0	1015.2	+0·3	22·7	20·0	18·5	21·3	77	+4	0·6	−1.3	3·3	0	0	19	4	1	1	1	0	0	4	8	11	0
	1130	,,	1014·7	1013·9	..	27·4	22·6	20·1	23·5	64	..	1·0	..	6·6	0	0	28	6	2	0	0	0	1	9	10	2	0
	1730	,,	1012·7	1011·9	..	23·5	21·3	20·1	23.5	81	..	0·7	..	0.3	0	0	2	0	0	0	0	0	1	1	0	28	0
	2330	,,	1014·2	1013·4	..	19.3	18·5	18·0	20·6	93	..	0·2	..	0·4	0	0	2	0	1	0	0	0	1	0	0	28	0
Calcutta (Dum Dum)	0230	6	1012·8	1012 0	..	18·2	17·3	16·7	19·0	91	..	0·1	..	0·9	0	0	7	3	1	1	0	1	0	0	1	23	0
	0530	,,	1013·6	1012 8	..	17·3	16·6	16·1	18·3	93	..	0·8	..	0·7	0	0	6	3	0	0	0	0	0	2	1	24	0
	0830	,,	1015·8	1015·0	+0.9	22·9	19·0	16·5	18·8	67	−4	0·6	−1·3	3.1	0	0	20	8	1	2	1	1	1	2	4	10	0
	1130	,,	1014·2	1013·4	..	27·7	19·3	13·6	15·6	42	..	1·2	..	5·2	0	0	29	14	3	0	1	0	3	4	4	1	0
	1730	,,	1012·4	1011·6	..	24·3	19·8	17·1	19·5	64	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	2330	,,	1013·8	1013·0	..	19·3	18·1	17·4	19·9	88	..	0·3	..	0·4	0	0	3	2	1	0	0	0	0	0	0	27	0
Calcutta	0830	6	1015·4	1014 7	+0.2	23·3	19·0	16·3	18.5	65	−11	0·5	−1.3	3·4	0	0	28	7	1	1	0	1	2	6	10	2	0
	1130	,,	1013·9	1013·2	..	28·5	19·9	14·4	16·4	42	..	1·1	..	4·3	0	0	30	2	2	3	1	0	1	11	10	0	0
	1730	,,	1012·0	1011·3	..	25·1	19·5	16·1	18·3	56	..	0·8	..	1.1	0	0	12	3	0	0	0	0	1	7	1	18	0
Midnapore	0830	45	1016·1	1010.8	+0·8	21·9	17·6	14·7	16·7	64	−2	0·3	−1.5	2·5	0	0	25	9	11	0	0	0	1	2	2	5	0
	1730	,,	1012·3	1007·1	..	26·3	20·0	16·1	13·3	54	..	0·6	..	0·1	0	0	2	1	1	0	0	0	0	0	0	28	0
Contai	0830	11	1015·4	1014·2	+0.6	22·6	19·3	17·1	19·5	71	−2	0·3	−1.5	1.6	0	0	24	18	0	0	0	0	1	2	3	6	0
	1730	,,	1012·2	1011 0	..	25.1	21·1	19·0	22·0	68	..	0·2	..	0·6	0	0	9	0	0	0	1	3	5	0	0	21	0
Sagar Island	0830	3	1015·2	1014·9	+0.4	23·9	20·4	18·3	21·0	71	−4	1·1	−1·5	9·2	0	0	28	6	6	0	0	0	2	7	8	1	0
	1730	,,	1011·9	1011·6	..	24·8	20·8	18·5	21·3	68	..	1·9	..	7·3	0	0	27	4	4	1	0	1	10	3	4	3	0
Sandheads	0530	10	1013·3	1012·2	..	25·4	20·8	18·1	20·8	64	..	1·4	..	7.2	0	3	17	9	4	0	0	1	0	3	3	10	0
	0830	,,	1015·1	1014·0	+0·6	26·6	21·3	18·5	21·3	61	−1	1·4	−1·4	7·6	0	3	21	9	6	0	1	0	0	2	6	6	0
	1130	,,	1014·1	1013·0	..	27.6	21·8	18·6	21·4	58	..	1·6	..	8.8	0	2	27	7	7	0	0	0	2	4	9	1	0
	1730	,,	1012·7	1011.6	..	27·2	21·3	18·1	20·8	57	..	0·8	..	6.2	0	0	19	7	2	1	0	0	2	3	6	9	0
	2330	,,	1013·6	1012.5	..	25·7	20·8	18·0	20·6	63	..	0	..	5·3	0	0	20	8	1	0	0	1	2	4	4	10	0
Orissa Baripada	0830	54	1017·1	1010·8	..	21·7	17·2	14·1	16·1	62	..	0·6	..	2·5	0	0	24	10	13	0	0	0	0	0	1	6	0
	1730	,,	1013·6	1007·3	..	23·6	19·3	16·8	19·1	65	..	0·3	..	0·2	0	0	3	0	0	0	2	1	0	0	0	27	0
Jharsuguda	0230	230	1013.9	987·1	..	16·2	15·1	14·3	16·3	88	..	0·2	..	1·8	0	0	8	6	2	0	0	0	0	0	0	22	0
	0530	,,	1014·7	987·7	..	14·8	13·8	13·0	15·0	89	..	0·5	..	2·0	0	0	8	4	4	0	0	0	0	0	0	22	0
	0830	,,	1016·4	989·9	+0·6	19·9	15·9	12·6	14·6	64	−2	1·5	−0·2	5·3	0	0	9	10	8	1	0	0	0	0	0	11	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millbars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millbars: At station level	Mean pressure in millbars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Jharsuguda—contd.	1130	230	1014·9	989·0	..	26·8	17·9	10·9	13·0	37	..	1·9	..	6·9	0	0	27	7	10	0	0	1	3	3	3	3	0
	1730	,,	1012·3	986·3	..	25·6	18·2	12·9	14·9	46	..	1·9	..	3·6	0	1	13	4	2	1	1	2	2	2	0	16	0
	2330	,,	1014·7	988·0	..	18·2	15·9	14·2	16·2	78	..	0·2	..	1·3	0	0	5	2	1	1	0	1	0	0	0	25	0
Keonjhargarh	0830	463	1013·4	961·3	..	21.8	16·0	11·9	13·9	54	..	0·6	..	2·0	0	0	20	2	2	0	0	0	1	3	12	10	0
	1730	,,	1009·6	958·4	..	24·9	17·1	12·2	14·2	46	..	1·0	..	1·7	0	0	17	6	2	2	1	0	2	0	4	13	0
Balasore	0830	20	1015·8	1013.5	+0·5	21·3	17·9	15·6	17·7	71	0	1·4	−0·8	4·3	0	0	30	16	1	0	0	1	1	0	11	0	0
	1730	,,	1012·4	1010·1	..	25·2	20·6	17·9	20·5	65	..	1·5	..	0·6	0	0	9	0	0	0	6	3	0	0	0	21	0
Sambalpur	0830	148	1016·3	999·3	+0·6	22·8	18·4	15·5	17·6	65	−7	0·9	−1·2	0·3	0	0	4	1	1	2	0	0	0	0	0	26	0
	1730	,,	1012·5	995·7	..	25·7	20·7	18·0	20·6	64	..	1·5	..	0·1	0	0	2	1	0	0	0	0	0	0	1	28	0
Angul	0830	139	1016·7	1000·7	+1·4	21·0	18·1	16·2	18.4	73	+1	1·0	−1.7	3·7	0	0	28	3	0	0	0	0	5	10	10	2	0
	1730	,,	1012·7	996·9	..	26·1	21·4	18·8	21·7	65	..	1·2	..	6·3	0	0	22	8	2	4	1	0	0	3	4	8	0
Cuttack	0830	27	1016·1	1013·1	+0·7	22·1	19·0	17·0	19·4	73	−1	1·0	−1·5	1.6	0	0	11	1	1	1	0	0	0	2	6	19	0
	1730	,,	1012.8	1009·8	..	27·3	21·5	18·3	21·0	57	..	0·8	..	0·1	0	0	1	0	0	1	0	0	0	0	0	29	0
Chandbali	0830	6	1016 1	1015·4	+1·1	23·1	20·0	18·1	20·8	74	−3	0·9	−1·8	2·7	0	0	26	7	0	0	0	1	1	4	13	4	0
	1730	,,	1012·7	1012·0	..	26·0	20·5	17·2	19·6	58	..	1·0	..	1·7	0	0	20	4	3	8	3	1	0	0	1	10	0
Bolangir	0830	190	1017·0	995·2	..	21·8	17·9	15·1	17·1	66	..	0·9	..	2·2	0	0	30	9	2	2	2	5	3	5	2	0	0
	1730	,,	1012·7	991·3	..	26·1	18·8	13·9	15·9	47	..	0·7	..	2·0	0	0	30	13	12	0	0	0	2	1	2	0	0
Phulbani	0830	464	1015·1	962·1	..	17·7	15·6	14·2	16·2	80	..	0·7	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1010·9	959·1	..	23·4	18·6	15·8	17·9	61	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Titlagarh	0830	211	1017·2	993·1	..	21·7	20·1	19·1	22·1	85	..	0	..	2·0	0	0	30	3	3	8	6	7	0	3	0	0	0
	1730	,,	1013·1	989·4	..	27·4	25·1	23·9	29·7	83	..	0	..	2·0	0	0	30	10	15	5	0	0	0	0	0	0	0
Bhubaneswar	0230	46	1013·2	1007·9	..	19·9	18·1	17·1	19·5	83	..	0·6	..	2·9	0	0	15	7	1	0	0	0	0	2	5	15	0
	0530		1013·9	1008.5	..	18·6	17·1	16·3	18·4	85	..	1·3	..	2·9	0	0	14	8	1	0	0	0	0	1	4	16	0
	0830	,,	1016·1	1010·7	+0·9	23·3	19·7	17·6	20·1	69	+1	1·3	−1·0	4·9	0	1	17	8	3	0	0	0	0	0	5	12	2
	1130	,,	1014.8	1009·6	..	27·6	20·3	15·5	17·6	47	..	0·9	..	8·0	0	0	26	9	6	6	0	1	0	2	1	4	1
	1730	,,	1012·6	1007·4	..	26·5	20·2	16·2	18·4	53	..	1·2	..	2·8	0	0	16	3	4	4	2	0	0	1	2	14	0
	2330	,,	1014·3	1008·9	..	28·1	18·7	17·3	19·7	79	..	0·4	..	2·5	0	0	12	2	4	3	1	0	0	1	1	18	0
Puri	0830	6	1015·7	1015·0	+0·8	24·4	20·3	18·1	20·8	69	−7	0·9	−1·5	7·8	0	0	29	25	2	0	1	0	0	0	1	1	0
	1730	,,	1012·9	1012·2	..	26·4	20·7	17·1	19·5	57	..	1·0	..	6·4	0	0	24	2	5	3	4	5	4	0	1	6	0
Gopalpur	0530	17	1014·0	1012·0	..	18·8	17·8	17·2	19·6	89	.	2·0	..	9·1	0	0	30	7	0	0	0	0	0	0	23	0	0
	0830	,,	1016.3	1014·3	+1·4	22·7	19·7	17·9	20·5	75	+3	1·9	−0·3	11·3	0	4	25	10	0	0	0	0	0	0	19	1	0
	1130	,,	1015·0	1013·0	..	28·1	21·3	17·4	19·9	52	..	1·9	..	9·9	0	3	27	11	3	4	2	3	1	0	5	0	1
	1730	,,	1012·9	1011·0	..	26·2	20·9	17·8	20·4	60	..	2·7	..	9·3	0	2	27	1	6	7	13	2	0	0	0	1	0
	2330	,,	1014·6	1012·6	..	21·5	19·3	18·0	20·6	82	..	1·1	..	5·9	0	0	27	5	0	0	0	0	0	3	19	3	0
Koraput	0830	913	1523·0	913.3	−0·4	17·5	15·3	13·9	15·9	78	+5	1·5	−0·5	3·9	0	0	30	5	2	1	3	16	3	0	0	0	0
	1730	,,	1511·4	911·2	..	20·8	16·0	12·7	14·7	61	..	1·6	..	4·7	0	0	30	12	5	4	0	2	1	1	5	0	0
Bihar Plateau																											
Dumka	0830	149	1016·0	998·8	+0·2	21·1	16.7	13·6	15·6	62	−5	0·1	−1·1	0	0	0	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1012·4	995·3	..	24·0	17·8	13·4	16·4	51	..	0	..	0	0	0	..	..	..	..	..	..	..	..	..	..	..
Daltonganj	0830	221	1015·9	990·3	−0·6	19·2	14·9	11·4	13·5	62	−14	0·8	−0·4	0·1	0	0	1	0	1	0	0	0	0	0	0	29	0
	1730	,,	1012·2	987·1	..	24·9	17·8	12·6	14·6	47	..	1·7	..	0	0	0	0	6	0	0	0	2	0	0	0	30	0
Hazaribagh	0830	611	1016·1	947·1	+0·7	19·9	14·1	9.4	11·8	51	−6	0·6	−0·9	5·7	0	0	24	1	0	0	1	0	6	3	13	6	0
	1730	,,	1013·1	944·6	..	21.1	14·8	9·9	12·2	49	..	1·1	..	5·8	0	0	30	2	0	0	0	0	0	3	25	0	0
Dhanbad	0830	257	1015·8	986·4	..	22·0	15·5	10·3	12·5	47	..	0·3	..	3·1	0	0	21	1	0	0	0	0	0	12	4	9	4
	1730	,,	1012·1	983·0	..	24·3	16·4	9·9	12·2	40	..	0·7	..	2·2	0	0	22	0	0	1	0	0	0	7	12	8	2
Ranchi	0830	655	1015·1	941·5	−0·2	20·8	15·9	12·5	14·5	57	−1	0·1	−1·7	0·9	0	0	13	4	0	1	0	0	1	2	5	17	0
	1730	,,	1013·4	940.7	..	23·0	16·2	11·4	13·2	48	..	0·6	..	1·1	0	0	17	1	4	0	0	0	0	0	12	13	0
Ranchi Aerodrome	0530	652	1015·5	940·9	..	14·2	10·8	7·7	10·5	65	..	1·0	..	4·0	0	0	18	2	0	0	0	0	3	3	10	12	0
	0830	,,	1015·6	942·7	..	21·1	13·8	7·7	10·5	42	..	0·7	..	6·9	0	0	25	6	0	1	0	0	1	2	15	5	0
	1130	,,	1013·9	941·9	..	24·5	14·5	5·9	9·3	30	..	1·0	..	10·2	0	2	25	7	1	3	0	0	4	1	11	3	0
	1730	,,	1012·5	940·1	..	22·2	14·0	7·0	10·0	36	..	(g) 1·2	..	(g) 5·7	0	0	19	7	2	0	0	0	0	0	10	5	0
Jamshedpur	0830	129	1016·7	1001·6	+1·0	18·9	16·0	13·8	15·8	72	+1	0·7	−1·5	4·6	0	0	29	1	0	0	0	0	0	14	14	1	0
	1730	,,	1012·3	997·6	..	24·9	19·3	16·0	18·2	59	..	0·8	..	0·4	0	0	6	0	0	1	0	0	0	4	1	24	0
Jamshedpur (P.B.O.)	0530	142	1014·9	998·1	..	14·5	13·7	13·2	15·2	91	..	1·1	..	1·1	0	0	7	0	0	0	0	0	3	1	3	23	0
	0830	,,	1016·7	1000.2	..	19·3	15·9	13·3	15·3	69	..	0·9	..	3·8	0	0	22	0	0	0	0	1	8	9	4	8	0
	1130	,,	1014·8	998·7	..	26·2	18·0	12·0	14·0	41	..	1·0	..	6·1	0	0	26	0	0	0	0	5	8	7	6	4	0
	1730	,,	1012·3	996·2	..	25·6	18·6	13·8	15·8	48	..	1·1	..	0·3	0	0	3	0	0	1	0	0	0	1	1	27	0
	2330		1014.8	998·2	..	17·1	15·5	13·4	16·4	84	..	0.1	..	0·9	0	0	6	0	0	0	0	0	2	3	1	24	0

(g) Mean of 24 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—*Contd.*																											
Chaibasa	0830	226	1016·2	990·1	+0·5	20·4	16·3	13·0	15·0	63	−11	1·1	−0·9	1·7	0	0	17	0	0	0	1	0	13	2	1	13	0
	1730	,,	1012·2	986·5	..	24·7	18·4	14·0	16·0	51	..	1·1	..	0·1	0	0	2	0	0	0	0	0	2	0	0	28	0
Bihar Plains																											
Motihari	0830	66	1015·8	1008·1	+0·1	22·6	10·1	16·9	19·3	70	−5	(f) 0·3	−0·4	(g) 1·5	0	0	8	0	0	1	0	0	2	0	4	16	1
	1730	,,	1010·9	1003·3	..	23·4	19·8	17·6	20·1	69	..	(f) 0	..	(g) 0·2	0	0	2	0	0	1	0	0	0	0	1	22	0
Forbesganj	0830	61	1015·4	1008·4	..	20·8	18·2	16·5	18·8	77	..	0·7	..	3·4	0	0	21	0	5	7	2	1	1	5	0	9	0
	1730	,,	1011·7	1004·8	..	24·1	19·6	15·8	19·1	64	..	0·9	..	1·1	0	0	8	0	0	1	0	0	0	7	0	22	0
Darbhanga	0830	49	1015·8	1010·1	0	23·2	18·2	14·8	16·8	62	−13	0	−1·0	1·4	0	0	12	0	0	1	1	1	2	2	5	18	0
	1730	,,	1012·2	1006·7	..	24·8	19·5	16·1	18·3	61	..	0	..	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
Chapra	0830	58	..	..	..	20·9	18·2	16·4	18·6	75	..	0	..	1·5	0	0	14	3	2	1	1	0	3	2	2	16	0
	1730	..	..	..	..	23·2	18·1	14·8	16·8	59	..	0	..	0·5	0	0	5	0	1	0	0	0	2	1	1	25	0
Purnea	0830	38	1016·2	1011·8	+0·2	21·2	17·8	15·5	17·6	70	−11	0·4	−0·6	3·4	0	0	21	1	1	2	0	2	9	6	0	9	0
	1730	,,	1012·4	1008·0	..	23·1	19·6	17·5	20·0	71	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Patna	0830	53	1015·8	1009·6	−0·4	20·0	15·8	12·6	14·6	62	−3	0·8	−0·3	5·5	0	0	28	0	0	0	0	2	17	6	3	2	0
	1730	,,	1012·4	1006·3	..	25·4	17·7	12·2	14·2	45	..	1·0	..	3·5	0	0	19	0	0	0	0	0	8	9	2	11	0
Patna Aerodrome	0530	60	1013·3	1006·2	..	14·5	13·5	12·7	14·7	88	..	0·5	..	1·0	0	0	10	1	0	0	0	2	4	3	0	20	0
	0830	,,	1015·6	1008·6	..	20·2	16·3	13·4	15·4	65	..	0·8	..	5·7	0	0	26	0	0	0	0	1	17	6	2	4	0
	1130	,,	1014·5	1007·7	..	26·3	18·7	13·4	15·4	46	..	0·8	..	6·9	0	0	30	2	1	1	1	0	7	12	5	0	1
	1730	,,	1012·1	1005·3	..	23·0	18·3	15·1	17·1	61	..	1·0	..	0·9	0	0	11	1	1	0	0	1	1	7	0	19	0
	2330	,,	1013·8	1006·8	.	16·7	15·2	14·0	16·0	85	..	0	..	0·7	0	0	6	0	0	0	0	1	1	3	1	24	0
Bhagalpur	0530	49	1013·9	1008·2	..	16·9	15·0	13·5	15·5	80	..	0·3	..	1·8	0	0	10	0	0	0	0	2	6	2	0	20	0
	0830	,,	1016·2	1010·5	+0·2	21·1	16·9	13·9	15·9	63	−5	0·5	−0·4	2·3	0	0	9	0	0	0	0	0	5	3	1	21	0
	1130	,,	1015·1	1009·5	..	25·3	18·7	14·1	16·1	50	..	0·8	..	5·7	0	0	22	3	5	0	1	0	3	10	5	8	0
	1730	,,	1012·5	1006·9	..	24·1	18·5	14·8	16·8	56	..	1·1	..	2·9	0	0	17	0	0	0	0	0	5	11	1	13	0
	2330	,,	1014·3	1008·6	..	19·4	16·7	14·8	16·9	73	..	(b) 0·2	..	(b) 2·3	0	0	9	0	0	0	0	0	8	1	0	20	0
Sabaur	0830	37	1015·9	1011·5	+0·5	20·2	17·3	15·3	17·4	72	−4	0·7	−0·7	3·7	0	0	28	1	0	0	3	3	8	12	0	2	0
	1730	,,	1012·2	1007·9	..	23·7	20·4	18·4	21·1	73	..	1·2	..	1·9	0	0	17	0	0	1	0	0	0	6	10	13	0
Jamui	0830	82	1017·4	1007·5	..	20·2	17·4	15·5	17·6	75	..	0	..	1·7	0	0	16	0	0	0	0	0	0	0	16	14	0
	1730	,,	1014·2	1004·4	..	23·9	20·0	17·7	20·2	68	..	0·1	..	1·4	0	0	13	0	0	0	0	0	0	0	13	17	0
Dehri	0830	107	1016·0	1003·5	..	20·5	16·2	12·9	14·9	62	..	0·4	..	3·7	0	0	30	0	0	0	5	6	16	3	0	0	0
	1730	,,	1012·3	1000·0	..	25·2	18·0	12·2	14·2	46	..	0·4	..	2·8	0	0	28	2	0	1	0	0	0	17	8	2	0
Gaya	0230	116	1014·1	1000·4	..	14·5	13·2	12·2	14·2	86	..	0	..	3·1	0	0	20	0	0	0	2	13	4	0	1	10	0
	0530	,,	1014·5	1000·8	..	13·2	12·2	11·3	13·4	88	..	0·5	..	3·6	0	0	20	0	0	0	5	11	4	0	0	10	0
	0830	,,	1016·5	1003·0	+0·5	19·7	15·9	13·1	15·1	65	+1	0·6	−0·6	5·0	0	0	27	0	0	0	0	6	19	1	1	3	0
	1130	,,	1015·4	1002·2	..	26·8	17·7	11·0	13·1	36	..	1·0	..	8·6	0	0	29	2	0	1	0	0	2		7	1	2
	1730	,,	1012·9	999·6	..	24·3	17·0	11·5	13·6	46	..	1·1	..	4·6	0	0	24	2	0	1	0	0	1	9	11	6	0
	2330	,,	1015·0	1001·3	..	16·0	14·0	12·4	14·4	79	..	0	..	2·1	0	0	14	0	0	0	3	8	3	0	0	16	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahr	0830	124	1015·4	1000·9	−0·2	18·1	15·2	12·9	14·9	73	0	2·0	+1·4	2·0	0	0	19	0	0	2	0	0	1	12	4	11	0
	1730	,,	1012·9	998·6	..	22·1	17·2	13·6	15·7	58	..	2·0	..	1·1	0	0	12	0	0	0	1	0	2	7	2	18	0
Nautanwa	0830	99	1014·1	1002·5	..	17·5	15·9	14·9	16·0	84	..	..	..	3·0	0	0	9	0	0	5	3	0	0	1	0	21	0
	1730	,,	1012·0	1000·5	..	24·3	19·3	15·7	17·8	58	..	..	..	0·2	0	0	2	0	0	0	0	0	1	1	0	28	0
Hardoi	0830	142	1016·0	999·2	+0·2	15·7	13·8	11·7	14·3	78	+3	1·7	+1·3	4·0	0	0	22	1	0	0	1	0	2	11	7	8	0
	1730	,,	1012·7	996·5	..	24·2	18·3	14·2	16·3	54	..	1·3	..	2·1	0	0	13	0	0	0	1	0	2	7	3	17	0
Gonda	0830	110	1015·6	1002·0	..	18·3	15·3	12·7	14·9	74	−1	1·6	+0·7	1·7	0	0	17	3	0	0	1	0	0	6	7	13	0
	1730	,,	1012·7	1000·1	..	23·0	17·6	14·0	15·8	57	..	0·2	..	0·2	0	0	2	0	0	0	0	0	0	2	0	28	0
Lucknow	0830	111	1014·9	1001·9	−1·0	17·1	14·3	11·8	14·0	72	+2	1·4	+0·6	2·2	0	0	21	0	0	0	1	0	9	6	5	9	0
	1730	,,	1012·4	999·7	..	24·1	18·2	14·0	16·1	53	..	1·0	..	2·1	0	0	21	0	1	0	0	0	7	2	11	9	0
Lucknow (Amausi)	0230	128	1013·7	998·5	..	13·5	11·9	10·2	12·6	81	..	0·6	..	7·0	0	0	25	0	2	0	1	1	0	16	5	5	0
	0530	,,	1014·0	998·7	..	11·9	10·7	9·4	11·9	85	..	0·7	..	6·6	0	0	27	1	2	0	1	1	4	14	4	3	0
	0830	,,	1015·8	1000·8	−0·3	17·8	13·9	10·3	12·5	62	+4	1·7	+0·9	8·5	0	1	27	3	1	1	1	0	4	13	5	2	0
	1130	,,	1015·2	1000·6	..	25·6	16·5	8·8	11·4	35	..	1·5	..	11·8	0	11	18	2	0	0	1	2	2	10	12	1	0
	1730	,,	1012·8	998·1	..	23·1	16·3	10·6	13·0	47	..	1·8	..	8·1	0	0	29	2	1	1	0	0	0	16	9	1	0
	2330	,,	1014·6	998·5	..	14·5	12·3	10·2	12·5	75	..	0·5	..	5·9	0	0	22	1	2	1	0	0	2	14	2	8	0
Faizabad	0830	102	1015·7	1003·7	..	17·5	15·1	13·4	15·2	78	..	1·8	..	2·2	0	0	19	0	0	0	1	0	3	15	0	11	0
	1730	,,	1012·6	1000·8	..	22·1	18·4	15·2	18·1	67	..	1·7	..	0·2	0	0	2	0	0	0	0	0	0	2	0	28	1
Gorakhpur	0830	77	1014.7	1005·6	−1·1	20·6	16·5	13.4	15.5	64	−9	1·1	+0.5	2·6	0	0	19	0	1	2	0	1	1	12	2	11	0
	1730	,,	1011·4	1002.5	..	25.4	18·7	14·1	16·1	50	..	1.2	..	1·5	0	0	11	0	1	1	0	0	1	8	0	19	0
Gorakhpur (PBO)	0230	78	1012.8	1003·8	−1·1	17.9	15.1	13.2	14.9	75	..	0.2	..	1.7	0	0	14	2	2	0	0	0	3	5	2	16	0

(R) Register not received (f) Mean of 25 days. (b) Mean o 29 days. (g) Mean of 24 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —*contd.*																											
Gorakhpur (P.B.O.). —*contd.*	0530	78	1013·4	1004·2	..	16·9	14·7	13·2	15·0	79	..	0·6	..	2·2	0	0	13	1	2	0	0	0	3	5	2	17	0
	1130	,,	1014·9	1006·0	..	24·9	18·0	13·9	15·1	51	..	1·3	..	5·2	0	0	28	0	2	0	2	5	7	11	1	2	0
	2330	,,	1014·1	1005·0	.	19·3	16·0	13·8	15·6	71	..	0·3	..	2·1	0	0	12	0	1	0	0	1	3	5	2	18	0
Kanpur . . .	0830	126	1017·2	1002·4	+1·1	16·7	13·1	9·7	12·0	64	−3	1·0	+0·5	2·7	0	0	22	0	0	1	2	0	1	15	3	8	0
	1730	,,	1014·0	999·6	..	25·7	16·6	9·0	11·5	36	..	0·7	..	2·7	0	0	23	0	1	0	0	0	0	13	9	7	0
Kanpur (Aerodrome)	0530	126	1014·4	999·5	..	13·0	10·8	8·5	11·1	75	..	0·8	..	4·4	0	0	13	1	2	0	0	0	2	4	4	17	0
	0830	,,	1016·2	1001·5	.	17·9	13·4	9·1	11·7	57	..	1·9	..	6·8	0	0	25	0	0	0	1	0	5	13	6	5	0
	1130	,,	1015·6	1001·3	..	26·2	16·4	7·9	10·7	31	..	1·4	..	9·5	0	1	28	2	0	1	2	1	6	6	11	1	0
	1730	,,	1012·9	993·5	..	25·0	16·2	8·4	11·2	36	..	1·6	..	4·9	0	0	19	1	1	0	0	0	0	4	13	11	0
	2330	,,	1014·9	1000·2	..	16·3	12·7	9·2	11·8	63	..	0·3	..	2·2	0	0	10	0	1	0	1	0	2	3	3	20	0
Sultanpur . .	0830	97	1016·0	1004·7	.	20·1	15·6	12·2	14·1	61	..	1·4	..	2·8	0	0	28	0	3	2	1	0	4	11	7	2	0
	1730	,,	1012·4	1001·3	..	25·2	18·2	13·0	15·1	47	..	1·7	..	1·4	0	0	15	0	0	0	0	0	1	9	5	15	0
Azamgarh .	0330	78	1015·3	1006·2	..	18·2	15·2	12·8	14·9	71	..	0·5	..	5·5	0	0	30	0	0	1	0	0	0	28	0	0	1
	1730		1012·4	1003·4	..	23·9	18·5	14·7	16·9	57	..	0·5	..	1·0	0	0	8	0	0	0	0	0	0	8	0	22	0
Faizabad . .	0830	114	1016·6	1003·2	..	18·2	14·2	10·8	12·9	62	+2	1·1	+0·1	5·3	0	0	30	0	1	2	0	0	4	17	6	0	0
	1730	,,	1013·0	1000·0	..	23·9	18·0	15·7	15·9	53	..	1·0	..	1·7	0	0	13	0	1	2	0	1	0	2	7	17	0
Ballia . . .	0830	64	1015·6	1007·5	..	20·9	16·3	13·2	14·7	64	..	1·5	..	0·3	0	0	3	0	0	0	0	0	0	3	0	27	0
	1730	,,	1012·1	1005·3	..	25·4	21·4	18·3	21·0	66	..	1·2	..	0·2	0	0	2	0	0	0	0	0	0	2	0	28	0
Banda . .	0830	121	1017·4	1003·2	..	17·6	13·1	8·7	11·2	55	..	2·5	..	2·0	0	0	30	0	1	0	4	0	17	0	8	0	0
	1730	,,	1013·6	999·9	.	26·7	17·4	10·1	12·4	36	..	0·7	..	2·0	0	0	30	0	2	0	2	0	6	1	19	0	0
Allahabad (Bamrhauli)	0230	93	1014·0	1002·4	..	14·9	12·7	10·6	12·9	76	..	0·6	..	0·8	0	0	7	0	1	0	0	0	2	3	1	23	0
	0530	,,	1014·5	1002·8	..	13·7	11·9	10·2	12·3	80	..	0·8	..	1·3	0	0	12	1	0	0	0	1	4	4	2	18	0
	0830	,,	1016·6	1005·1	+0·4	19·1	14·5	10·4	12·8	58	−9	1·6	+0·5	3·4	0	0	22	1	0	0	1	0	1	15	4	8	0
	1130	,,	1015·7	1004·6	..	27·3	17·5	9·9	11·8	34	..	1·3	..	4·9	0	0	27	3	0	0	0	1	2	14	7	3	0
	1730	,,	1013·2	1002·0	..	24·8	17·8	12·5	14·7	48	.	1·6	..	0·6	0	0	6	0	0	0	0	0	0	5	1	24	0
	2330	,,	1015·0	1003·5	..	16·2	13·4	11·0	13·1	72	..	0·6	..	0·5	0	0	6	0	0	0	0	0	3	1	2	24	0
Varanasi (Babatpur)	0530	85	1015·1	1004·9	..	15·8	13·2	10·9	13·0	72	..	0·8	..	6·0	0	0	27	0	0	0	0	5	20	1	1	3	0
	0830	,,	1017·1	1007·1	+0·3	19·0	15·9	13·4	15·4	70	+7	1·5	+0·8	9·0	0	0	28	0	0	0	0	0	18	7	3	2	0
	1130	,,	1016·2	1006·5	..	25·9	16·7	8·9	11·4	35	..	1·5	..	11·5	0	0	29	0	1	0	2	1	13	7	4	1	1
	1730	,,	1013·8	1003·9	..	23·4	18·1	14·4	16·4	57	..	1·2	..	5·8	0	0	27	0	0	1	0	2	6	14	4	3	0
	2330	,,	1015·5	1005·4	..	18·4	14·2	10·4	12·8	60	..	0·1	..	4·6	0	0	26	0	1	0	0	4	14	6	1	4	0
Varanasi . .	0830	76	1016·7	1007·8	+0·6	19·4	14·7	10·8	12·9	59	−9	1·4	+0·4	2·5	0	0	28	1	0	0	0	0	6	20	1	2	0
	1730	,,	1012·5	1003·9	..	25·3	18·4	13·8	15·6	51	..	1·5	..	1·2	0	0	18	0	0	0	0	0	4	13	1	12	0
Uttar Pradesh (West)																											
Mukhim . . (R)	0830																										
(R)	1730																										
Tehri . . (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun . .	0530	682	1016·2	937·1	..	10·9	9·0	7·1	9·9	79	..	1·4	..	2·1	0	0	24	4	15	0	0	0	0	3	2	6	0
	0830	,,	1016·2	938·3	0	15·2	11·5	8·1	10·7	64	−8	1·8	+0·7	1·9	0	0	17	5	6	0	0	1	0	4	1	13	0
	1130	,,	1014·9	938·7	..	21·5	14·1	7·9	10·1	43	..	2·0	..	2·7	0	0	29	1	1	1	5	5	7	7	2	1	0
	1730	,,	1013·2	936·5	..	19·3	15·0	11·8	13·8	62	..	2·3	..	0·8	0	0	8	2	0	0	0	1	1	3	1	22	0
	2330	,,	1015·8	937·7	..	14·0	10·9	8·1	10·6	68	..	1·1	..	2·7	0	0	28	13	11	1	0	0	1	2	0	2	0
Mussoorie . (R)	0830																										
(R)	1730																										
Roorkee . . .	0830	274	1016·3	984·1	−0·1	14·1	11·8	9·7	12·0	75	−1	2·1	+1·4	0·9	0	0	13	0	2	0	3	0	1	0	7	17	0
	1730	,,	1013·1	982·2	..	22·6	15·6	9·2	12·0	45	..	2·6	..	0·9	0	0	14	0	2	0	2	0	0	0	10	16	0
Najibabad . .	0830	270	1016·5	984·6	..	12·9	11·3	9·[illegible]	12·1	82	..	2·1	..	0·9	0	0	14	0	5	0	0	0	1	1	7	16	0
	1730	,,	1013·7	983·1	..	23·2	16·6	11·3	13·6	52	..	2·0	..	1·4	0	0	15	0	1	0	1	0	3	3	7	15	0
Meerut . . .	0830	222	1016·5	990·6	+0·5	17·2	14·0	11·2	13·4	70	+1	0·4	−0·2	8·0	0	1	26	1	2	2	0	0	5	10	7	3	0
Bareilly . . .	0830	173	1016·0	995·7	..	17·3	14·1	11·5	13·6	69	−5	1·6	+0·9	2·9	0	0	18	1	0	0	0	1	2	6	8	12	0
	1730	,,	1012·4	992·6	..	22·5	16·7	12·3	14·3	53	..	2·2	..	0·1	0	0	2	0	0	0	0	0	0	1	1	28	0
Bareilly P.B.O. .	0230	272	1013·7	993·5	..	16·0	12·8	10·3	12·2	69	..	0·8	..	2·9	0	0	20	0	4	2	0	0	0	7	7	10	0
	0530	,,	1015·2	995·4	..	22·4	16·1	11·7	13·7	52	..	1·9	..	5·7	0	0	28	0	2	0	2	0	4	6	14	2	0
	1130	,,	1013·8	993·5	..	14·5	11·8	9·8	11·7	74	..	2·2	..	2·8	0	0	21	1	1	1	1	0	0	13	4	9	0
	2330	,,	1014·5	994·4	..	17·5	13·3	10·1	11·9	62	..	0·7	..	2·9	0	0	21	0	2	3	0	0	0	8	8	9	0
Aligarh . .	0830	187	1016·3	994·5	..	16·4	12·2	8·1	10·8	58	+8	1·9	+1·3	2·0	0	0	25	2	0	2	0	0	0	19	2	5	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure rom normal.	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Uttar Pradesh (West)—*contd.*																										
Aligarh—*contd.*	1730	187	1013·3	991·9	..	24·9	16·0	7·6	10·9	35	..	2·2	..	1·8	0	0	26	9	0	0	1	1	0	12	3	4
Mainpuri	0830	157	1016·2	997·9	+0·2	16·9	13·0	9·4	11·8	62	+1	0·5	−0·3	10·3	0	0	13	2	0	0	0	1	2	2	6	17
	1730	,,	1013·4	995·1	..	24·7	16·8	10·4	12·6	42	..	0·4	..	0·5	0	0	5	0	0	0	0	1	2	1	1	25
Agra	0830	169	1017·1	997·3	+0.7	16·6	12·1	7·6	10·5	56	+2	0·3	−0.5	0·0	0	0	0	0	0	0	0	0	0	0	0	30
	1730	,,	1013·5	994·2	..	24·2	16·8	11·0	13·1	44	..	1·0	..	0	0	0	0	0	0	0	0	0	0	0	0	30
Agra (Aerodrome)	0530	169	1015·4	995·3	..	11·7	10·0	7·7	10·5	76	..	0.7	..	2·3	0	0	10	1	0	0	1	0	0	0	8	20
	0830	,,	1017·1	997·2	..	16·4	12·4	7·8	11·2	59	..	1·8	..	4.8	0	1	20	1	0	1	1	0	0	1	17	9
	1130	,,	1016·4	997·2	..	25·4	16·2	5 9	9·3	33	..	1·8	..	10·6	0	0	27	2	0	0	2	0	1	0	22	3
	1730	,,	1013·5	994·2	..	23·6	15·9	9·3	10·3	39	..	1·8	..	4·1	0	0	18	3	0	1	1	0	0	0	13	12
	2330	,,	1016·4	995·8	..	14·7	11·8	8·9	11·4	68	..	0·7	..	2·2	0	0	10	1	0	1	0	1	0	0	7	20
Orai	0830	141	1019·2	1002·8	..	21·5	15·1	9·5	11·9	47	..	0·9	..	2·3	0	0	29	1	8	0	4	1	9	1	5	1
	1730	,,	1013·6	997·6	..	27·6	17·8	9·8	12·4	34	..	0·5	..	2·2	0	0	30	1	1	0	1	0	1	1	25	0
Jhansi	0830	251	1017·1	988·3	+0·6	21·3	17·0	13·7	15·9	61	+10	1·2	+0·4	0·1	0	0	2	0	0	0	0	0	0	2	0	28
	1730	,,	1013·5	985·2	..	27·2	20·1	15 0	17·7	49	..	1·3	..	0·6	0	0	9	4	1	0	1	0	0	0	3	21
Punjab (India) including Delhi																										
Pathankot	0530	312	1015·9	979·1	..	11·7	9·8	7·9	10·6	79	..	1·4	..	2·3	0	0	8	1	2	2	0	1	2	0	0	22
	0830	,,	1017 1	980·6	+0·9	14·5	11·5	8·5	11·2	68	+8	1·4	−0·5	2·1	0	0	11	0	4	2	1	1	1	1	1	19
	1130	,,	1016·7	980·8	..	21·4	14·6	8·5	11·1	45	..	1·8	..	4·0	0	0	21	2	0	3	2	4	6	2	2	9
	1730	,,	1014·1	978·5	..	21·3	14·8	9·0	11·6	47	..	1·7	..	2·2	0	0	18	3	2	1	0	0	4	4	4	12
Amritsar (Rajasansi)	0530	234	1016·1	988·0	..	9·8	8·9	7·9	10·7	88	..	1·1	..	6·7	0	0	20	2	3	4	0	0	1	2	9	9
	0830	,,	1017 5	989·6	+0·7	12·6	10·8	9·1	11·5	79	+1	1·2	−0·1	4·5	0	0	20	2	4	3	0	0	1	1	9	10
	1130	,,	1017 1	990·1	..	21·7	14·8	8·5	11·2	45	..	1·3	..	8·2	0	1	23	5	1	2	2	1	1	0	12	6
	1730	,,	1014·4	987·5	..	21·3	14·7	8·9	11·2	46	..	1·2	..	7·4	0	0	26	1	1	2	0	0	0	5	17	4
Adampur (Aerodrome)	*0530	238																								
	0830	,,	1015·8	987·8	..	12·2	10·9	9·5	12·0	86	..	1·6	..	3·7	0	1	18	5	1	3	1	1	0	3	5	11
	*1130	,,																								
	1730	,,	1013·1	985·8	..	19·9	15·9	13.5	14·9	67	..	1·8	..	7·1	0	1	27	1	0	0	1	1	0	3	22	2
	*2330	,,																								
Ludhiana	0830	247	1017·0	987·9	+0·6	13·7	11·4	9·0	11·7	74	+10	1·5	+0·5	0·3	0	0	3	0	1	1	0	0	0	0	1	27
	1730	,,	1014 0	985·9	..	22·1	16·9	13.0	15·1	58	..	1·5	..	1·9	0	0	22	2	0	1	1	1	0	3	14	8
Ferozepore	0830	200	1016·3	992·6	..	13·2	12·6	12·0	14·1	92	..	0·9	..	0·6	0	0	9	3	1	0	0	0	0	0	5	21
	1730	,,	1014·2	990·9	..	23·8	17·8	13·4	15.5	54	..	0·9	..	0·9	0	0	13	4	1	0	0	0	0	0	8	17
Halwara (Aerodrome)	0830	242	1017·4	988·8	..	13·5	12·0	10·7	12·8	83	..	1·5	..	5·5	0	0	26	3	1	3	3	1	1	2	12	4
	1730	,,	1014·9	987·1	..	21·1	15.6	11·1	13·3	53	..	1·6	..	9·4	0	0	29	5	0	1	2	0	0	0	21	1
Chandigarh	0830	347	1016·2	975·8	+0·2	16·5	12·1	7·9	10·7	60	+2	0·8	+0·4	2·1	0	0	14	0	2	0	1	0	4	0	7	16
	1730	,,	1012·7	973·3	..	22·9	14·4	6·8	9.9	37	..	1·8	..	4·5	0	0	27	0	0	0	7	0	12	0	8	3
Ambala	0830	272	1016·4	984.7	+0·5	16·7	12·7	8.9	11·5	61	−2	0·6	−0·4	2·6	0	0	18	0	5	1	4	0	0	1	7	12
	1730	,,	1013.1	982·0	..	22·2	15·3	9·2	11·9	45	.	0·9	..	2·7	0	0	22	1	3	0	12	0	1	1	4	8
Ambala (P.P.O.)	0230	278	1014·7	982·1	..	14·9	11.6	8.9	11·0	68	..	0·9	..	8·5	0	2	21	1	1	1	2	0	0	0	18	7
	0530	,,	1014 6	981·7	..	13·4	10·8	8·5	10·9	73	.	0·8	..	8·9	0	0	25	1	0	1	2	0	1	1	19	5
	1130	,,	1016·0	984·1	..	22.3	15·2	9.9	12·2	47	..	1·5	..	10·9	0	1	28	1	3	0	2	1	0	0	22	1
	2330	,,	1015·3	982·9	..	16·6	12.4	9·2	11·1	62	..	1·0	..	9·7	0	0	26	2	1	2	0	1	0	0	20	4
	0530	274	1014 9	982·3	..	10·3	9.2	8·6	10·7	89	..	1·0	..	6·8	0	0	17	0	0	1	0	1	0	4	11	13
	0830	,,	1016·2	983.9	..	13·9	11·4	9·0	10·4	73	..	1·5	..	7·9	0	2	17	0	0	1	1	0	0	5	12	11
	1130	,,	1015·8	984·4	..	23.2	15·0	8·1	10·4	40	..	1·7	..	15·3	0	5	22	1	0	2	1	0	0	7	16	3
	1730		1013·1	981·7	..	21·4	14·2	7·2	10·4	42	..	1·9	..	11.6	0	4	19	1	0	1	0	1	2	9	9	7
	2330	,,	1015·7	983·3	..	13·4	11·0	8·6	11·2	74	..	0·9	..	8.2	0	0	22	0	0	2	0	0	0	7	13	8
Patiola	0830	251	1016.5	987.1	..	15·8	12·5	9.3	11·9	66	..	1·7	..	7 2	0	0	26	2	1	0	3	0	0	1	19	0
	1730	,,	1014 0	985.2	..	20·9	15·7	11.5	13.6	56	.	1.3	..	2·4	0	0	11	0	0	0	0	0	0	0	11	0
Bhatinda	0830	211	1017·0	992·2	..	17·4	15·0	12.7	7.6	75	..	0.7	..	2·0	0	0	10	0	2	3	0	0	0	0	5	20
	1730	,,	1014·0	989.8	..	24·0	19.3	16.3	18.2	64	..	0·6	..	1·5	0	0	14	1	0	0	0	1	0	2	10	16
Karnal	0830	249	1014·5	985.7	..	16.8	13.1	8·6	11·9	57	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1012·6	984·7	..	22·5	16.0	9·9	13·0	47	..	0·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hisar	0530	221	1015 8	989·6	..	11·6	10.1	8·6	11·2	82	..	0·8	..	4.7	0	0	27	0	0	1	2	5	6	10	3	3
	0830	,,	1017.7	991·6	+1·0	14·4	11·6	8·8	11·4	70	+16	1.5	+0·9	3.6	0	0	29	2	0	2	1	5	12	7	0	1
	1130	,,	1017·0	991·9	..	24·3	17·1	11·3	13.7	45	..	1.3	..	4.6	0	0	24	1	1	0	1	3	5	5	8	6
	1730	,,	1014·6	989·0	..	23.2	16·9	11.5	14.1	50	..	1·7	..	3.5	0	0	26	7	1	1	0	0	0	8	9	4
	2330	,,	1016·3	990·3	..	14.7	12.0	9.7	11.9	71	..	0·6	..	4.0	0	0	27	3	2	4	2	2	1	9	4	3

*Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. or nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) including Delhi—*Contd.*																											
New Delhi (Safdarjang)	0230	216	1015·0	989·5	..	15·2	11·6	8·7	10·8	65	..	0·9	..	4.6	0	0	20	0	0	1	1	0	1	7	0	10	0
	0530	"	1015.2	989·6	..	13·6	10·7	7·7	10·7	68	..	1·2	..	8·6	0	0	22	1	0	1	0	0	3	9	8	8	0
	0830	"	1017.0	991·6	+0·8	16·0	11·9	7·7	10·5	59	+9	2·0	+1·4	9·2	0	0	28	0	0	0	2	1	2	15	8	2	0
	1130	,,	1016.3	991·6	..	24·5	15·7	7·7	10·7	35	..	1·6	..	14·3	0	7	22	1	0	1	1	2	0	5	19	1	0
	1730	,,	1013.5	988·8	..	24.7	15·7	7·5	10·5	35	..	1·9	..	7·9	0	0	26	1	1	1	0	0	0	4	19	4	0
	2330	"	1015·8	990·5	..	16.7	12·5	8·2	11·1	56	..	1·0	..	5·6	0	0	20	2	1	0	1	0	0	5	11	10	0
Palam Arodrome	0230	233	1015.3	987·7	..	13·3	10·1	6·7	9·8	65	..	1·2	..	6·0	0	1	25	2	2	1	3	2	5	7	4	4	0
	0530	,,	1015·2	987·4	..	11·3	8·9	6·3	9·5	72	..	1·3	..	6·3	0	0	27	0	2	2	1	2	13	5	2	3	0
	0830	"	1017.0	989·7	..	15·1	11·8	7·3	10·4	61	..	1·9	..	8·1	0	0	29	0	0	0	1	2	11	13	2	1	0
	1130	,,	1016·3	989·8	..	24·7	15·5	7·4	10·2	33	..	1·5	..	15·1	0	5	25	4	0	1	1	1	1	6	16	0	0
	1430	,,	1013·0	987·3	..	27·2	15·9	5·0	8·9	25	..	1·6	..	1·9	0	15	15	6	1	1	0	0	0	2	20	0	0
	1730	,,	1013.5	987.0	..	23.2	14.6	5·7	9 7	33	..	1.7	..	9.6	0	0	30	5	3	2	0	0	0	2	18	0	0
	2030	,,	1015.4	988.3	..	18.0	12.5	7.0	10·1	49	..	1.2	..	5.6	0	0	26	4	3	2	1	0	0	8	8	4	0
	2330	,,	1015.9	988.5	..	15.3	10.8	6.6	9.3	56	..	1.5	..	5.3	0	0	24	0	1	3	3	0	3	3	11	6	0
Himachal Pradesh																											
Mandi	0830	761	1018.2	931.0	−0.2	8.4	7.6	7.1	9.8	89	−4	1.2	−0·9	0	0	0	1	0	0	0	0	1	0	0	0	29	0
	1730	,,	1013.4	928.0	..	17.0	13.1	9.4	11.8	61	..	1.9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Bilaspur	0830	493	1018.6	959.5	..	12.0	10.8	8.7	12.9	81	..	0.7	..	0·5	0	0	3	0	0	0	1	0	1	0	1	27	0
	1730	,,	1013.3	948.0	..	23.5	15.7	8·5	11·4	42	..	0.6	..	0·4	0	0	3	1	0	0	0	0	1	0	1	27	0
Jammu and Kashmir																											
Missar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skradu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3127·8	666·8	..	−6·6	[illegible]	[illegible]	1·7	45	..	2·3	..	5·4	0	0	23	6	16	0	0	0	1	0	0	7	0
	0830	,,	3137·6	667·9	−0·9	−4·6	−6·0	−13·3	1·9	46	−10	2·3	−0·3	1·8	0	0	9	0	3	0	0	5	1	0	0	21	0
	1730	,,	3100·7	665·5	..	1·4	−2·8	−9·6	2·6	44	..	3·0	..	6·3	0	0	27	1	0	1	1	10	11	3	0	3	0
Srinagar	0830	1587	1562.6	847·6	+1·3	3.5	2.5	1.2	6.7	85	+1	4·7	+2·5	2·5	0	0	17	1	0	6	7	0	0	1	2	13	0
	1130	,,	1563·0	847·7	..	8.6	5·0	1·0	6·6	61	..	4.5	..	2·7	0	0	19	2	0	0	11	0	0	2	4	11	0
	1730	,,	1538.2	845·2		8·7	5·3	1.3	6·7	61	..	4.4	..	2·7	0	0	17	1	1	1	5	0	1	4	4	13	0
Srinagar (Aerodrome)	0530	1666	1532·7	837·8	..	2·6	1·5	−1·0	5·9	77	..	4·0		1·7	0	0	6	0	0	0	2	1	1	1	1	24	0
	0830	,,	1554·6	839.1	..	3·6	2·1	0·2	6·2	75	..	4·7	..	2·6	0	0	13	3	0	0	2	4	0	1	3	17	0
	1130	"	1555·7	839·4	..	7·6	4·2	1·6	6·4	62	..	4·0	..	3.2	0	0	13	9	4	3	0	2	0	2	2	17	0
	1730	,,	1532·0	836·0	..	8·3	4.5	−0·2	5·8	60	..	4.5	..	3·8	0	0	16	1	2	4	3	1	1	0	4	14	0
	2330	,,	1548·3	833·4	..	5·9	2·1	−0·2	5·8	76	..	3.4	..	1·8	0	0	7	0	1	0	1	0	0	2	3	23	0
Gulmarg	0830	..							Closed	during	winter	months															
	1730	..																									
Banihal	0830	..	..	..	..	4·2	2·7	0 3	6·1	72	..	2·5	..	2·7	0	2	3	0	0	0	0	0	0	1	4	25	0
	1730	..	..	..	..	10 4	5·7	0·2	6·7	52	..	2·7	..	2·8	0	1	7	1	0	1	0	0	1	0	5	22	0
Jammu	1830	..	..	..	..	13·3	9·0	4·1	8·5	55	−1	..	..	6·3	0	0	30	13	12	0	1	2	1	0	1	0	0
Jammu (Aerodrome)	0530	292	1015·9	981 2	..	12·9	10·1	7·1	10·1	69	..	1·2	..	5·2	0	0	16	2	10	3	0	0	0	0	1	14	0
	0830	,,	1017·1	982·5	..	14·2	10.8	7·2	10·4	64	..	1·7	..	6·0	0	0	27	1	14	9	0	1	0	1	1	3	0
	1130	,,	1016·9	983·1	..	21·0	14·2	7·7	10.6	44	..	2·1	..	3·8	0	0	21	5	4	3	1	2	1	3	2	9	0
	1730	"	1014·1	980·5	..	21·1	15·2	9·9	12·8	50	..	1·9	..	3·0	0	0	17	2	0	1	0	1	0	11	2	13	0
	2330	,,	1016·5	982·0	..	14·8	11·5	8·2	10·8	65	..	0.6	..	3·5	0	0	13	0	9	1	1	0	0	0	2	17	0
Rajasthan (West)																											
Ganganagar	0530	177	1016·1	995·1	..	12·1	10·5	8·6	11·4	77	..	0·6	..	0·5	0	0	2	0	0	0	1	0	0	0	1	28	0
	0830	"	1017·3	996·3	+1·1	13·0	10·4	7·7	10·5	70	+7	0·9	+0.2	1·3	0	0	16	0	4	3	5	1	1	0	2	14	0
	1130	"	1017·1	996·8	..	23.9	15·6	7·9	11·0	38	..	0·7	..	2·3	0	0	22	2	2	1	4	2	3	2	5	8	1
	1730	"	1014·0	993·9	..	24·8	17·3	11·5	13·7	44	..	1·3	..	0·9	0	0	7	4	0	0	1	0	0	1	1	23	0
	2330	,,	1016·2	995·3	..	15·1	12·0	9·0	11·5	67	..	0·5	..	0·8	0	0	8	2	4	1	0	0	0	0	1	22	0
Anupgarh (R)	0830	177																									
(R)	1730	,,																									
Mahajan	0830	187	1015·4	993·5	..	16·0	12·2	8·6	11·2	61	..	1·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1012·6	991·3	..	25·9	17·1	10·1	12·3	36	..	1·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Churu	0830	291	1017.9	983·6	..	14·6	11·0	6·7	10·2	62	..	1·6	..	3.1	0	0	16	2	0	2	1	5	4	2	0	14	0
	1730	,,	1013·7	980·8	..	26.0	17·6	10·1	13·3	40	..	1·9	..	4·7	0	0	26	13	5	1	0	1	0	1	5	4	0
Bikaner	0830	224	1017·4	991·0	+1·1	15·3	9.7	2·2	7.6	44	−1	0	−1·0	2.8	0	0	24	1	2	2	13	2	3	0	1	6	0
	1730	"	1013·4	988·1	..	26·9	15·4	3·0	8·2	23	..	0·7	..	3·5	0	0	29	11	6	0	1	1	1	1	8	1	0

R ister not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed per hour Km	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Rajasthan (West) —*contd.*																										
Bikaner (PBO)	0530	224	1015·7	989·0	..	12·0	8.6	4.4	8·5	61	..	1·0	..	1.1	0	0	5	1	1	0	0	0	1	0	2	25
	1130	,,	1016·5	991·0	..	25·8	15·4	5·3	9·1	28	..	1·5	..	3.2	0	0	19	1	4	1	4	1	4	3	1	11
	2330	,,	1016.0	989·6	..	16·1	10·9	4·8	8.9	49	..	0·6	..	1·1	0	0	8	1	3	0	0	1	0	0	3	22
Nagaur	0830	298	1016.6	982·7	..	19·2	15·0	11.7	13·6	60	..	1·5	..	4·1	0	0	28	5	8	4	2	2	6	1	0	2
	1730	,,	1013·0	979.2	..	27·0	22·1	19·2	22.5	62	..	1·9	..	5·0	0	0	30	8	5	4	0	2	3	3	5	0
Phalodi	0830	234	1017·4	989·9	..	15·6	11 8	7·7	10·9	61	..	1.5	..	7·8	0	0	29	3	2	1	2	7	9	5	0	1
	1730	,,	1014·2	987·8	..	28·4	20·4	14·8	17·5	43	..	2·1	..	10·0	0	3	27	4	5	2	0	4	7	5	3	0
Jaisalmer	0830	242	1016·6	988·1	..	17·4	10·9	2·5	7·3	40	..	1·3	..	5·7	0	2	12	5	4	1	1	3	0	0	0	16
	1730	,,	1012·5	985·7	..	27·8	14·5	0·2	5.8	17	..	1.9	..	6·5	0	2	26	11	5	0	0	4	4	3	1	2
Jodhpur	0230	224	1015·1	988·9	..	17·7	11·0	2·6	7·7	38	..	1·0	..	8 7	0	0	26	5	18	0	0	1	0	2	0	4
	0530	,,	1015·2	988·9	..	16·1	10·2	2·6	7·7	42	..	1·5	..	7·8	0	0	23	6	16	0	0	0	0	1	0	7
	0830	,,	1017·0	990.7	+2·0	17·3	11·0	3·5	8·1	42	0	1·8	+0·8	7·7	0	0	24	2	20	2	0	0	0	0	0	6
	1130	,,	1016·5	990·9	..	25·9	15·1	3·6	8·5	25	..	1·8	..	9·8	0	5	21	1	14	3	2	1	1	3	1	4
	1730	,,	1013 0	987·8	..	28·6	16·3	4·2	8·5	22	..	2·4	..	6 3	0	0	22	3	8	2	0	0	2	5	2	8
	2330	,,	1015·6	989·6	..	19·6	11·9	2·2	7·6	34	..	1·1	..	0 8	0	0	25	6	14	1	0	0	2	1	1	5
Barmer	0530	194	1014.6	991.9	..	18.0	11.7	4.6	8.7	43	..	1.1	..	1 3	0	0	14	1	0	0	0	0	0	1	12	16
	0830	,,	1016.5	993.8	+1.2	(b) 18.5	(b) 11.8	5.4	8.4	44	−5	(b) 1.9	+0.8	(b) 2.5	0	0	24	6	1	0	0	2	0	0	15	5
	1130	,,	1016.1	994.0	..	26.9	15.8	4.9	9.0	26	..	1.8	..	3.0	0	0	27	9	7	2	1	2	0	1	5	3
	†1730	,,	1012.3	990.5	..	29.2	16.6	4.0	8.7	21	..	1.6	..	1.6	0	0	19	4	2	1	1	1	0	2	8	10
	2330	,,	1015.1	992.7	..	21.3	12.8	3.2	8.0	31	..	0.7	..	2.3	0	0	23	0	0	0	0	0	3	3	17	7
Munabao	*0830	80	1016·5	1007·1	..	15.8	10·5	3·1	7·6	47	..	2·0	..	0·6	0	0	12	1	9	0	0	0	1	0	0	6
	**1730	,,	1013·7	1005·2	..	27·3	16·1	5·0	9·0	25	..	1·6	..	4·3	0	0	16	2	6	0	0	1	5	0	2	3
Rajasthan (East)																										
Pilani	0830	301	1017·6	982·5	..	17·3	11·8	6·0	8·8	49	..	0·5	..	7·3	0	0	29	4	2	2	1	5	12	0	3	1
	1730	,,	1014·0	979·7	..	23·1	14·7	6·6	9·9	35	..	1·1	..	6·3	0	0	30	13	4	2	0	0	0	3	8	0
Sikar	0830	433	1017·5	968·1	..	19·6	14·3	9·6	11·9	53	..	0·7	..	0·8	0	0	8	0	0	3	1	1	1	2	0	22
	1730	,,	1013·5	965·2	..	22·4	17·6	12·3	14·3	45	..	1·3	..	0·2	0	0	2	1	0	0	0	0	0	1	0	28
Alwar	0830	271	1015·9	984·3	..	16·6	14·2	11·9	14·3	72	..	1·8	..	0·3	0	0	3	3	0	0	0	0	0	0	0	27
	1730	,,	1013·2	982·4	..	24·6	18·9	15·1	17·1	56	..	2·0	..	0·8	0	0	8	2	0	1	0	0	0	0	5	22
Jaipur (Sanganer)	0230	390	1015·0	969·6	..	15·1	10·3	4·7	8·7	51	..	1.0	..	4·3	0	0	24	12	6	3	2	0	0	0	1	6
	0530	,,	1015·3	969·7	..	14·1	9·7	4·3	8·5	53	..	1·1	..	3·8	0	0	21	9	7	3	1	0	0	0	1	9
	0830	,,	1016·7	971·7	0	18·2	12·1	5·6	9·2	45	−2	1·8	+1·1	2·7	0	0	15	4	2	4	1	1	0	0	3	15
	1130	,,	1015·7	971·9	..	26·0	14·7	3·1	7·6	23	..	1·4	..	6·6	0	0	28	1	2	3	6	2	3	4	7	2
	1730	,,	1012·9	969·0	..	24·9	14·7	4·4	8·5	27	..	2·0	..	3·5	0	0	23	4	1	2	2	2	0	2	10	7
	2330	,,	1015·8	970·6	..	16·3	10·9	4·8	8·7	47	..	1·1	..	2·7	0	0	21	9	8	2	1	0	0	0	1	9
Dholpur	0830	176	1016 5	995·9	..	17·7	12·6	8·0	10·5	51	..	1·9	..	3·6	0	0	24	1	2	0	4	1	3	7	6	6
	1730	,,	1012·8	992·8	..	25·1	16·5	9·2	11·9	37	..	2·0	..	1·3	0	0	13	2	0	0	2	0	0	2	7	17
Ajmer	0830	486	1017·9	961·6	+0·4	15·4	11·4	7·6	10·3	60	+9	2·0	+1·2	2·4	0	0	23	5	4	5	0	0	0	3	6	7
	1730	,,	1013·1	959·1	..	25·9	15·0	4·1	8·2	25	..	1·8	..	5·3	0	0	26	2	7	2	2	0	1	4	8	4
Tonk	0830	272	1016.2	984.4	..	15·8	12.7	9.6	12·2	65	..	1.6	..	1.5	0	0	22	0	0	2	2	1	0	3	14	8
	1730	,,	1012.4	981.5	..	25·4	18.4	13.5	15·5	48	..	2.1	..	2.7	0	0	19	1	3	3	2	0	1	2	7	11
Bhilwara	0830	..	..	..	..	16.8	11·7	6·1	9·6	50	..	2·4	..	2·7	0	0	19	2	7	1	0	1	3	1	4	11
	1730	..	..	..	..	26.6	15·7	5·5	9·0	27	..	3·0	..	4·2	0	0	26	4	11	3	1	3	4	0	0	4
Kota (Aerodrome)	0530	271	1015·2	983 5	..	15·7	11·4	6·8	10·4	56	..	1·3	..	4.4	0	0	21	2	1	0	0	0	7	9	2	9
	0830	,,	1017.1	985·4	..	20·1	13·4	7·0	9·9	43	..	2·0	..	3·2	0	0	14	2	0	3	0	1	0	7	1	16
	1130	,,	1016.2	985 3	..	26·5	15·8	5·6	9.3	27	..	1·8	..	6·5	0	0	25	3	5	8	4	2	1	1	1	5
	1730	,,	1013·0	982·3	..	27·6	16·1	5·6	9·0	25	..	2·3	..	4·8	0	0	22	4	11	5	0	0	1	0	1	8
	2330	,,	1015·7	984·1	..	18·7	12·8	6·9	10·0	47	..	0·8	..	5·6	0	0	22	0	0	0	0	1	8	12	1	8
Kota	0830	257	1017·1	987·4	+0 7	20·3	14·4	9·1	11·6	50	+1	1·5	+0·5	0	0	0	1	0	0	0	0	0	0	1	0	29
	1730	,,	1013·8	984·6	..	26·1	16·8	9·0	11·7	35	..	1·6	..	0·4	0	0	3	0	1	0	0	0	0	1	1	27
Erinpura (Jawai Dam)	0830	295	1016 2	992·3	..	18·0	15·2	13·2	15·0	74	..	2·0	..	3·2	0	0	15	1	0	2	2	7	2	1	0	15
	1730	,,	1013·0	979·8	..	25·7	20·3	16.8	19·4	59	..	2·8	..	1·0	0	0	9	2	1	1	0	1	1	3	0	21
Chambal (Rawat Bhatta Dam)	0830	351	1017·3	976 8	..	17·0	13·3	9·7	12·3	64	..	1·9	..	0·4	0	0	6	0	1	0	0	0	1	0	4	24
	1730	,,	1012·7	973·5	..	27·1	16·5	6·7	10·1	28	..	2·3	..	3·0	0	0	26	3	14	2	1	0	0	1	5	4
Udaipur	0230	582	1016·1	949·1	..	14·0	12·1	10.4	12·6	79	..	0·4	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29
	0530	,,	1016·6	949·2	..	12·3	10·9	9·5	11·9	84	..	0·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30
	0830	,,	1017·4	951·1	+0·6	16·9	13·7	10.4	13·1	62	+6	1·4	+0·9	0·3	0	0	2	0	1	0	0	0	0	0	1	28
	1130	,,	1015·3	951·0	..	26·5	18·9	14.1	15.7	47	..	1.8	..	1·1	0	0	8	0	3	2	0	1	0	0	2	22

(a) Mean of 30 days. (b) Mean of 29 days. *Observations for 18 days **Observations for 19 days †Observations for 29 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed, (Km.p h.): 62 or more	Wind speed: 20 to 61	Wind speed: 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan East—*contd.*																											
Udaipur—*contd.*	1730	582	1012·4	948·1	..	25·5	18·5	14·1	15·7	50	..	2·5	..	0·3	0	0	3	1	0	1	0	0	0	1	0	27	0
	2330	"	1016·9	950·1	..	15·7	13·1	11·1	12·9	75	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jhalawar	0830	321	1017·1	979·7	+1·0	16·7	13·3	10·0	1·9	64	+5	1·9	+0·9	0·5	0	0	5	1	1	1	1	0	0	1	1	25	0
	1730	"	1012·3	976·6	..	27·9	18·1	10·5	12·9	35	..	1·8	..	1·5	0	0	14	3	4	5	0	0	0	1	1	16	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1015·0	990·5	..	13·2	9·9	6·2	9·5	63	..	0·7	..	1·8	0	0	14	0	0	0	4	6	3	1	0	16	0
	0530	"	1015·4	990·7	..	12·3	9·4	6·3	9·3	67	..	1.1	..	1·8	0	0	11	0	0	1	3	2	3	0	2	19	0
	0830	"	1016·8	992·8	+1·0	19·0	12·9	6·8	9·9	46	−4	1·9	+1·1	3·7	0	0	18	2	0	0	2	5	3	0	6	12	0
	1130	"	1016·0	992·6	..	26·8	15·6	4·7	8·7	25	..	1·3	..	7·4	0	0	30	5	3	1	1	4	2	5	9	0	0
	1730	"	1013·3	989·8	..	25·5	15·7	6·9	9·9	30	..	1·8	..	3·5	0	0	22	5	1	0	0	1	1	1	13	8	0
	2330	"	1015·8	991·4	..	14·5	10·6	6·4	9·7	59	..	0·6	..	2·3	0	0	12	0	0	0	1	7	1	2	1	18	0
Sheopur	0830	235	1017·3	989·9	+0·6	17·9	13·2	8·8	11·4	55	−3	2·4	+1·4	3·5	0	0	25	1	3	1	7	8	2	1	2	5	0
	1730	"	1013·1	986·6	..	26·0	17·3	10·3	12·7	37	..	2·4	..	4·9	0	0	26	11	7	0	1	1	0	1	5	4	0
Shivpuri	0830	464	1016·4	963·7	..	20·5	13·1	6·3	9·7	40	..	2·1	..	3·9	0	0	23	5	4	0	1	4	3	5	1	7	0
	1730	"	1013·4	961·5	..	25·2	15·7	8·1	10·8	35	..	2·0	..	2·6	0	0	23	1	2	1	0	1	2	6	10	7	0
Nowgong	0830	229	1017·2	990·4	+0·5	16·3	12·7	9·4	11·8	64	−7	1·6	+0·4	2·4	0	0	22	0	1	0	0	10	8	2	1	8	0
	1730	"	1013·2	987·4	..	26·5	17·7	10.8	13·1	38	..	1·5	..	0·4	0	0	7	1	2	0	0	0	0	0	4	23	0
Guna	0530	478	1016·3	960·4	..	12·0	9·8	7·6	10·5	75	..	1·0	..	2·9	0	0	21	2	1	2	14	0	0	2	0	9	0
	0830	"	1016·8	962·4	+0·9	20·4	13·9	8·5	11·2	47	−13	2·1	+1·4	4·5	0	0	24	1	4	3	11	5	0	0	0	6	0
	1130	"	1015·3	962·1	..	27·0	16·3	7·9	10·1	31	..	2·1	..	8·6	0	0	29	2	6	6	4	5	0	2	4	1	0
	1730	"	1012·8	959·5	..	25·2	16·5	10·0	12·4	39	..	2·4	..	5·2	0	0	30	8	8	2	3	0	0	3	6	0	0
	2330	"	1016·6	961·2	..	14·8	11·6	8·7	11·3	68	..	0·8	..	2·5	0	0	18	2	2	1	12	0	1	0	0	12	0
Nimach	0830	496	1017·3	960·7	+0·7	19·7	12·7	6·6	9·6	42	−6	2·5	+1.5	3·4	0	0	18	1	13	3	1	0	0	0	0	12	0
	1730	"	1013·3	958·3	..	26·6	15·4	5·7	9·3	27	..	2·4	..	4·5	0	0	28	2	16	1	0	0	2	4	3	2	0
Rajgarh	0830	382	1016·7	972·7	..	18·0	13·1	8·3	11·1	54	..	1·0	..	1·9	0	0	12	8	0	1	0	3	0	0	0	18	0
	1730	"	1012·0	969·5	..	27·5	16·8	7·1	10·5	29	..	1·2	..	2·1	0	0	28	14	0	3	0	11	0	0	0	2	0
Sagar	0830	551	1016·4	954·1	+0·7	21·0	12·7	4·7	8·7	35	+12	1·5	+0·2	5·1	0	0	24	0	5	8	2	0	3	5	1	6	0
	1730	"	1012·5	951·4	..	25·3	14·5	4·6	8·7	27	..	1·5	..	2·4	0	0	17	1	4	5	0	0	0	3	4	13	0
Ratlam	0830	486	1016·5	961·2	+0·7	20·4	14·2	8·9	11·7	49	+1	1·8	+0·3	9·0	0	1	26	1	13	12	1	0	0	0	0	3	0
	1730	"	1012·3	958·5	..	27·4	17·4	10·0	12·6	35	..	3·2	..	6·3	0	1	26	2	13	4	1	0	2	1	4	3	0
Bhopal (Bairagarh)	0230	523	1014·7	954·9	..	16·8	12·1	7·6	10·7	55	..	1·6	..	5·5	0	0	19	8	6	1	2	0	1	1	0	11	0
	0530	"	1015·4	955·2	..	15·7	11·7	7·7	10·9	60	..	2.1	..	4·7	0	0	18	5	4	2	3	1	1	1	1	12	0
	0830	"	1016·5	957·3	+0·6	20·8	13·8	7·6	10·7	44	−12	2·4	+1·0	6·6	0	0	18	4	7	3	4	0	0	0	0	12	0
	1130	"	1015·0	956·9	..	26·7	16·0	7 9	10·4	30	..	2·3	..	11·2	0	2	26	7	9	3	4	4	1	0	0	2	0
	1730	"	1012·4	954·4	..	25·7	15·7	7·2	10·5	33	..	2·9	..	8·7	0	0	29	12	7	0	4	1	0	0	5	1	0
	2330	"	1015·5	955·9	..	18·8	13·1	7·5	10·2	50	..	1·8	..	5·5	0	0	19	8	4	2	3	1	0	0	1	11	0
Ujjain	0830	"	..	..	..	19·6	14·7	10·8	13·2	58	..	1·7	..	5·2	0	0	23	2	4	9	7	1	0	0	0	7	0
Narsinghpur	0830	356	1017·2	976·1	..	18·1	14·1	10·6	12·9	62	..	1·1	..	3·8	0	0	19	4	8	2	5	0	0	0	0	11	0
	1730	"	1012·0	972·0	..	27·9	18·2	10·8	13·0	35	..	0·5	..	2·1	0	0	15	10	1	3	0	0	0	1	0	15	0
Hoshangabad	0830	302	1017·0	982·0	+0·3	18·1	15·1	12·5	14·5	70	+9	1·2	−0·2	4·7	0	0	29	0	13	8	7	0	0	0	1	1	0
	1730	"	1012·0	978·2	..	27·8	19·4	13·7	15·7	43	..	1·6	..	3·5	0	0	28	4	5	5	7	2	3	0	2	2	0
Indore	0530	567	1015·1	950·0	..	15·2	12·0	9·0	11·7	67	..	1·2	..	2·8	0	0	13	0	4	4	4	0	1	0	0	17	0
	0830	"	1016·2	952·0	+0·3	20·0	14·4	9·9	12·3	53	+1	1·9	+0·7	3·2	0	0	11	1	3	2	4	1	0	0	0	19	0
	1130	"	1014·4	951·8	..	27·1	16·7	8·4	11·4	33	..	1·8	..	7·8	0	1	25	0	7	8	6	0	4	1	0	4	0
	1730	"	1011·8	949·2	..	26·4	16·7	9·1	11·9	35	..	2·1	..	7·7	0	1	27	7	13	2	2	1	2	1	0	2	0
	2330	"	1015·4	950·9	..	18·0	13·5	9·6	12·2	60	..	1·4	..	4·2	0	0	20	1	6	4	2	2	5	0	0	10	0
Rajpur (Jhabua)	0830	293	1016·4	982·7	..	19.8	16·0	12·9	15·1	65	..	2·4	..	1·6	0	0	7	0	2	4	1	0	0	0	0	23	0
	1730	"	1011·9	979·4	..	29·6	19·4	11·9	14 2	35	.	2·2	..	2·9	0	0	20	0	10	1	1	0	2	0	6	10	0
Chhindwara	0830	685	1017·0	939·5	+0·8	18·3	14·2	11·1	13·2	60	+2	2·0	+0·6	1·2	0	0	15	2	3	0	1	0	0	2	7	15	0
	1730	"	1011·9	936·5	..	25·0	16·5	10·4	12·6	40	..	2·4	..	3·9	0	0	25	2	11	3	1	1	2	3	2	5	0
Seoni	0830	619	1016·9	947·0	+1·1	19·7	14·4	10 0	12·5	55	−2	2·6	+1·1	2·0	0	0	24	3	3	0	2	3	2	2	9	6	0
	1730	"	1012·5	944·2	..	25·2	17·1	11·3	13·6	44	..	3·2	..	2·9	0	0	30	6	11	2	5	2	2	0	2	0	0
Betul	0830	653	1016·7	943·2	+0·8	20·0	15.5	12·1	14·3	62	+4	2·4	+0.6	3·6	0	0	29	0	3	11	15	0	0	0	0	1	0
	1730	"	1012·4	940·2	..	24·1	16·7	11·8	13·7	46	..	2·7	..	5·3	0	0	30	10	13	0	2	0	1	0	4	0	0
Khandwa	0830	318	1016·5	979·9	+0·8	20·3	15·9	12·5	14·5	62	+4	2·4	+1·0	1·7	0	0	24	1	6	6	6	5	0	0	0	6	0
	1730	"	1011·9	976·4	..	28·8	19·7	13·2	15·6	40	..	2·6	..	2·7	0	0	30	3	12	8	4	2	0	0	1	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madhya Pradesh (East)—																										
Satna	0530	317	1015·5	978·2	..	12·7	10·6	8·5	11·1	76	..	0·3	..	0·3	0	0	4	0	0	0	0	0	2	2	0	26
	0830	"	1016·8	979·9	+0·3	17·1	12·5	8·0	10·7	56	−6	1·1	−0·1	0·9	0	0	13	0	0	0	1	1	1	10	0	17
	1130	"	1015·2	979·5	..	26·7	15·7	5·1	8·9	25	..	1·1	..	3·1	0	0	25	0	0	3	1	0	5	9	7	5
	1730	"	1013·1	977·2	..	23·9	15·5	8·1	10·8	37	..	1·6	..	0·9	0	0	13	2	0	0	0	0	0	10	1	17
	2330	"	1015·6	978·7	..	16·0	12·3	8·7	11·3	63	..	0.2	..	0·2	0	0	2	2	0	0	0	0	0	0	0	28
Sidhi	0830	..	..	..	..	18·2	13·7	9·7	12·0	58	..	0·2	..	0·5	0	0	6	0	0	0	0	1	3	1	1	24
	1730	..	..	..	..	25·4	15·8	7·3	10·2	32	..	0·7	..	1·2	0	0	12	3	1	1	0	0	0	0	7	18
Umaria	0830	459	1017·0	964·5	..	18·9	13·9	9·9	12·3	56	−6	1·7	−0·3	1·6	0	0	16	2	1	5	5	3	0	0	0	14
	1730	,,	1012·8	961·5	..	24·4	17·1	12·0	14·2	46	..	1·5	..	1·2	0	0	14	1	1	4	1	0	0	5	2	16
Jabalpur	0530	393	1015·7	969·7	..	13·0	11·7	10·6	12·7	85	..	0·9	..	0·7	0	0	7	0	0	0	6	1	0	0	0	23
	0830	,,	1017·1	971·9	+1·0	18·1	13·9	10·3	12·5	61	−11	1·9	+0·6	2·8	0	0	26	1	0	1	18	6	0	0	0	4
	1130	,,	1015·0	971·1	..	26·7	17·0	8·6	11·5	32	..	1·9	..	2·7	0	0	23	3	5	5	5	3	1	0	1	7
	1730	,,	1012·5	968·5	..	25·6	17·2	10·6	12·8	39	..	2·0	..	1·3	0	0	15	2	6	4	2	1	0	0	0	15
	2330	,,	1015·7	970·2	..	16·2	13·5	11·1	13·3	72	..	0·4	..	0·4	0	0	5	0	0	0	4	1	0	0	0	25
Ambikapur	0830	611	1017·4	947.9	+0·7	17·5	13·7	10·8	12·9	66	−2	0·8	−0·2	1·9	0	0	18	1	2	0	0	8	6	0	1	12
	1730	,,	1012·5	944·6	..	23·3	16·6	11·7	13·7	49	..	1·1	..	1·3	0	0	30	25	2	0	0	0	2	1	0	0
Pendra	0530	625	1015·9	944·3	..	14·7	10·7	6·8	9·9	60	..	1·6	..	2·8	0	0	21	3	0	0	1	0	1	9	7	9
	0830	,,	1016·7	946·4	+0·7	19·8	13·5	8·2	10·9	48	−14	2·0	0	3·7	0	0	21	7	1	0	1	3	2	3	4	9
	1130	"	1014·9	945·8	..	25·3	15·1	6·2	9·7	30	..	2·0	..	5·9	0	0	30	12	3	1	1	1	4	2	6	0
	1730	,,	1013·0	943·6	..	22·9	14·7	8·0	10·7	38	..	2·3	..	4·2	0	0	29	7	0	0	0	4	2	1	15	1
	2330	"	1016·1	945·0	..	16·9	12.0	7·3	10·5	54	..	1·0	..	3·4	0	0	27	4	1	0	1	0	2	6	13	3
Mandla	0830	443	1017·8	966·7	+0·6	16·4	13·4	10·8	12·9	70	−9	1·7	0	0·3	0	0	2	1	0	0	0	0	0	0	1	28
	1730	"	1012·1	962·8	..	25·9	16·8	9·1	11·7	35	..	1·7	..	2·3	0	0	15	8	0	0	0	0	0	0	7	15
Champa	0830	245	1016·9	988·5	+0·8	19·2	15·2	12·0	14·0	63	−5	1·9	−0·3	2·6	0	0	23	16	0	0	0	0	0	0	7	7
	1730	,,	1012·7	985·1	..	26·3	18·0	11·9	13·9	41	..	1·8	..	2·1	0	0	21	20	0	0	0	0	0	0	1	9
Raigarh	0830	220	1016·4	991.0	+0·6	20·7	16·2	12·8	14·8	60	−2	1·4	−0·5	1·9	0	0	23	0	17	0	4	1	0	0	1	7
	1730	"	1012·3	987·3	..	26·0	18·4	13.0	15·0	45	..	1·6	..	0·5	0	0	6	4	2	0	0	0	0	0	0	24
Raipur	0530	298	1015·3	980·5	..	16·3	14·1	12·1	14·3	77	..	1·9	..	1·1	0	0	10	4	1	1	1	0	1	0	2	20
	0830	"	1016·9	982·6	+1·1	21·0	16·1	12·2	14·3	57	−8	2·6	+0·9	3·7	0	0	24	6	8	5	2	2	1	0	0	6
	1130	,,	1015·3	981·8	..	27·2	17·9	10·6	13·0	36	..	2·2	..	4·3	0	0	27	4	10	5	4	1	1	1	0	3
	1730	,,	1012·7	979·2	..	26·2	18·2	12·3	14·4	42	..	2·3	..	1·8	0	0	14	3	7	2	1	1	0	0	0	16
	2330	,,	1015·0	980·7	..	20·5	15·5	11·5	13·6	57	..	0·6	..	2·9	0	0	21	2	1	6	4	6	0	1	1	9
Kanker	0830	402	1016·7	970·8	+1·3	20·2	16·8	14·4	16·4	69	−7	0·8	−1·5	0·0	0	0	0	0	0	0	0	0	0	0	0	30
	1730	,,	1011·9	967·2	..	26·4	18·8	13·6	15·6	45	..	1·1	..	1·3	0	0	19	0	19	0	0	0	0	0	0	11
Jagdalpur	0530	553	1015·1	951·6	..	14·5	13·9	13·4	15·4	93	..	1·6	..	0·0	0	0	0	0	0	0	0	0	0	0	0	30
	0830	,,	1016·3	953·7	+1·3	19·2	16·2	14·2	16·2	73	−6	2·0	−0·8	0·7	0	0	6	2	1	0	1	0	0	0	2	24
	1130	"	1013.6	952·6	..	26·3	18·4	13·2	15·4	46	..	1·9	..	5.3	0	0	29	4	15	8	0	0	1	0	1	1
	1730	,,	1011·6	950·4	..	24.4	18·0	14·0	16·0	53	..	2·6	..	1·3	0	0	9	2	5	0	0	2	0	0	0	21
	2330	"	1015·1	952·2	..	17·3	15·5	14·2	16·3	82	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30
Gujarat Region																										
Deesa	0830	136	1015·8	999·9	+0·4	19·1	13·4	7·9	10·8	49	..	1·6	..	4·7	0	1	29	2	18	9	1	0	0	0	0	0
	1730	"	1012·1	997·0	..	30·5	17·6	6·1	9·7	22	..	2·4	..	4·1	0	0	29	8	6	4	2	1	1	4	3	1
Radhanpur	0830	30	1015·3	1011.8	..	20·5	16·2	12·9	15·0	63	..	0·3	..	3·9	0	0	28	0	13	1	10	1	2	0	1	2
	1730	"	1012·4	1009·1	..	30·7	22·1	16·8	19·3	45	..	0·8	..	3·1	0	0	17	0	8	1	2	0	3	1	2	13
Idar	0830	219	1015·6	980.6	..	23·3	14·9	6·4	10·1	36	..	2·1	..	5·1	0	1	21	3	12	6	0	0	1	0	0	8
	1730	"	1012·1	987·7	..	29·5	17·9	8·0	11·1	27	..	2·6	..	2·6	0	0	22	0	4	9	3	0	1	5	0	8
Ahmedabad	0230	55	1013·4	1006·9	..	18·9	15·3	12·0	14·5	67	..	0·8	..	6·5	0	1	21	1	11	7	1	1	0	1	0	8
	0530	"	1013·5	1007·0	..	17·5	14·1	10·9	13·4	67	..	1·1	..	6·6	0	2	20	2	8	9	0	1	0	1	1	8
	0830	,,	1015·5	1009·0	+0·3	21·0	15·5	10·5	13·2	53	−2	2·1	+1·1	11·1	0	6	20	1	5	17	3	0	0	0	0	4
	1130	,,	1015·4	1009·1	..	29·4	18·8	10·5	13·0	32	..	1·6	..	12·9	0	5	25	1	4	15	8	2	0	0	0	0
	1730	,,	1012·2	1005·9	..	30·5	19·5	11·2	13·7	31	..	2·6	..	6·1	0	0	23	4	4	7	5	0	0	1	2	7
	2330	,,	1014·2	1007·8	..	20·2	16·1	12·6	15·0	63	..	1·1	..	3·8	0	0	16	3	7	3	0	1	0	0	2	14
Dohad	0830	333	1015·9	977·7	+0·4	20·0	15·3	11·1	13·6	58	−2	1·8	+0·5	6·3	0	0	29	0	3	12	9	5	0	0	0	1
	1730	"	1011·5	974·6	..	39·4	18·4	9·3	12·2	30	..	1·3	..	5·7	0	0	30	3	4	3	0	6	11	2	1	0
Baroda Aerodrome	0830	38	1015·2	1010·8	..	22·2	17·6	14·1	16·4	62	..	1·5	..	8·3	0	0	25	9	8	2	2	1	0	0	3	5
	1130	,,	1015·1	1010·8	..	29.7	20·8	13·1	15·5	37	..	1·2	..	9·9	0	0	29	5	8	5	4	3	1	0	2	1
	1730	,,	1011·8	1007·6	..	29·6	20·9	15·3	17·6	43	..	2·2	..	8·5	0	0	30	8	7	0	1	0	2	0	12	0

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapure pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed in Km. per hour.	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region —*Contd.*																											
Baroda	0530	35	1013·4	1009·3	..	19·0	17·2	15·9	18·2	83	..	0·4	..	0·5	0	0	6	0	5	0	1	0	0	0	0	24	0
	0830	"	1015·5	1011·3	+0·9	20·7	18·0	16·1	18·5	76	+9	1·6	+0·6	0·9	0	0	9	2	7	0	0	0	0	0	0	21	0
	1130	"	1010·3	1011·3	..	30·0	21·9	16·8	19·6	46	..	0·9	..	1·1	0	0	11	0	7	2	0	0	0	0	2	19	0
	1730	"	1012·0	1008·1	..	30·9	23·2	18·9	22·1	50	..	2·0	..	0·3	0	0	3	0	1	0	0	0	1	0	1	27	0
	2330	"	1014·1	1010·1	..	21·7	18·8	16·8	19·4	75	..	0·8	..	0·4	0	0	3	0	3	0	0	0	0	0	0	27	0
Broach	0830	17	1014·3	1012·3	+0.2	20·0	16·9	14·5	16·7	71	+9	1·8	+0·6	4·1	0	0	30	2	11	0	3	3	5	0	6	0	0
	1730	"	1011·0	1009·1	..	32·6	21·3	14·0	16·1	34	..	1·8	..	4·3	0	0	30	3	13	1	6	0	2	2	3	0	0
Surat	0530	12	1012.7	1011.3	..	20·2	17·3	15·6	18·4	73	..	0·6	..	7·7	0	0	27	0	17	8	1	1	0	0	0	3	0
	0830	"	1014·8	1013·4	+0·7	23·9	18·6	14·9	17·1	58	0	1·7	+0·3	6·5	0	0	28	0	15	12	1	0	0	0	0	2	0
	1130	"	1014·7	1013·4	..	31·5	21·6	15·4	17·7	39	..	1·9	..	8·5	0	0	29	0	18	6	5	0	0	0	0	1	0
	1730	"	1011·6	1010·4	..	31·2	22·1	16·6	19·1	41	..	2·2	..	6·4	0	0	28	3	11	2	0	1	6	2	3	2	0
	2330	"	1013.8	1012·4	..	24·0	19·3	16·1	18 5	63	..	0·6	..	9·9	0	1	28	3	22	0	2	0	1	0	1	1	0
Saurashtra and Kutch																											
Bhutakia Bhimasar (R)	0830	47																									
	1730	"																									
Naliya	0830	21	1015.4	1012·9	..	19·7	15·7	10·9	14·6	63	..	2·3	..	2·2	0	0	8	0	7	1	0	0	0	0	0	22	0
	1730	"	1012·6	1010·2	..	28·7	18·3	8·2	12.5	33	..	2.8	..	7·9	0	0	27	2	10	1	0	0	7	3	4	3	0
Bhuj (Rudramata)	0230	80	1014·0	1004·6	..	19·2	15·2	11·3	14·0	63	..	1·0	..	2·7	0	0	10	5	2	0	0	0	3	0	0	20	0
	0530	"	1014·0	1004·6	..	17·8	14·5	11·0	13·3	68	..	1·3	..	2 3	0	0	10	3	3	0	0	1	0	1	2	20	0
	0830	"	1015·7	1006·3	+0·7	20·4	16·2	12·2	15·0	62	+13	2·4	+1·5	2·1	0	0	9	2	4	1	0	0	1	1	0	21	0
	1130	"	1015·7	1006·5	..	27·5	17·7	8·1	12.3	34	..	2·3	..	10·4	0	3	22	7	11	3	2	0	0	0	2	5	0
	1730	"	1012·4	1003·4	..	29·7	17·8	6·2	11·5	27	..	3·6	..	10·0	0	2	20	4	13	0	2	0	1	2	0	8	0
	2330	"	1014·7	1005·4	..	21·7	15·9	10·7	13·4	52	..	1·4	..	3·2	0	0	11	5	2	0	0	0	1	2	1	19	0
Kandla Aerodrome	0830	35	1015 9	1011·8	..	22·4	16·5	10·6	14·0	51	..	2·0	..	14·9	0	3	27	10	4	0	0	0	1	0	14	1	0
	1130	"	1015·8	1011 8	..	28·8	18·1	8·4	12·0	30	..	1.8	..	15·1	0	6	22	18	5	3	0	0	1	0	1	2	0
	*1730	"																									
Now Kandla	0830	14	1016·0	1014·3	..	22·1	17·2	12·8	15·7	59	..	2·5	..	11·6	0	2	27	17	3	1	1	0	0	1	6	1	0
	1730	"	1013·0	1311·3	..	29·1	20·0	13·3	16·0	40	..	3·4	..	12·3	0	5	23	12	6	1	2	1	2	2	2	2	0
Mandvi	0830	9	1015·2	1014·1	+0.2	22·2	17·4	13·1	16·0	60	−1	2·7	+1·2	13·0	0	2	28	8	14	1	0	1	0	2	4	0	0
	1730	"	1012·5	1011·4	..	27·0	22·3	18·1	22 4	59	..	3·3	..	18·0	0	13	16	2	7	0	0	1	8	1	1	1	9
Surendranagar	0830	74	1015·5	1006·9	+0·2	23·1	17·4	12·9	15·3	54	+5	2·2	+1·3	4·7	0	0	26	7	9	4	1	0	0	0	5	4	0
	1730	"	1011·9	1003.6	..	31·1	20·8	13·6	16.2	37	..	3·0	..	5·4	0	0	29	8	10	5	1	0	0	1	4	1	0
Jamnagar (Aerodrome)	0530	23	1013·4	1010·7	..	19·9	16·4	13·5	15·9	69	..	1·2	..	9·4	0	3	24	1	7	6	1	6	2	2	2	3	0
	0830	"	1015·2	1012·6	+0·5	22·1	17·6	14 1	16.5	62	−1	1·8	+0·9	8·0	0	6	13	0	6	8	1	2	0	1	1	11	0
	1130	"	1015·4	1012·8	..	27·3	19·5	13·7	16.3	45	..	2·0	..	15.9	0	9	21	6	18	3	1	1	0	1	0	0	0
	1730	"	1012·1	1009·5	..	28·7	19·8	13·3	15·9	41	..	2·7	..	17·8	0	10	20	15	6	0	1	0	0	2	6	0	0
	2330	"	1014·3	1011·7	..	23·4	18·9	15·6	18·2	64	..	1·3	..	11·8	0	5	23	5	8	1	0	2	3	6	3	2	0
Dwarka	0830	11	1015·1	1013·8	+0·3	22·8	20·3	18·7	21·8	78	+11	·7	+0·4	10·0	0	3	26	14	10	4	0	0	0	0	1	1	0
	1730	"	1012·6	1011·3	..	28·0	23·1	20·3	24·3	65	..	1·7	..	15·9	0	9	21	9	5	2	0	1	0	4	9	0	0
Rajkot	0830	138	1015·2	999·3	0.0	22·0	17·6	13·9	16.5	62	+5	0·9	−0·1	6·0	0	4	11	1	5	2	2	1	0	0	4	15	0
	1130	"	1014.7	999 2	..	30·0	20.2	13·2	15·7	38	..	0·9	..	12·9	0	9	18	0	12	7	3	1	0	0	1	3	3
	1730	"	1011·5	996·1	..	31.0	20·2	12·2	14 9	35	..	2·2	..	12·8	0	2	26	4	13	2	2	2	1	0	3	2	1
Bhavnagar Aerodrome.	0830	11	1015·1	1013·9	+0.6	23·1	18·2	14·6	16·9	59	+12	1·7	+0·2	13·0	0	5	25	8	5	0	1	2	0	2	8	0	4
	1130	"	1015.2	1014·0	..	28·3	21·2	16·8	19·4	50	..	1·7	..	16·7	0	6	24	5	17	4	2	1	0	0	0	0	1
	1730	"	1011·9	1010·7	..	30·3	21·3	15·5	18·1	42	..	2·6	..	16·7	0	11	19	3	17	4	4	1	1	0	0	0	0
Porbander Aerodrome	0830	7	1014·9	1014·1	+0·4	24·0	18·4	13·4	16·6	57	−6	1·6	+0.7	10·9	0	7	17	4	6	8	1	0	0	1	4	6	0
	1130	"	1014·9	1014·1	..	30·7	20·4	12·6	15·6	36	..	1·9	..	14.6	0	9	21	3	7	9	3	2	2	0	4	0	0
	1730	"	1011·9	1011·1	..	29·6	21·2	15·3	18·3	46	..	2·9	..	19·2	0	17	13	4	4	1	0	2	2	10	7	0	0
Keshod	0830	51	1014.8	1008·9	..	22·3	16·9	12·0	14·9	56	..	0·8	..	12·5	0	6	24	4	12	12	0	0	0	0	0	0	2
	1130	"	1014·5	1008·8	..	30·1	19·4	11·1	13.8	33	..	1·2	..	18·0	0	10	20	9	10	6	2	0	1	0	2	0	0
	1730	"	1011·3	1005·6	..	31.6	20·2	11·7	14·4	32	..	1·5	..	21·5	0	20	10	4	5	1	2	2	6	10	0	0	0
Mahuva	0830	9	1013·1	1012·1	..	23·1	19·8	17·7	23·2	72	..	2·1	..	2.8	0	0	29	12	13	0	1	0	0	0	3	1	0
	1730	"	1010·3	1009·3	..	29·0	24·1	21·5	25·9	65	..	2·4	..	4·0	0	0	30	0	2	10	14	3	1	0	0	0	0

(R) Register not received.

*Date not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature in °C Dry bulb	Wet bulb	Dew Point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Departure from normal	Mean wind speed in Km. per hour.	Wind speed, (Km. p.h.) 62 or more	20 to 61	1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
Saurashtra and Kutch —*contd.*																											
Veraval	0230	8	1012·7	1011·8	..	21·6	18·5	16·0	18·8	73	..	1·4	..	8·1	0	0	28	13	10	1	1	0	0	0	3	2	
	0530	,,	1012·6	1011·7	..	20·9	17·5	14·6	17·1	71	..	1·6	..	11·3	0	3	27	15	10	2	0	0	0	0	2	0	
	0830	,,	1014·4	1013·5	+0·5	23·6	18·7	14·9	17·6	61	+8	2·1	+1·0	12·5	0	5	24	10	15	3	0	0	0	0	1	1	
	1130	,,	1014·4	1013·5	..	31·2	22·0	15·9	18·9	43	..	2·4	..	15·9	0	9	21	4	9	2	4	3	4	2	2	0	
	1730	,,	1011·6	1010·7	..	28·5	24·0	21·7	26·3	67	..	2·7	..	14·9	0	11	19	0	0	0	4	9	6	6	5	0	
	2330	,,	1013·8	1012·9	..	23·3	20·1	18·0	21·0	73	..	1·5	..	6·1	0	2	26	11	9	3	1	0	0	0	4	2	
Konkan Daman	0830	5	1013·7	1013·2	+0·8	23·5	19·8	17·4	20·0	69	−1	2·7	+0·7	7·7	0	1	29	0	0	24	5	1	0	0	0	0	
	1730	,,	1010·8	1010·3	..	28·6	23·7	21·2	25·3	65	..	2·1	..	18·4	0	13	17	22	0	0	1	0	0	3	4	0	
Bombay (Santacruz)	0230	14	1011·9	1010·2	..	22·3	20·6	19·5	22·8	84	..	1·1	..	5·0	0	0	23	0	5	13	5	0	0	0	0	7	
	0530	,,	1012·0	1010·3	..	21·6	19·6	18·4	21·1	83	..	0·8	..	5·1	0	0	21	0	2	12	5	1	0	0	1	9	
	0830	,,	1013·9	1012·2	+0·5	26·1	21·0	17·8	20·6	61	+1	2·1	+0·3	7·5	0	0	28	0	3	20	5	0	0	0	0	2	
	1130	,,	1013·7	1012·1	..	31·7	21·7	15·4	17·7	38	..	1·7	..	9·6	0	0	29	0	1	10	15	3	0	0	0	1	
	1730	,,	1010·8	1009·2	..	29·3	22·8	19·2	22·4	55	..	2·3	..	13·3	0	1	29	9	2	0	0	0	1	4	14	0	
	2330	,,	1013·1	1011·4	..	23·0	20·5	19·1	22·0	78	..	0·9	..	2·6	0	0	13	4	7	1	0	0	0	0	1	17	
Bombay	0830	11	1013·8	1012·6	+0·5	25·4	22·6	21·1	25·2	77	+4	1·9	+0·1	4·9	0	0	28	2	7	13	6	0	0	0	0	2	
	1130	,,	1013·8	1012·6	..	30·7	23·8	20·2	23·8	54	..	1·5	.	3·9	0	0	26	0	1	14	9	0	0	0	2	4	
	1730	,,	1010·9	1009·7	..	29·2	24·2	21·7	26·1	65	..	1·9	..	5·7	0	0	30	1	0	0	1	1	0	7	20	0	
Alibag	0830	7	1013·5	1012·7	+0·5	24·5	21·4	19·6	22·9	75	+8	0·8	−1·5	4·6	0	0	27	5	4	6	6	2	0	0	4	3	
Bhira	0830	96	1013·3	1002·4		24·6	19·1	15·0	17·6	59	..	1·4	..	4·7	0	0	21	1	11	7	1	1	0	0	0	9	
	1730	,,	1010·0	999·2		29·5	22·6	18·6	21·8	54	..	2·8	..	1·7	0	0	16	1	2	2	8	2	1	0	0	14	
Harnai	0830	20	1013·3	1011·0	+1·0	27·1	20·7	16·9	19·5	55	−5	3·1	+0·7	7·9	0	3	24	3	4	11	4	3	1	0	1	3	
	1730	,,	1010·4	1008·2	..	29·3	23·9	21·2	25·6	62	..	3·2	..	16·8	0	10	20	2	0	0	1	4	0	7	16	0	
Ratnagiri	0830	35	1013·2	1009·2	+0·6	24·7	19·8	16·6	19·1	62	..	1·2	..	8·4	0	0	29	0	1	11	16	1	0	0	0	1	
	1730	,,	1009·8	1005·9	..	29·4	23·5	20·8	24·1	59	..	2·5	..	8·5	0	1	29	2	0	0	0	2	0	6	20	0	
Devgarh	0830	36	1013·3	1009·2	+0·8	24·6	20·9	18·5	21·7	71	+0	1·9	−1·2	7·7	0	0	30	0	4	24	2	0	0	0	0	0	
	1730	,,	1009·9	1005·9	..	29·7	24·6	22·2	26·6	65	..	2·1	..	16·9	0	6	24	0	0	0	0	2	0	5	23	0	
Vengurla	0230	9	1011·6	1010·6	..	21·8	21·1	20·7	24·4	93	..	1·3	..	2·1	0	0	11	9	1	0	1	0	0	0	0	19	
	0530	,,	1011·7	1010·7	..	20·9	20·1	19·7	22·9	92	..	0·9	..	3·4	0	0	20	17	2	0	1	0	0	0	0	10	
	0830	,,	1013·7	1012·7	+0·9	23·5	20·9	19·3	22·7	78	+4	1·4	−1·2	2·5	0	0	16	11	1	3	1	0	0	0	0	14	
	1130	,,	1013·3	1012·3	..	31·2	22·9	18·1	21·1	46	..	1·4	..	5·8	0	0	26	2	5	11	4	3	1	0	0	4	
	1730	,,	1010·2	1009·2	..	29·6	24·4	21·9	26·3	64	..	2·3	..	5·5	0	0	29	0	0	0	1	2	8	16	2	1	
	2330	,,	1012·9	1011·9	..	23·2	22·0	21·4	25·5	90	..	1·6	..	1·5	0	0	10	9	1	0	0	0	0	0	0	20	
Madhya Maharashtra Nandurbar	0830	206	1015·7	992·3	..	25·1	20·0	16·5	19·3	61	..	1·0	..	13·1	0	6	24	5	0	25	0	0	0	0	0	0	
	1730	,,	1011·2	988·2	..	30·1	22·2	17·7	20·2	48	..	1·2	..	3·0	0	0	18	3	5	9	0	1	0	0	0	12	
Jalgaon	0830	201	1016·5	993·2	+1·5	20·4	16·6	13·7	15·8	66	+5	2·4	+0·7	10·1	0	0	30	0	0	29	1	0	0	0	0	0	
	1730	,,	1012·3	989·7	..	29·7	19·9	12·7	15·2	37	..	2·5	..	5·6	0	0	26	0	4	21	1	0	0	0	0	4	
Malegaon	0830	437	1016·1	966·4	+0·9	20·3	15·7	11·9	14·1	60	+2	2·1	+0·2	3·5	0	0	24	4	2	1	0	1	1	8	7	6	
	1730	,,	1010·8	962·7	..	29·5	18·3	9·2	11·9	31	..	2·7	..	6·3	0	0	27	0	8	11	5	1	2	0	0	3	
Deolali (Aerodrome)	0830	571	1016·6	951·7		19·0	15·7	13·2	15·5	68	..	2·4	..	5·2	0	0	24	12	9	2	0	1	0	0	0	6	
	1730	,,	1011·2	948·7	..	28·4	18·6	11·8	14·3	38	..	2·6	..	4·9	0	0	23	0	11	6	4	0	0	2	0	7	
Ahmednagar	0830	657	1016·0	942·5	+1·1	21·2	16·2	12·4	14·8	58	−1	2·9	+1·1	4·5	0	0	26	2	1	0	3	13	1	4	2	4	
	1730	,,	1010·3	938·7	..	27·6	18·4	12·3	14·5	41	..	3·1	..	4·7	0	0	25	0	9	2	10	1	2	0	1	5	
Poona (Aerodrome)	0230	593	1013·6	946·4	..	18·4	15·7	13·7	15·9	75	..	1·8	..	3·4	0	0	14	2	1	5	0	0	0	5	1	16	
	0530	,,	1014·1	946·7	..	17·3	15·1	13·6	15·6	79	..	1·7	..	3·0	0	1	11	0	2	5	3	0	0	2	0	18	
	0830	,,	1015·5	948·6	..	20·2	16·4	13·8	15·9	68	..	2·7	..	5·1	0	0	22	1	4	14	2	0	1	0	0	8	
	1130	,,	1013·7	948·3	..	26·9	19·2	14·3	16·6	47	..	2·6	..	14·1	0	4	26	1	2	21	6	0	0	0	0	0	
	1730	,,	1010·1	945·2	..	28·1	19·0	13·2	15·3	42	..	3·1	..	7·5	0	0	24	0	0	19	3	0	0	1	1	6	
	2330	,,	1014·1	947·4	.	20·6	16·6	13·8	16·0	66	..	2·0	..	5·8	0	0	22	1	5	8	3	0	0	3	2	8	
Poona	0530	559	1014·2	950·3	..		14·8	13·7	15·7	85	..	1·2	..	·0	0	0	0	0	0	0	0	0	0	0	0	30	
	0830	,,	1015·8	952·3	+0·5	18·7	16·1	14·2	16·4	76	+3	1·8	−0·1	·0	0	0	0	0	0	0	0	0	0	0	0	30	
	1130	,,	1013·3	951·7	..	27·1	19·1	14·0	16·3	46	..	1·9	..	2·8	0	0	21	4	7	7	3	0	0	0	0	9	
	1730	,,	1009·8	948·6	..	28·0	19·4	13·9	16·2	44	..	2·9	..	0·3	0	0	3	1	0	2	0	0	0	0	0	27	
	2330	,,	1014·1	950·9	..	19·5	16·5	14·5	16·5	73	..	1·3	..	0·0	0	0	0	0	0	0	0	0	0	0	0	30	
Jeur	0830	521	1015·3	956·2	+0·5	19·6	15·7	12·9	15·0	66	+5	2·7	+0·5	1·7	0	0	13	3	3	5	1	0	0	0	1	17	
	1730	,,	1009·6	952·6	..	29·1	18·5	11·1	13·6	34	..	3·2	..	6·3	0	1	29	2	8	13	5	1	1	0	0	0	
Baramati	0830	551	1015·5	953·3	+0·3	20·6	16·4	13·1	15·6	65	−2	1·5	−1·2	2·9	0	0	25	1	5	10	4	2	3	0	0	5	
	1730	,,	1010·0	949·7	..	28·4	19·1	13·0	15·3	40	..	2·8	..	5·6	0	0	28	1	9	10	4	3	0	0	1	2	

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in q.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharastra— (*Contd.*)																											
Sholapur	0530	479	1014·3	959·6	..	17·8	15·1	13·0	15·2	74	..	1·7	..	3·7	0	0	19	1	8	7	3	0	0	0	0	11	0
	0830	,,	1015·3	961·6	+1·2	22·2	16·9	13·7	15·4	59	+2	2·1	−0·1	4·5	0	0	28	0	5	9	11	2	1	0	0	2	0
	1130	,,	1014.0	961·0	..	27·6	19·2	13.7	16·1	41	..	2·3	..	10·1	0	1	29	0	5	9	12	3	0	1	0	0	0
	1730	,,	1010.3	957·7	..	29·4	18·8	11·5	13·9	36	..	2·5	..	7·4	0	0	30	2	4	11	9	3	1	0	0	0	0
	2330	,,	1014·2	960·2	..	21·9	16·2	11·9	14·2	52	..	1·8	..	8·3	0	0	29	2	8	15	4	0	0	0	0	1	0
Miraj	0830	554	1014·9	952·7	+0·8	21·1	16·8	13·9	16·0	64	+2	3·2	+0·4	..	0	0	14	0	1	9	4	0	0	0	0	16	0
	1730	,,	1009·5	949·0	..	25·1	18·6	11·5	14·4	36	..	3·8	..	..	0	0	23	0	4	14	5	0	0	0	0	7	0
Kolhapur	0530	570	1013·8	948·9	..	16·8	14·7	13·2	15·2	80	..	1·1	..	3·7	0	0	21	0	3	17	0	0	0	0	1	9	0
	0830	,,	1014·9	950·8	+0·7	20·7	16·8	14·2	16·3	67	0	2·0	+0·1	7·1	0	1	23	0	8	15	0	0	0	1	0	6	0
	1130	,,	1012·7	950·1	..	27·2	19·5	14·7	17·0	48	..	2·9	..	18·0	0	17	13	0	6	18	5	1	0	0	0	0	0
	1730	,,	1009·3	947·4	..	28·0	19·2	13·4	15·8	43	..	2·9	..	11.9	0	3	27	0	8	18	1	1	0	2	0	0	0
	2330	,,	1013·5	949·5	..	20·8	16·6	13·5	15·8	65	..	1·7	..	10·3	0	2	26	0	2	14	3	1	2	4	2	2	0
Marathwada Aurangabad	0830	581	1015·8	950·9	+0·6	22·9	16·9	12·7	14·9	54	0	2·5	+0·3	3·0	0	0	17	0	5	10	2	0	0	0	0	13	0
	1730	,,	1011.1	947·5	..	27·7	17·8	10·7	13·1	37	..	3·1	..	3·7	0	0	14	1	6	5	1	0	0	1	0	16	0
Aurangabad (Chikalthan)	0230	579	1014·7	948·3	..	15·5	13·2	11·3	13·6	77	..	1·1	..	0·9	0	0	2	1	0	0	1	0	0	0	0	28	0
	0530	,,	1015·2	948·5	..	13·9	12·1	10·6	12·9	81	..	1·1	..	1.2	0	0	3	1	0	1	1	0	0	0	0	27	0
	0830	,,	1015·5	950·5	..	21·9	17·1	13·9	16·0	61	..	1·8	..	3·4	0	0	10	2	0	4	3	1	0	0	0	20	0
	1130	,,	1014·0	950·2	..	27·1	19·8	15·4	17·8	50	..	1·9	..	10·1	0	1	25	0	0	15	10	1	0	0	0	4	0
	1730	,,	1010·6	947·1	..	27·5	19·4	14·4	16·6	46	..	2·2	..	6·8	0	1	16	0	6	9	1	0	0	0	1	13	0
	2330	,,	1015·4	949·4	..	17·1	14·1	11·8	13·9	71	..	1·1	..	1·8	0	0	5	0	2	1	2	0	0	0	0	25	0
Parbhani	0330	423	1016·5	968·2	+1·6	20·1	16·1	12·3	15·1	64	+6	2·4	0	3·5	0	0	25	3	12	6	3	1	0	0	0	5	0
	1730	,,	1011·7	964·7	..	27·1	18·5	11·9	14·3	40	..	3·2	..	4·4	0	0	26	0	6	16	3	0	0	0	1	4	0
Nander	0830	358	1016·3	975·4	..	21·3	17·5	14·8	16·8	66	..	1·6	..	1·1	0	0	4	0	0	2	0	2	0	0	0	26	0
	1730	,,	1012·0	972·0	..	27·9	19.3	13·1	15·5	41	..	1·7	..	3·2	0	0	17	0	11	1	5	0	0	0	0	13	0
Bir	0830	519	1016·1	957·6	..	21·2	17·4	11·8	17·9	68	..	1·9	..	1·8	0	0	17	1	3	0	6	2	2	0	3	13	0
	1730	,,	1011·3	954·2	..	27·6	19·1	13·5	15·9	44	..	2·5	..	5.5	0	0	29	0	19	4	4	0	1	0	1	1	0
Vidarabha Gondia	0830	313	1017·1	981·0	+0·9	19·6	15·4	12·0	14·1	62	−8	3·1	+1·4	1·5	0	0	17	6	3	1	3	2	0	0	2	13	0
	1730	,,	1012·4	977·5	.	27·9	18·0	10·3	12·6	33	..	2·6	..	0·8	0	0	11	6	1	0	1	0	1	0	2	19	0
Nagpur (Sonegaon)	0230	310	1014·2	978·2	..	16·6	14·5	12·6	14·8	78	..	0·7	..	3·7	0	0	24	9	2	0	0	0	0	1	12	6	0
	0530	,,	1014·9	978·7	..	15·3	13·7	12·1	14·4	81	..	1·0	..	3·4	0	0	23	12	2	1	1	0	0	0	7	7	0
	0830	,,	1016·8	981·1	+0·9	20·5	16·0	12·3	14·5	60	+4	2·2	+0·2	4·4	0	0	25	11	7	5	0	0	0	0	2	5	0
	1130	,,	1015·0	980·2	..	27·8	18·7	11·7	12·5	39	..	2·3	..	6·1	0	0	29	1	6	13	6	2	0	0	1	1	0
	1730	,,	1012·2	977·4	..	26·5	18·7	13·1	15·3	45	..	2·7	..	4·6	0	0	27	4	10	8	3	1	1	0	0	3	
	2330	,,	1015·2	979·4	..	18·1	15·1	12·8	14·7	71	..	1·1	..	2·9	0	0	20	6	3	0	0	0	0	1	10	10	0
Amraoti	0830	370	1016·6	973·9	0·6	22·5	16·3	11·2	13.6	51	+1	2·1	+0·3	2·7	0	0	27	2	9	15	1	0	0	0	0	3	0
	1730	,,	1011·1	976·7	.	28·3	18·5	10·5	13·4	35	..	2·4	..	4·1	0	0	27	2	4	4	14	2	0	0	1	3	
Akola Aerodrome	0830	309	1014·2	978·2	..	16·7	14·1	12·2	14·0	74	..	2·2	..	2·8	0	0	17	2	0	10	1	1	1	1	1	13	
	0530	,,	1015·2	979·0	..	22·8	17·5	13·3	15·7	57	..	2·4	..	4·2	0	0	25	2	5	10	2	0	0	6	0	5	0
	113	,,	1014·1	979·5	..	27·5	19·2	12·9	15·5	41	..	2·5	..	4·3	0	0	24	4	3	13	1	0	0	2	1	6	
	1730	,,	1011·2	976·6	..	27·4	19·5	13·6	16·3	46	..	2·5	..	3·7	0	0	20	5	3	9	2	0	0	0	1	[illegible]	
	2330	,,	1013·9	978·4	.	20·9	16·2	12·2	14·7	59	..	1·4	..	4·0	0	0	21	0	3	10	3	2	0	3	0	9	
Akola	0830	282	1016·3	983·7	+0·7	19·1	15·9	13·4	15·4	70	+13	2·3	+0·5	1·6	0	0	16	2	4	7	2	1	0	0	0	15	0
	1730	,,	1011·2	979·9	..	29·1	19·4	12·1	14·1	37	..	3·0	..	1·3	0	0	13	2	8	1	1	0	0	1	0	17	0
Bramhapuri	0830	229	1016·7	990·1	..	19·6	16·5	14·3	16·3	72	..	2·0	..	3.0	0	0	24	9	5	2	3	3	0	0	2	6	0
	1730	,,	1012·5	986·8	..	27·9	18·7	12·0	14·0	38	..	2·1	..	3·8	0	0	27	6	13	7	1	0	0	0	0	3	0
Buldana	0830	650	1015·5	942·6	+0·7	20·3	15·7	12·3	14·3	61	+1	1·7	−0·6	0·5	0	0	5	0	1	0	0	0	0	0	4	25	0
	1730	,,	1011·4	939·9	..	26·0	17·8	11·5	13·6	41	..	2·5	..	0·7	0	0	12	0	9	0	0	0	0	0	3	18	0
Yeotmal	0830	451	1015·9	964·9	+0·8	22·2	16·8	12·8	14·8	55	+3	6·4	+4·2	7·3	0	0	30	3	8	7	2	4	5	0	1	0	0
	1730	,,	1011·9	961·7	..	26·2	18·6	13·3	15.3	45	..	3.9	..	5·3	0	0	29	1	11	14	3	0	0	0	0	1	0
Chanda	0830	193	1016·3	993·9	+0·6	19·8	17·4	15·7	17·9	77	+7	2·1	0	3·7	0	0	27	4	2	5	0	1	2	3	10	3	0
	1730	,,	1012·3	990·5	..	27·3	20·5	16·2	18·5	51	..	2·5	..	2·7	0	0	21	4	8	6	2	0	0	1	0	9	0
Pusad	0830	334	1016·9	978·4	..	19·6	16·6	14·5	16·5	73	..	1·5	..	3·2	0	0	28	3	0	1	2	0	1	9	12	2	0
	1730	,,	1012·2	975.1	..	28·3	19.2	12·9	14·9	39	..	1·5	..	5·4	0	0	30	0	17	9	3	0	0	0	1	0	0
Sironcha	0830	123	1016·2	1002.0	+0·8	21·2	18·4	16·5	18·9	76	−1	2·3	−0·2	2·8	0	0	26	13	1	8	1	1	1	0	1	4	0
Coastal Andhra Pradesh—	1730	,,	1012·0	998·1	..	28·2	21·0	16·5	19·0	50	..	2·7	..	2·9	0	0	26	6	9	6	4	1	0	0	0	4	0
Kalingapatam	0830	6	1015·8	1015·1	+1·5	23·4	21·0	19·7	22·9	80	+1	1·4	−1·5	5·5	0	0	30	2	2	0	0	1	1	8	16	0	0
	1730	,,	1012·6	1011·9	..	26.2	22·1	19·9	23·2	69	..	1·5	..	4·7	0	0	30	0	6	14	7	3	0	0	0	0	0
Vishakhapatnam	0230	3	1013·2	1012·8	..	21·4	20·2	19·5	22·7	89	..	1·4	..	0·8	0	0	3	0	2	0	0	0	0	1	0	27	0
	0530	,,	1013·7	1013·3	..	20·6	19·5	18·8	21·8	90	..	1·9	..	2·3	0	0	8	2	1	0	0	0	0	3	2	22	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Coastal Andhra Pradesh—(*Contd.*) Vishakhapatnam—(*Contd.*)	0830	3	1015·9	1015·5	+1·7	25·4	21·3	19·1	22·2	70	[illegible]	1·7	−2·0	6·9	0	0	19	1	4	1	1	0	0	8	3	11
	1130	,,	1011·7	1014·3	..	28·6	21·7	17·7	20·2	53	..	2·4	..	10·9	0	2	22	4	5	7	1	0	1	5	1	6
	1730	,,	1012·6	1012·2	..	26·5	21·6	19·1	22·2	66	..	2·4	..	10·3	0	0	23	0	11	12	4	1	0	0	0	2
	2330	,,	1014·5	1014·1	..	22·4	20·9	20·0	23·5	88	..	1·2	..	1·9	0	0	6	1	2	1	0	0	0	1	1	24
Kakinada	0830	8	1015·5	1014·5	+1·5	27·2	23·5	21·6	25·0	74	−1	1·6	−2·0	11·7	2	1	26	0	30	0	0	0	0	0	0	0
	1730	,,	1012·2	1011·3	..	27·0	22·5	20·1	23·5	67	..	2·1	..	12·8	0	2	28	0	13	0	16	0	0	0	1	0
Nidadavole	0830	12	1015·2	1015·0	..	23·1	21·1	19·8	23·1	81	..	3·0	..	5·5	0	0	30	0	27	3	0	0	0	0	0	0
	1730	,,	1011·8	1010·4	..	27·3	22·6	20·1	23·5	66	..	3·6	..	5·9	0	0	[illegible]	0	2	14	4	0	0	0	0	10
Rentachintala	0830	106	1015·6	1003·3	..	23·8	20·9	19·2	22·1	75	+3	2·4	−2·3	1·1	0	0	17	6	2	3	2	0	0	3	1	13
	1730	,,	1011·5	999·6	..	27·8	21·3	17·2	20·0	51	..	2·2	..	1·7	0	0	24	3	4	8	2	1	0	1	0	6
Gannavaram	0230	24	1012·6	1000·8	..	22·0	20·7	19·9	23·2	88	..	1·7	..	3·6	0	1	15	9	5	2	0	0	0	0	0	14
	0530	,,	1013·3	1010·5	..	21·4	20·1	19·4	22·4	89	..	1·9	..	4·8	0	0	18	8	7	3	0	0	0	0	0	12
	0830	,,	1015·4	1012·6	+2·1	21·9	21·7	19·9	23·4	71	+1	2·1	−1·3	9·8	0	3	21	5	15	7	0	0	0	0	0	3
	1130	,,	1011·4	1011·6	..	23·5	22·1	18·4	21·3	55	..	2·7	..	13·2	2	6	21	4	9	13	2	0	1	0	1	0
	1730	,,	1011·3	1009·1	..	27·2	21·5	18·1	21·0	59	..	2·6	..	6·6	0	0	27	2	4	15	4	2	0	0	0	3
	2330	,,	1014·1	1011·[illegible]	..	22·7	21·0	20·0	23·5	85		1·7	..	4·9	0	1	26	6	10	4	0	0	0	0	1	9
Nagarjuna Konda	0830	136	..	..	..	24·1	20·6	18·5	21·3	71	..	2·7	..	3·7	0	1	10	1	2	4	2	0	0	0	2	19
	1730	,,	..	..	..	27·6	20·9	16·8	19·3	53	..	2·7	..	9·1	0	1	28	3	14	7	4	1	0	0	0	1
Masulipatnam	0830	3	1015·2	1014·2	+1·5	25·0	22·7	20·8	23·4	78	0	3·0	−0·1	4·7	0	0	30	9	10	7	0	0	0	2	2	0
	1730	,,	1011·9	1011·5	..	27·0	23·0	20·9	23·0	79	..	3·1	..	4·9	0	0	29	1	1	14	13	0	0	0	0	1
Ongole	0830	12	1015·0	1013·7	..	25·8	22·6	20·8	23·9	71	..	2·8	..	3·9	0	0	30	7	18	2	0	0	0	0	2	0
	1730	,,	1011·5	1010·2	..	27·0	23·0	20·9	24·6	70	..	3·3	..	6·5	0	0	30	1	4	21	2	2	0	0	0	0
Nellore	0530	20	1012·2	1009·9	..	22·5	21·7	21·3	25·2	93	..	3·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30
	0830	,,	1011·6	1012·3	+1·1	25·3	22·9	21·6	25·9	88	−3	4·5	−0·5	6·8	0	0	11	1	1	0	0	0	0	1	8	19
	1130	,,	1013·8	1011·5	..	28·6	23·4	20·8	21·5	61	..	5·0	..	2·5	0	0	27	1	8	8	0	0	0	2	8	3
	1730	,,	1011·0	1008·8	..	26·2	23·8	20·7	23·3	70	..	5·8	..	3·1	0	1	24	1	16	0	0	0	0	2	6	5
	2330	,,	1013·4	1011·1	..	23·4	22·2	21·6	25·3	93	..	2·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30
Telangana Ramgundam	0830	156	1015·8	997·7	+0·8	21·0	14·5	16·8	19·1	77	+10	1·6	−1·0	6·3	0	0	6	5	0	0	0	6	0	0	1	24
	1730	,,	1011·9	994·2	..	27·2	21·5	15·5	17·0	47	..	2·2	..	3·5	0	0	27	5	19	2	1	0	0	0	0	3
Nizamabad (R)	0330	384																								
(R)	1730	,,																								
Ganamkonda	0830	269	1015·8	995·1	+0·9	22·1	19·3	17·3	19·9	74	−5	2·1	1·0	1·8	0	0	26	0	7	4	0	6	0	0	0	4
	1730	,,	1012·1	992·0	..	27·1	20·8	16·7	19·5	50		1·7		1·9	0	0	[illegible]	11	9	4	2	1	0	1	0	2
Rakempet (Aerodrome)	0530	613	1013·9	934·7	..	18·4	15·8	13·8	16·1	76	..	2·1	..	7·0	0	4	23	6	11	5	6	0	1	0	0	7
	0830	,,	1011·9	916·4	..	22·0	17·9	15·1	17·5	67	..	3·4		11·6	0	3	27	0	8	8	9	2	1	0	0	2
	1130	,,	1013·7	946·1	..	25·6	18·5	13·8	16·0	50	.	3·2	..	17·4	0	9	21	1	7	10	11	0	1	0	0	0
	1730	,,	1011·5	943·9	..	24·9	18·2	13·8	16·1	5[illegible]	..	2·3	..	14·0	0	2	27	0	9	14	6	0	0	0	0	1
Bhadrachalam	0830	111	1016·0	1003·0	+0·7	21·5	19·7	18·6	21·6	84	−5	4·0	+0·6	3·3	0	0	30	3	3	4	0	10	3	7	0	0
	1730	,,	1011·8	999·1	..	26·9	21·6	18·7	21·6	62	.	2·4	..	3·3	0	0	30	0	4	0	2	17	0	6	1	0
Hyderabad (Begampet)	0230	545	1013·9	951·8	..	17·0	16·1	15·4	17·6	91	..	1·5	..	3·7	0	0	27	11	4	1	3	0	0	0	5	3
	0530	,,	1014·5	952·3	..	16·2	15·5	15·0	17·1	92	..	1·6	..	1·9	0	0	11	2	3	3	2	0	0	0	1	19
	0830	,,	1015·9	954·4	+1·4	20·3	17·8	16·3	18·5	78	+13	3·1	+0·1	3·2	0	0	16	1	3	4	5	2	0	0	1	14
	1130	,,	1014·1	953·8	..	25·6	18·7	14·2	16·5	51	..	3·3	..	10·2	0	1	23	0	8	10	9	1	0	1	0	1
	1730	,,	1011·5	951·3	..	25·4	18·6	14·2	16·5	51	..	2·8	.	7·7	0	1	29	0	8	17	5	0	0	0	0	0
	2330	,,	1015·1	953·3	..	18·4	16·8	15·8	17·9	86	..	1·6	.	2·6	0	0	18	4	10	3	1	0	0	0	0	12
Khammam	0830	112	1015·6	1002·7	..	22·8	20·6	19·2	22·5	81	..	3·2	..	2·3	0	0	12	5	0	5	1	1	0	0	0	18
	1730	,,	1011·8	999·1	..	27·9	21·2	17·2	19·7	53	..	3·3	..	1·7	0	0	16	0	7	9	0	0	0	0	0	14
Mahbubnagar	0830	505	1015·0	958·4	..	23·1	18·8	16·1	18·6	66	..	3·4	..	8·7	0	0	29	0	6	20	3	0	0	0	0	1
	1730	,,	1010·7	954·9	..	26·3	18·9	14·0	16·4	48	..	2·9	..	6·2	0	0	30	0	8	20	2	0	0	0	0	0
Rayalaseema Kurnool	0830	281	1015·7	983·6	+1·8	22·9	20·3	18·6	21·7	77	+6	3·5	+0·5	4·6	0	0	28	0	0	25	3	0	0	0	0	2
	1730	,,	1010·8	979·5	..	28·8	22·4	18·7	21·8	56	..	3·6	..	4·6	0	0	29	2	2	22	3	0	0	0	0	1
Nandyal*	0830																									
	1730																									
Anantapur	0530	350	1012·9	972·9	..	20·0	18·6	17·6	20·2	86	..	1·3	..	4.5	0	0	16	2	2	11	0	0	0	1	0	14
	0830	,,	1014·7	975·0	+1.2	22·8	19·8	17·9	20·6	74	+3	2·8	−0.7	3·9	0	0	14	0	6	7	0	0	1	0	0	16
	1130	,,	1013·6	974·5	..	26·8	20.5	16·5	19·0	54	..	3.3	..	9·4	0	1	24	0	12	12	1	0	0	0	0	5
	1730	,,	1010·1	971·4	..	28·1	20·7	16·0	18·3	49	..	2·8	..	12·7	0	3	26	0	7	21	1	0	0	0	0	1
	2330	,,	1013·5	973·9	..	22·9	19·5	17·4	20·0	72	..	1·8	..	11.9	0	2	25	0	2	15	8	1	0	1	0	3

(R) Register not received.

*Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rayalaseema—(Contd.)																											
Cuddapah	0830	130	1015·0	1000·2	+1·5	[illegible]	21·5	20·6	24·4	77	+1	2·5	−1·5	0·8	0	0	5	0	0	5	0	0	0	0	0	25	0
	1730	,,	1011·2	996·5	..	27·3	22·6	20·1	23·5	65	..	3·9	..	3·5	0	0	21	0	1	20	0	0	0	0	0	9	0
Arogyavaram	0830	701	1014·7	936·7	..	21·2	16·5	16·6	18·6	75	..	3·7	..	3·4	0	0	20	6	5	2	4	2	0	0	1	10	0
	1730	,,	1010·6	935·7	..	21·2	16·6	[illegible]	17·3	59	..	3·5	..	5·8	0	0	29	0	13	13	1	0	1	0	1	1	0
Madras State																											
Madras	0830	6	1014·2	1013·5	..	26·2	23·2	21·6	25·9	77	..	4·5	..	4·5	0	0	30	5	10	2	0	0	0	4	9	0	0
Madras (Minambakkam)	0230	16	1011·9	1010·1	..	[illegible]	22·3	21·8	25·9	90	..	2·9	..	4·1	0	0	21	6	4	2	0	1	0	4	4	9	0
	0530	,,	1012·3	1010·5	..	[illegible]	21·7	21·1	25·0	90	..	3·8	..	5·3	0	1	19	6	2	1	0	0	1	3	7	10	0
	0830	,,	1014·4	1012·6	+1·4	[illegible]	[illegible]	21·5	25·6	78	−5	3·7	−1·1	9·9	0	2	28	15	3	3	0	1	0	2	6	0	0
	1130	,,	1013·6	1011·8	..	28·5	23·1	20·2	[illegible]	62	..	4·8	..	17·1	0	9	21	11	10	7	1	0	0	0	1	0	0
	1730	,,	1011·5	1009·7	..	[illegible]	22·4	[illegible]	[illegible]	[illegible]	..	3·9	..	13·3	0	2	29	12	10	6	0	0	0	1	0	0	1
	2330	,,	1013·5	1011·7	..	24·2	22·3	21·3	[illegible]	[illegible]	..	3·2	..	7·4	0	0	29	13	8	0	3	0	0	0	5	1	0
Vellore	0530	214	1012·8	983·2	..	20·6	20·0	19·7	[illegible]	[illegible]	..	3·2	..	6·4	0	0	2	0	2	0	6	0	0	0	0	28	0
	0830	,,	1014·6	[illegible]	+1·3	23·3	21·1	[illegible]	23·8	83	−1	4·2	+0·1	2·2	0	0	12	2	3	2	1	1	0	2	1	18	0
	1130	,,	1013·5	983·4	..	27·5	[illegible]	19·0	22·1	63	..	4·9	..	7·3	0	0	27	8	15	2	1	0	0	1	0	3	0
	1730	,,	1010·3	[illegible]	..	27·7	22·1	18·7	22·6	59	..	1·0	..	7·9	0	2	28	3	20	4	2	0	0	0	1	0	0
	2330	,,	1012·8	[illegible]	..	23·2	21·2	[illegible]	[illegible]	83	..	3·4	..	2·1	0	0	11	1	8	2	0	0	0	0	0	19	0
Tambaram (Aerodrome)	0830	29	1012·8	[illegible]	..	25·9	23·7	22·6	[illegible]	82	..	4·2	..	11·6	0	1	29	11	3	3	2	1	0	2	8	0	0
	1730	,,	1010·9	1007·6	..	26·7	23·0	[illegible]	25·0	71	..	4·5	..	15·1	0	2	28	4	16	7	1	1	0	1	0	0	0
Tiruppattur	0830	390	1014·5	970·4	..	22·0	20·1	[illegible]	[illegible]	[illegible]	..	4·3	..	4·6	0	0	30	15	12	1	0	1	0	1	0	0	0
	1730	,,	1009·9	966·6	..	26·6	21·0	17·7	[illegible]	59	..	4·8	..	8·2	0	1	29	6	17	5	0	2	0	0	0	0	0
Mettur Dam R. S.	0830	..	..	..	..	21·5	22·1	20·7	21·6	80	..	4·6	..	5·3	0	0	30	0	11	0	3	0	1	0	15	0	0
	1730	..	..	..	..	29·6	23·1	19·6	23·5	59	..	4·5	..	4·7	0	0	30	0	7	0	7	0	11	0	5	0	0
Cuddalore	0530	12	1011.3	[illegible]	..	[illegible]	24·0	[illegible]	25·6	91	..	5·2	..	3·4	0	1	18	6	7	0	1	0	0	0	5	11	0
	0830	,,	1014·0	1012·6	+1·4	[illegible]	23.1	[illegible]	26·3	81	−5	5·6	+0·7	6·3	0	0	28	6	15	0	0	0	2	0	6	1	0
	1130	,,	1013·1	1011·7	..	[illegible]	23·5	21·1	25·9	66	..	5·3	..	12·7	0	5	25	6	20	1	2	0	0	0	1	0	0
	1730	,,	1010·8	1009·4		27·0	23·5	21·1	25·0	72	..	5·1	..	10.3	0	1	28	4	26	0	2	0	0	0	0	1	0
	2330	,,	1012.8	1011·1	..	24·0	22·7	21·5	25·5	82	..	5·0	..	6·5	0	0	24	6	16	0	2	0	0	0	0	6	0
Kallakkurichchi	0830	127	1011·1	999·6	..	[illegible]	22·5	21·1	25·0	79	..	3·4	.	9·7	0	0	28	16	2	0	1	0	1	0	8	2	0
	1730	,,	1010·3	996·0	..	27·7	23·1	21·1	[illegible]	63	..	4·2	..	8·9	0	0	30	6	16	6	1	0	0	0	1	0	0
Salem	0530	278	1012·2	980·5	..	21·5	19·4	18·2	20·8	81	..	4·7	..	2·1	0	0	16	0	5	10	1	0	0	0	0	14	0
	0830	,,	1013·9	982·5	+1·3	24·2	20·5	18·4	21·0	70	−8	4·5	+0·3	2·0	0	0	15	2	3	10	0	0	0	0	0	15	0
	1130	,,	1012·4	981·5		29·6	21·6	17·2	19·7	50	..	4·8	..	5·4	0	0	26	0	5	19	1	0	0	1	0	4	0
	1730	,,	1009·4	973·5	..	28·7	21·3	16·9	[illegible]	50	..	4·4	.	5·1	0	0	23	0	1	25	2	0	0	0	0	2	0
	2330	,,	1012·7	981·2	..	24·0	20·5	[illegible]	[illegible]	72	..	3·1	..	7·1	0	0	24	0	1	22	1	0	0	0	0	6	0
Coimbatore (Pilamedu)	0530	399	1012·4	967·1		20·5	19·4	18·8	21·6	90	..	4·0	..	5·1	0	0	21	7	8	4	0	1	1	0	0	9	0
	0830	,,	1013·9	969·1	..	[illegible]	20·7	18·9	21·8	74	..	4·2	..	9·2	0	3	20	1	20	2	0	0	0	0	0	7	0
	1130	,,	1012·5	968·2	.	26·9	21.4	18·2	21·0	60	..	4·4	..	15·1	0	11	19	0	17	12	0	1	0	0	0	0	0
	1730	,,	1009·4	965.3	..	27·3	21·2	17·5	20·2	56	..	3·9	..	4·5	0	6	24	1	12	13	1	0	2	0	0	0	1
	2330	,,	1012·8	967·9	..	23·0	20·9	19·7	22·9	82	..	2·6	..	7·5	0	1	20	0	9	9	0	1	1	0	1	9	0
Coimbatore	0830	409	1014·0	968.1	+1·3	25·6	20·4	18·3	21·3	72	−10	1·7	+0·4	19·3	0	17	13	1	12	12	1	2	2	0	0	0	0
	1730	,,	1009·5	964·3	.	27.1	21·0	17·3	20·0	56	..	4·5	..	16·2	0	9	21	1	7	12	6	1	2	1	0	0	0
Nagapattinam	0830	9	1013·7	1012·6	+1·6	25·9	23·3	22·0	26.4	79	−3	4·8	−0·6	13·3	0	8	19	5	8	1	0	0	2	0	11	3	0
	1730	,,	1010·3	1009·2	..	27·2	23·7	22·0	[illegible]	74	..	5·6	..	23.5	0	23	7	8	17	2	1	0	0	0	2	0	0
Tiruchchirappalli	0230	88	1011·5	1001·4	..	23·3	21·7	20·8	24·7	86	..	3·2	..	7·9	0	2	22	3	17	2	0	0	0	0	2	6	0
	0530	,,	1011·9	1001·9	..	22·7	21·2	20·4	23·8	87	..	4·6	..	7·2	0	1	20	6	11	2	0	0	0	1	1	9	0
	0830	'	1014·0	1004·0	+1·3	25·4	22·1	20·3	23·8	74	—7	4·0	−0·5	10·6	0	2	27	11	10	1	0	1	0	1	5	1	0
	1130	,,	1013·1	1003·2	..	28·3	22·7	19·6	22·9	60	..	4·6	..	12·5	0	3	25	3	22	2	0	0	0	0	1	2	0
	1730	,,	1010·3	1000·4	..	27·4	22·8	20·3	24·0	66	..	4·2	..	11·7	0	5	22	0	11	14	2	0	0	0	0	3	0
	2330	,,	1013·1	1003·1	..	23·8	22·3	21·6	25·6	88	..	3·2	..	8·4	0	2	23	1	17	7	0	0	0	0	0	5	0
Vedaranniyam	0830	4	1013·3	1012·8	..	26·2	23·8	22·6	27·6	81	..	4·2	..	7·1	0	0	28	12	7	1	0	1	1	0	6	2	0
	1730	,,	1010.3	1009·8	..	27·1	24·1	22·6	27·6	77	..	4·3	..	9·7	0	0	29	11	13	1	1	0	0	0	1	1	2
Atirampattinam	0830	6	1013·2	1012·5	..	25·3	23·2	22·1	26·6	83	..	4·6	..	10·0	0	0	28	15	3	0	0	0	1	0	9	2	0
	1730	,,	1010·2	1009·5	..	27·4	23·9	22·2	26·6	74	..	4·7	..	11·1	0	1	29	6	20	0	2	2	0	0	0	0	0
Madurai	0830	133	1013·6	998·4	+1·1	25·4	23·3	22·3	26·9	83	+3	3·8	−1·3	5·3	0	0	29	17	8	1	0	0	0	0	3	1	0
	1730	,,	1009·9	994·9	..	27·9	24·9	23·5	28·9	77	..	4·1	..	8·3	0	0	30	4	15	10	0	0	0	0	0	0	1
Madurai (Aerodrome)	530	131	1011·5	996·5	..	22·5	21·3	20·6	24·4	89	..	3·7	..	7·0	0	1	22	13	7	1	0	0	0	2	0	7	0
	0330	,,	1013·6	998·6	..	25·3	22·2	20·6	24·1	75	..	4·3	..	12.7	0	5	24	11	15	1	0	0	0	2	0	1	0
	1130	,,	1012·6	997·8	..	27·9	22·9	20·2	23·8	63	..	5·2	..	15·9	0	11	18	2	18	8	1	0	0	0	0	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madras State —(*contd.*)																										
Madurai (Aerodrome)	1730	131	1009·8	995·0	..	27·6	22·7	20·1	23·5	65	..	4·7	..	12·9	0	3	27	0	16	13	1	0	0	0	0	0
contd. — Tondi	0830	5	1013·5	1012·9	..	25·2	22·8	21·6	25·8	81	..	5·1	..	8·5	0	0	20	10	9	0	0	1	0	0	0	10
	1730		1010·2	1009·6	..	27·7	23·9	22·0	26·6	72	..	5·1	..	17·3	0	12	17	0	25	1	2	1	0	0	0	1
Pamban	0830	11	1013·0	1011·7	+1·2	26·5	24·2	23·0	28·3	82	−1	4·5	+0·5	8·5	0	0	29	7	8	2	0	2	1	0	9	1
	1730	,,	1010·0	1008·7	..	26·8	24·0	22·7	27·6	78	..	4·0	..	6·5	0	0	29	8	16	2	0	1	1	0	1	1
Tuticorin	0830	4	1013·5	1013·1	+1·0	26·3	23·4	21·9	26·3	77	−4	4·8	−0·1	15·7	0	7	23	25	3	0	0	0	0	1	1	0
	1730	,,	1009·9	1009·5	..	28·1	24·7	23·2	28·3	75	..	4·3	..	23·2	0	24	6	0	19	8	1	2	0	0	0	0
Palayankottai	0830	51	1013·5	1007·7	+1.1	26·1	22·7	21·0	24·7	74	−4	5·5	+0·3	3·6	0	0	28	22	1	0	0	0	0	2	3	2
	1730	"	1009·7	1003·9	..	28·2	23·3	20·8	24·7	66	..	5·4	..	3·8	0	0	24	12	4	5	2	1	0	0	0	6
Kanniyakumari	0830	37	1012·5	1008·3	..	26·5	22·7	20·7	24·4	71	..	4·4	..	19.7	0	15	15	0	23	3	0	0	0	3	1	0
	1730	"	1009·4	1005·3	..	27·7	23·9	22·0	26·6	71	..	4·7	..	19·9	0	18	12	0	23	3	0	1	0	3	0	0
Coastal Mysore																										
Karwar	0830	4	1012·7	1012·1	0	24·2	21·1	19·3	22·4	75	−1	2·6	−0·4	8·7	0	5	20	0	5	11	3	3	1	0	1	5
	1730	"	1009·6	1009·1	..	29·6	24·2	21·5	25·8	63	..	3·3	..	8·0	0	2	28	0	2	0	9	1	0	3	15	0
Honavar	0830	26	1013·3	1010·3	+0·9	24·5	20·3	17·7	20·4	67	−3	4·1	0	4·9	0	0	22	2	8	12	0	0	0	0	0	8
	1730	"	1009·7	1006·7	..	30·1	23·9	20·8	24·6	59	..	3·9	..	6·6	0	0	30	1	2	3	0	2	4	12	6	0
Mangalore (Bajpe)	0230	102	1010·7	999·0	..	22·9	21·6	20·9	24·7	89	..	2·4	..	5·1	0	0	22	0	2	15	4	0	1	0	0	8
	0530	,,	1010·9	999·2	..	22·0	20·9	20·3	23·8	90	..	1·9	..	6·3	0	0	25	0	4	19	2	0	0	0	0	5
	0830	,,	1012·8	1001·2	..	25·3	21·7	19·8	22·9	72	..	3·0	..	7·2	0	0	30	1	1	26	2	0	0	6	0	0
	1130	"	1012·0	1000·6	..	30·1	22·4	18·0	20·8	49	..	2·7	..	11·3	0	1	28	0	1	20	5	2	0	0	1	1
	1730	"	1009·3	997·9	..	28·5	23·2	20·4	24·1	62	..	3·7	..	10·8	0	1	29	0	1	0	0	0	3	18	8	0
	2330	,,	1011·9	1000·4	..	24·6	22·5	21·4	25·6	83	..	2·8	..	4·2	0	0	22	1	5	8	3	1	0	0	4	8
Mangalore	0830	22	1012·8	1010·3	+0·6	26·8	22·7	20·5	24·1	69	−6	3·7	+0·3	3·5	0	0	30	0	8	20	1	0	0	0	1	0
	1730	,,	1009·5	1007·0	..	29·4	25·5	23·7	29·3	72	..	4·7	..	4·1	0	0	30	2	1	0	0	0	4	14	9	0
Interior Mysore North																										
Bidar	0830	664	1015·1	940·9	..	21·2	16·7	13·5	15·7	63	+3	1·8	−0·7	6·4	0	0	25	0	3	16	3	2	1	0	0	5
	1730	"	1010·6	938·1	..	25·5	17·0	10·8	13·2	41	..	2·1	..	11·1	0	0	29	1	22	3	2	0	1	0	0	1
Gulbaorga	0830	458	1015·3	963·7	+1·0	22·2	17·7	14·7	16·9	67	+6	3·0	+0·9	6·2	0	0	30	3	14	12	0	0	0	1	0	0
	1730	,,	1010·3	959·8	..	28.5	19·8	14·1	16.7	45	..	3·6	.	9·5	0	1	29	2	8	18	0	1	1	0	0	0
Bijapur	0830	594	1014·9	948·0	+0.5	19·8	16·9	14·8	17·1	74	+12	2·7	0·0	1·1	0	0	16	2	5	4	5	0	0	0	0	14
	1730	,,	1009·5	944·9	..	27·7	18·9	12·9	15·4	43	..	3·2	..	1·4	0	0	21	0	12	0	6	1	0	0	2	9
Raichuor	0830	400	1014·8	969·7	+0·9	22·7	19·0	16·3	19·0	67	+2	3·5	+1·1	4·2	0	0	27	0	13	1	12	0	0	0	1	3
	1730	,,	1010·1	966·3	..	28·2	19.4	12·9	15·4	40	..	3·9	..	5·5	0	0	29	0	21	1	7	0	0	0	0	1
Belgaum	0830	753	1014·5	930·3	+0.3	17·9	16·4	15·3	17·6	85	+19	1·9	−0·9	1·9	0	0	14	0	1	11	2	0	0	0	0	16
	1730	,,	1009·6	927·9	..	26·9	20·5	17·0	19·7	58	..	3·2	..	7·5	0	0	30	0	5	21	1	0	0	1	0	0
Belgaum (Samra)	0530	747	1013·6	929·7	..	17·1	14·8	13·1	15·2	78	..	2·0	..	3·3	0	0	10	1	4	5	0	0	0	0	0	20
	0830	,,	1014·4	931·5	..	21·1	17·0	13·7	16·4	65	..	3·3	..	12·6	0	5	24	2	8	15	4	0	0	0	0	1
	1130	,,	1012·9	931·3	..	25·5	18·1	13·1	15·4	47	..	3·2	..	16·7	0	9	21	0	7	17	4	1	1	0	0	0
	1730	,,	1009·7	928·5	..	26·1	18·0	11·9	14·7	45	..	3·5	..	10·5	0	2	25	1	10	12	2	0	1	1	0	3
Gadag	0530	650	1013·4	940·1	..	17·8	15·7	14·3	16·3	81	..	1·5	..	2·9	0	0	14	0	0	13	1	0	0	0	0	16
	0830	,,	1014·3	941·4	+0·4	21·4	18·1	16·1	18·3	72	+7	3·6	+0·8	5·4	0	0	27	1	3	22	0	0	1	0	0	3
	1130	,,	1012·8	941·6	..	26·4	19·6	15·5	17·8	53	..	2·7	..	6·9	0	0	25	3	4	17	0	0	1	0	0	5
	1730	,,	1009·7	938·7	..	26·7	19·3	14·6	16·5	49	..	3·2	..	3·5	0	0	29	1	6	18	1	0	1	2	0	1
	2330	,,	1013·9	941·2	..	20·3	17·0	14·8	16·9	72	..	1·8	..	7·9	0	0	28	0	2	21	2	0	1	2	0	2
Interior Mysore south																										
Bellary	0830	449	1014·8	964·2	+1·1	23·3	19·2	17·1	19·7	73	+5	2·9	−0·6	4·0	0	0	20	0	4	3	13	0	0	0	0	10
	1730	,,	1009·9	960·4	..	27·9	19·8	13·9	16·5	45	..	3·7	..	7·0	0	0	30	0	6	6	17	0	0	0	1	0
Chitradurga	0830	733	1014·3	932·8	+1·4	21·0	18·2	16·4	18·6	75	+5	3·3	−0·6	7·9	0	1	25	0	0	23	2	0	1	0	0	4
	1730	,,	1009·5	929·5	..	25·5	18·4	13·7	16·0	50	—	3·9	..	2·8	0	0	20	0	4	15	0	0	1	0	0	10
Shimoga	0830	571	1014·0	949·9	+0·7	20.9	18·1	16·5	18·8	76	−6	5·0	+0·8	1·9	0	0	9	0	3	5	1	0	0	0	0	21
	1730	,,	1008·9	946·3	..	26·7	19·7	15·5	17·8	52	..	6·3	..	3·1	0	0	18	0	10	7	0	0	0	1	0	12
Agumbe	0830	..	..	..	..	20·7	18·6	17·3	20·0	81	..	0	..	5·5	0	0	30	0	16	13	0	0	1	0	0	0
Balehonnur	0830	..	..	..	..	20·0	17·5	16·2	18·2	78	−7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1528·8	908·5	..	19·1	17·2	15·9	18·3	83	+7	5·2	+1·2	3·1	0	0	30	1	8	5	14	0	1	0	1	0
	1730	,,	1510·3	905·5	..	24·0	18·3	14·5	16·8	56	..	5·2	..	2·8	0	0	30	2	9	5	9	0	2	1	2	0
Bangalore	0230	921	1506·4	910·6	..	17·7	17·0	16·5	18·8	93	..	4·1	..	6·9	0	0	24	0	7	16	1	0	0	0	0	6
	0830	,,	1531·0	912·8	+1·1	20·1	17·7	16·2	18·5	79	+1	4·6	+0·1	8·0	0	0	25	0	9	15	1	0	0	0	0	5
	1130	,,	1534·0	912·3	..	23.8	18·6	15.5	17·1	61	..	4.2	..	10·4	0	1	28	0	5	18	4	1	1	0	0	1
	1730	,,	1511·7	909·9	..	23·5	18·2	14·9	16·9	60	..	4·4	..	8·3	0	0	26	0	6	16	4	0	0	0	0	4

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore South—(*Contd.*)																											
Bangalore (Aerodrome)	0530	897	1508·3	913·5	..	17·3	16·9	16·7	19·0	96	..	4·0	..	3·9	0	0	15	0	3	10	1	0	0	1	0	15	0
	0830	,,	1532·7	915·4	..	20·5	18·2	16·9	19·3	80	..	4·2	..	7·5	0	0	23	1	10	14	2	0	0	1	0	2	0
	1130	,,	1537·3	914·8	..	24·5	19·6	16·8	19·3	63	..	4·3	..	9·5	0	0	26	1	5	14	5	0	1	0	0	4	0
	1730	,,	1512·8	912·5	..	24·2	19·6	6·8	19·5	65	..	4·0	..	8·5	0	0	28	1	5	16	5	0	1	0	0	2	0
	2330	,,	1521·4	914·6	..	18·8	17·9	17·3	19·7	91	..	2·6	..	6·3	0	0	23	0	3	18	2	0	0	0	0	7	0
Mysore	0830	767	1014·3	929·1	+1·2	20·7	18·0	16·1	18·8	77	0	3·5	−1·1	10·2	0	4	25	1	6	8	6	4	2	1	1	1	0
	1730	,,	1009·4	926·0	..	25·7	18·6	14·0	16·3	50	..	3·8	..	12·8	0	5	25	4	7	9	6	2	1	0	1	0	0
Kerala																											
Calicut	0530	5	1011·0	1010·4	..	23·3	22·2	21·6	25·9	90	..	1·5	..	5·1	0	0	17	0	3	14	0	0	0	0	0	13	0
	0830	,,	1012·8	1012·2	0.5	25.9	22·7	21·0	25·0	75	−7	2·5	−1·7	5·1	0	0	25	0	6	19	0	0	0	0	0	5	0
	1130	,,	1012·5	1011·9	..	29·7	24·0	21·1	25·0	61	..	3·4	..	7·9	0	0	26	1	1	1	0	0	8	12	3	4	0
	1730	,,	1009·5	1008·9	..	29·3	24·4	22·1	26·6	66	..	3.5	..	9·2	0	0	28	0	0	1	0	0	0	16	11	2	0
	2330	,,	1012·0	1011·4	..	25·4	23·4	22·4	27·1	84	..	1·6	..	2·8	0	0	11	1	7	1	0	0	0	0	2	19	0
Palghat	0830	97	1013·1	1002·1	..	26·6	22·5	20·3	23·5	69	..	3·6	..	10.2	0	0	27	0	0	26	0	0	0	1	0	3	0
	1730		1008·9	998·1	..	29·5	23·3	19·9	23·7	58	..	3·3	..	8.9	0	0	27	0	1	20	1	0	1	4	0	3	0
Fort Cochin	0830	3	1012·5	1012·2	+0·5	27·0	23·6	21·8	26·3	71	−8	5·5	+1·5	5·1	0	0	28	1	14	12	1	0	0	0	0	2	0
	1730	,,	1009·0	1008·7	..	28·4	24·5	22·6	27·6	71	..	5·4	..	6·0	0	0	29	0	1	0	1	1	2	14	10	1	0
Cochin (Naval Air-Station)	0230	3	1010.6	1010·3	..	24·9	23·6	23·1	27·9	89	..	4·1	..	1·7	0	0	10	1	6	1	2	0	0	0	0	20	0
	0530	,,	1010·7	1010·4	..	24·0	22·9	22·4	26·9	91	..	3·7	..	2·1	0	0	12	1	7	4	0	0	0	0	0	18	0
	0830	,,	1012·6	1012·3	..	27·0	23·6	22.0	26·3	74	..	3·8	..	4·3	0	0	21	0	8	12	1	0	0	0	0	9	0
	1130	,,	1012·1	1011·8	..	29·7	24·4	21·8	26 3	63	..	4·1	..	6·2	0	0	28	0	2	3	2	2	1	6	2	2	10
	1730	,,	1009·4	1009·1	..	28·9	24·4	22.3	27·3	68	..	4·7	..	10·7	0	0	30	0	2	1	0	0	9	13	5	0	0
	2330	,,	1011·9	1011·6	..	25·8	24·2	23·5	28·9	87	..	4·8	..	2·5	0	0	10	1	3	4	2	0	0	0	0	20	0
Allepey	0830	4	1012·5	1012·1	+0.8	27·5	24·7	23·5	28·8	79	−2	3·9	−1·3	4·3	0	0	29	0	2	4	21	0	1	0	1	1	0
	1730	,,	1009·1	1008.7	..	29·1	25·3	23·6	29·1	73	..	4·6	..	15·5	0	2	28	0	0	0	0	0	1	5	24	0	0
Punalur	0830	34	1012·4	1008·6	..	25·0	22·8	21·7	25·9	82	..	4·8	..	0·7	0	0	5	0	1	2	1	0	0	0	1	25	0
	1730	,,	1008·9	1005·2	..	29·4	24·1	21·4	25·6	63	..	5·4	..	3·8	0	0	29	0	3	8	5	2	3	4	4	1	0
Trivandrum	0230	64	1010·0	1002·7	..	24·4	23·2	22.6	27·4	90	..	3·3	..	3·9	0	0	25	5	14	2	3	0	0	1	0	5	0
	0530	,,	1010·4	1003·1	..	23·7	22·7	22·1	26·7	91	..	3·4	..	4·1	0	0	25	4	10	9	1	0	0	0	1	5	0
	0830	,,	1012·4	1005·1	+0·6	26.6	23·6	22·2	26·6	77	−8	3·9	−1.1	4·5	0	0	28	2	14	3	2	1	1	1	4	2	0
	1130	,,	1011·6	1004·3	..	29·6	24·3	21·7	25·9	64	..	5·2	..	5·6	0	0	28	1	2	3	4	0	4	8	6	2	0
	1730	,,	1009·4	1002·2	..	27·8	24·2	22·5	27·3	74	..	4·4	..	6·1	0	0	28	0	1	1	0	1	8	14	3	2	0
	2330	,,	1011·7	1004·4	..	25.1	23·7	23 0	28.1	88	..	4·0	..	4·0	0	0	23	2	12	3	0	0	0	0	6	7	0
Trivandrum (Aerodrome)	0830	8	1012·4	1011·5	..	27·1	23·7	22·1	26.6	74	..	4·1	..	2·6	0	0	11	1	0	8	0	0	1	0	1	19	0
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir			..																								
Dalhousie	0830	1959	1467·8	802·1	+0·2	11·9	10·0	7·8	11·2	80	+27	1·4	+0·6	4·8	0	0	30	1	11	0	8	0	2	0	3	0	5
	1730	,,	1464.0	802.0	..	12·1	10·8	9·8	12·3	86	..	2·4	..	3·1	0	0	30	0	5	2	10	1	5	3	4	0	0
Dharmsala	0830	1211	1571·4	887.1	+0·4	14·6	8·7	2·2	7·1	44	−5	1·9	+0·6	2·1	0	1	17	8	5	1	2	0	0	1	1	12	0
	1730	,,	1570·9	886·7	..	16·5	10·8	5·2	8·9	48	..	3·3	..	4·0	0	0	26	0	3	1	1	0	5	12	4	4	0
Simla	0830	2202	1515.5	783.7	−0.3	10·3	3·0	−10·4	2·9	26	−8	1·3	0	2·1	0	0	30	1	8	0	17	0	4	0	0	0	0
	1730	,,	1513.5	783.2	..	9·3	5·0	−0.7	6·1	53	..	2·3	0	1·9	0	0	26	2	8	0	7	1	4	0	4	4	0
Lokpal	0830	..	..	..	..	−7·9	−9·0	−10·7	2·4	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830	..																									
Joshimath	0830	..	..	..	..	9·4	3·9	−3·1	4·4	43	..	2·7	..	6·2	0	0	25	0	3	14	5	0	0	1	0	5	2
	1730	..	..	..	..	11·4	5·7	−1·6	5·7	43	..	2·6	..	6·0	0	0	26	0	1	1	3	11	9	1	0	4	0

*Data given as addenda in December 1962 issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*																											
Mussoorie	0830	2042	1515·0	798·7	−0·9	11·2	6·2	0	6·3	51	+4	2·2	+1·0	2·7	0	0	18	5	1	0	3	3	1	0	5	12	
	1730	,,	1506·5	797·8	..	11·1	7·9	4·9	8·6	69	..	2·5	..	3·8	0	0	26	3	2	0	6	10	4	0	1	4	
Mukteswar (Kumaon)	0830	2511	3152·2	775·3	+0·3	10·3	3·6	−7·5	3·5	31	−12	2·2	+0·9	7·5	0	0	26	1	2	3	0	0	4	2	3	4	
	1730	,,	3137·6	773·3	..	10·3	5·3	1·7	5·6	47	..	2·1	..	9·5	0	3	25	10	1	0	0	0	0	4	13	2	
Nainital	0830	1953	1520·4	807·4	−0·1	11·7	6·9	−0·9	5·7	44	−9	2·9	+2·2	1·9	0	0	10	2	2	0	0	0	0	3	3	20	
	1730	,,	1496·3	805·3	..	10·6	6·9	3·0	7·7	69	..	2·4	..	5·5	0	0	29	1	1	0	0	0	1	22	0	1	
Kalimpong	0830	1209	1446·1	874·2	−0·9	15·7	13·8	12·4	13·4	83	+9	1·1	−0·8	3·0	0	0	30	1	0	0	1	0	0	0	28	0	
	1730	,,	1433·5	872·9	..	16·1	14·3	12·7	14·7	82	..	1·6	..	3·0	0	0	30	0	0	0	29	0	0	0	1	0	
Darjeeling	0830	2128	1497·9	758·9	−2·5	9·8	8·2	6·9	8·9	81	+29	5·0	+0·9	0·4	0	0	4	2	0	0	0	1	1	0	0	26	
	1730	,,	1472·8	756·7	..	10·4	9·1	7·5	10·4	84	..	5·1	..	0·5	0	0	3	0	0	0	0	0	2	1	0	27	
Kohima	0830	1466	1559·0	865·7	..	15·6	11·2	9·1	11·5	74	..	6·9	..	3·0	0	0	30	10	0	1	5	0	1	7	3	0	
	1730	,,	1520·5	861·7	..	14·8	13·1	11·8	13·8	82	..	2·0	..	7·3	0	0	30	10	2	0	0	1	7	2	8	0	
Shillong	0830	1500	1527·0	852·7	−0·2	15·8	11·8	8·5	10·9	65	−5	0·9	−1·2	1·7	0	0	15	2	0	5	1	1	1	4	3	15	
	1730	..	1511·0	851·6	..	15·0	13·2	11·8	13·8	82	..	0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	
Cherrapunji	0830	1313	1530·2	872·2	−0·3	15·9	12·5	9·7	12·0	65	+4	0·7	−1·6	1·2	0	0	26	4	8	6	0	0	5	1	2	4	
	1730	,,	1524·0	871·5	..	15·0	13·6	12·6	14·6	86	..	3·3	..	1·5	0	0	9	0	0	0	1	0	6	2	0	21	
Abu	0830	1145	1562·3	855·5	+0·6	17·4	11·7	6·2	8·7	49	+4	1·1	+0·1	0	0	0	0	0	0	0	0	0	0	0	0	30	
	1730	,,	1550·6	854·1	..	21·3	12·9	5·2	9·7	30	..	1·5	..	0·2	0	0	3	1	1	0	0	1	0	0	0	27	
Aijal	0830	..	..	..	..	19·4	15·4	12·6	14·6	66	..	1·9	..	3·0	0	0	30	4	1	11	4	5	1	2	2	0	
	1730	..	..	..	..	19·3	15·9	13·7	15·7	71	..	2·3	..	3·0	0	0	30	3	0	1	1	2	3	17	3	0	
Pachmarhi	0830	1075	1549·6	898·8	+1·2	17·4	14·1	11·6	13·7	69	+12	2·0	+0·5	0·7	0	0	9	2	4	0	0	3	0	0	0	21	
	1730	,,	1534·9	896·4	..	22·9	16·7	12·4	14·4	53	..	2·6	..	2·2	0	0	24	7	12	2	0	0	0	1	2	6	
Mahabaleshwar	0830	1372	1554·0	865·5	+0·8	17·5	13·3	9·6	12·2	61	−5	0·6	−1·6	11·0	0	0	30	0	12	12	6	0	0	0	0	6	
	1730	..	1517·0	863·7	..	20·3	15·3	11·4	13·7	56	..	1·6	..	9·7	0	0	30	0	13	4	4	6	1	3	0	9	
Mercara	0830	1152	1524·0	887·7	+0·9	17·8	16·1	14·9	17·0	88	0	2·4	−2·4	13·1	0	3	27	0	12	12	0	0	0	3	3	0	
	1730	,,	1507·1	885·5	..	21·6	17·5	14·8	16·1	67	..	3·5	..	10·3	0	0	30	3	11	12	6	0	0	2	2	0	
Ootacamund	0830	2249	1516·1	770·7	−0·8	15·2	11·2	7·3	10·7	68	−12	5·0	−1·6	..	..	..	..	0	5	9	0	0	0	0	0	16	
	1730	..	1502·9	772·4	..	14·8	12·2	10·1	12·5	75	..	4·0	..	..	..	..	..	0	4	10	0	0	0	1	0	15	
Coonoor (R)	0830	1747	..	..	..	..	..	..	..																		
Kodaikanal	0830	2343	3164·8	772·7	−1·2	13·5	10·5	6·5	10·0	74	−5	4·9	0	5·5	0	2	23	2	5	7	9	2	0	0	0	5	
	1130	..	3170·0	772·5	..	15·9	12·4	9·1	12·2	69	..	5·6	..	9·4	0	2	26	1	7	4	12	2	0	0	2	2	
	1730	,,	3145·3	771·0	..	13·6	11·9	11·0	13·1	87	..	5·7	..	4·2	0	0	13	1	5	2	5	1	1	0	3	12	
Nepal																											
Katmandu	0830	1324	1528·0	871·2	..	10·0	9·0	8·0	10·8	88	..	3·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	
	1130	,,	1523·3	870·1	..	10·8	13·2	7·5	10·4	45	..	3·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	
	1730	..	1504·6	858·4	..	15·3	12·0	9·1	11·6	67	..	2·1	..	0·1	0	0	0	0	0	0	0	0	0	0	1	29	
Sikkim																											
Lachen	0830		..	..	.	3·6	6·6	4·4	8·4	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological observatories Damodar Catchment																											
Tilaiya	0830	..	..	..	..	21·4	15·4	10·2	12·4	49	..	0·6	..	3·7	0	0	28	2	0	0	0	3	3	11	3	2	1
	1730	..	..	..	..	22·2	16·1	11·0	13·5	49	..	0·6	..	2·8	0	0	24	0	0	0	0	0	4	19	1	0	0
Hazaribagh	0830	615	1015·3	946·1	..	20·3	14·6	10·0	12·4	52	..	0·5	..	4·4	0	0	23	0	0	2	0	0	1	9	11	7	0
	1730	..	1012·9	943·7	..	19·6	15·0	11·6	13·7	61	..	0·9	..	0·7	0	0	6	1	0	0	0	0	0	4	1	24	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	0·6	..	9·9	0	3	27	0	0	0	0	0	0	26	4	0	0
	1730	.	..	..	..	..	..	..	..	..	..	0·2	..	5·3	0	0	30	0	0	0	0	0	0	27	3	0	0
Bokaro	0830	212	1016·4	988·7	..	20·5	17·4	15·4	17·4	73	..	1·6	..	3·0	0	0	28	1	0	0	1	0	7	4	14	2	1
	1730	,,	1012·4	983·8	..	21·3	18·8	17·2	19·6	77	..	2·7	..	3·4	0	0	30	9	11	1	4	0	0	1	3	0	1
Maithon	0830	..	..	..	.	..	..	..	..	..	..	0·8	..	6.0	0	0	30	6	0	1	0	0	1	19	3	0	0
	1730	..	..	..	..	..	..	..	..	..	..	1·0	..	6·4	0	0	30	11	1	0	0	0	1	7	10	0	0
Ramgarh	0830	..	..	..	..	18·7	14·4	10·7	13·0	60	..	0·7	..	1·0	0	0	10	0	0	0	0	2	6	1	1	20	0
	1730	..	..	..	..	23·2	17·0	12.2	14·4	51	..	1·3	..	0·2	0	0	2	0	0	0	0	0	1	1	0	28	0
Panchet Hills	0830	..	..	..	..	22·9	17·5	13.7	15·6	58	..	1·4	..	3·3	0	0	27	0	0	0	0	0	21	0	6	3	0
	1730	..	..	..	..	25·2	18·0	12·8	14·8	46	..	2·5	..	1·4	0	0	13	0	0	0	0	0	0	0	13	17	0
Durgapur	0830	..	..	..	..	22·1	17·5	14·1	16·6	61	..	0·8	..	6·0	0	0	30	6	6	0	0	0	0	1	17	0	0
	1730	..	..	..	..	25·2	18·9	14.5	16.8	52	..	0·7	..	4·2	0	0	30	6	1	3	0	6	2	2	10	0	0
Mahanadi Catchment																											
Ginabahar	0830	,,	..	..	..	19·3	15·1	11·4	13·5	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in c.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—Contd.																											
Mahbnodi Catchment—Contd.																											
Hirakud	0830	159	1016·4	998·1	..	22·5	18·8	16·6	13·9	69	..	1·0	..	1·5	0	0	15	4	3	2	1	1	1	0	1	15	2
	1130	"	1015·5	997·4	..	26·3	20·4	16·8	19·1	56	..	1·3	..	2·2	0	0	21	5	2	0	0	0	0	4	10	9	0
	1730	"	1012·5	994·5	..	26·2	20·2	16·3	18·5	55	..	1·1	..	0·6	0	0	6	0	0	0	0	0	0	2	3	24	1
Bhimkund	0830	..	..	..	..	18·1	16·0	14·5	16·5	81	..	1·2	..	2·6	0	0	18	10	6	0	0	0	0	0	2	12	0
	1730	..	..	..	..	23·5	18·4	15·0	17·0	59	..	1·5	..	0·6	0	0	6	2	1	0	2	1	0	0	0	24	0
Sonepur	0830	..	..	..	..	22·2	18·8	16·8	19·1	72	..	..	..	2·9	0	0	22	3	2	5	2	0	8	2	0	8	0
Khalawan	0830	..	..	..	..	21·6	17·2	13·9	15·9	62	..	1·4	..	4·5	0	0	30	1	1	5	14	3	4	1	1	0	0
	1730	..	..	..	..	24·0	18·0	13·4	15·4	52	..	1·6	..	5·2	0	0	30	4	9	7	6	0	2	0	2	0	0
Narmada Catchment																											
Bargi Lawa	0830	.	..	..	..	19·8	15·3	11·7	11·1	60	..	1·5	..	5·1	0	0	29	0	9	2	1	1	6	1	0	10	0
	1730	..	..	..	..	25·3	18·7	13·6	13·1	48	..	1·8	..	1·2	0	0	9	0	2	0	7	0	0	0	0	21	2
Pamna	0830	..	..	..	..	21·2	15·8	11·2	11·8	54	..	2·4	..	5·7	0	0	24	1	17	5	0	1	0	0	0	6	0
	1730	..	..	..	..	27·9	18·8	11·8	11·3	35	..	2·9	..	1·8	0	1	1	0	4	0	0	1	0	0	0	25	0
Tikri	0830	..	..	..	..	21·7	16·9	13·3	15·1	58	..	2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dera	0830	.	..	..	..	20·6	15·1	10·3	12·7	52	..	..	..	..	..	.	..	..	.	..	..	.	..	.	..	..	..
	1730	..	..	..	..	30·5	19·2	10·7	13·0	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomsom	0830	.	..	..	..	6·2	1·6	−4·7	4·1	33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	8·3	4·3	0·1	6·1	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kathmandu Bazar	0830	..	..	..	..	15·5	11·9	9·4	11·6	67	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·1	15·7	12·1	13·4	57	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..
Tansen	0830	..	..	..	..	8·2	3·4	0·4	5·9	55	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	13·0	9·6	6·6	9·7	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	16·7	13·[illegible]	10·4	12·6	66	..	1·9	..	3·1	0	0	22	2	1	0	2	1	10	2	4	8	0
	1130	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.		.	..	18·1	15·0	12·9	11·8	72	..	2·9	..	0·5	0	0	4	0	0	1	3	0	0	0	0	26	0
Gorkha†	†0830	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..
	1730	..	..	.	.	..	..	..	.	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..
Nawakot	0830	..	..	..	..	18·1	14·2	12·5	14·5	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·8	14·5	10·9	13·0	60	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Daulekh	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	.	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	.	..	..	..	..		..		..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	..	13·4	7·4	0·6	6·5	43	..	2·0	..	5·1	0	0	26	2	1	8	9	4	1	1	0	4	0
	1730	..	..	..	..	12·5	7·4	1·4	7·1	59	..	1·7	..	4·1	0	0	26	1	0	0	0	0	4	11	10	4	0
Sailayana	0830	..	..	..	..	16·4	11·8	7·7	10·5	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·0	12·6	8·9	11·4	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chautara	0830	..	..	..	..	14·0	11·0	8·6	11·2	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·0	12·2	8·5	11·1	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	10·1	7·9	6·4	9·6	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·0	10·3	9·3	11·7	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	8·3	5·5	2·8	7·5	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	4·0	3·1	2·1	7·1	8[illegible]	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Hydrometeorological Observatories—*Contd.*																										
Kosi Catchment—*Contd.*																										
Taplethok	0830	..	..	..	..	14·1	10·6	7·3	10·2	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·4	12·1	8·4	11·0	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	12·7	11·1	9·9	12·2	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·7	11·4	10·5	12·7	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	12·7	10·1	7·8	10·7	73	..	3·1	..	..	..	..	..	0	0	0	1	0	1	0	0	28
	1130	..	..	..	..	16·4	12·0	8·7	11·2	60	..	2·9	..	..	..	..	..	2	0	0	0	2	5	13	2	6
	1730	..	..	..	..	13·3	10·2	7·6	10·4	68	..	3·4	..	..	..	..	..	0	0	0	0	4	21	2	0	3
Okhaldhunga*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chainpur	0830	..	..	..	..	15·6	13·1	11·2	13·5	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·8	14·0	12·7	14·7	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	17·6	14·2	11·7	13·7	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·1	14·1	10·2	12·4	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Parahakshetra	0830	146	1016·5	999·5	..	17·3	15·9	14·5	16·5	81	..	1·4	..	2·8	0	0	28	2	7	3	4	1	8	0	3	2
	1130	,,	1014·4	997·7	..	25·0	19·3	15·7	18·2	56	..	2·4	..	3·9	0	0	29	0	0	0	1	0	20	6	2	1
	1730	,,	1012·8	995·9	..	20·1	18·0	16·6	19·0	80	..	1·9	..	3·1	0	0	29	0	2	6	11	3	4	2	1	1
Tista Catchment																										
Gangtok	0830	1812	1526·8	821·9	..	12·0	10·3	9·0	11·4	82	..	3·1	..	1·6	0	0	18	1	7	0	0	5	5	0	0	12
	1130	..	1511·7	820·8	..	16·4	12·3	9·3	11·6	64	..	3·9	..	4·9	0	0	30	0	1	0	0	8	17	3	1	0
	1730	..	1502·7	819·7	..	12·7	11·1	9·9	12·2	83	..	5·4	..	2·3	0	0	30	0	0	0	0	9	21	0	0	0
Gezing	0830	..	..	..	..	15·1	12·3	10·3	12·5	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·0	12·0	10·5	12·7	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not available.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations ;

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

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

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

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

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

5—2 D. D. G. Obs.P/67

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13.	Bhopal/Bairagarh	23 17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0830		1730	
21.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
22.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	233
23.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	233
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	233
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	233
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	233
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	233
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	233
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	233
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	233
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	233
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	233
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	233
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	233
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1959	0530*	1130	1730*	233
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1926	0530		1730	233
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730*	233
40.	Nagpur/Sonegoan	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	233
41.	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	233
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	233
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	233
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	233
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1130	1730	233
47.	Srinagar	34°06′	74°48′	1603	1st August, 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	233
49.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1130*	233
50.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	233
51.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	233
52.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	233
53.	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	233
54.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	23

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

November 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·3	0·2	173	30	0·3	0·1	332	30	0·3	0·2	056	30	1·9	1·7	062	30	3·1	2·7	088	30	2·1	1·8	045
0·15 a.g. .	30	2·5	1·1	080	30	2·2	1·4	331	30	2·4	1·4	354	30	5·4	4·5	065	30	3·5	3·1	086	30	3·3	2·5	048
0·3 a.m.s.l.	30	2·6	1·2	023	30	2·1	1·2	330	30	2·2	1·1	331	30	5·3	4·1	071	30	3·6	3·2	090	30	3·3	2·5	050
0·6 ,, .	30	2·7	1·6	023	30	1·8	1·0	333	30	2·1	1·5	318	30	3·7	2·4	072	30	3·7	2·7	088	30	3·2	2.5	050
0·9 ,, .	30	3·1	1·8	357	30	1·9	0·9	307	30	2·4	1·7	298	30	2·9	1·5	090	30	3·4	2·2	088	30	3·1	2·0	053
1·5 ,, .	30	4·5	2·7	304	30	3·5	2·5	305	30	3·8	2·6	296	30	3·4	0·6	156	30	3·2	1·1	110	30	2·7	1·1	038
2·1 ,, .	30	5·7	4·0	286	30	6·1	4·9	298	30	5·7	4·4	292	30	4·1	2·1	237	30	3·5	1·1	215	30	3·3	1·4	290
3·0 ,, .	30	10·1	9·2	295	28	10·1	9·5	288	30	10·4	9·7	285	30	5·5	4·6	252	30	5·6	4·5	248	30	5·5	4·2	270
3·6 ,, .	28	11·9	11·3	282	27	14·0	13·2	285	8	10·6	10·3	279	30	8·4	7·7	258	29	7.1	6.4	255	30	7·9	7·3	253
4·5 ,, .	26	14·5	14·2	278	27	16 1	15·8	284	2	15·7	15·7	278	30	11·1	10·4	258	29	10·3	9·9	255	30	10·6	9·9	253
5·4 ,, .	18	16·7	16·1	279	24	18·4	18·1	278					30	14·9	14·5	260	28	13·5	13·4	256	30	13·6	13·0	259
6·0 ,, .	13	17·0	16·6	275	24	19·2	19·0	277					30	17·7	17·0	258	27	15·8	14·9	255	30	15·8	15·0	258
7 2 ,, .	3	13·8	13·7	278	16	20·9	20·1	269					30	22·1	21·7	255	16	18·0	17·1	254	30	20·6	20·0	253
9·0 ,, .					9	24·8	24·4	257					29	29·0	28·6	254	5	23·8	23·6	246	28	29·4	28·6	252

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·1	0·6	060	30	0·2	0·2	276	30	1·3	1·2	280	30	0·3	0·3	293	30	0·1	0·1	267	30	1·9	1·2	321
0·15 a.g. .	30	4·7	3·8	055	30	4·3	3·7	298	30	3·2	2·7	275	30	4·8	4·3	300	30	5·3	4·4	307	30	9·9	6·9	336
0·3 a.m.s.l. .	30	4·4	3·7	060	30	4·3	3·7	298	30	3·4	2·9	280	30	4·8	4·3	300	30	5·5	4·8	311	30	3·9	2·7	333
0·6 ,, .	30	3·9	2·9	065	30	5·3	4·7	320	30	4·4	3·9	300	30	5·3	4·9	302	30	6·5	5·6	311	30	9·7	7·6	333
0·9 ,, .	30	3·2	2·3	068	30	5·9	5·4	317	30	5·9	5·3	305	30	5·6	5·4	306	30	6·9	6·3	307	30	9·7	7·7	331
1·5 ,, .	30	3·4	1·8	095	30	7·9	7·5	310	30	8·3	7·8	310	30	7·1	6·6	312	30	7·7	7·3	305	30	8·4	6·1	315
2·1 ,, .	29	3·9	1·1	070	30	8·4	7·8	303	30	9·1	8·3	310	30	7·9	7·4	302	30	8·1	7·5	299	30	7·5	5·5	307
3·0 ,, .	27	4·3	2·9	260	30	8·8	8·3	292	29	8·8	7·9	295	30	8·8	8·1	292	26	8·5	7·9	298	29	7·3	5·4	295
3·6 ,, .	4	4·8	4·4	275	30	10·1	9·2	282	29	10·6	9·5	285	30	10·7	10·0	289	9	8·1	7·4	287	27	7·9	5·9	277
4·5 ,, .					30	14·2	13·7	277	27	14·8	14·6	270	30	14·5	14·0	280	2	10·5	9·7	296	19	9·9	8·8	274
5·4 ,, .					29	17·6	17·1	270	22	19·4	18·9	270	30	17·7	17·4	274					11	12·8	12·2	272
6·0 ,, .					29	19·6	19·2	272	21	23·3	22·9	270	30	19·7	19·3	272					6	15·0	14·3	267
7·2 ,, .					27	25·5	25·0	266	12	27·3	26·8	273	30	26·3	25·8	267								
9·0 ,, .					21	31·5	31·0	260	4	32·6	32·5	265	23	32·5	31·7	264								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·7	1·8	324	30	2·8	2·3	308	30	2·5	1·8	323	30	0·7	0·5	069	30	3·6	3·3	081	30	2·9	2·6	102
0·15 a.g. . .	30	5·5	4·3	328	30	7·3	6·0	309	30	11·0	8·9	330	27	3·4	2·9	084	29	5·2	5·0	080	30	6·8	6·4	097
0·3 a.m.s.l. .	30	3·8	2·5	324	30	3·9	3·1	303	30	4·7	3·4	328												
0·6 ,, .	30	7·2	5·8	333	30	7·9	6·8	309	30	11·3	9·5	330	27	4·3	3·8	092	29	5·2	4·9	083	30	7·2	6·8	097
0·9 ,, .	30	11·5	6·1	325	30	8·7	7·2	311	30	10·1	8·5	327	27	6·2	5·8	083	29	4·9	4·7	082	30	6·6	6·2	090
1·5 ,, .	30	7·5	4·9	314	30	8·1	6·3	311	30	8·9	6·9	319	26	6·4	6·0	073	29	5·8	5·3	078	29	6·0	5·0	073
2·1 ,, .	30	7·6	4·5	318	30	7·9	5·6	314	28	8·2	6·5	306	26	6·8	6·0	073	28	7·3	6·3	077	28	7·0	5·6	076
3·0 ,, .	30	8·2	5·1	288	30	7·6	5·3	296	23	6·3	5·2	280	25	5·8	5·4	083	25	6·8	5·6	083	26	6·5	5·5	080
3·6 ,, .	27	7·6	6·1	272	27	7·5	5·9	278	20	3·3	2·6	270	25	5·9	5·4	088	23	6·0	4·8	082	25	6·5	5·7	083
4·5 ,, .	23	9·8	8·7	266	21	10·0	8·9	279	4	8·7	8·3	275	24	6·8	5·9	094	24	6·0	5·2	091	15	6·2	5·4	092
5·4 ,, .	20	12·7	11·1	271	19	13·2	12·0	268					22	6·2	5·1	116	24	5·8	4·9	104	10	7·2	6·3	057
6·0 ,, .	20	15·8	15·4	266	17	17·3	16·4	265					22	6·1	5·0	119	24	6·1	4·9	115	5	6·2	5·4	141
7·2 ,, .	9	21·9	9·9	262	3	20·5	20·3	273					21	5·1	4·0	146	20	5·6	3·6	143	1	3·5	3·5	180
9·0 ,, .	3	36·0	35·9	272	2	33·5	33·1	270					17	6·1	4·9	216	20	5·6	3·1	188				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·5	0·5	279	30	0·6	0·6	307	30	1·5	0·1	310	30	0·3	0·1	342	30	1·3	1·0	054	30	0·5	0·4	090
0·15 a.g. . .	30	4·0	3·3	304	30	3·3	2·7	305	30	4·2	2·9	336	30	5·7	4·9	102	29	3·4	2·7	079	30	6·2	5·6	078
0·3 a.m.s.l. .	30	4·1	3·3	312	30	3·4	2·8	307	30	4·4	3·1	338												
0·6 ,, .	30	4·5	3·4	324	30	4·1	3·6	307	30	4·9	4·0	327												
0·9 ,, .	30	4·8	4·2	316	30	4·4	4·0	307	30	5·0	4·1	310	29	6·3	5·8	110	29	3·1	2·4	078	30	7·2	6·6	086
1·5 ,, .	30	6·8	6·1	314	30	5·6	5·4	322	29	7·2	6·5	302	29	4·2	3·6	082	29	3·7	2·5	073	30	5·9	5·4	087
2·1 ,, .	30	8·6	7·5	310	30	7·9	7·4	311	28	8·8	8·5	310	28	3·4	1·6	061	29	4·1	2·5	068	28	3·5	2·5	087
3·0 ,, .	28	10·2	9·3	298	30	11·0	10·2	298	24	10·7	10·3	292	25	4·0	0·5	136	26	3·1	0·3	045	26	3·9	1·2	142
3·6 ,, .	25	12·1	11·6	288	29	12·6	12·4	292	15	11·6	11·3	277	6	3·5	0·5	304	25	3·9	0·6	085	15	4·0	0·7	235
4·5 ,, .	20	14.7	14·1	285	23	15·2	14·8	281	11	12·1	11·7	279					22	4·9	2·5	239	1	3·0	3·0	275
5·4 ,, .	9	16.7	16·3	276	13	18·9	18·3	274	2	11·7	10·6	291					22	5·5	4·5	243				
6·0 ,, .	3	19·0	18·7	279	9	23·0	23·0	271									19	7·5	6·3	244				
7·2 ,, .	3	29·8	29·7	286	4	25·5	25·0	259									1	15·0	15·0	220				
9·0 ,, .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·3	0·2	275	30	0·4	0·3	260	30	0·5	0·5	283	30	2·5	2·3	066	30	3·6	3·2	091	30	3·0	2·7	079
0·15 a.g.	30	4·5	3·5	300	30	2·2	1·1	274	30	4·0	3·5	285	24	6·6	6·0	068	28	4·7	4·3	073	29	5·4	4·8	081
0·3 a.m.s.l.	30	4·6	3·4	308	30	2·3	1.1	285	30	4·1	3·6	286												
0·6 ,,	30	5·4	4·8	304	30	4·5	3·1	301	30	5·3	4·7	291												
0·9 ,,	30	6·4	5·9	306	30	6·1	4·5	302	30	6·4	5·8	296												
1·5 ,,	30	8·4	7·5	305	30	7·9	6·9	302	30	8·6	7·8	306	24	7·2	6·2	070	28	5·7	5·2	083	29	6·2	5·8	078
2·1 ,,	29	8·7	7·6	306	30	9·1	8·3	302	30	8·6	7·7	304	23	7·8	7·2	080	23	8·0	7·7	081	28	6·2	5·7	073
3·0 ,,	29	9·1	8·5	294	30	9·3	8·8	298	30	10·4	9·6	297	23	7·3	6·8	083	21	7·7	7·4	079	27	7·3	6·2	085
3·6 ,,	28	10·8	10·3	289	30	11·0	10·6	290	29	11·2	10·7	295	23	7·4	6·7	087	21	8·1	7·5	085	25	7·8	7·2	088
4·5 ,,	24	12·5	12·2	285	29	14·6	14·1	281	29	14·5	14·0	286	22	9·1	8·5	093	19	9·4	8·7	091	24	8·6	8·0	091
5·4 ,,	16	17·2	16·7	279	27	18·4	17·8	276	26	19·5	19·1	279	22	9·0	7·9	103	18	9·7	8·6	099	24	8·5	7·8	097
6·0 ,,	11	21·4	20·8	277	27	21.0	20·4	275	25	22·2	21·6	276	22	8·5	7·3	110	17	9·3	8·4	103	23	8·4	8·0	100
7·2 ,,	4	28·6	28·2	272	24	30·2	29·8	274	20	28·9	28·5	273	22	6·4	5·2	120	16	7·2	5·4	113	23	6·7	5·3	104
9·0 ,,					17	39·0	38·5	271	10	39·2	39·0	267	18	6·4	4·8	116	14	5·7	3·8	144	20	5·4	3·6	143

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3.1	2·9	084	30	1·5	1·2	295	30	1·8	1·6	288	30	0·3	0·2	090	30	1·6	1·4	074	30	1·0	0·8	057
0·15 a.g.	26	8·7	8·1	088	30	5·8	4·6	308	30	5·2	4·5	295	27	3·9	0·3	088	30	4·5	4·1	075	29	5·9	5·1	085
0·3 a.m.s.l.					30	5·4	4·4	308	30	4·8	4·2	295												
0·6 ,,					30	7·6	6·9	309	30	6·4	5·7	298	27	2·9	2·2	080	30	3·9	3·6	075	29	4·4	3·9	080
0·9 ,,					30	8·3	7·7	309	30	7·0	6·5	301	27	5·0	4·6	083	30	4·5	4·1	075	29	6·1	5·6	085
1·5 ,,	26	7·4	6·6	077	30	9·4	8·7	307	30	8·3	7·9	303	27	6·2	5·3	075	30	4·7	4·2	075	29	6·5	5·9	080
2·1 ,,	26	7·1	6·1	073	30	9·5	8·9	305	30	8·7	8·2	304	27	6·3	5·2	072	30	5·6	4·7	075	28	6·5	5·7	079
3·0 ,,	25	6·7	6·2	081	22	8·7	7·7	291	28	9·0	8·6	297	25	5·5	4·1	079	28	5·8	4·0	088	27	5·1	3·4	081
3·6 ,,	23	8·2	7·7	086	17	8·6	7·9	279	27	10·8	10·0	289	24	4·7	3·4	084	27	4·9	3·3	070	18	4·3	3·2	075
4·5 ,,	18	8·3	7·6	097	12	12·2	11·2	277	22	13·7	13·0	289	24	3·4	2·0	087	26	3·5	1·2	085	12	3·6	0·9	083
5·4 ,,	10	7·9	7·6	112	6	14·5	13·0	279	20	18·0	17·1	279	22	4·3	2·1	150	25	4·0	1·6	191	5	3·4	2·4	149
6·0 ,,	7	7·7	6·9	124	2	13·3	11·5	268	19	20·3	20·0	274	21	5·0	3·3	175	23	4·6	2·2	177	4	4·9	3·7	162
7·2 ,,	1	7·0	7·0	115					16	25·0	24·6	272	18	4·7	4·0	214	21	5·5	3·2	327	1	5·0	5·0	200
9·0 ,,									1	48·0	48·0	260	17	9·0	8·2	232	18	8·3	7·3	233				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I.S.T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·6	229	30	1·6	1·5	281	30	1·2	0·7	048	30	2·1	1·3	017	30	1·8	1·2	036	30	1·1	1·0	356
0·15 a.g.	30	3·7	3·0	263	30	4·2	3·8	281	21	4·2	2·5	109	21	2·8	1·8	025	21	5·5	3·3	043	30	3·0	2·3	352
0·3 a.m.s.l.	30	3.5	2·6	287	30	4·4	4·0	284													30	2·9	1·3	021
0·6 ,,	30	3·9	3·0	305	30	4·8	4·5	284	21	3·7	2·1	108	21	2·7	1·6	027	21	5·2	3·2	040	30	3·4	2·1	029
0·9 ,,	30	4·6	3·5	299	30	5·3	4·8	283	21	3·5	1·5	109	21	2·9	2·2	027	21	5·1	2·9	060	30	4·0	3·3	032
1·5 ,,	30	7·4	6·5	296	29	6·8	6·1	290	20	3·1	1·3	012	21	2·6	2·0	028	21	3·0	1·5	079	30	5·0	4·5	029
2·1 ,,	29	9·0	7·9	297	28	8·9	8·4	300	19	4·1	2·4	334	20	2·8	1·7	353	20	2·4	0·9	353	29	4·4	3·4	004
3·0 ,,	25	12·1	11·3	291	28	12·5	11·7	299	18	5·6	3·9	300	18	6·6	5·1	286	20	5·5	4·4	300	29	4·8	4·2	321
3·6 ,,	20	12·1	11·7	288	25	13·9	13·5	293	17	7·9	6·7	284	17	8·1	7·0	285	8	7·9	6·6	304	27	5·1	4·1	290
4·5 ,,	14	15·5	15·3	281	23	16·3	16·2	285	14	10·6	9·6	270	17	10·6	9·7	273	1	9·5	9·5	280	26	5·7	4·5	283
5·4 ,,	8	18·5	18·3	280	19	18·5	18·4	284	12	11·7	11·0	265	15	12·1	11·0	269					25	7·1	5·9	278
6·0 ,,	2	21·0	20·5	288	12	19·3	19·0	284	11	13·0	12·7	265	12	13·9	12·6	260					19	7·5	7·0	258
7·2 ,,	2	22·0	22·0	281	3	22·8	22·8	275	9	17·7	17·3	255	7	17·6	16·9	267					10	11·0	10·3	242
9·0 ,,									2	23·0	22·9	248	2	19·5	19·5	273					4	13·7	13·7	243

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·5	0·4	050	30	0·6	0·3	055	30	0·7	0·6	360	30	2·8	2·1	032	30	1.6	1·0	010	30	0·4	0·1	235
0·15 a.g.	30	2·5	1·6	025	30	3·5	1·4	121	30	4·7	3·4	013	30	4·4	3·0	030	30	5·7	3·6	006	29	6.2	1.8	100
0·3 a.m.s.l.	30	2·4	1.6	020	30	3·3	1·3	081	30	5·7	4·2	025	30	4·4	3·0	032	30	6·1	4·0	013	29	5·1	1·5	115
0·6 ,,	30	2·8	2·2	011	30	3·0	1·7	025	30	6·0	4·1	040	30	4·4	2·8	033	30	5·6	3·9	029	29	5·8	1·5	355
0·9 ,,	30	3·1	2·5	010	30	3·9	2·7	018	29	4·6	2·5	060	30	4·3	2·4	039	30	4·5	3·1	055	29	5·5	1·6	318
1·5 ,,	30	4·3	3·5	354	30	5·1	3·9	009	29	4·1	2·0	139	30	3·7	0·7	075	30	4·5	2·7	120	29	4·8	2·2	272
2·1 ,,	30	5·0	4·0	344	30	5·1	4·0	005	30	4·1	1·7	185	29	3·8	1·3	222	30	4·9	2·8	170	29	5·1	3·7	294
3·0 ,,	30	5·5	4·7	316	27	4·4	3·2	340	29	5·4	4·2	255	29	5·4	4·3	244	29	5·1	3·9	239	29	7·5	4·8	282
3·6 ,,	30	5·5	4·7	303	7	3·4	1·9	290	5	7·2	5·5	281	27	8·1	7·2	258	10	6·9	6·4	257	29	9·1	6·4	264
4·5 ,,	30	6·4	5·3	287					4	10·7	10·1	271	26	10·5	9·9	266	4	13·4	12·2	263	24	12·4	10·7	265
5·4 ,,	29·	7·8	6·9	274					2	10·5	10·3	262	26	13·8	13·1	258	3	11·8	11·5	257	11	15·4	14·8	268
6·0 ,,	28	9·1	8·1	267					1	5·5	5·5	280	25	16·1	15·5	253	2	15·0	14·4	257	5	16·5	16·2	267
7·2 ,,	23	11·1	10·2	259									9	22·9	21·5	253	1	12·0	12·0	250	2	26·0	26·0	273
9·0 ,,	9	14·8	14·3	262									4	29·7	29·5	249								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	BIKANER								BOMBAY/SANTA CRUZ															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	0·4	0·2	315	30	0·2	0·2	355	30	1·2	1·2	093	30	1·9	1·8	093	30	4·3	3·4	307	30	1·3	0·9	040
0·15 a.g. .	30	3·3	1·4	318	30	6·6	2·3	033	30	4·4	3·6	074	30	3·5	3·1	094	30	5·7	4·4	311	30	4·7	4·0	006
0·3 a.m.s.l. .	30	3·3	1·2	328	30	5·4	2·2	045	30	4·7	3·7	085	30	3·9	3·5	097	30	4·6	3·1	321	30	5·4	4·6	003
0·6 ,, .	30	3·8	1·7	312	30	5.4	2·3	026	30	5·0	3·9	100	30	4·2	3·5	106	30	3·3	1·9	355	30	5·4	4.2	019
0·9 ,, .	30	3·6	1·5	315	30	4·6	0·5	017	30	4·7	3·7	115	30	4·1	3·5	101	30	3·5	2·5	040	30	5·1	3·7	046
1·5 ,, .	30	3·7	2·2	298	30	4·6	1·9	280	30	3·9	3·2	122	30	3·6	2·4	109	30	4·5	3·5	080	30	5·2	4·3	092
2·1 ,, .	30	4·8	3·7	272	29	5·3	4·3	259	30	3·8	2·8	150	30	3·5	2·1	093	30	4·7	3·4	092	29	6·6	5·7	105
3·0 ,, .	30	7·2	6·2	271	29	6·5	5·6	263	29	3·3	1·2	115	29	4·1	1·9	125	30	4·2	2·5	107	29	4·0	1·9	144
3·6 ,, .	30	9·6	8·8	268	17	9·6	8·7	266	29	3·5	1·1	228	29	3·6	1·1	175	29	4·3	1·3	145	23	3·9	1·9	176
4·5 ,, .	28	13·5	12·6	267	6	9·5	9·5	261	29	4·7	2·6	248	29	4·3	2·4	222	28	4·4	2·5	215	12	4·2	2·0	214
5·4 ,, .	27	17·2	16·5	264	1	19·5	19·5	250	29	5·7	4·3	232	28	5·8	4·7	218	27	6·1	4·8	235	7	8·0	5·0	215
6·0 ,, .	20	20·0	19·5	264					28	6·7	4.7	233	28	7·6	6·0	218	27	6·6	5·8	234	7	9·5	4·9	220
7·2 ,, .	3	23·3	22·7	265					28	9·1	8·3	236	27	10·4	9·5	228	28	10·0	9·1	237	4	18·0	8·6	175
9·0 ,, .	2	33·2	32·3	260					26	14·4	13·3	244	20	15·8	15·1	239	26	14·4	14·0	243				

Station	CALCUTTA/DUMDUM																COCHIN/WILLINGDON†							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·2	0·1	328	30	1·5	0·6	334	30	0·3	0·2	296	30	0·3	0·1	285	30	0·7	0·7	062	30	2·3	1·7	274
0·15 a.g. . .	30	3·6	2·0	331	30	2·5	1·8	343	30	3·1	2·5	312	30	2·8	1·0	306	30	3·1	2·2	086	28	3·7	2·9	281
0·3 a.m.s.l. .	30	3·5	2·3	340	29	2·7	2·0	340	30	3·1	2·6	313	30	2·6	1·6	322	30	2·8	1·7	080	28	3.3	2·6	297
0·6 ,, .	30	3·4	2·8	353	29	3·6	2·8	339	30	3·0	2·4	325	30	3·2	2·6	327	30	2·6	1·4	079	28	2·7	2·0	346
0·9 ,, .	30	3·9	3·3	350	29	4·6	3·7	336	30	3·5	3·2	329	30	4·5	4·1	332	30	2·8	1·7	082	28	3·0	2·1	038
1·5 ,, .	30	5·0	4·3	335	29	5·4	4·9	330	30	4·8	4·2	325	30	6·6	5·9	332	30	3·1	1·6	067	28	4·9	4·3	091
2·1 ,, .	30	5·5	4·6	318	26	6·9	6·2	315	30	6·4	5·4	319	30	7·3	6·4	323	29	4·5	3·0	092	28	5·1	4·4	084
3·0 ,, .	30	8·1	7·5	297	26	9·6	9·1	295	30	8·6	8·1	237	27	8·3	7·6	300	27	5·7	5·0	086	23	5·0	4·4	091
3·6 ,, .	30	9·2	8·8	293	26	10·7	10·7	287	30	9·9	9·3	295	11	8·7	8·4	284	21	6·0	5·5	095	21	5·8	4·9	084
4·5 ,, .	30	11·3	10·7	283	23	12·3	12·1	282	30	11·2	9·0	283					11	6.2	5·9	091	15	8·1	7·2	090
5·4 ,, .	29	12·7	12·0	279	22	14·0	13·7	276	30	13·3	12·8	277					4	7·5	7·5	065	12	8·0	7·3	092
6·0 ,, .	29	14·3	13·5	275	21	15·8	15·1	274	30	14·2	13·6	271					2	8·3	8·3	080	12	7·4	6·2	094
7·2 ,, .	28	16·0	15·5	263	14	17·7	17·1	263	29	17·4	16·8	267									8	6·3	4·6	092
9·0 ,, .	27	19·3	19·0	263	7	20·8	20·6	252	28	20·3	19·8	261									3	5·0	3·9	126

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	COCHIN WILLINGDON†				DARJEELING								DEHRADUN								DIBRUGARH/ MOHANBARI			
Time in I. S. T.	2330				0830				1730				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·7	0·5	078	calm				30	0·7	0·6	228	30	4·3	0·3	030	30	0·6	0·5	273	30	0·5	0·4	072
0·15 a.g.	28	2·6	0·7	067	21	1·2	0·7	120	19	2·9	2·8	227	29	1·5	1·3	054	29	2·4	1·9	286	26	3·4	2·2	064
0·3 a.m.s.l.	28	2·7	0·5	025																	26	3.5	3·3	058
0·6 ,,	28	3·2	1·0	058																	26	2·4	1·8	047
0·9 ,,	28	3·4	2·2	087									29	1·5	1·3	076	29	2·5	1·9	285	26	1·8	0·7	075
1·5 ,,	27	4·2	3·4	093									29	2·2	0·2	333	29	2·2	1·2	289	24	2·5	0·6	125
2·1 ,,	24	4·3	3·8	088									29	3·6	0·8	314	29	3·6	1·6	284	21	2·9	1·0	201
3·0 ,,	20	5·3	4·4	093	21	4·3	2·9	290	18	2·8	2·0	300	28	4·3	1·8	283	27	4·2	2·2	302	18	3·0	0·9	144
3·6 ,,	13	5·8	5·2	091	18	11·7	10·0	282	8	6·5	4·0	302	28	5·3	4·0	275	26	4·7	2·8	296	17	5·1	0·8	233
4·5 ,,	1	8·0	8·0	100	8	13·7	9·6	273	4	7·5	6·9	288	26	8·8	7·5	268	26	6·9	5·8	287	9	8·2	5·9	283
5·4 ,,					5	13·3	11·9	288	4	10·3	9·0	286	18	14·6	14·0	264	25	10·0	9·4	275	7	14·3	11·4	266
6·0 ,,					5	19·0	19·0	285	2	16·7	16·1	291	11	14·8	14·2	268	22	14·7	14·0	273	3	18·5	18·3	279
7·2 ,,					4	27·0	27·0	284	1	24·0	24·0	300	2	24·3	24·3	266	9	22·1	21·8	267				
9·0 ,,					1	40·0	40·0	280	1	43·5	43·5	290												

Station	DIBRUGARH/MOHANBARI												GADAG											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·4	0·3	024	30	0·5	0·4	047	30	0·3	0·3	040	30	3·7	3·2	103	30	3·5	3·0	092	30	4·5	3·2	091
0·15 a.g.	29	2·4	1·7	024	30	2·5	1·7	050	30	2·7	2·7	029	29	7·8	6·8	103	30	6·4	5·3	084	30	8·7	7·3	092
0·3 a.m.s.l.	29	2·3	1·5	032	30	2·5	1·7	052	30	2·4	2·0	036												
0.6 ,,	29	2·1	1·3	042	30	2·1	1·1	064	30	2·2	1·8	057												
0·9 ,,	29	2·0	0·6	087	30	2·0	0·3	107	30	2·1	1·6	075	29	8·2	7·5	097	30	6·5	5·7	084	30	8·9	7·6	093
1·5 ,,	27	2·6	1·2	212	30	2·8	1·8	200	29	2·2	0·7	149	28	8·3	7·2	077	29	6·2	5·8	080	30	8·7	8·4	086
2·1 ,,	25	3·5	2·2	190	30	3·9	3·3	205	28	3·1	2·1	205	26	8·0	6·9	078	28	6·7	6·2	078	29	8·2	7·6	082
3·0 ,,	21	3·9	2·7	175	26	4·9	3·7	197	24	3·6	1·7	207	26	6·3	5·2	085	26	6·9	6·0	080	28	6·7	5·7	085
3·6 ,,	19	5·8	2·7	237	23	5·2	2·4	208	12	5·7	0·9	244	24	5·6	4·3	080	25	6·8	5·6	081	26	6·5	5·3	084
4·5 ,,	13	10·4	8·2	267	19	9·5	6·4	269					24	6·4	4·4	094	23	6·7	5·3	088	18	6·7	5·3	084
5·4 ,,	12	14·5	12·6	273	14	14·9	13·8	267					23	6·0	4·5	119	20	6·1	5·0	121	6	6·3	3·7	138
6·0 ,,	12	15·3	14.2	223	13	19·5	19·3	267					22	6·5	4·3	131	17	5·6	4·3	144	2	6·3	6·3	150
7·2 ,,	9	22·2	21·7	275	11	26·0	25·3	276					20	5·5	3·5	151	17	5·6	3·9	176				
9·0 ,,	3	38·8	38·6	283	3	38·7	38·5	277					18	6·4	4·5	214	14	7·6	5·2	206				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface		CALM			30	1·3	0·6	348	30	0·1	0·1	225	30	0·5	0·3	212	30	1·2	1·0	200	30	1·4	1·3	294
·15 a.g.	30	1·4	0·6	085	30	1·8	0·9	005	30	2·9	1·1	324	30	2·4	1·5	210	30	4·4	0·9	210	30	4·5	4·1	298
·3 a.m.s.l.	30	2.0	0·6	071	30	2.1	0.9	008	30	2.9	1.2	318	30	2·4	1·2	233	30	4.4	3·7	271	30	4·6	4·1	296
·6 ,,	30	3.0	0·5	314	30	2.7	0.2	017	30	2.6	1·2	290	30	3·0	0·9	268	30	4·3	3·8	304	30	4·9	4·7	289
·9 ,,	30	3·3	0·6	251	30	3.3	0·8	203	30	3·1	1·7	257	30	3·3	1·7	273	30	5·4	5·9	305	30	5·3	5·2	288
·5 ,,	30	4·6	1·0	241	30	4·3	1·9	225	30	4·1	3.1	247	30	4·3	2·7	265	30	7·2	6·7	300	30	7·0	6 5	291
·1 ,,	30	5·7	1·6	248	30	6·1	3·6	254	30	6·0	3·8	241	29	5·3	2.2	265	30	9·1	7·8	302	30	8 9	8·4	299
·0 ,,	30	10·0	6·5	283	29	12·0	9·1	268	30	9·9	6·7	282	27	7·9	3·5	285	27	9.7	9·4	295	27	10·2	10·0	301
·6 ,,	29	14·9	13·9	276	27	17·9	15·0	273	29	15·7	14·5	276	10	15·1	11 8	282	16	10 8	10·4	287	19	11·5	11·2	289
·5 ,,	29	20·7	20·0	274	25	21·9	20.8	272	28	21·3	20·9	274	4	18·1	15·4	263	9	14·2	13·6	2.6	13	15·7	15·2	280
4 ,,	29	24·0	23·4	274	20	23·5	23·0	273	28	24·2	23·8	275	1	14·5	14·5	250	5	14·5	13·7	2.9	5	20·1	19·5	265
·0 ,,	29	26·4	25·9	275	18	24·0	23·3	275	28	27·4	26.9	276					1	16·5	16.5	290	3	21·0	20·5	267
2 ,,	28	33·4	32·8	274	12	27·5	26·8	277	28	33.0	32.5	273												
0 ,,	17	36·7	36·1	272	5	32·2	31·0	276	5	33.4	33.0	270												

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·7	0·5	183	30	2·6	2·6	321	30	2·5	2·0	084	30	1·4	1·2	316	30	0·4	0·3	268	30	0·8	0·7	268
·15 a.g.	30	4·1	3·2	288	30	4·5	3·9	336	30	3·3	2·7	085	30	2·7	0·7	055	30	3 8	2·5	300	30	3·3	2·7	274
·3 a.m.s.l.	30	4·3	3·7	294	30	3·0	1·8	024	30	3·1	2·5	067	30	2·6	1·3	065	30	4·1	3·1	29[illegible]	30	3·6	3·1	275
·6 ,,	30	5·5	5·1	299	30	3·1	2·3	030	30	3·3	2·7	026	30	3·4	2·5	041	30	4·8	4·1	292	30	4·7	4·3	276
·9 ,,	30	6·3	6·0	294	30	4·5	3·6	046	30	4·1	3·4	010	30	4.1	3·4	026	30	6·1	5 5	298	30	5·[illegible]	4·8	[illegible]9
·5 ,,	30	7·8	7·4	293	29	5·6	4·8	039	30	5·4	4·5	007	30	5·3	4·3	018	30	8·3	[illegible]·5	297	30	7·[illegible]	6·[illegible]	28[illegible]
·1 ,,	29	7·8	7·0	299	29	4·5	3·5	027	30	5·4	4·2	002	30	5·0	3·7	010	30	9·4	8·2	293	30	9·[illegible]	8 6	96
·0 ,,	19	7·6	6·7	293	28	3·9	2·3	360	30	4·6	2·7	342	29	4·1	2·1	347	30	10·9	10·2	291	30	11 4	1[illegible] 9	295
6 ,,	4	7·1	6·8	290	27	4·0	1·9	327	30	4.3	2.8	325	4	4·6	3·5	039	22	11·1	10·5	287	30	12·9	12·6	294
5					27	4·2	2·5	299	27	4.8	2.9	296					11	12.5	11.9	285	3	15·[illegible]	15·5	285
4 ,,					20	4.5	3.5	270	24	5.3	3.8	275					6	15·7	15.5	283	28	20 3	19·7	277
0 ,,					18	5.9	5.3	251	24	5.9	4.8	270					3	17.1	16.7	280	28	22 6	22·2	275
2 ,,					11	8.1	6.9	234	13	7.3	6.6	250					2	22·3	22.1	260	18	29 0	28·7	270
0 ,,					2	9.5	8.6	241	6	11.2	10.5	263									5	34·0	33 4	263

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0.9	0·5	304	30	1·4	0·8	304	30	1·4	1·2	321	30	0·5	0·3	275	30	0·3	0·2	062	30	0·4	0·4	195
0·15 a. g. .	30	4·6	2·6	337	30	3·0	1·8	316	30	3·9	3·0	332	30	4·0	2·1	354	21	1·4	0·4	017	30	0·9	0·6	201
0·3 a.m.s.l. .	30	3·6	1·9	318	30	2·7	1·6	316	30	3·4	2·7	333	30	3·3	1·5	357								
0·6 ,, .	30	5·0	3·0	347	30	3·6	2·2	312	30	4·4	3·5	328	30	4·5	3·1	345								
0·9 ,, .	30	5·2	3·8	332	30	4·7	3·5	313	30	4·6	3·6	315	30	4·5	3·4	328	21	1·3	0·9	052	30	0·9	0·7	186
1·5 ,, .	30	6·1	5·2	310	30	5·9	4·7	310	30	5·2	4·2	306	30	4·9	3·9	295	17	2·4	0·4	204	30	2·8	1·4	204
2·1 ,, .	30	6·6	5·3	297	29	6·4	5·4	297	30	5·8	5·3	295	30	5·7	4·9	290	12	4·5	1·5	248	29	5·0	2·8	243
3·0 ,, .	29	8·7	7.6	283	30	8·3	7·2	277	30	8·8	8·2	249	28	8·6	7·6	282	7	6·5	5·2	291	24	8·5	6·9	271
3·6 ,, .	29	10·2	9·5	274	30	10·3	9·4	272	30	11·2	10·5	283	12	11·0	10·5	271					18	12·5	10·9	279
4·5 ,, .	27	13·7	13·3	268	29	15·7	13·2	268	29	14·4	13·9	276									4	17·3	17·1	278
5·4 ,, .	25	17.9	17·5	268	29	18.1	17.6	266	25	18·7	18.4	274									1	20·5	20·5	275
6·0 ,, .	22	20·6	20·2	268	29	21.4	21.0	266	25	22.2	21.6	272									1	22·0	22·0	280
7·2 ,, .	20	26·6	26·2	265	27	27.4	27.0	261	24	28.8	28.2	264									1	27·0	27·0	290
9·0 ,, .	13	33·2	32·8	259	14	33.7	33.5	253	12	36.6	36.4	255												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I. S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·7	1·0	235	30	1·1	1·0	055	30	0·3	0·3	150	30	0·8	0·8	039	30	0·2	0·1	117	30	0·1	0·1	32
0·15 a. g. .	30	2·6	1·8	247	30	1·7	0·8	004	30	3·4	1·3	155	30	3·1	2·6	018	30	4·6	3·4	061	26	2·7	1·9	04
0·3 a.m.s.l. .																								
0·6 ,, .									30	3.4	1·7	067	30	3.1	2.6	014	30	4·9	3·6	054	26	1.1	0.7	04
0·9 ,, .	30	2·4	1·5	244	30	1·8	1·2	035	30	3·6	1·6	029	30	3·3	3·0	007	30	4·6	3·4	040	26	4·4	3·9	06
1·5 ,, .	30	2·6	1·7	234	30	2·3	0·5	227	30	4·1	2·9	343	30	3·5	3·0	347	30	3·3	1·7	360	25	6·0	5·2	05
2·1 ,, .	30	4·2	2·9	243	25	4·7	2·5	256	30	5·4	4·3	321	30	4·0	3·4	316	30	4·4	3·5	309	25	5·0	4·2	03
3·0 ,, .	27	8·7	7·7	277	11	7·2	5·2	294	30	6·9	5·7	294	30	7·3	6·6	298	30	7·1	6·1	297	25	3·8	2·6	02
3·6 ,, .	21	13·8	12·0	284	4	15.5	14·0	277	27	8·9	8·0	285	29	9·1	8·4	285	27	8·3	7·7	289	23	3·6	1·7	03
4·5 ,, .	7	17·6	17·2	282					25	10·6	9.7	270	28	12·0	11·3	276	2	11·5	11·1	274	22	3·3	0·8	29
5·4 ,, .	1	17.0	17.0	275					16	13.7	13.3	262	25	13·7	13·1	274					22	4.6	3.3	25
6·0 ,, .	1	25.0	25.0	270					13	14.3	13.7	260	24	15.7	15.3	270					21	5.5	4.2	24
7·2 ,, .									1	18.0	18.0	255	16	19.1	18.7	261					17	7.9	7.1	24
9·0 ,, .													4	25.0	24.5	252					7	11.4	11.0	24

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·8	0·6	044	30	0·1	0·1	092	30	1·2	0·9	033	30	1·4	0·8	321	30	0·9	0·8	017	30	0·6	0·4	301
0·15 a. g.	29	3·5	2·9	016	29	5·5	5·1	065	30	4·7	1·6	021	30	3·2	2·1	306	30	4·5	1·8	027	30	3·6	3·3	281
0·3 a.m.s.l.																					30	3·7	3·2	279
0·6 „	29	2·2	1·7	045	29	3·0	2·7	060	30	4·6	1·2	358	30	3·4	2·2	307	30	4·6	1·6	025	30	3·3	2·7	316
0·9 „	29	3·8	3·4	012	29	5·9	5·4	061	30	3·7	1·3	3·4	30	3·5	2·3	309	30	4·3	0·9	002	30	4·3	3·5	332
1·5 „	28	3·9	3·5	031	29	4·3	3·5	016	30	5·0	3·7	287	30	3·8	2·7	307	30	3·7	1·4	274	30	6·2	5·4	331
2·1 „	28	4·2	3·5	033	29	4·5	3·5	047	30	6·4	5·5	255	30	5·1	3·8	289	30	5·0	3·5	267	30	7·4	6·7	329
3·0 „	27	4·0	2·6	029	29	4·2	1·7	045	29	7·0	6·1	279	30	7·9	7·2	276	30	7·6	6·2	279	28	8·7	8·1	302
3·6 „	26	3·6	1·3	096	13	4·1	1·6	333	24	9·5	8·7	277	30	10·2	9·4	272	27	8·7	7·7	278	25	10·4	9·8	293
4·5 „	26	3·5	1·6	289	3	3·2	0·4	034	5	12·0	11·8	252	29	13·6	13·3	268	10	11·0	10·1	281	19	11·9	11·2	277
5·4 „	24	4·1	2·6	269	1	2·5	2·5	265					25	17·1	16·4	266					12	14·5	13·5	275
6·0 „	21	4·7	3·4	2[illegible]									21	19·6	19·1	265					6	16·8	16·3	271
7·2 „	15	6·9	5·8	248									8	25·7	25·6	257					2	18·7	18·6	260
9·0 „	9	13·3	12·7	249																				

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I. S. T.	1730				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·3	0·2	353	30	0·9	0·8	020	30	1·2	0·6	336	30	0·3	0·3	015	30	2·1	2·1	032	30	1·9	1·5	050
0·15 a. g.	30	2·3	1·5	326	30	3·9	3·7	025	30	1·0	1·1	339	30	2·8	1·2	345	30	6·5	5·1	043	30	3·2	1·9	059
0·3 a.m.s.l.	30	2·3	1·6	3[illegible]0	30	3·6	3·5	026	30	2·0	1·2	341	30	2·2	1·0	005	30	5·1	4·2	034	30	3·0	1·9	055
0·6 „	30	2·7	2·2	319	30	3·2	2·0	022	30	2·1	1·5	333	30	3·3	1·8	348	30	5·1	3·7	036	30	4·0	1·9	064
0·9 „	30	3·6	3·1	318	30	3·4	2·8	069	30	2·1	1·7	336	30	3·1	2·1	359	30	4·1	1·8	007	30	3·7	1·1	068
1·5 „	30	5·3	4·9	31[illegible]	30	4·5	3·8	002	30	3·7	3·2	344	30	4·0	3·5	003	30	4·5	1·7	262	30	3·8	0·8	232
2·1 „	30	7·6	7·1	316	30	5·5	4·9	342	30	5·7	5·1	339	30	5·0	4·5	199	30	4·2	2·4	264	30	4·3	2·4	248
3·0 „	30	9·5	9·0	303	29	6·8	6·1	313	30	7·0	6·5	310	29	6.3	5·9	310	30	6·5	5·4	244	29	5·6	4·3	257
3·6 „	28	11·0	10·6	29[illegible]	27	7·6	6·9	296	30	7·9	7·3	297	15	8·0	6·9	296	30	8·4	6·4	257	29	8·2	7·4	260
4·5 „	26	12·7	12·4	278	24	8·5	7·5	278	28	9·8	9·0	287					30	11·6	10·9	259	29	12·6	11·9	261
5·4 „	16	15·3	14·6	273	16	11·7	10·5	275	9	11·3	10·8	276					30	16·9	16·3	255	29	17·2	16·6	261
6·0 „	8	16·4	16·1	269	7	11·9	11·5	251	6	11·5	11·3	267					30	19·6	18·8	254	27	19·9	19·3	259
7·2 „																	26	24·2	23·0	255	15	26·9	26·7	258
9·0 „																	25	33·4	32·5	257	2	35·5	35·2	268

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·9	1·1	030	30	1·7	1·5	028	30	1·7	1·4	276	30	2·2	2·2	289	30	1·7	1·4	280	30	1·8	1·5	0
0·15 a.g. . .	30	5·2	3·4	007	30	7·1	4·3	055	30	6·3	5·0	314	30	4·9	4·5	297	30	6·5	5·4	306	30	6·3	5.5	0
0·3 a.m.s.l. .	30	3·9	2·7	010	30	6·3	4·3	043	30	6·4	5.3	316	30	5·1	4·6	297	30	6·5	5·4	308	30	6·2	5·4	0
0·6 ,, .	30	4·5	2·3	001	30	6·9	3·6	056	30	6·6	6·0	310	30	6·1	5·9	298	30	6·9	6·1	310	30	6·1	5·2	0
0·9 ,, .	30	3·7	1·0	010	30	5·7	2·2	012	30	7·3	7·0	307	30	6·9	6·6	302	30	7·5	6·9	305	30	6·3	5·5	0
1·5 ,, .	30	3·3	1·2	216	30	3·9	0·2	125	30	9·3	8·7	308	30	8·3	7·9	308	29	7·7	7·4	300	30	6·3	5·4	0
2·1 ,, .	30	4·0	2·4	263	29	3·9	2·0	235	29	9·3	8·8	305	30	8·8	8·4	308	30	7·6	7·0	298	30	6·7	5·8	0
3· ,, .	30	6·3	4·9	261	29	6·5	4·1	234	15	8.5	7·9	292	30	10·1	9·6	293	21	7·9	7.4	290	30	7·6	6·6	0
3·6 ,, .	30	8·2	7·6	265	14	7·8	5·5	252	6	10·8	9·9	278	30	11·6	10·7	287	10	9·5	9·1	286	30	7·5	6·6	0
4·5 ,, .	30	12·8	12·3	263	3	5·5	4·0	260					28	15·1	14·6	276	2	15·5	13·7	274	30	7·8	7·1	0
5·4 ,, .	30	16·8	16·0	259									27	19·0	18·7	274	1	37·0	37·0	280	30	8·5	7·3	0
6·0 ,, .	30	20·4	19·7	258									26	22·2	21·8	271					30	7·4	6·1	0
7·2 ,, .	28	27·6	26·4	255									13	27·4	26·8	270					30	6·2	5·3	1
9·0 ,, .	25	37·4	36·8	254									2	34·2	33·5	270					30	5·1	3·8	1

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·3	3·7	023	30	4·0	3·5	031	30	3·0	2·4	024	30	1·8	1·6	087	30	2·9	2·0	273	30	1·0	0·4	0
0·15 a.g. . .	29	5·5	4·4	032	30	6·3	5·7	035	30	6·8	6·0	042	30	5·1	4·5	091	29	3·7	2·9	276	30	3·4	1·8	3
0·3 a.m.s.l. .	29	5·4	4·3	034	30	6·3	5·5	035	30	7·4	6·6	046	30	5·5	4·2	091	29	3·6	2·6	277	30	3·3	1·9	3
0·6 ,, .	29	5·9	4·7	037	30	6·1	5·3	035	30	8·1	7·4	049	30	6·1	4·9	088	29	2·5	0·4	327	30	3·3	1·5	3
0·9	28	6·3	5·2	043	30	5·9	5·1	38	30	7·9	7·2	050	30	5·5	4·3	091	29	2·9	1·4	071	30	3·9	2·4	0
1·5 ,, .	29	6·3	5·9	062	30	5·4	4·4	045	29	7·1	5·9	055	30	4·9	3·6	096	29	6·3	5·8	081	30	6·6	6·1	0
2·1 ,, .	12	6·3	5·4	068	30	6·0	4·7	062	29	6·9	5·4	065	30	6·8	5·4	100	28	8·8	8·1	087	28	7·5	7·3	0
3·0 ,, .	8	5·1	4·2	084	30	6·4	5·0	073	25	7·3	6·5	077	29	7·3	5·4	094	28	7·0	6·0	093	27	7·4	6·8	0
3·6 ,, .	6	6·9	6·5	082	30	7·0	5·9	080	19	8·0	7·2	084	28	7·7	6·3	094	26	6·8	6·1	093	22	6·7	6·0	0
4·5 ,,	5	7·8	7·3	083	30	7·7	6·7	091	13	7·6	7·2	089	26	7·4	6·1	100	25	8·1	7·0	097	13	8·6	8·0	0
5·4 ,,	4	7·3	6·6	097	30	8·0	7·0	097	8	8·5	8·1	091	24	7·6	6·9	102	22	7·4	6·7	104	1	5·0	5·0	0
6·0 ,,	4	6.5	6·2	108	30	7.3	6.4	100	5	6·8	6·5	099	23	8·8	7·4	107	22	7·1	6·2	115	1	10·0	10·0	0
7·2 ,, .	3	8·8	8·1	107	30	6·4	5·5	106	2	6·7	5·7	125	18	8.8	6·2	112	19	7·2	4·4	115				
9 ,,	[illegible]	3·	3·5	115	29	5·5	4·3	123	1	11·0	11·0	070	7	6·1	5·6	204	15	6·2	4·1	180				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	MINICOY												NAGPUR/SONEGAON											
Time in I. S. T.	0530				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·7	0·5	024	30	1·0	0·6	360	30	0·9	0·5	030	30	0·7	0·5	025	30	0·6	0·4	082	30	0·4	0·3	036
0·15 a. g. . .	30	3·1	1·8	018	30	3·7	2·4	018	30	3·1	2·0	034	30	3·1	2·3	041	30	1·6	0·8	062	30	2·8	2·4	041
0·3 a.m.s.l. .	30	3·1	2·0	030	30	3·4	2·3	020	30	3·1	2·0	039												
0·6 ,, . .	30	3·5	2·4	044	30	3·8	2·5	036	30	3·2	2·2	018	30	3·3	2·3	052	30	1·7	1·2	078	30	2·7	2·4	049
0·9 ,, . .	30	4·0	2·9	018	30	3·9	2·6	055	30	3·7	2·7	069	30	3·0	2·2	084	29	2·3	1·6	069	30	2·6	2·0	067
1·5 ,, . .	30	4·4	3·2	076	30	4·4	2·9	080	30	4·2	3·2	360	30	3·3	2·1	061	29	3·2	2·5	048	30	2·6	1·5	052
2·1 ,, . .	30	4·7	3·1	085	26	4·3	2·9	075	28	4·9	3·7	082	30	3·7	1·5	009	30	3·2	1·7	069	30	3·1	2·0	009
3·0 ,, . .	25	5·1	3·8	100	23	5·4	4·6	092	26	5·6	4·5	086	30	4·2	2·3	311	29	3·8	2·1	296	30	4·3	2·5	304
3·6 ,, . .	22	5·7	4·5	094	21	6·6	5·6	092	21	5·7	5·0	086	30	4·1	3·0	290	28	4·5	3·3	275	30	4·6	3·3	296
4·5 ,, . .	18	5·3	4·9	100	19	6·9	6·2	099	11	6·0	5·4	085	30	5·8	4·5	278	26	6·2	5·4	263	30	6·1	5·2	270
5·4 ,, . .	17	5·7	3·9	105	17	6·9	6·2	109	5	5·0	4·7	089	30	8·1	7·3	260	25	8·8	8·4	254	30	8·1	7·4	264
6·0 ,, . .	16	6.3	5.5	100	14	8·9	7·6	104	3	6·3	6·2	121	30	9·1	8·5	255	25	10·7	10·1	253	30	9·7	8·9	255
7·2 ,, . .	12	5·4	4.5	095	8	7·3	6·0	101					29	13·1	12·8	248	25	13·2	12·7	249	30	12·7	12·2	252
9·0 ,, . .	7	8·1	7·1	115	7	6·4	4·7	173					29	17·0	16·7	247	22	18·1	17·7	253	30	16·8	16·2	252

Station	NAGPUR/SONEGAON				NEW DELHI/SAFDARJUNG																POONA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·7	0·6	005	30	2·6	2·3	320	30	4·9	3·1	310	30	2·8	2·4	310	30	1·9	1·5	313		CALM		
0·15 a. g. .	30	4·0	3·1	074	30	5·9	4·8	326	30	4·3	3·2	317	30	5·6	4·7	317	30	9·7	7·0	300	30	3·6	3·2	103
0·3 a.m.s.l. .					30	5·6	4·7	325	30	4·5	3·3	320	30	5·4	4·5	316	30	7·9	6·2	306				
0·6 ,, . .	30	4.3	3·6	077	30	6·2	5·1	322	30	6·1	4·5	312	30	5·6	4·7	314	30	9·0	7·0	304	30	1·1	0·2	097
0·9 ,, . .	30	4·0	3·4	072	30	6·8	5·6	314	30	7·9	6·6	310	30	5·8	4·8	311	30	8·8	6·8	312	30	5·2	4·9	117
1·5 ,, . .	30	3·9	3·0	050	30	8·0	6·5	299	30	9·5	8·3	310	30	6·3	5·1	302	30	9·0	7·3	297	29	5·6	5·3	104
2·1 ,, . .	30	3·3	1·5	010	30	8·5	7·5	293	30	9·3	8·1	300	30	7·2	6·2	297	29	8·6	7·3	287	28	4·1	3·3	104
3·0 ,, . .	29	4·0	1·9	295	30	8·4	7·6	287	29	9·0	7·4	290	30	7·9	7·0	288	23	9·2	7·1	282	25	3·4	1·2	100
3·6 ,, . .	27	4·9	3·3	263	29	9·8	8·9	280	27	9·7	8·7	280	30	9·7	8·9	283					24	3·1	0·2	070
4·5 ,, . .	9	6·3	5·6	241	29	12·3	11·4	270	25	13·4	12·5	272	30	11·9	11·5	276					12	3·7	1·7	238
5·4 ,, . .	4	10.5	10·3	233	29	15·4	14·8	268	23	16·6	16·2	262	30	15·7	15·4	268					6	5·4	4·2	220
6·0 ,, . .	2	14·3	14·1	231	29	18.2	17.8	265	22	19·1	18.2	267	30	17·5	17·2	270					1	3·0	3·0	090
7·2 ,, . .	1	17·5	17·5	235	29	25·6	25·4	266	12	26·2	25·8	268	30	24·0	23·3	267								
9·0 ,, . .					27	35·3	34·4	259	4	46·5	46·5	259	24	32·6	32·1	260								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	POONA								PORT BLAIR															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·2	0·2	090	CALM				30	1·1	1·0	065	30	2·9	2·7	063	30	2·3	1·9	060	30	2·0	1·7	062
0·15 a. g. .	30	2·8	2·6	083	29	3·7	2·3	098	30	4·6	3·4	070	29	4·8	4·5	061	29	5·5	4·8	060	30	4·5	3·9	063
0·3 a.m.s.l. .									30	4·7	3·8	054	29	5·1	4·6	062	30	5·4	4·7	060	30	4·7	4·0	063
0·6 „ . .	30	1·7	1·6	086	29	1·5	0·7	178	30	5·2	4·1	061	29	5·7	5·1	066	29	6·2	5·6	064	30	5·1	4·4	067
0·9 „ . .	30	3·1	2·8	086	29	5·1	4·1	092	30	5·9	4·6	073	29	6·1	5·1	072	30	5·4	4·9	066	29	4·8	4·1	076
1·5 „ . .	29	3·4	2·7	091	29	6·0	5·6	089	30	6·8	4·8	088	27	6·0	4·2	084	29	5·1	2·8	084	24	4·7	3·3	080
2·1 „ . .	28	3·8	3·3	091	28	5·7	4·7	098	28	7·0	5·2	088	24	5·0	3·3	083	27	5·6	3·5	065	19	4·6	2·6	089
3·0 „ . .	26	4·1	1·9	090	26	4·7	2·8	110	30	6·8	5·5	086	21	5·7	5·0	080	27	6·3	5·0	069	13	5·0	3·8	073
3·6 „ . .	26	3·8	0·9	113	22	3·5	1·0	145	30	6·7	5·8	084	19	6·1	5·5	070	26	7·2	6·5	076	3	7·2	6·8	079
4·5 „ .	26	4·1	1·9	212	13	4·2	2·9	210	30	8·5	7·8	085	17	8·9	8·3	079	27	8·6	8·2	080	1	9·5	9·5	090
5·4 „ . .	26	5·7	4·3	222	10	5·3	4·7	217	29	10·4	9·6	084	16	10·1	9·9	079	26	9·7	9·1	085				
6·0 „ . .	26	6·6	5·8	231	6	5·7	5·5	218	29	9·9	9·1	081	15	10·8	10·5	080	25	11·0	10·2	085				
7·2 „ . .	22	8·2	7·9	236	2	6·3	5·3	238	29	11·5	10·5	099	11	9·5	8·9	087	23	10·3	9·4	097				
9·0 „ . .	16	14·2	13·9	238	1	6·0	6·0	205	23	9·0	7·9	085	8	7·4	7·3	091	16	8·8	7·1	096				

Station	RAIPUR												RAXAUL								SILIGURI/ BAGHDOGRA			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·4	0·2	041	30	0·9	0·8	031	30	0·9	0·5	095	30	0·1	0·0	270	30	0·7	0·6	247	30	0·5	0·4	068
0·15 a. g. .	30	2·9	2·1	030	30	2·5	2·2	035	30	4·1	3·3	084	30	2·9	0·4	046	30	4·2	3·7	264	30	2·9	2·4	060
0.3 a.m.s.l. .													30	3·0	0·2	328	30	4·2	3·6	265	30	2·9	2·4	072
0·6 „ . .	30	3·0	2·2	064	30	2·7	2·5	037	30	3·8	3·4	077	30	3·1	2·0	281	30	4·2	3·7	268	30	2·6	1·8	075
0·9 „ . .	30	3·2	2·5	057	30	3·0	2·7	034	30	3·6	3·1	057	30	3·3	2·2	279	30	4·0	3·5	275	30	2·5	1·3	077
1·5 „ . .	30	4·1	3·5	020	30	3·2	2·8	014	30	4·0	3·5	020	30	4·9	3·4	290	30	5·4	4·0	284	30	2·8	0·9	057
2·1 „ . .	30	4·6	3·6	351	29	4·3	3·7	351	30	4·0	2·7	357	30	6·9	5·5	284	30	7·6	5·8	290	29	3·4	0·4	288
3·0 „ . .	29	4·7	3·7	321	29	5·0	4·1	312	30	4·7	2·9	314	24	11·7	10·7	283	25	11·5	10·7	292	23	10·3	8·0	284
3·6 „ . .	27	5·1	4·1	307	28	5·9	5·1	296	7	5·1	4·3	292	22	11·8	11·5	282	22	13·1	11·9	287	17	14·2	13·1	282
4·5 „ . .	24	6·3	5·5	284	28	7·6	7·1	286	1	11·0	11·0	295	17	14·1	13·9	285	15	12·7	12·5	284	12	16·0	15·8	282
5·4 „ . .	14	8·6	7·8	258	25	8·9	8·3	274	1	6·0	6·0	295	13	16·8	16·4	279	8	16·7	16·4	285	4	16·7	14·8	283
6·0 „ . .	11	10·5	10·2	262	25	10·2	9·5	263					3	18·5	18·5	287	3	19·7	19·7	283	1	17·0	17·0	285
7·2 „ . .	1	9·5	9·5	250	15	12·7	12·5	254					1	29·5	29·5	290								
9·0 „ . .					3	20·0	20·0	241																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	SILIGURI/BAGHDOGRA								SRINAGAR								TIRUCHCHIRAPPALLI							
Time in I.S.T.	1730				2330				0530*				1730*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·1	0·9	245	30	0·9	0·9	004	26	0·4	0·3	115	30	1·0	0·2	359	30	2·2	1·9	002	30	3·0	2·7	073
0·15 a. g. .	30	2·9	2·2	250	30	1·8	0·8	009	26	2·1	1·7	139	29	2·0	0·3	246	29	6·6	6·1	024	30	5·6	5·2	067
0·3 a.m.s.l. .	30	2·9	2·4	247	30	1·8	0·3	333									29	7·2	6·6	029	30	6·0	5·6	066
0·6 ,, . .	30	3·3	2·5	233	30	2·7	1·9	275									29	7·9	7·3	041	30	6·7	6·3	058
0·9 ,, . .	30	2·1	1·3	241	30	2·9	2·1	274									26	7·0	6·4	047	30	7·0	6·7	051
1·5 ,, . .	29	2·9	1·0	232	28	3·2	0·7	278									25	6·0	4·7	051	29	6·3	5·7	045
2·1 ,, . .	28	3·1	1·5	305	23	2·8	1·0	289	26	1·6	0·9	169	29	1·5	0·5	189	20	4·9	4·3	063	27	5·5	4·4	052
3·0 ,, . .	24	10·1	8·1	290	14	8·2	7·2	297	26	1·8	0·9	173	29	2·8	1·8	129	18	5·3	4·7	075	26	6·3	5·0	082
3·6 ,, . .	21	16·1	15·2	284	6	15·2	14·8	283	26	3·8	2·4	156	29	3·9	2·7	195	18	6·4	5·7	084	24	6·0	5·3	087
4·5 ,, . .	19	20·1	19·4	283					26	5·2	3·4	210	29	5·2	3·2	185	18	7·2	6·5	095	23	7·1	6·5	091
5·4 ,, . .	15	22·3	22·1	284					26	9·2	7·4	239	29	7·8	6·0	220	16	7·6	7·0	095	22	9·2	8·0	095
6·0 ,, . .	9	23.0	22·7	286					26	11·7	9·7	253	29	10·1	7·8	240	14	7·5	6·2	097	19	9·2	8.3	098
7.2 ,, . .	4	26·6	26·3	285					25	18·4	16·0	267	29	16·3	13·0	256	11	6·7	4·7	104	17	7·9	5·9	100
9.0 ,, . .	2	33·5	33·5	295					22	27·3	24·8	266	26	24·9	23.8	259	8	6.3	4·8	120	13	7·0	6·2	104

Station	TIRUCHCHIRAPPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·4	2·0	054	30	0·8	0·7	052	30	1·2	0·5	320	30	2·2	2·0	259	30	1·5	0·9	010	CALM			
0·15 a.g. . .	28	7·4	6·9	060	30	3·1	1·7	028	29	1·9	0·5	312	30	3·7	3·3	270	30	2·7	1·6	326	30	2·0	1·5	351
0·3 a.m.s.l. .	28	8·1	7·6	059	30	3·1	1·7	028	29	2·0	0·4	291	30	3·6	2·9	274	30	2·5	1·6	311				
0·6 ,, . .	28	9·2	8·7	057	30	3·0	0·7	055	29	1·5	0·7	344	30	3·5	1·9	308	30	2·5	1·5	330				
0·9 ,, . .	28	8·3	7.8	051	30	3·3	2·1	065	27	2·7	1·7	028	30	4·8	3·3	047	30	3·3	2·3	048	30	2·5	1·1	062
1·5 ,, . .	28	6·1	5·0	042	30	4·6	3·1	065	20	3·9	2·3	070	30	6·0	5·3	065	27	5·0	4·5	062	30	3·6	0·8	150
2·1 ,, . .	27	5·7	4·5	062	30	5·2	2·8	087	16	5·1	4·3	091	30	5·5	4·8	074	19	4·5	3·1	072	30	3·5	1·2	243
3·0 ,, . .	23	6·0	4·9	080	29	5·4	3·8	087	12	7·4	6·3	107	30	6·0	4·7	091	15	5·6	4·8	092	30	5·4	4·0	269
3·6 ,, . .	21	6·3	5·8	086	29	7·2	6·0	097	10	8·1	7·2	107	30	6·4	5·2	101	11	5·8	5·3	110	30	8·2	7·7	265
4·5 ,, . .	14	8·6	8·4	090	29	8·2	6·7	090	8	7·4	6·3	110	30	7·5	7.1	095	9	7·5	7·2	091	30	12·0	11·6	261
5·4 ,, . .	6	8·8	8·7	093	29	8·5	7·6	102	8	7·2	6·3	100	30	8·8	8.2	099	8	8·3	7·7	090	25	15·9	15·5	262
6·0 ,, . .	3	8·8	8·3	099	28	8·8	8·0	100	7	8·8	7·9	102	30	9·1	8.3	101	3	9·7	8·6	095	23	17·7	17·3	262
7·2 ,, . .					28	9·1	7·5	102	6	8·5	7·6	100	30	8·7	7.4	103					5	21·3	20·7	247
9·0 ,, . .					28	8·4	7·4	107	3	7·2	6·9	084	29	8·7	7·5	109								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·2	0·2	298	CALM				30	1·0	0·8	008	30	2·0	1·6	259	30	0·5	0·5	005	30	2·8	2·4	027
0·15 a.g. .	30	2·5	0·6	071	30	2·3	0·9	033	30	5·0	4·0	069	30	3·5	2·4	259	29	4·3	3·7	014	30	8·1	6·3	031
0·3 a.m.s.l. .									30	5·3	4·1	089	30	3·2	1·5	251	29	4·8	3·8	014	30	6·9	4·8	039
0·6 „ . .									30	5·8	4·4	104	30	3·1	1·2	042	29	5·1	3·4	035	30	4·9	2·7	050
0·9 „ . .	30	2·6	0·7	069	30	3·0	1·2	074	30	6·9	6·0	108	30	4·7	3·5	053	29	5·4	3·9	060	30	4·2	1·9	077
1·5 „ . .	30	2·3	0·5	028	30	3·2	1·3	122	28	5·8	5·1	091	29	7·7	7·2	072	29	8·1	7·2	087	30	4·1	3·0	116
2·1 „ . .	30	2·7	1·1	280	30	2·7	0·2	213	28	5·6	4·7	089	29	8·3	7·4	078	29	8·4	7·4	087	30	4·6	3·4	153
3·0 „ . .	30	4·5	3·6	275	29	5·2	0·4	256	27	6·0	4·8	094	28	7·1	6·1	085	27	7·4	6·5	095	29	4·8	2·9	229
3·6 „ . .	29	7·5	6·9	269	14	2·5	1·8	267	2	4·0	3·9	102	24	6·4	5·2	086	7	6·8	5·6	090	19	5·8	4·6	219
4·5 „ . .	29	12·9	12·1	264	6	11·6	11·1	258					24	5·7	4·3	101					7	8·9	8·2	253
5·4 „ . .	27	15·3	14·6	264									24	5·0	3·4	131					3	9·8	9·7	238
6·0 „ . .	23	17·1	16·7	263									22	5·5	3·3	147					2	10·5	10·5	236
7·2 „ . .	19	24·0	23·3	257									12	5·1	3·1	204					1	19·0	19·0	235
9·0 „ . .	2	20·5	20·5	262									1	11·0	11·0	260					1	20·0	20·0	225

Station	VERAVAL								VIJAYWADA/GANNAVARAM												VISHAKHAPATNAM			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·0	2·1	216	30	1·3	0·8	029	30	1·9	1·7	031	30	2·7	2·0	076	30	1·8	1·3	083	30	1·8	1·7	032
0·15 a.g. .	30	4·8	2·4	292	30	4·8	2·5	016	29	4·8	4·1	063	30	4·3	3·5	079	30	5·7	5·1	092	30	6·3	6·0	018
0·3 a.m.s.l. .	30	4·7	2·2	185	30	4·8	2·0	037	29	5·1	4·5	082	30	4·6	3·9	076	30	6·3	5·8	091	30	5·6	5·1	034
0·6 „ . .	30	3·9	1·6	118	30	4·8	2·2	076	29	5·1	4·5	083	30	4·4	3·8	068	30	5·8	5·3	084	30	4·7	4·1	054
0·9 „ . .	30	3·3	1·7	085	30	4·7	2·9	092	29	5·2	4·4	068	30	4·4	3·8	061	30	5·0	4·3	074	30	5·4	4·9	051
1·5 „ . .	30	4·0	2·5	055	30	4·5	3·5	094	29	6.0	5·2	070	30	5·1	4·2	064	29	6·1	5·2	065	30	6·0	5·1	052
2·1 „ . .	30	3·8	1·7	043	30	4·5	2·5	092	28	6.4	5·5	076	30	6·1	5·2	066	29	6·8	5·8	077	30	5·6	4·5	057
3·0 „ . .	30	4·2	2·9	238	29	5·0	2·8	218	26	5·4	4·6	071	30	6·1	4·7	076	28	6·1	4·9	079	30	4·8	2·9	048
3·6 „ . .	30	5·6	4·7	243	22	5·7	4·5	237	24	4·6	3·7	081	29	5·2	3·6	080	25	5·4	4·0	084	29	4·2	2·0	063
4·5 „ . .	29	8·1	7·4	245	14	7·1	5·7	233	24	4·3	3·0	091	27	3·9	2·6	093	22	5·0	3·2	090	29	3·6	1·0	096
5·4 „ . .	29	10·8	9·9	244	6	6·7	5·8	249	24	4·4	2·9	120	26	4·0	2·3	117	20	4·1	2·5	117	28	3·2	1·0	174
6·0 „ . .	30	12·9	12·1	245	2	11·7	11·7	255	24	4·5	2·7	145	26	4·4	2·8	134	17	4·4	2·5	130	27	4·3	1·6	194
7·2 „ . .	26	16·4	15·6	243	1	18·5	18·5	235	23	4·8	3·4	189	25	5·1	2·6	182	11	5·5	3·7	173	26	6·0	4·4	213
9·0 „ . .	22	22·8	22·5	243					17	6·0	4·9	219	21	6·7	5·5	222					22	7·8	6·3	231

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

November 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Station	VISHAKHAPATNAM																							
Time in I.S.T.	1130				1730*				2330															
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·1	1·0	053	30	3·5	3.2	044	30	0·7	0·5	040												
0·15 a. g. .	29	3·6	2·4	044	30	7·3	7·0	045	30	2·7	2·1	052												
0·3 a. m. s. l. .	29	3·4	2·6	055	30	6·7	6·5	049	30	3·3	2·9	075												
0·6 ,, .	29	3·6	3·2	057	30	5·5	5·1	058	29	4·2	3·9	068												
0·9 ,, .	29	4·3	3·9	057	30	5·5	4·9	043	29	4·9	4·4	053												
1·5 ,, .	25	6·2	5·4	054	30	6·6	5·3	035	27	6·3	5·5	045												
2·1 ,, .	23	5·8	4·7	053	30	6·3	5·0	037	26	5·5	4·7	063												
3·0 ,, .	22	5·4	3·7	057	30	5·2	3·3	053	26	4·8	3·2	066												
3·6 ,, .	22	5·0	3·1	065	29	4·7	2·6	060	22	5·1	3·1	065												
4·5 ,, .	21	3·5	1·3	061	29	3·9	1·1	090	16	3·8	1·6	089												
5·4 ,, .	19	3·0	0·6	126	29	3·8	1·2	190	6	2·8	1·1	339												
6·0 ,, .	19	3·4	1·0	168	29	4·6	1·9	197	6	2·4	0·5	153												
7·2 ,, .	18	5·0	2·9	223	28	5·6	4·1	220	1	5·5	5·5	225												
9·0 ,, .	17	7·8	6.5	241	25	8·0	7·1	226	1	7·5	7·5	280												

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

AHMADABAD

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	25	32·6	32·2	252
12·0	22	34·9	34·1	246
14·1	14	35·5	35·0	247
16·2	8	21·5	20·0	250
18·0	3	8·3	7·2	262

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	25	33·5	29·6	246
12·0	21	34·6	33·8	246
14·1	13	33·1	32·0	249
16.2	7	19·1	17·8	231
18·0	6	13·4	11·6	257
21·0	2	10·5	4·9	127

ALLAHABAD/BAMHRAULI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	18	33·8	33·3	260
12·0	8	34.7	34·2	265

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	13	35·5	34·6	263
12·0	4	39·0	38·6	261

AMBALA

1130 hr.

Ht. in Km.	n	V	v	D
10.5	2	47·5	47·1	262
12·0	1	56·0	56·0	255

ANANTAPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	14	9·3	7·7	221
12·0	7	9.3	7·8	234
14·1	1	4·5	4·5	280

1730 hr.

Ht. in Km.	n	V	v	D
10·5	20	7·9	5·8	212
12·0	19	10·0	7·5	220
14·1	13	7·9	6·2	207
16·2	4	7·9	6·9	146
18·0	1	8·5	8·5	240

BAHRAICH

1130 hr.

Ht. in Km.	n	V	v	D
10·5	10	41·1	40·8	269
12·0	4	49·0	48·5	270
14·1	1	60·0	60·0	270

1730 hr.

Ht. in Km.	n	V	v	D
10·5	5	51·0	50·7	265

BANGALORE

0530 hr.@

Ht. in Km.	n	V	v	D
10·5	16	7·3	4·1	146
12·0	13	8·5	5·5	157
14·1	10	9·8	6·4	162
16·2	7	10·8	8·7	119
18·0	5	8·0	7·8	094
21·0	4	13·4	13·2	089
24·0	1	22·0	22·0	095

1130 hr.

Ht. in Km.	n	V	v	D
10·5	11	7·3	3·5	171
12·0	8	9·7	5·5	190
14·1	6	8·4	7·2	149
16·2	4	8·6	7·1	125
18·0	3	8·0	7·9	103
21·0	1	4·0	4·0	100
24·0	1	16·5	16·5	075
27·0	1	10·5	10·5	095

1730 hr.@

Ht. in Km.	n	V	v	D
10·5	18	5·9	3·8	164
12·0	15	7·9	5·0	199
14·1	13	10·0	7·9	163
16·2	10	10·9	10·1	132
18·0	8	6·6	6·1	080
21·0	1	13·0	13·0	115

BEGAMPET

0530 hr.

Ht. in Km.	n	V	v	D
10·5	15	12·7	12·1	240
12·0	15	16·5	15·2	248
14·1	9	15·9	15·1	238
16·2	5	11·1	9·3	254
18·0	5	4.9	2·1	125
21·0	2	2·7	2·7	137

1730 hr.

Ht. in Km.	n	V	v	D
10·5	12	13·3	12·8	243
12.0	8	14·6	14·1	246
14·1	3	14·8	12·5	251
16·2	1	4·5	4·5	230

BHUBANESHWAR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	8·5	8·5	270
12·0	1	16·0	16·0	195

BHUBANESHWAR

1730 hr.

Ht. in Km.	n	V	v	D
10·5	5	17·1	16·5	258
12·0	3	18·2	18·0	264
14·1	1	21·5	21·5	220
16·2	1	5·5	5·5	270

BHUJ/RUDRAMATA

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	33·6	33·5	241
12·0	2	36·0	35·1	239

BOMBAY/SANTA CRUZ

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	26	22·4	18·5	243
12·0	23	24·5	23·3	243
14·1	14	21·5	19·6	234
16·2	5	15·4	15·4	255
18·0	1	7·5	7·5	150

1130 hr.

Ht. in Km.	n	V	v	D
10·5	17	20·6	13·5	238
12·0	12	22·2	21·7	231
14·1	9	24·1	23·7	230
16·2	9	18·2	17·6	224
18·0	6	6·0	4·5	185
21·0	1	8·0	8·0	105

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	25	20·5	19·5	244
12·0	23	25·8	24·0	242
14·1	12	22·5	20·4	234
16·2	9	15·2	12·5	213
18·0	6	11·9	6·7	222

CALCUTTA/DUM DUM

0530 hrs.*

Ht. in Km.	n	V	v	D
10·5	27	21·3	21·0	261
12·0	26	22·9	22·3	263
14·1	16	23·7	23·1	253
16·2	7	26·6	25·7	249
18·0	3	22·3	21·7	257

1130 hr.

Ht. in Km.	n	V	v	D
10·5	4	17·7	17·5	263
12·0	2	17·0	17·0	265

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	28	22·3	21·8	267
12·0	27	24·4	23·9	260
14·1	19	26·1	24·8	265
16·2	7	27·8	27·4	257
18·0	2	22·7	22·5	263
21·0	1	7·0	7·0	140

COCHIN/WILLINGDON†

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	1·0	1·0	195

DIBRUGARH/MOHANBARI

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	63·5	63.5	265

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	45·0	45·0	275

GADAG

0530 hr.

Ht. in Km.	n	V	v	D
10·5	16	9·9	8·1	226
12·0	15	11·3	8·3	229
14·1	7	11·1	7·0	234
16·2	4	9·6	8·6	194
18·0	1	13·5	13·5	215
21·0	1	5·0	5·0	275

1730 hr.

Ht. in Km.	n	V	v	D
10·5	11	10·4	9·1	238
12·0	11	12·7	11·8	248
14·1	7	13·8	13·3	245
16·2	5	8·4	7·7	226
18·0	3	6·0	3·5	146
21·0	1	6·0	6·0	135

GAUHATI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	10	39·3	39·0	268
12·0	4	38·4	37·9	272
14·1	2	49·8	49·6	268

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	41·0	40·7	277
12·0	1	38·0	38·0	270

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	2	38·6	38·6	270

GOPALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	11·0	11·0	255

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	16·0	16·0	250
12·0	1	13·5	13·5	260
14·1	1	18·0	18·0	255

GORAKHPUR

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	38·7	38·5	266

GWALIOR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	3	36·3	36·3	261

1130 hr.

Ht. in Km.	n	V	v	D
10·5	6	36·1	36·0	260
12·0	1	40·0	40·0	270

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	2·5	32·5	255

JAGDALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	4	14·5	14·3	240
12·0	3	13·7	13·4	236
14·1	2	12·5	12·3	222

1730 hr.

Ht. in Km.	n	V	v	D
10·5	6	16·0	15·8	252
12·0	3	22·5	22·5	266

JODHPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	20	38·3	37·4	254
12·0	16	45·7	45·0	248
14·1	8	43·8	43·4	248

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	17	41·3	39·4	252
12·0	11	50·9	50·0	250
14·1	4	41·6	41·2	255
16·2	2	39·5	35·1	258

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Ht. in Km.	n	V	v	D
	MADRAS/ MINAMBAKKAM			
	0530 hr.*			
10·5	29	6·3	3·2	152
12·0	26	7·5	4·9	160
14·1	17	9·2	6·2	154
16·2	6	10·6	9·7	128
18.0	4	9·7	6·1	119
	1130 hr.			
10·5	1	2·5	2·5	135
12·0	1	5·0	5·0	150
14·1	1	8·0	8·0	150
16·2	1	7·0	7·0	120
18·0	1	2·0	2·0	090
21·0	1	12·0	12·0	105
24·0	1	13·0	13·0	090
	1730 hr.*			
10·5	29	5·4	3·2	142
12·0	25	6·8	4·3	168
14·1	18	9·2	7·5	156
16·2	1	10·5	10·5	085
	MANGALORE BAJPE			
	0530 hr.			
10·5	5	8·9	4·2	270
12·0	2	11·0	8·5	163
14·1	1	12·5	12·5	235
	1730 hr.			
10·5	11	5·1	4·1	197
12·0	9	9·9	6·4	218
14·1	6	8·9	6·7	221
16·2	3	6·8	6·3	160
18·0	2	5·0	3·1	132
	MINICOY			
	0530 hr.			
10·5	6	7·9	5·5	140
12·0	4	4·4	3·8	225
14·1	1	2·5	2·5	130
16.2	1	4·0	4·0	110
	1730 hr.*			
10·5	6	5·2	3·7	173
12·0	6	6·6	5·0	171
14·1	3	9·7	8·0	194
16·2	3	11·8	11·0	137
18·0	2	9·5	7·9	130

Ht. in Km.	n	V	v	D
	NAGPUR/SONEGAON			
	0530 hr.*			
10·5	28	20·3	19·7	250
12·0	26	23·8	23·1	248
14·1	24	22·2	21·3	246
16·2	20	16·5	16·1	244
18·0	14	8·7	6·6	235
21·0	7	5·1	1·4	104
24·0	2	4·5	4·5	064
	1130 hr.			
10·5	13	20·6	20·2	252
12·0	10	20·9	20·4	249
14·1	7	20·7	19·3	237
16·2	1	13.0	13·0	235
18·0	1	3·5	3·5	205
21·0	1	6·5	6·5	140
	1730 hr.*			
10·5	29	20·9	20·1	248
12·0	27	23·4	20·0	245
14·1	21	21·2	20·2	239
16·2	17	13·5	13·0	237
18·0	14	9·9	7·4	239
21·0	2	8·5	3·3	185
24·0	1	3·5	3·5	090
	NEW DELHI/ SAFDARJUNG			
	0530 hr.			
10.5	19	37.9	37·4	257
12·0	12	35.6	35.3	257
14·1	8	33·3	32·8	252
16.2	5	28·2	21·4	255
18·0	3	9·3	5·8	245
	1130 hr.*			
10·5	1	51·0	51·0	270
	1730 hr.*			
10·5	21	37·1	36·7	259
12·0	14	42·4	41·8	260
14·1	8	43·8	43·1	260
16·2	3	29·4	28·0	251
18·0	2	15·0	13·7	254

Ht. in Km.	n	V	v	D
	POONA			
	1730 hr.			
10·5	14	18·4	17·6	244
12·0	12	21·2	20·3	238
14·1	9	15·5	14·7	238
16·2	6	10·6	6·5	243
18.0	1	76·0	76·0	235
	PORT BLAIR			
	0530 hr.			
10·5	13	7·1	3·6	078
12·0	7	7·7	5·7	089
14·1	2	9.0	8.8	135
16·2	2	13·3	13·1	084
	1130 hr.			
10·5	5	7·9	7·8	068
12·0	3	9·2	7·7	089
	1730 hr.*			
10·5	12	7·5	5·0	086
12·0	8	10·3	7·9	104
14·1	1	15·0	15·0	120
	RAIPUR			
	1730 hr.			
10·5	3	21·5	21·4	252
12·0	1	26·5	26·5	260
	SRINAGAR			
	0530 hr.*			
10·5	20	34·8	31·3	263
12·0	16	41·3	40·6	258
14·1	11	37·0	36·4	264
16·2	4	22·1	21·8	262
18·0	1	29·0	23·0	265
	1730 hr.*			
10·5	21	30·8	29·2	261
12·0	16	38·0	36·2	263
14·1	10	36·2	35·6	258
16.2	7	30·3	29·4	266
18·0	3	30·0	29·8	269
	TIRUCHCHIRAP-PALLI			
	0530 hr.			
10·5	6	7·5	4·9	132
12·0	3	7·5	1·2	198
14·1	1	7·5	7·5	080

Ht in Km.	n	V	v	D
	1730 hrs.			
10·5	11	4·5	2·9	147
12·0	8	5·7	4·8	177
14·1	7	9·4	6·6	175
16·2	5	6·5	5·0	135
18·0	4	9·1	7·9	140
	TRIVANDRUM			
	0530 hrs.*			
10·5	28	9·0	6·9	135
12·0	27	10·2	7·1	143
14·1	22	11·6	7·5	137
16·2	20	12·3	7·9	114
18·0	11	8·2	6·5	112
21·0	6	9·7	8·1	107
	1130 hrs.			
10·5	2	3·7	3·1	054
12·0	1	4·5	4·5	350
14·1	1	3·0	3·0	360
16·4	1	10·3	10·0	125
18·0	1	28·5	28·5	120
21·0	1	17·0	17·0	100
24·0	1	18·5	18·5	085
	1730 hrs.*			
10·5	27	8·3	6·2	119
12·0	26	11·5	3·0	124
14·1	26	10·0	7·5	132
16·2	19	11·2	9·3	113
18·0	12	8·7	4.7	127
21·0	3	11·3	9·9	083
	UDAIPUR			
	1730 hrs.			
10·5	2	24·7	24·7	270
12·0	1	34·0	34·0	265
	VERAVAL			
	1730 hrs.			
10·5	15	25·5	25·2	243
12·0	7	25·2	24·7	233
14·1	3	24·7	23·3	241

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level.

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Ht in Km.	n	V	v	D
	VIJAYWADA/ GANNAVARAM			
	0535 hrs.			
10·5	14	9·1	8·1	247
12·0	9	10·9	10·0	230
14.1	4	10·9	8·4	241
16·2	1	5·5	5·5	190
	1730 hrs.			
10·5	16	9·0	8·3	248
12·0	14	11·5	10·3	232
14·1	8	9·1	8·1	237
	VISHAKHAPATNAM			
	0530 hrs.*			
10·5	22	8·7	7·6	236
12·0	22	12·0	9·0	235
14·1	19	12·0	10·3	226
16·2	16	7·9	3·3	166
18·0	12	6·4	3·5	145
21·0	1	5·5	5·5	080
	1130 hrs.			
10·5	13	10·4	8·7	243
12·0	9	13·4	11·2	231
14·1	9	11·6	10·9	221
16·2	8	9·4	7·8	203
18·0	5	10·6	5·6	185
21·0	1	5·5	5·5	085
	1730 hrs.*			
10·5	24	10·3	9·2	250
12·0	23	11·2	9·9	250
14·1	22	13·3	11·1	222
16·2	16	9·9	6·8	217
18·0	1	8·4	5·5	220

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 14 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

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

RADIOSONDE DATA

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

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

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1007 mb.)						ALLAHABAD/BAMHRAULI (1003 mb.)						BANGALORE (911 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	290·8	295	290	285·2	30	098	286·9	292	281	283·3	30	921	290·3	294	287	289·1
1000	30	115	..	..	..	..	30	120	..	..	..	..	30	127	..	..	..	..
900	30	1033	293·7	299	286	281·0	30	1026	291·6	296	286	272·8	30	1030	290·3	290	287	288·5
850	30	1524	290·0	293	288	279·1	30	1573	288·8	292	283	269·2	30	1519	289·1	291	286	284·6
800	30	2038	286·4	289	283	275·9	30	2025	285·7	289	279	266 7	30	2034	287·6	290	284	278·4
700	30	3148	279·9	283	275	267·6	30	3134	280·2	284	275	259·1	30	3156	283·5	286	280	271·5
600	30	4400	273·0	277	269	259·7	30	4387	273·4	278	270	251·8	30	4425	276·5	280	273	265·1
500	30	5832	263·1	269	259	..	29	5824	264·0	269	260	..	30	5885	267·6	273	264	258·0
400	30	7518	251·6	258	246	..	27	7519	253·5	259	249	..	30	7597	256·6	260	253	..
300	30	9580	236·3	243	229	..	22	9608	239·4	247	233	..	30	9696	241·6	246	235	..
250	29	10816	227·3	235	218	..	19	10875	231·5	242	226	..	28	10957	231·5	238	228	..
200	29	12268	217·1	223	213	..	14	12368	221·0	225	216	..	27	12436	219·1	227	212	..
175	29	13107	210·8	218	201	..	11	13312	215·7	219	212	..	26	13265	212·4	219	206	..
150	29	14048	205·7	211	199	..	9	14195	211·0	213	207	..	26	14220	205·6	213	199	..
125	29	15056	200·8	205	195	..	8	15277	205·9	210	200	..	24	15263	198·9	205	190	..
100	28	16441	198·5	206	191	..	7	16641	202·4	209	198	..	22	16566	193·4	198	189	..
80	22	17771	203·8	210	195	..	..	..	..	..	..	..	16	17898	197·3	202	193	..
70	20	18569	206·7	218	197	..	..	..	..	..	..	..	15	18681	201·5	208	195	..
60	14	19501	208·6	218	199	..	..	..	..	..	..	..	12	19603	204·6	211	197	..
50	10	20613	210·7	217	200	..	..	..	..	..	..	..	12	20645	208·6	215	199	..
40	..	..	..	..	..	..	..	..	..	..	..	..	8	22099	213·5	219	203	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (1010 mb.)						CALCUTTA/DUM DUM (1013 mb.)						GAUHATI (1008 mb.)					
Surface	30	013	294·6	299	292	291·4	30	006	291·0	295	287	289·3	30	049	290·3	295	285	288·9
1000	30	103	..	..	..	..	30	119	..	..	..	..	29	121	..	..	..	..
900	30	1027	294·6	297	292	280·8	30	1020	288·1	292	283	278·1	29	1023	288·8	291	286	283·2
850	30	1520	290·8	293	289	277·9	30	1503	285·9	290	281	273·6	29	1506	285·6	288	284	279·6
800	30	2036	287·2	291	284	275·3	30	2011	283·5	288	279	268·5	29	2012	282·2	285	280	275·9
700	30	3153	281·8	286	277	266·1	30	3117	280·6	286	276	260·6	29	3107	276·6	280	273	264·6
600	30	4415	274·7	278	271	256·1	30	4373	273·6	279	268	256·4	29	4350	272·6	278	269	257·6
500	30	5856	265·1	267	260	..	29	5813	263·6	270	259	..	29	5787	264·9	269	260	..
400	28	7560	254·6	257	250	..	28	7456	253·9	260	249	..	29	7491	255·1	260	250	..
300	26	9652	240·5	244	236	..	27	9599	239·5	246	234	..	17	9579	240·9	249	234	..
250	25	10912	231·1	237	225	..	27	10856	231·1	239	224	..	13	10851	232·2	237	224	..
200	23	12392	220·2	225	215	..	26	12331	220·0	229	213	..	10	12332	222·3	220	214	..
175	18	13255	214·3	223	209	..	24	13158	214·1	223	206	..	5	13177	215·6	218	211	..
150	15	14212	209·1	213	206	..	19	14047	208·3	218	201	..	5	14141	210·0	214	205	..
125	10	15322	202·7	209	198	..	14	15233	203·2	212	198	..	..	..	..	..	..	..
100	5	16699	197·4	205	193	..	14	16555	197·1	208	191	..	..	..	..	..	..	..
80	..	..	..	..	..	..	9	17684	194·6	202	188	..	..	..	..	..	..	..
70	..	..	..	..	..	..	7	18603	197·0	211	194	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November, 1962 (Kartika 10,—Agrahayana 9, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (989 mb.)						MADRAS/MINAMBAKKAM (1010 mb.)						NAGPUR/SONEGAON (978 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	289·4	294	284	276·2	30	015	296·3	301	293	294·5	30	311	288·6	295	285	285·4
1000	30	128	..	..	..	..	30	105	..	..	..	..	30	125	..	..	..	..
900	30	1032	293·1	297	285	270·3	30	1019	291·0	294	288	288·1	30	1033	293·1	295	291	280·0
850	30	1520	289·8	294	283	265·9	30	1509	289·1	293	286	282·2	30	1523	289·9	292	286	276·2
800	30	2037	286·4	291	282	266·2	30	2023	287·0	291	283	277·1	30	2038	287·1	290	283	271·1
700	30	3140	279·0	283	275	256·2	30	3143	283·0	287	279	271·5	30	3156	282·4	287	279	263·8
600	30	4384	271·1	275	267	257·8	30	4409	276·2	279	272	265·5	30	4426	274·9	278	270	257·7
500	30	5810	262·3	270	256	..	30	5863	267·4	271	263	..	30	5865	265·2	269	261	..
400	30	7489	250·8	254	245	..	30	7575	255·9	263	251	..	30	7566	254·4	259	249	..
300	29	9550	238·2	244	233	..	30	9670	240·5	247	235	..	30	9650	238·9	246	234	..
250	25	10786	229·3	237	224	..	29	10924	229·4	238	223	..	30	10902	229·0	235	223	..
200	24	12246	218·6	226	210	..	26	12386	217·9	229	211	..	29	12366	218·5	225	212	..
175	21	13114	213·3	221	203	..	19	13226	212·1	223	208	..	29	13202	213·1	218	207	..
150	19	14082	209·0	216	203	..	16	14175	206·7	214	202	..	28	14174	206·5	211	201	..
125	16	15188	205·0	212	195	..	13	15235	199·2	203	193	..	28	15236	201·4	207	195	..
100	13	16534	202·8	209	196	..	11	16535	194·7	197	191	..	26	16573	196·1	202	192	..
80	7	17913	204·0	208	198	..	8	17829	198·4	204	193	..	23	17898	199·8	206	192	..
70	7	18691	207·8	210	202	..	7	18626	201·9	209	198	..	20	18691	200·5	209	193	..
60	..	..	..	..	..	..	5	19528	206·2	211	203	..	18	19607	204·7	215	198	..
50	..	..	..	..	..	..	5	20610	212·0	216	207	..	14	20659	209·4	222	202	..
40	..	..	..	..	..	..	..	..	..	..	..	..	7	21977	212·5	216	206	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG (990 mb.)						PORT BLAIR (1002 mb.)						SRINAGAR (846 mb.)					
Surface	30	209	287·7	291	284	281·8	30	079	297·3	302	294	295·8	27	1588	274·6	279	272	274·0
1000	30	127	..	..	..	..	30	101	..	..	..	..	26	203	..	..	..	..
900	30	1030	291·7	296	284	270·3	30	1019	293·3	295	291	291·0	28	1084	..	..	..	..
850	30	1517	288·4	293	284	265·2	30	1511	290·7	293	288	286·7	26	1545	..	..	..	..
800	30	2027	284·9	289	279	265·7	30	2027	287·7	293	283	283·4	26	2075	275·0	280	270	268·0
700	30	3130	277·7	283	274	256·9	30	3149	283·4	287	280	278·0	26	3103	270·2	277	264	265·0
600	30	4369	269·9	275	267	250·0	29	4418	276·5	281	271	262·6	26	4308	262·5	268	256	..
500	30	5787	260·5	266	257	..	29	5875	268·4	273	263	..	26	5687	252·9	259	246	..
400	30	7457	249·4	257	246	..	29	7597	257·2	263	254	..	26	7304	241·2	250	232	..
300	27	9512	236·5	240	230	..	26	9702	241·6	253	234	..	23	9289	227·5	233	222	..
250	25	10750	228·3	233	221	..	24	10969	232·0	238	223	..	20	10482	220·9	226	214	..
200	21	12226	219·3	224	214	..	22	12442	220·9	228	213	..	20	11911	216·5	225	209	..
175	18	13079	214·9	220	210	..	12	13266	212·3	226	206	..	16	12767	214·0	223	209	..
150	16	14036	210·7	217	205	..	11	14193	205·5	215	201	..	14	13700	212·0	221	208	..
125	12	15159	207·7	214	205	..	9	15279	199·3	207	192	..	8	14864	208·5	218	205	..
100	9	16497	205·2	210	201	..	6	16522	195·8	202	190	..	6	16221	209·0	216	205	..
80	6	17869	207·5	215	203	..	..	..	..	..	..	..	..	..	..	..	..	..
70	6	18673	211·2	218	206	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1003 mb.)						VISHAKHAPATNAM (1009 mb)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	064	297·3	299	296	294·7	30	041	295·1	299	293	291·2
1000	30	089	..	..	..	..	30	116	..	..	..	..
900	30	1008	292·2	294	290	288·0	27	1031	291·6	294	288	284·3
850	30	1499	289·5	291	287	284·9	27	1521	289·9	294	287	276·9
800	30	2014	286·9	289	284	281·4	27	2038	288·4	293	287	272·1
700	29	3132	282·0	287	279	274·0	27	3169	282·9	287	279	267·9
600	29	4391	274·1	279	270	266·9	27	4426	275·0	282	270	260·6
500	29	5837	266·0	271	263	..	27	5875	266·4	271	260	..
400	28	7548	256·2	264	252	..	27	7583	255·7	260	249	..
300	28	9644	240·2	245	235	..	25	9684	241·6	247	232	..
250	28	10897	229·7	236	222	..	24	10943	230·3	238	225	..
200	28	12362	217·4	224	213	..	24	12414	218·8	226	212	..
175	25	13188	211·5	217	208	..	22	13243	212·3	218	205	..
150	25	14146	204·4	215	195	..	22	14208	205·2	211	199	..
125	24	15207	198·7	205	195	..	22	15263	198·5	208	193	..
100	23	16522	193·3	198	187	..	22	16508	192·3	199	188	..
80	18	17745	194·6	203	183	..	18	17860	196·4	209	186	..
70	15	18544	197·9	207	188	..	16	18633	200·9	219	195	..
60	11	19421	201·0	207	193	..	9	19519	204·6	216	199	..
50	11	20508	205·9	211	201	..	7	20561	208·2	215	200	..
40	6	21828	209·0	215	204	..						
30												
20												
10												

RADIOSONDE DATA

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

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

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1006 mb.)						ALLAHABAD/BAMHRAULI (1002 mb.)						BANGALORE (910 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	304·7	307	297	288·8	30	098	298·8	303	293	286·4	30	921	297·6	299	293	288·9
1000	30	107	..	..	..	..	30	115	..	..	..	..	30	087	..	..	..	..
900	30	1038	295·6	299	292	282·3	30	1035	293·6	299	288	273·9	30	1015	296·9	299	293	288·9
850	30	1531	291·0	296	288	280·5	30	1525	290·3	294	286	267·8	30	1512	292·7	297	289	286·0
800	30	2048	287·1	293	284	277·8	30	2039	287·0	290	284	265·1	30	2031	288.2	292	285	283·4
700	30	3162	281·1	287	277	268·1	30	3153	281·4	286	278	257·9	30	3154	283·5	287	277	273·1
600	30	4417	273·8	281	269	261·1	30	4408	273·9	276	269	250·2	30	4424	276·7	280	272	265·9
500	30	5855	263·9	271	259	..	30	5848	264·9	269	261	..	30	5884	268·5	273	263	..
400	30	7545	252·3	260	245	..	30	7549	254·9	260	251	..	30	7605	257·1	261	251	..
300	29	9612	238·1	247	230	..	23	9629	240·3	246	236	..	29	9713	241·7	247	238	..
250	29	10858	227·7	238	220	..	19	10897	231·9	238	229	..	29	10975	231·8	238	228	..
200	28	12315	216·6	224	209	..	15	12383	221·9	228	219	..	25	12455	219·1	226	214	..
175	27	13158	210·7	218	203	..	11	13240	216·0	219	212	..	24	13300	212·8	217	209	..
150	26	14104	205.3	212	197	..	7	14199	211·7	214	207	..	24	14201	206·2	212	202	..
125	25	15185	200 3	208	193	..	5	15311	206·6	209	204	..	19	15349	199·9	208	194	..
100	25	16491	198·3	207	190	..	..	..	..	..	..	..	19	16542	194·8	203	189	..
80	20	17745	201·3	213	193	..	..	..	..	..	..	..	16	17901	196·7	207	189	..
70	13	18639	204·0	216	194	..	..	..	..	..	..	..	13	18684	199·0	208	193	..
60	8	19632	207·5	217	203	..	..	..	..	..	..	..	7	19649	204·3	209	198	..
50	7	20749	210·0	213	201	..	..	..	..	..	..	..	6	20720	208·8	216	201	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ (1009 mb.)						CALCUTTA/DUM DUM (1012 mb.)						GAUHATI (1006 mb.)					
Surface	30	013	303.4	307	301	292·6	30	006	298·2	303	294	290·6	30	049	296·6	300	294	292·2
1000	30	094	..	..	..	..	30	106	..	..	..	..	30	102	..	..	..	..
900	30	1026	296·6	299	295	281·6	30	1024	292·7	297	289	277·3	29	1017	291·6	294	288	284·1
850	30	1522	293·0	295	291	278·4	30	1513	289·3	293	286	269·7	29	1505	287·8	291	285	280·4
800	30	2042	289·6	292	288	272·4	30	2027	287·0	291	283	267·6	29	2015	284·3	288	281	275·9
700	30	3168	283·8	288	280	262·2	30	3145	283·3	287	279	254·6	29	3117	278·7	282	274	263·9
600	29	4436	275·9	280	274	256·1	30	4413	276·2	280	270	252·8	28	4369	274·1	277	270	254·6
500	29	5889	267·4	271	264	..	30	5867	267·0	271	263	..	28	5812	266·7	269	262	..
400	28	7605	257·0	261	252	..	29	7579	256·3	261	251	..	28	7524	255·9	260	252	..
300	27	9715	242·4	248	238	..	28	9680	241·2	246	235	..	8	9632	242·6	245	240	..
250	27	10985	233·1	236	228	..	28	10945	232·0	237	223	..	5	10899	232·2	237	227	..
200	25	12474	222·2	227	213	..	27	12430	221·1	228	212	..	..	..	..	..	..	..
175	23	13342	216·5	222	210	..	22	13279	215·1	223	205	..	..	..	..	..	..	..
150	16	14328	211·1	217	204	..	20	14245	208·8	218	203	..	..	..	..	..	..	..
125	14	15429	204·9	211	197	..	12	15338	201·7	211	194	..	..	..	..	..	..	..
100	11	16777	199·9	206	191	..	8	16728	199·3	207	195	..	..	..	..	..	..	..
80	7	18086	199·6	203	197	..	..	..	..	..	..	..	..	..	..	..	..	..
70	7	18873	203·0	209	199	..	..	..	..	..	..	..	..	..	..	..	..	..
60	5	19835	208·0	213	201	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November, 1962 (Kartika 10—Agrahayana 9, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (989 mb.)						MADRAS/MINAMBAKKAM (1009 mb.)						NAGPUR/SONEGAON (977 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	301·9	306	294	278·8	30	015	300·1	303	298	293·8	30	311	300·5	302	299	285·1
1000	30	115	..	..	..	..	30	098	..	..	..	..	30	105	..	..	..	..
900	30	1037	294·8	300	288	273·3	30	1016	292·0	295	289	285·6	30	1032	295·0	298	292	281·1
850	30	1527	290·5	294	286	269·7	30	1506	289·6	293	285	284·0	30	1525	290·5	295	287	278·2
800	30	2040	286·2	290	282	268·3	30	2022	288·0	292	283	281·3	30	2041	287·3	291	282	273·4
700	30	3147	279·2	283	275	262·8	30	3144	283·5	287	278	272·3	30	3159	282·7	288	279	263·6
600	30	4393	272·2	278	266	258.2	30	4411	276·2	279	272	266·2	30	4421	274·8	279	270	258·9
500	30	5889	262·6	268	258	..	30	5864	267·4	271	261	259·0	30	5866	266·0	270	262	..
400	29	7504	251·6	257	248	..	29	7576	255·8	261	249	..	30	7569	253·9	260	249	..
300	25	9582	239·6	245	235	..	29	9671	240·3	245	235	..	29	9651	238·9	245	232	..
250	22	10850	230.7	238	222	..	28	10933	230·0	238	224	..	29	10902	229·2	237	221	..
200	20	12332	221·7	227	216	..	26	12407	219·3	228	211	..	29	12359	217·8	226	209	..
175	14	13187	216·5	222	209	..	21	13235	212·6	222	202	..	27	13224	211·9	221	207	..
150	11	14116	211·9	218	208	..	18	14189	204·6	210	195	..	27	14161	205·1	216	199	..
125	10	15281	207·6	216	197	..	13	15248	198·8	205	193	..	27	15208	200·1	209	196	..
100	10	16631	204·7	212	198	..	11	16540	194·5	202	189	..	24	16552	196·0	204	190	..
80	8	17931	206·9	213	201	..	7	17805	199·2	205	196	..	24	17869	198·5	206	192	..
70	5	18684	211·0	214	204	..	5	18632	201·2	208	196	..	20	18700	201·9	207	193	..
60	..	..	..	..	..	..	..	..	..	..	..	..	14	19654	205·3	213	197	..
50	..	..	..	..	..	..	..	..	..	..	..	..	10	20703	209·5	218	202	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (989 m.b.)						PORT BLAIR (1001 mb.)						SRINAGAR (844 mb.)					
Surface	30	209	297·2	301	291	282·4	30	079	299·5	301	297	296·1	30	1588	282·2	290	274	275·6
1000	30	117	..	..	..	..	30	088	..	..	..	..	29	168	..	..	..	..
900	30	1032	292·4	296	287	271·5	28	1009	293·3	297	290	291·6	29	1060	..	..	..	..
850	30	1520	288 6	292	283	266·7	28	1500	290·4	294	287	287·7	29	1536	..	..	..	..
800	30	2031	284·7	289	281	264·1	28	2016	288·0	291	285	284·1	29	2037	279·2	289	271	269·1
700	30	3134	277·8	283	274	257·2	28	3136	282·4	285	279	275·6	29	3118	273·0	280	266	262·1
600	30	4373	269·8	275	265	..	28	4441	276·0	281	270	268·4	29	4335	264·9	272	258	..
500	30	5792	260·6	268	256	..	28	5852	267·3	273	264	..	29	5723	254·8	262	247	..
400	30	7449	250·0	256	246	..	26	7562	255·8	262	252	..	28	7349	242·7	249	237	..
300	24	9516	236·9	242	234	..	22	9662	241·2	251	232	..	22	9359	230·0	237	225	..
250	22	10760	228·8	235	225	..	22	10923	231·0	237	222	..	18	10549	222·8	225	218	..
200	19	12223	220·5	225	217	..	21	12387	219·1	228	212	..	15	12008	217·4	221	208	..
175	15	13083	216·2	220	213	..	11	13222	211·1	220	205	..	12	12866	215·8	220	208	..
150	11	14062	212·4	218	208	..	7	14192	206.6	215	199	..	10	13841	213·6	218	208	..
125	9	15175	208·9	215	210	..	..	..	..	..	..	..	7	14983	210·6	215	203	..
100	6	16543	207·0	211	205	..	..	..	..	..	..	..	6	16300	209·8	215	205	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November, 1962 (Kartika 10,—Agrahayana 9, 1884 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1002 mb.)						VISHAKHAPATNAM (1008 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	064	301.2	303	299	296.0	30	041	299·4	301	297	292·4
1600	30	078	..	..	..	..	30	108	..	..	..	..
900	30	1006	294.6	298	290	289.8	28	1028	292·6	295	290	283·4
850	30	1500	291.5	295	287	286.7	28	1519	290·3	294	287	276·9
800	30	2019	288.6	293	285	283.7	28	2036	288·6	291	286	272·7
700	30	3143	283.5	289	281	275.1	28	3157	283·5	288	279	270·0
600	30	4412	276.2	281	271	267.7	28	4431	276·3	281	272	264·0
500	30	5867	268.4	273	261	..	28	5885	266·9	272	263	..
400	30	7587	257.2	264	248	..	28	7594	255·0	260	249	..
300	29	9698	242.4	247	237	..	26	9682	240·0	245	232	..
250	27	10960	231.7	237	226	..	25	10901	230·0	236	223	..
200	26	12439	219.4	224	214	..	24	12400	217·7	224	211	..
175	26	13270	212.8	218	207	..	23	13232	211·6	216	204	..
150	26	14333	205.8	210	201	..	23	14194	204·7	210	197	..
125	25	15300	199.3	204	193	..	20	15238	197·8	205	192	..
100	20	16629	195.3	201	188	..	18	16534	193·9	203	185	..
80	15	17908	197.4	205	189	..	10	17939	195·2	205	190	..
70	12	18665	200.0	206	194	..	8	18620	197·3	209	199	..
60	11	19559	203·1	210	195	..	5	19538	201·2	209	196	..
50	7	20651	204·9	210	198							
40												
30												
20												
10												

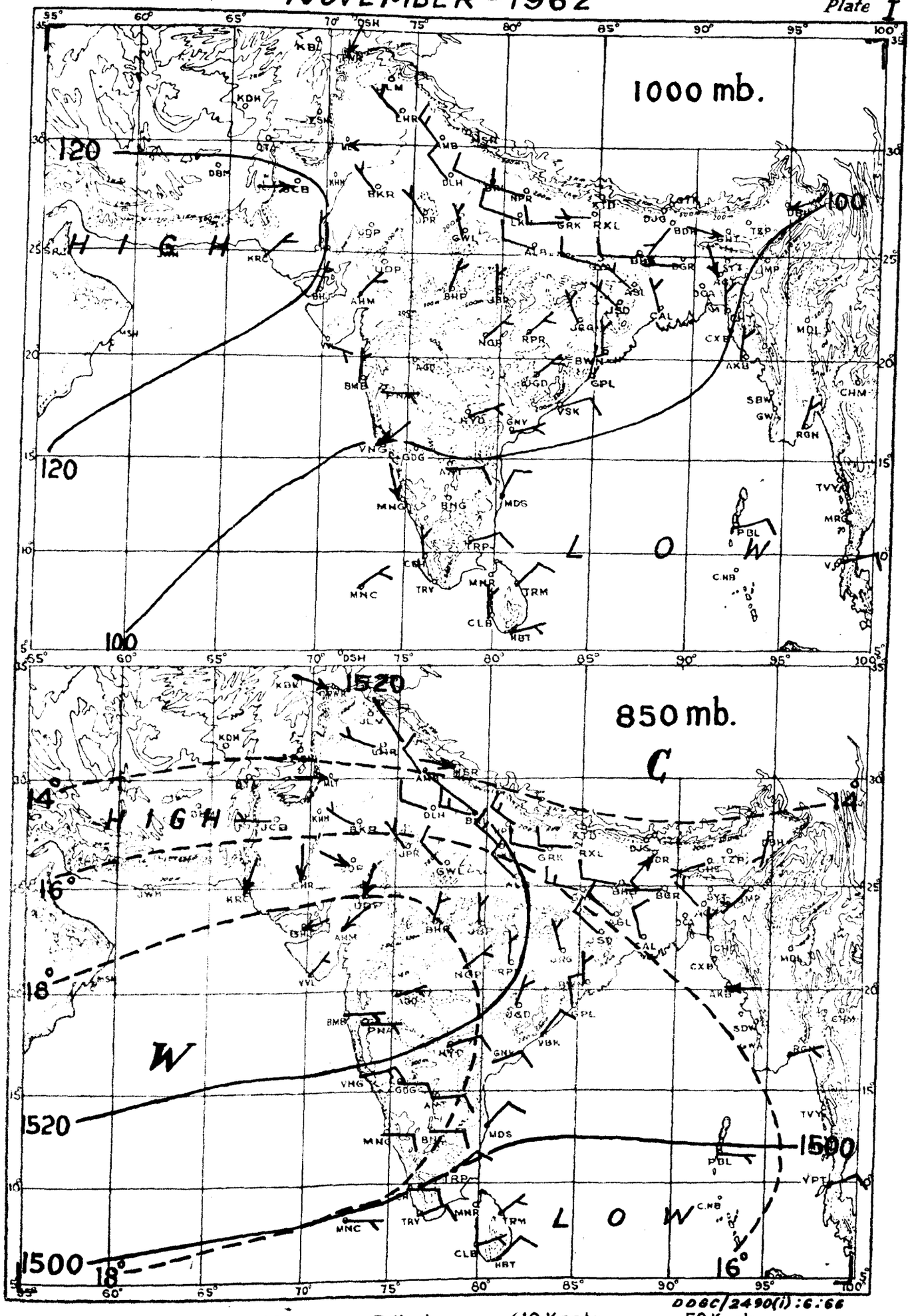
GIPN—S3—2 D.D.G. Obs. P./67—10-8-67—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

NOVEMBER-1962

Plate I



DDGC/2490(i):6.66

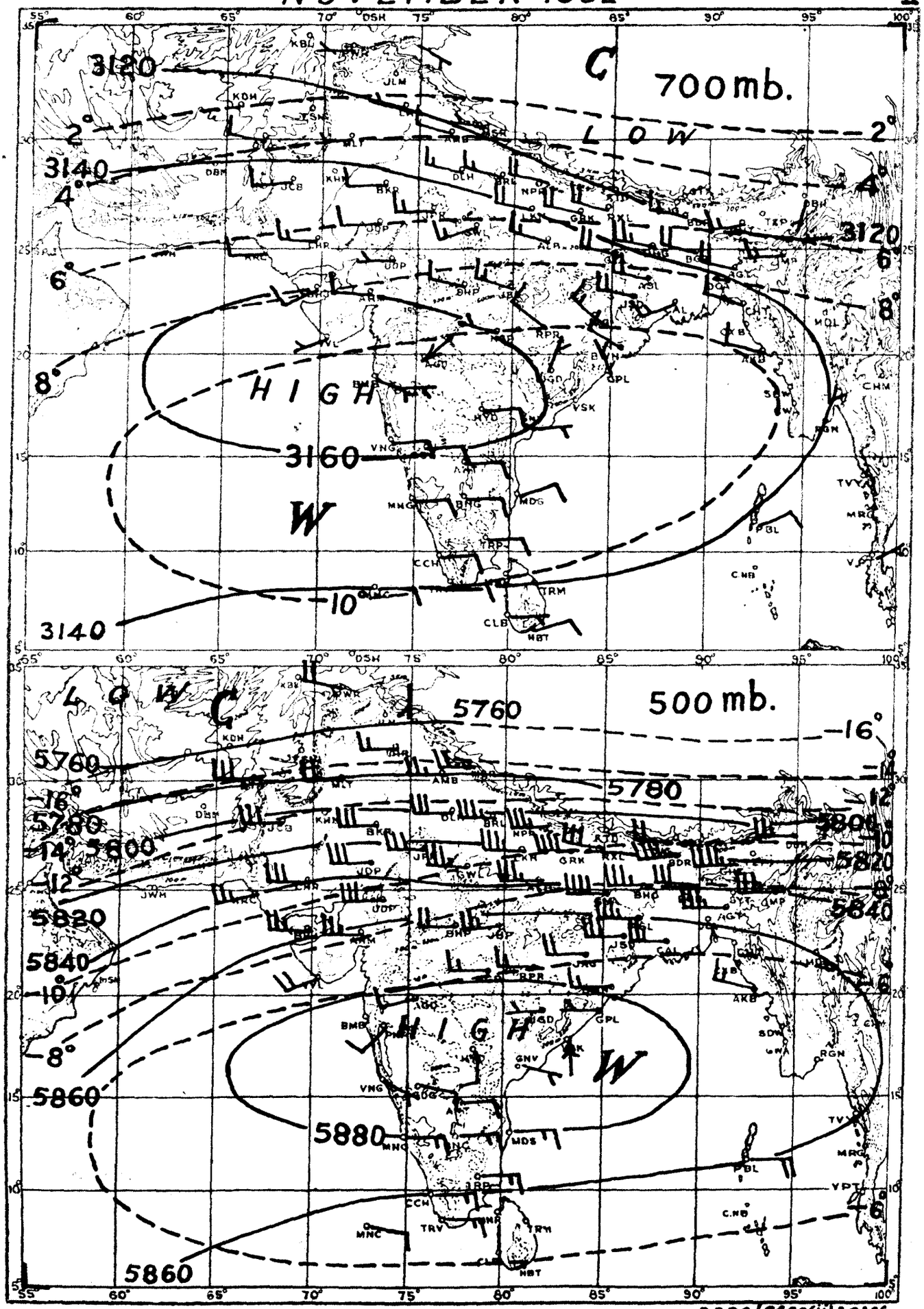
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

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

G.P.P. POONA, 1968

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **NOVEMBER-1962** Plate II



DDGC/2490(11):6:66

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

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

G.P.Z.P. POONA, 1965

Registered No. MH-75

INDIA WEATHER REVIEW, 1962

Monthly Weather Report

DECEMBER

Published by authority of the Government of India

Chief features :—

(i) An unusual spell of heavy rains in the Peninsula and central parts of the country during the first week;

(ii) Formation and movement of a severe cyclonic storm in the Bay of Bengal; and

(iii) Movement of three western disturbances across north India during the second half of the month.

Last month's severe cyclonic storm which weakened into a low pressure area soon after crossing inland near Nellore on 30th November emerged into the east central Arabian Sea off the Kanara coast by 1st December. It persisted there as a well marked trough till 6th and weakened and became unimportant thereafter. In association with this trough which extended upto west Madhya Pradesh on 2nd, a closed upper air cyclonic circulation developed over west Madhya Pradesh and neighbourhood on 3rd. It slowly shifted northwards to west Uttar Pradesh by 6th. Later, it weakened and moved away eastwards across Assam by 10th. In association with these developments, there was a sustained influx of moist air causing rainfall at a number of places in the Peninsula and central parts of the country during the first week and in Uttar Pradesh and Bihar State towards the end of that week. Some of the noteworthy amounts of rainfall recorded were : Coonoor 13 cm on 2nd, Mandla 17 cm, Devgad 14cm and Seoni 11 cm on 5th and Gondia 10 cm on 6th. According to press reports, the heavy and unseasonal showers in Maharashtra and Gujarat States caused some damage to cotton crops.

A low pressure area formed over the southeast Bay of Bengal on the 4th and slowly intensified into a depression by 8th evening with centre near Lat. 8°N and Long 91.5°E. Moving initially northwestwards, it further intensified into a severe cyclonic storm of small extent with a core of hurricane winds by 10th morning when it was centred near Lat. 10.5°N and Long. 89.5°E. Thereafter it recurved and moved due east, an unusual occurrence. It remained a severe cyclonic storm till the evening of 12th, weakened into a low by 13th and merged into the seasonal low by 15th. Under its influence heavy rainfall occurred in the Bay Islands on many days during the first half of the month. Port Blair recorded an exceptionally heavy rainfall of 26 cm on 12th. The other noteworthy amounts of rainfall were : Kondul 15 cm on 5th, Car Nicobar 10 cm on 8th and Maya Bandar 12 cm on 10th.

A trough in the low level easterlies developed along the Konkan-Kanara coasts during the third week. This together with a well marked trough in the high level westerlies moving across the country during the week, caused heavy clouding over the central parts of the country and isolated very light showers in west Madhya Pradesh on 24th. A low pressure wave which appeared over the southwest Bay of Bengal on 27th moved westwards across Maldive area by 30th. It caused light thundershowers in the south Peninsula towards the end of the month.

Three western disturbances moved across north India during the second half of the month. The first disturbance appeared over Baluchistan and adjoining Afghanistan on 13th and moved across the Punjab (I) and Uttar Pradesh as an upper air low during the next two days. Later it weakened and became unimportant. Under its influence a few very light showers occurred in the Western Himalayas and the adjoining plains of the Punjab (I) on 14th and 15th. Another western disturbance moved into West Pakistan on 16th. It moved away northeastwards across the Western Himalayas as a well marked sea level trough by 19th. The trough extended southwards upto the Gulf of Cambay on 17th. In association with this system, well distributed precipitation occurred in parts of northwest India on 17th and 18th. The third western disturbance moved eastwards from the northern divisions of West Pakistan across the Western Himalayas during the period 26th to 29th. It caused light precipation in many parts of northwest India on 27th and 28th.

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1—26 D. D. G. Obs. Poona/65.

Night temperatures were above normal over the Peninsula during the first and last weeks of the month, being appreciably to markedly so in its northern parts on most of the days in the first week. They were as much as 8 to 10°C above normal on some days. Night temperatures were also above normal in the central parts of the country during the first and third weeks, being markedly so in the first week. They were generally below normal over the country outside northeast India during the second week. In association with the western disturbances mentioned earlier, the night temperatures over northwest India remained generally above normal during the second half of the month, being appreciably so on a few days. In the rear of the last western disturbance the night temperatures fell and were below normal over most parts of the country towards the end of the month.

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

Mean maximum temperature was below normal in Jammu and Kashmir, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Rayalaseema and north Interior Mysore and normal over the rest of the country outside Himachal Pradesh. Mean minimum temperature was above normal in Bihar Plateau, east Rajasthan, Madhya Pradesh, Gujarat Region, Maharashtra State, Telangana, Rayalaseema and coastal and south Interior Mysore and normal over the rest of the country outside Himachal Pradesh.

Mean relative humidity in the morning was above normal in the Punjab(I), Rajasthan, Madhya Pradesh, Maharashtra State, Telangana, Interior Mysore and the Arabian Sea Islands and normal over the rest of the country outside Himachal Pradesh.

Mean cloud amount in the morning was normal in Assam, Gangetic West Bengal, west Uttar Pradesh, the Punjab(I), west Rajasthan and coastal Andhra Pradesh and below normal in Saurashtra and Kutch. It was above normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,

Dated the 20th February, 1963.

R. ANANTHAKRISHNAN,

for *Director General of Observatories.*

TABLE 1—DIVISIONAL AND SUB-DIVISIONAL MEANS—DECEMBER, 1962 (AGRAHAYANA 10—PAUSA 10, 1884 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST	Relative humidity % 1730 hrs IST.	Cloud 0830 hrs IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	4.2 −4.8	47	24.6 +0.7	11.3 +0.8	82 −4	72	2.3 −0.1	2.0
2. West Bengal	0.4 −3.2	11	25.9 +0.1	13.0 +0.3	70 −2	60	1.6 +0.4	1.7
3. Orissa	5.0 +0·4	109	27.0 +0.2	14.6 +0.7	71 −1	57	2.3 +0.8	2.1
4. Bihar	7.0 +2.6	159	25.1 +0.6	11.1 +0·7	72 −1	59	2.2 +1.0	2.0
5. Uttar Pradesh	9·2 0	100	23.8 +0.1	8.7 +0.4	77 +3	57	1.7 +0.4	1.9
6. Punjab (India) (Including Himachal Pradesh Delhi.)*	14·7 −0 7	95	21.7 −0.7	6.3 −0.1	84 +11	60	2.6 +0·4	2.4
7. Jammu and Kashmir.	35.3 +4.4	114	8.7 −1.6	−2.1 −0·9	65 −5	63	5.9 +1.1	4.8
Sub-Division								
1. Bay Islands	493.1 +291.9	245	29.4 +0.7	23.2 +0.5	76 −5	82	5.3 +1.1	5.3
2. Assam (Including Manipur, Tripura).	4.2 −4·8	47	24.6 +0.7	11.3 +0.8	82 −4	72	2.3 −0.1	2.0
3. Sub-Himalyan West Bengal.	0 −2·8	6	24.1 −0.9	11.4 +0.3	79 +2	70	1.9 +0.8	2.2
4. Gangetic, West Bengal.	0·6 −3.3	15	26.5 +0.4	13.5 +0.3	68 −3	57	1.5 +0.2	1.5
5. Orissa	5·0 +0·4	109	27.0 +0.2	14.6 +0.7	71 −1	57	2.3 +0·8	2.1
6. Bihar Plateau	9.3 +3.6	163	25.4 +0.9	11.3 +1.1	68 −1	54	2.4 +1.1	2.1
7. Bihar Plains	5.6 +1·9	151	24.7 +0.3	10.8 +0.4	75 −2	65	2.0 +1.0	1.9
8. Uttar Pradesh, East.	5·6 −1·1	84	24.3 +0.1	9.2 +0.5	79 +2	59	1.9 +0·7	2.0
9. Uttar Pradesh, West.	14·2 +1·5	112	23.1 0	8.1 +0.3	74 +3	54	1.5 −0.1	1.8
10. Punjab (India) (Including Delhi).	14·7 −0·7	95	21.7 −0.7	6.3 −0.1	84 +11	60	2.6 +0.4	2.4
11. Himachal Pradesh.	20·1 ..	..	19.9 ..	5.4 ..	93 ..	55	3.1 ..	1.5
12. Jammu and Kashmir.	35.3 +4.4	114	8.7 −1.6	−2.1 −0·9	65 −5	63	5.9 +1.1	4.8
13. Rajasthan, West	4.1 −0.8	84	24.4 −0.9	8.8 0	37 +7	36	1.6 −0.1	1.6
14 Rajasthan, East	2·5 −2.9	46	25·8 +0.6	10.6 +1·3	70 +12	44	1.9 +0.5	2.0
15. Madhya Pradesh (West.)	38·1 +30.9	529	25.7 −0.4	11.2 +1.4	70 +9	48	2.5 +1.0	2.9

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST.	Relative humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	3 3 −1.9	63	25.2 −0.1	9.8 +0.7	68 +10	40	1.8 +0.2	1.8
9. Madhya Pradesh	41.7 +35.1	632	25.8 −0·2	11.6 +1.6	73 +7	51	2·6 +1.1	2.9
10. Gujarat State.	1.9 +0 6	146	29.4 +0.1	14.1 +0.9	62 +3	42	1·3 0	1.5
11. Maharashtra State.	79.7 +74.8	1627	28.3 −1.1	16.1 +1.3	76 +13	52	3.2 +1.6	3.2
12. Audhra Pradesh	47·7 +33.3	331	28.4 −0.5	18.0 +0.8	77 +4	59	3.1 +0.6	3.1
13. Madras State	57.8 −53.1	52	29.3 +0.5	21.8 +0.8	79 −1	67	5.0 +1.0	4.9
14. Mysore	74.9 +66.5	892	27.8 −1.1	17.5 +1.0	78 +10	55	4 0 +1 5	4.2
15. Kerala	62.7 +18.5	142	31.1 +0.3	23.3 +0.7	77 +1	69	4.0 +0.7	4.5
Sub-Division—*contd.*								
16. Madhya Pradesh (East).	46.2 +40.5	811	25.8 0	12.0 +1.9	77 +6	55	2.8 +1.2	3.1
17. Gujarat Region	2·1 +1·2	233	31.2 +0.5	14.7 +1.7	68 +5	39	1.6 +0.4	1.7
18. Saurashtra and Kutch.	1·8 +0.3	120	28.3 −0.2	13.6 +0·2	58 +3	44	1.1 −0.3	1.3
19. Konkan	110.7 +108.5	5032	30.4 −0·1	20.4 +1.2	74 +8	63	2.9 +1 2	3.0
20. Madhya Maharashtra.	57.9 +52.5	1072	28.2 −1.3	14.3 +1.4	76 +16	45	3.5 +2.0	3.4
21. Marathwada	58.1 +52.3	1002	27.0 −2.0	14.3 +1.3	73 +17	49	3.2 +1.5	3.3
22. Vidarbha	81.4 +74.5	1180	26.8 −1.7	14.6 +1.4	77 +15	51	3.1 +1 5	3.2
23. Coastal Andhra Pradesh.	23.8 +3·3	116	28.6 +0.1	19.0 +0.4	75 0	64	3.1 +0.4	3.1
24. Telangana	60.1 +53.9	969	27.9 −1.1	15.9 +1.1	82 +11	53	3.2 +1.0	3.1
25. Rayalaseema	87·0 +76.0	791	28.5 −1·2	18.5 +1·3	78 +5	56	2.8 +0.5	3.4
26. Madras State	57.8 −53.1	52	29.3 +0.5	21.8 +0.8	79 −1	67	5.0 +1.0	4.9
27. Coastal Mysore	83.0 +75·1	1051	31.5 −0.7	21.8 +1.1	70 +4	63	3.5 +1.1	3.9
28. Interior Mysore, North.	72·7 +66.3	1136	27.1 −1.8	16.4 +0.8	77 +15	52	3.6 +1.9	3.9
29. Interior Mysore, South.	73.4 +63.0	706	26.9 −0·7	16.5 +1.2	81 +8	53	4.5 +1.5	4.7
30. Kerala	62.7 −18.5	142	31.1 +0.3	23.3 +0.7	77 +1	69	4.0 +0.7	4.5
31. Arabian Sea Islands.	76·1 −9.5	89	30.7 +1.0	23.7 +0.4	80 +6	74	4.0 +0.7	5.3

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28·5	..	31·1	1	22.0	..	19·4	29	53.3	116·1	..	42.4	10	7	..	11·1	8·6	..	0	7	0	0	0	0	0	0	0	0	0
Long Island	28·9	..	30·7	1	22.6	.	19·1	29	107.8	304·1	..	108·2	12	7	..	10·4	7.9	..	0	9	0	0	0	0	0	0	0	0	0
Port Blair	29·4	+0·7	31·1	2	23.2	+0·5	19·8	28	205.8	493·1	+291.9	259·4	12	7	−0·2	12.2	11.3	−3.3	1	7	0	0	2	1	0	0	0	1	0
Car Nicobar	29·1	..	29·7	2,22	24.5	..	22·1	29	86.8	267·8	..	95·4	8	9	..	8.7	7.3	..	1	13	0	0	1	0	0	0	0	0	0
Nancowry	30·2	..	32·2	29	24.5	..	22·4	4	182·0	495.0	..	86·6	8	17	..	1·5	1·2	..	0	20	0	0	2	0	0	0	0	0	0
Kondul	28·1	..	29·4	16	24.7	..	22.1	3	120.8	526·9	..	150·2	5	14	..	..	..	..	0	20	0	0	1	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	23·9	..	26.7	5	14·2	..	10·7	29	5·8	23 6	..	15·4	13	2	..	7.6	14·0	..	0	4	0	0	2	0	0	0	0	0	0
Dibrugarh (Mohan bari)	24·2	+1.5	26.7	6,8	9·8	+0·9	4·3	28	1·8	16·7	+0.7	8·2	10	3	+1.6	4·0	1·9	+0·2	0	3	0	0	2	11	0	0	0	0	0
Digboi	26 2	..	30.6	3	12.9	..	7.1	3	(1) 0	(a) 11·0	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
North Lakhimpur	24·4	+0.2	27·3	9	10.5	+1·2	5.6	28	2·0	14·8	−17·4	10·0	10	2	−1.3	3·0	2·1	..	0	3	0	0	0	0	0	0	0	0	0
Sibsagar	24·9	+2·6	27·8	8	11·4	+0·9	6·8	28	·0	1·0	−13·7	1·0	10	0	−1·5	2.3	1·1	−0·5	0	1	0	0	0	29	0	0	0	0	0
Gohpur	22.8	..	24.9	4 days	7·7	..	3.3	28	0	29.8	..	24.8	3	2	..	3·3	2.4	..	0	2	0	0	0	11	0	0	0	0	0
Majbat	25.6	..	27.8	8	10.4	..	6.2	28	0	7·0	..	7·0	13	1	..	6·6	3·2	..	0	1	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	24·6	..	27·1	8	11.2	..	7·0	28	0	1·5	..	1.5	10	0	..	..	..	..	0	1	0	0	1	16	0	0	0	0	0
Tangla	26·6	..	29·5	8	11.2	..	6·3	28	0	18·0	..	18.0	13	1	..	3·5	2.3	..	0	1	0	0	0	0	0	0	0	0	0
Tezpur	25.3	+1·3	27·7	8	10·9	−1·4	7 6	29,30	0	1·8	−4·5	1.8	13	0	−0·7	4·6	3·5	+1·2	0	1	0	0	0	0	0	0	0	0	0
Golaghat	25.1	..	28.3	3	11 4	..	7.8	27,28	(1) 0	(c) 0	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Rangia	26·1	..	28·7	2 10	12·9	..	8·8	28	0	16·0	..	16.0	13	1	..	5·7	3·5	..	0	1	0	0	1	0	0	0	0	0	0
Chaparmukh	26·0	..	30·0	9	12.9	.	9·4	26,27	0	0	..	0	..	0	..	2·7	2.1	..	0	0	0	0	0	0	0	0	0	0	0
Goalpara	26·2	..	30·9	28	12·3	..	8·6	28	0	0	..	0	..	0	..	3·0	1.5	..	0	0	0	0	0	2	0	0	0	0	0
Gauhati	25·3	+1.1	29.4	7	13·3	+1.8	10·1	27	0	13·6	+9.5	13.6	13	1	+0.5	..	..	..	0	1	0	0	0	24	0	0	0	0	0
Gauhati (Bhorjor)	25·2	+1·4	29·7	1	11·5	+1.8	7·9	27	0	2·0	−2·1	1.6	9	0	−0·5	4.3	2.2	+0·4	0	2	0	0	1	16	0	0	0	0	0
Dhubri (Rupsi)	25.2	..	27·2	8	11·4	.	7.8	27	0	0	..	0	..	0	..	5.1	3·8	..	0	0	0	0	0	7	0	0	0	0	0
Dhubri	24·0	+0.6	27.3	4	14·5	+1·3	10·6	27	0	0	−1·8	0	..	0	−0·1	4·7	3·2	−2·4	0	0	0	0	0	0	0	0	0	0	0
Lumding	26·1	+2·8	28·9	7	14·7	+4.3	11·6	31	.0	0	−3·6	0	..	0	−0·4	1·8	0·9	..	0	0	0	0	0	0	0	0	0	0	0
Tura	24·7	..	27·6	6	11·0	..	8·8	31	0	0	..	0	..	0	..	4·2	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Haflong	21.6	..	23·8	8	11·8	..	9·3	14	0	0	−9·1	0	..	0	−0·7	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Silchar (Kumbhir gram)	26·3	..	29·1	6	12·1	..	8·8	27	0	0	..	0	..	0	..	5·3	8·0	..	0	0	0	0	0	0	0	0	0	0	0
Silchar	23.0	−3·6	27·6	9	12·9	+0.3	9·4	31	0	0	−10·7	0	..	0	−0·7	1·3	0.8	−0·6	0	0	0	0	0	0	0	0	0	0	0
Imphal (Tulihal)	22·0	−0.1	24.4	8	4.4	−0.7	0·8	29, 30,31	0	0	−3·1	0	..	0	−0·5	4·8	3·0	−0·5	0	0	0	0	0	15	0	6	0	0	0
Kailashahar	26.3	..	28.5	8	10.5	..	7·1	30	0	0	..	0	..	0	..	2·4	1·0	..	0	0	0	0	0	10	0	0	0	0	0
Agartala	26.5	−0·2	28·8	7	10·5	−1·3	6·1	31	0	0	−1·7	0	..	0	−0.1	6·3	3.0	+0·1	0	0	0	0	0	10	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	25·2	+0·8	27·3	3	9·7	−0.2	6·9	26	0	0	−1·1	0	..	0	−0.1	7·2	6·0	+2·7	0	0	0	0	0	3	0	0	0	0	0
Jalpaiguri	21·9	−2.9	25·1	9	12·0	+0·2	9·5	28	0	0	−4·3	0	..	0	−0·4	4·9	3.7	+2·4	0	0	0	0	0	2	0	0	0	0	0
Cooch Behar	25.5	..	27·6	8	11·1	..	7·3	28	0	0	−4·1	0	..	0	−0.3	4·2	1·9	..	0	0	0	0	0	23	0	0	0	0	0
Balurghat	27·2	..	29.8	2	9·7	..	6·4	30,31	0	0	..	0	..	0	..	4·6	2·5	..	0	0	0	0	0	0	0	0	0	0	0
Malda	25·2	+0·9	27·3	5	12·4	+1·0	7·8	31	0	0	−1·8	0	..	0	−0·2	7·4	5·2	+0·7	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	26·6	+1·5	29·6	1	12·3	−0·5	8·3	31	0	0	−4·1	0	..	0	−0·4	1·1	0.3	−1.1	0	0	0	0	0	6	0	0	0	0	0
Suri	25.9	..	28·8	1	13·0	..	8·5	31	..	0·6	..	0·6	9	0	..	..	5·3	..	0	1	0	0	0	0	0	0	0	0	0
Asansol	26·4	+0·5	29·5	5	11·3	−0.6	6·4	31	0.1	2·3	−2·3	2·3	9	0	−0·4	8·2	3·6	−1.7	0	1	0	0	0	1	0	0	0	0	0
Santiniketan	26.3	..	29·1	5	12.0	..	8·0	31	0	0.1	..	0.1	9	0	..	6·6	6·5	..	0	0	0	0	0	0	0	0	0	0	0
Krishnanagar	26·3	+0·4	30.0	5	12·1	+0.4	6·1	31	0	0	−2·8	0	..	0	−0 2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Purulia	25 2	−0·9	29.2	4	13·3	+0.1	8·5	31	0	4·0	+2·7	4.0	9	1	+0.7	(b) 3·8	(a) 2.6	−0.1	0	1	0	0	0	0	0	0	0	0	0
Bankura	26.5	..	29.9	3	..	..	..	..	0	0	−2·8	0	..	0	−0·3	1·1	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Burdwan	26·9	+0·3	30·3	5,6	13·8	+0·5	8·8	31	0	0	−4.8	0	..	0	−0·3	5·2	3·7	+1·8	0	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	26·1	..	28·8	1,4	12·3	..	6·7	31	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	4	0	0	0	0	0
Calcutta (Dum Dum)	26.9	+0.3	29·8	1	12·6	−0.7	7·8	31	0	0	−3·6	0	..	0	−0.3	6·1	3·0	−0·5	0	0	0	0	0	4	0	0	0	0	0
Calcutta	27.1	+0·8	30·4	4	14·5	+1.7	11·0	31	0	0	−4·6	0	..	0	−0 3	7·8	4·6	+1·5	0	0	0	0	0	2	0	0	0	0	0
Midnapore	26·5	−0·1	29·9	6	13.5	+0·4	9·9	31	0	0	−4·1	0	..	0	−0·3	3·1	3·9	+1·6	0	0	0	0	0	0	0	0	0	0	0
Contai	27 0	+0 1	30·1	4	14·5	−0.2	10·3	31	0	0	−4.3	0	..	0	−0.2	5.3	3.1	−0.1	0	0	0	0	0	0	0	0	0	0	0
Sagar Island	25·6	+0·7	28·3	6	16·7	+1·6	13·2	31	0	0	−5·3	0	..	0	−0·4	14·9	11·3	+2·4	0	0	0	0	0	0	0	0	0	0	0
Sandheads	28·1	..	36·6	6	22.0	..	18.4	21	0	0	−3·8	0	..	0	−0 3	..	..	..			0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	28·1	..	31·1	3	12·7	..	8·6	31	0	0	..	0	..	0	..	4·0	1·9	..	0	0	0	0	0	0	0	0	0	0	0
Jharsuguda	27·1	−0·5	31·5	4	13·4	+1·3	8.9	31	8.0	8·0	+6·6	8·0	8	1	+0·8	7·0	5·2	+0·1	0	1	0	0	0	0	0	0	0	0	0
Keonjhargarh	25·1	..	30·1	4	12·9	..	9·4	12,31	0	8·4	..	7·2	9	1	..	3·8	2·2	..	0	2	0	0	0	0	0	0	0	0	0

(a) Total or Mean of 30 days. (b) Mean of 29 days. (c) Total for 28 days. (1) Total for 19 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hour	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0.2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a	20(b	21	22	23	24	25	26	27	28	29
Orissa—*contd.*																													
Balasore	27·2	+0·5	30·4	4	14·4	+1·2	10·0	31	0	0	—4·1	0	..	0	—0·3	7·1	4·2	+1·6	0	0	0	0	0	0	0	0	0	0	0
Sambalpur	28·0	+1·2	32·1	3, 4	13·6	+1·5	9·4	29	12·3	12·8	+8·5	12·8	9	1	+0·7	5·0	3·3	+0·2	0	1	0	0	0	0	0	0	0	0	0
Angul	27·2	+0·5	30·2	3	14·3	+1·5	10·7	31	0	27·5	+23·9	27·5	9	1	+0·6	6·0	5·4	+0·6	0	1	0	0	0	0	0	0	0	0	0
Cuttack	29·0	+1·7	32·3	3	15·9	+1·1	12·7	31	0	0	—5·8	0	..	0	—0·4	3·8	2·2	+0·8	0	0	0	0	0	0	0	0	0	0	0
Chandbali	27·6	+0·8	31·7	5	14·7	+0·4	11·7	12 28,31	0	0	—0·8	0	..	0	—0·1	8·1	5·8	+0·5	0	0	0	0	0	0	0	0	0	0	0
Bolangir	27·8	..	32·2	5	14·7	..	10·9	31	1·2	1·2	..	1·2	8	0	..	3·7	3·7	..	0	1	0	0	1	0	0	0	0	0	0
Phulbani	25·8	..	30·0	3	9·7	..	4·7	29	0·8	4·0	..	2·8	7	1	..	2·8	1·6	..	0	2	0	0	0	0	0	0	0	0	0
Titlagarh	28·3	..	31·7	5	13·4	..	9·6	29,31	0	0	..	0	..	0	..	5·5	4·3	..	0	0	0	0	0	0	0	0	0	0	0
Bhubaneswar	28·2	0	32·2	4	16·1	+0·3	12·4	29	0	0	—2·9	0	..	0	—0·4	11·2	7.1	+0·6	0	0	0	0	0	0	0	0	0	0	0
Puri	27·8	+0·9	30·6	4	17·9	+1.0	15·1	25	0	0	—6·1	0	..	0	—0·4	(a) 12·4	10.0	+0·7	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	28·0	+1·1	29·9	2	16·6	+0·7	15·2	29	0	0	—13·5	0	..	0	—0·7	12·9	10·3	+0·5	0	0	0	0	0	0	0	0	0	0	0
Koraput	19·9	—4·6	23·9	6, 10	8·8	—2·5	1·1	20	1·3	1·3	—1·5	1·3	9	0	—0·3	..	..	.	0	1	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	26·0	+1·3	29·7	5	11·4	+0·5	7·7	30	0	0·5	—2·8	0·5	9	0	—0·3	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Daltonganj	24·9	+0.2	28·9	4	9·9	+1·8	3·7	31	2·6	3·6	—2·7	3.6	6	1	+0·5	4·1	2·7	+0.3	0	1	0	0	0	0	0	0	0	0	0
Hazaribagh	22·2	—0·2	27·8	5	10·0	0	4·4	31	2·2	9·7	+2·8	6·6	8	1	+0·5	10·9	7·8	+0·6	1	3	0	0	0	0	0	0	0	0	0
Dhanbad	25·4	..	29·8	4	12·7	..	8·5	31	24·4	26·6	..	26·6	9	1	..	5·5	4·2	..	0	1	0	0	0	0	0	0	0	0	0
Ranchi	25·0	+2·3	30·1	5	11·3	+1·0	7·9	14	14·3	32·8	+25·9	32·8	9	1	+0·4	1·7	3·3	—1·4	0	1	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	22·7	..	28·3	2	11·4	..	6·9	30	..	21·6	..	21·4	9	1	..	(i) 12·1	8·3	..	1	1	0	0	0	0	0	0	0	0	0
Jamshedpur	27·3	+0·7	31·1	4	12·3	+1·5	6·9	31	0·6	0.6	—5·2	0·6	9	0	—0·4	7·5	4·2	+1·8	0	1	0	0	0	0	0	0	0	0	0
Jamshedpur (P.B.O.)	26·0	..	29·5	4	12·4	.	6·5	31	0	0·5	..	0·5	9	0	..	7.9	4·1	..	0	1	0	0	0	0	0	0	0	0	0
Chaibasa	26·8	+1·1	30·6	4	12·7	+1·[illegible]	8·5	31	0	3·4	+3·8	3·4	9	1	+0·6	3·0	2·0	+0·2	0	1	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari (R)																													
Forbesganj	26·0	..	27·9	2	10·9	..	6·8	29	0	0·6	..	0·6	6	0	..	5·4	3·1	..	0	1	0	0	0	6	0	0	0	0	0
Darbhanga	24·0	—0·7	27·8	2	11·1	+0·1	7·2	31	0	4.5	+1·4	4·5	6	1	+0·7	10·9	3·0	+1·2	0	1	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	14·0	+10·9	14·0	6	1	+0·7	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Chapra	25·2	..	28·4	5	11.0	..	6·6	31	0	8·4	+4·8	8·4	6	1	+0·6	5·6	3·3	..	0	1	0	0	0	1	1	0	0	0	0
Purnea	25·4	+0·8	27·4	5	10·2	+0·5	6·9	27	0	0	—3·1	0	..	0	—0.3	(a) 4·9	2·6	+0·8	0	0	0	0	0	1	1	0	0	0	0
Patna	24·5	+0·8	28·5	4	12·0	+0·7	7·5	31	0·2	14·4	+8·8	14·4	6	1	+0·5	5·4	5·2	+2·5	1	2	0	0	0	0	0	0	0	0	0
Patna Aerodrome	24·1	..	27·2	5	10·5	..	6·1	31	1·0	16.0	..	16·0	8	1	..	8·3	4·4	..	0	1	0	0	0	3	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	7·9	+2·7	7·0	6	1	+0·5	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Bhagalpur	25·2	—0·3	29·1	5	12·6	—0·2	10·2	30	0	0·6	—1.0	0·6	6	0	—0·2	7·8	5·1	+1·2	0	1	0	0	0	6	0	0	0	0	0
Sabaur	24·6	+0·3	28·4	5	9·1	+0·3	5·6	31	0	0·6	—2·5	0·6	6	0	—0·1	7·6	3·9	—0·4	0	1	0	0	0	0	0	0	0	0	0
Jamui	24·8	..	29·7	4	11·6	..	7·8	30	0·1	0·2	..	0·2	6	0	..	6·2	2·9	..	1	0	0	0	0	0	0	0	0	0	0
Dehri	25·0	..	28·7	4	12·5	..	7·6	31	0	5·8	+1·2	5·0	6	1	+0·5	6·1	4·3	..	0	2	0	0	0	0	0	0	0	0	0
Gaya	24·8	+1·1	29·1	4	10·0	+0·8	5·0	31	0	0·9	—3·7	0·6	6	0	—0·4	5·6	3·2	—1·8	0	2	0	0	0	1	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich	24·7	+0·8	28·4	3	9·3	+0·3	4·4	31	0	0	—8.6	0	..	0	—0·9	5·5	3·6	+1·7	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	25·0	..	27·5	2	9.4	..	6·2	30	0	1·8	..	1·8	6	1	..	1·2	0·8	..	0	1	0	0	0	0	0	0	0	0	0
Hardoi	24·0	—0·3	27·9	3	8·7	—0·2	4·2	30,31	0	0	—2·1	0	..	0	—0·5	7·3	4·2	+1·0	0	0	0	0	0	0	0	0	0	0	0
Gonda	23·7	—0·6	27·8	3	9.8	+1.1	5·3	31	0	10·4	+2·3	10·4	6	1	—0·1	4·3	3·6	+0·2	0	1	0	0	0	0	0	0	0	0	0
Lucknow	24·2	—0·2	28·2	3	9·5	+1·0	5·3	31	0	0	—8·1	0	..	0	—0·7	3·3	1·9	+0·3	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi)	24·2	—0·2	26·0	3	7·0	+0·1	0·9	31	0	0	—8·1	0	..	0	—0·7	8·6	5·7	..	0	0	0	0	0	2	0	0	0	0	0
Faizabad	23·9	..	27·4	1, 3,4	9·3	..	4·6	31	0	7·3	..	7·3	6	1	..	4·4	2·4	..	0	1	0	0	0	2	0	0	0	0	0
Gorakhpur	24·3	+0·7	27·6	1, 4	9·9	0	5·7	31	0·7	14·9	+10·1	14·2	6	1	+0·6	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Kanpur	24·6	+1·3	28·4	4	9·5	+1·4	3·9	30,31	0	0	—7·1	0	..	0	—0·8	10·0	6·0	+2·6	0	0	0	0	0	2	0	0	0	0	0
Kanpur (Aerodrome)	24·6	..	29·4	4	9·1	..	2.2	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	3	0	0	0	0	0
Sultanpur	24·3	..	28·4	3, 4	10·3	..	5·8	30	0	0	..	0	..	0	..	4·7	3·2	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	24·8	..	29·4	1	8·0	..	3·3	31	..	..	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	24·6	+0.1	30·0	4	8·8	+0·2	2·9	30	0	0	—8·6	0	..	0	—1·1	6·6	4·0	+1·4	0	0	0	0	0	1	0	0	0	0	0
Ballia	25·3	..	29·8	30	10·3	..	7·3	31	2·6	8·2	..	8·2	6	1	..	1·1	0·3	..	0	1	0	0	0	0	0	0	0	0	0
Banda	26·7	..	30·2	4	9·7	..	4·1	31	0	0	..	0	..	0	..	2·4	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	25·0	—0·7	29·4	4	10·1	+1·7	4·0	0,31	0·6	4·4	—4·2	3·7	6	1	+0.3	4·7	2·8	—0·6	0	2	0	0	0	1	0	0	0	0	0
Varanasi (Babatpur)	24·2	—0·4	32·7	1	7·8	—1·8	2·3	31	2·0	5·8	+3·4	3·8	6	1	+0·7	5·2	7·2	+2·3	0	3	0	0	0	0	0	0	0	0	0
Varanasi	23·5	—0·5	27.3	3	10·7	+1·7	6.1	30	5·6	26·0	+19·1	25·0	26	1	+0·5	6·2	4·3	+1·4	0	2	0	0	0	0	0	0	0	0	0
Uttar Pradesh																													
Mukhim (R)																													
Tehri (R)																													
Dehra Dun																													
Mahsiari (R)	20·3	—0·1	24·1	2	6·0	—1·3	3.2	31	32·2	45·0	+19·1	20·9	6	3	+1·3	3·5	3.1	+0·7	0	4	0	0	1	0	0	0	0	0	0
Roorkee	21·0	+0·8	25·6	3	7·3	+1·0	4.1	31	19·3	27·9	+10·6	13·7	6	3	+1·7	5.1	3·6	+1·5	0	3	0	1	1	2	0	0	0	0	0
Najibabad	22·7	..	27·0	2, 5	6.5	..	2.4	31	4·8	12·0	..	10·6	6	1	..	1·2	0·7	..	0	2	0	0	3	3	0	0	0	0	0
Meerut	23·1	+0·4	28·4	3	7·1	+0·1	4·4	31	..	23·3	+11·1	16·0	6	2	+0·8	..	5·9	..	0	3	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days.

(i) Mean or total for 22 days

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*contd.*																															
Bareilly	23·7	+0·9	27.3	3, 5	9·2	+1·1	5.1	31	0	0	−10·4	0	..	0	−1 0	6.8	4·4	+2·5	0	0	0	0	0	5	0	0	0	0	0
Aligarh	22·8	−0.5	27·4	2	8·0	−0·4	3·2	31	7,8	14·8	+3·9	9·4	6	2	+0·8	12·4	9·9	+5·1	0	2	0	0	0	0	0	0	0	0	0
Mainpuri	24·6	+0·5	29·6	4	8·3	+0.4	3.6	30	0	0	−9·4	0	..	0	−0·8	5·0	2.8	+1.0	0	0	0	0	0	7	0	0	0	0	0
Agra	23·9	−0·2	28.5	2	8·8	+0·9	2·5	31	0	0	−7·6	0	..	0	−0·8	5·6	5·0	−0 7	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	24·1	..	27.7	18	7·0	..	1·1	31	0	5·2	..	5·2	6	1	+0·2	..	..	..	0	1	0	0	3	0	0	0	0	0	0
Orai	22·2	..	25·6	4	8·9	..	3·9	30,31	0	0	..	0	..	0	..	6·5	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	25·2	−0.4	26·4	4	9·8	+0·7	4·0	31	2·4	2·4	−5·0	24	4	0	−0·8	2·8	2·1	−0.6	0	1	0	0	0	0	0	0	0	0	0
Punjab (India) (including Delhi)																															
Pathankot	19·3	..	22·8	3	6·4	..	2·9	30,31	11·6	22·1	..	10·4	18	3	..	5·4	4·6	..	0	4	0	0	3	4	0	0	0	0	0
Amritsar (Rajasansi)	20·4	−0·8	23·9	4	4·8	+0·3	0	31	6·2	11·0	−3·0	5·4	18	2	+0.6	8·0	6·1	+0·7	0	4	0	0	2	6	0	0	0	0	0
Adampur (Aerodrome)	20·3	..	24·1	3	4·8	..	−1·1	31	2·6	3·9	..	1·3	15,17, 27	0	..	..	..	..	0	3	0	0	0	7	0	0	0	0	0
Ludhiana	21·2	−0·4	25·6	3	6·0	−0·8	2·3	29,30	7·4	8·0	−10·3	8·0	18	1	−0·4	5·1	2·9	+1·1	0	1	0	0	0	0	0	0	0	0	0
Ferozepore	20·9	..	23·2	14	4·0	..	0·2	31	0	3·2	..	3·2	17	1	..	4·0	2·5	..	0	1	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	20.1	..	22·9	17	5·0	..	0.6	31	6·4	9.9	..	7.6	17	2	..	..	..	..	0	3	0	0	0	5	0	0	0	0	0
Chandigarh	22·0	−0·5	27·6	3	7 1	−0.3	2·8	31	2 2	17.7	−0.7	5.1	6	4	+2 6	5·0	3·5	..	1	4	0	0	0	0	0	0	0	0	0
Ambala	22·0	+0.4	28·5	2	7·7	+1·1	3.6	31	7·9	19·7	+0·4	9·6	5	2	+0 5	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	20·9	−1·5	25·6	2	5·6	−1·0	1·6	31	5·6	17·4	−1·9	10·1	5	2	+0·5	..	..	..	1	5	0	0	2	4	0	0	0	0	0
Patiala	20.3	..	26·9	3	7·2	..	3·3	31	0	10 2	−2·7	8·0	5	1	−0·2	7 6	7·4	..	0	2	0	1	1	2	0	0	0	0	0
Bhatinda	20·9	..	23·9	14	6·6	..	1·7	31	4·0	10·0	..	6·0	17	2	..	3·9	2·9	..	0	2	0	0	0	0	0	0	0	0	0
Karnal	20 9	..	26·0	5	6·7	..	2·5	30	7·0	25·0	..	18·0	5	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Hissar	22·8	−0·6	26·1	2	5·7	−0 5	1·2	31	1·1	8·9	−1·0	4·0	27	2	+1·0	6·7	6·0	+1 2	0	3	0	0	3	2	0	0	0	0	0
New Delhi (Safdarjung)	22·4	−0·7	27·3	2	7·2	+0·4	2·4	31	20·6	24·9	+14·0	15·2	6	2	+1 1	11·2	7·8	−0·6	0	3	0	0	1	9	0	0	0	0	0
Palam (Aerodrome)	22·3	..	26·6	3	6·4	..	0·2	31	13·9	14·3	..	9·9	6	2	..	..	..	..	0	3	0	0	0	1	5	0	0	0	0
Himachal Pradesh																															
Mandi	19·0	+1·1	30·1	21	3·9	+0·2	1·6	24	12·4	21·2	−11.9	10 0	18	3	+0·3	0	0	−1·8	0	4	0	0	2	19	0	0	0	0	0
Bilaspur	20·9	..	24·5	1	6·9	..	5·1	12	10.1	19·1	..	10·1	18	4	..	1·9	1·3	..	0	4	0	0	0	12	0	0	0	0	0
Jammu and Kashmir																															
Misgar (R)																															
Gilgit (R)																															
Skardu (R)																															
Drass	..	..	..	..	..	..	..	..	..	26·2	−27·4	11·3	27	4	−2·1	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Sonemarg*																															
Leh	−0.5	−2.3	3·9	1	−12·4	−1.7	−16·6	31	0	2·7	−2·1	1·6	20	0	−0·6	..	(g) 4·0	+1·7	0	3	7	0	0	0	0	0	0	0	0
Srinagar	4·7	−4·3	10·0	13	−1·0	−1·4	−2·9	30	21·4	49·1	+15·6	18·8	27	3	−0·4	..	..	..	0	5	3	0	0	0	0	9	0	0	0
Srinagar (Aerodrome)	3·9	..	8.6	16	−1·4	..	3.3	25	47·2	142·9	..	66 0	17	4	..	..	..	..	0	4	5	0	0	1	0	1	0	0	0
Gulmarg									Closed during winter months.																						
Banihal	10·9	..	17·2	8	0·2	..	−3·6	30	90·8	169·3	..	79·8	27	6	..	..	..	..	0	7	4	1	1	0	0	0	0	0	0
Jammu	21·8	+1·8	25·5	6	7·1	−2·4	3·1	25,31	..	64·0	+32·5	3·4	27	2	−0·6	..	6·5	..	0	4	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	19·3	..	23·4	4	7·6	..	2·8	31	16·1	28·6	..	9·4	17	4	..	..	..	..	0	5	0	0	2	5	0	0	0	0	0
Rajasthan (West)																															
Ganganagar	21·1	−2·7	25·1	11	7·3	−0·1	2·8	3	18·6	18·6	+7·0	18 6	6	1	−2·3	4·1	2·3	0	0	1	0	0	0	7	0	0	0	0	0
Anupgarh (R)																															
Mahajan	23·0	..	27·2	13	4·2	..	0	31	0	2·0	..	2·0	17	0	..	8·2	5·0	..	0	1	0	0	0	0	0	0	0	0	0
Churu	23·5	..	28·0	2	6·3	..	−0·4	31	3·0	3·9	..	3·9	6	1	..	7·3	5·4	..	0	1	0	0	1	5	0	0	0	0	0
Bikaner	23·7	−1·0	27.9	13	5·5	−0·1	0·2	31	0	1·8	−3·3	1·8	17	0	−0·5	5·0	3·3	−0·7	0	1	0	0	0	4	0	0	0	0	0
Nagaur	22.6	..	27.3	5	9·1	..	4·3	30	36·2	37·4	..	36·2	5	1	..	6·1	6.0	..	0	2	0	1	0	3	0	0	0	0	0
Phalodi	24·2	..	28·0	13	7·2	..	3·3	31	0	0	−2·5	0	..	0	−0·2	9·9	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	23 6	..	27.0	12.13	7·4	..	2·1	22,30	0	0	..	0	..	0	..	9·8	8.0	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	26·4	+0·3	29·8	2	11·3	+1 0	6·7	19	0	0	−2·8	0	..	0	−0·3	6·7	6·6	−3·2	0	0	0	0	0	1	0	0	0	0	0
Barmer	26·3	−0·4	29.6	27	11·0	−0·9	8·5	3	0	0	−2·5	0	..	0	−0·3	5·9	6·3	−0·3	0	0	0	0	0	0	0	0	0	0	0
Munabao	26·8	..	29.7	26	..	..	..	..	0	0	..	0	..	0	..	(a) 8·0	(a) 6·5	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																															
Pilani	23·6	..	26·7	27	4·7	..	−0·1	31	0	0	..	0	..	0	..	7·5	6.9	..	0	0	0	0	0	3	0	0	0	0	0
Sikar	23·3	..	27·5	56	6·7	..	−1·1	31	0	11.2	..	10·2	6	1	..	5.4	4.2	..	0	2	0	0	0	0	0	0	0	0	0
Alwar	23·2	..	27·4	3	8·8	..	4·2	30	33·8	42·4	..	36·4	6	2	..	2·4	0·8	..	1	2	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	24·1	−0·3	27·2	1	9·9	+1·2	1·4	31	1·6	3·7	−3·9	2·9	6	1	+0·3	..	..	..	0	2	0	0	1	0	0		0	0	0
Dholpur	24·4	..	29·4	18	7·5	..	2·2	30	2·8	4·7	..	3·9	6	1	..	4·6	2·8	..	0	2	0	0	0	0	0	0	0	0	0
Ajmer	25·1	+1·0	28·2	4	8·8	+0·7	3·1	31	0	2·8	−3·8	1·8	27	0	−0·4	6·4	4·7	+2·8	0	2	0	0	1	1	0	0	0	0	0
Tonk	21·7	..	24·9	18	9·7	..	2·1	31	0	26·0	..	21·0	5	2	..	6·0	5.1	..	0	2	0	0	0	2	0	0	0	0	0
Bhilwara	25·1	..	28·2	2	9·5	..	4 0	30	0	3·7	..	3·7	5	1	..	3·9	3.	..	0	1	0	0	0	1	0	0	0	0	0

(R) Register not received. (a) Mean of 30 days. (g) Mean of 24 days. *Data not reliable.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)— *contd.*																													
Kota (Aerodrome)	26·0	..	29·5	28	12·1	..	9·2	29	1·6	3·4	..	3·4	5	1	..	7·4	5·5	..	0	1	0	0	0	0	0	0	0	0	0
Kota	26·6	+0·1	30·0	18	13·2	+2·0	10·2	30	1·8	1·8	−3·5	1·8	5	0	−0·5	3·1	2·2	+0.6	0	1	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam)	27·5	..	31·1	2, 5	10·2	..	5·0	30	0	0	..	0	..	0	..	3·4	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	27·0	..	32·0	3	11·6	..	7·3	31	0	3·0	..	3·0	5	1	..	5·4	3·2	..	0	1	0	0	0	0	0	0	0	0	0
Udaipur	26·8	+1·1	31·0	3	9·7	+0·5	4·2	31	0	2·2	−0·6	2·2	6	0	−0·3	2·6	1·3	..	0	1	0	0	1	0	0	0	0	0	0
Jhalawar	26·6	+0·9	31·6	3	11·3	+2·0	7·7	11	0	2·0	−2·8	1·2	4	0	−0·3	4·5	2·4	0	0	2	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	24·7	+0.1	28.7	18	7·8	+0·7	1·3	31	2·0	2·5	−3·6	2·5	6	1	+0·3	7·2	3·6	..	0	1	0	0	0	1	0	0	0	0	0
Sheopur	26·8	+0·7	31·2	2,4	8·7	+0·4	2·2	31	0	1·4	−2·0	1·4	5	0	−0·5	6·6	5·5	+1.5	0	1	0	0	1	0	0	0	0	0	0
Shivpuri	24·7	..	28·4	4	7.5	..	0·8	31	0	0	..	0	..	0	..	2·4	3·0	..	0	0	0	0	0	2	0	0	0	0	0
Nowgong	25·6	+2.0	30·5	4	7·9	−0·1	1·6	31	6·0	9·8	−0·4	8·8	5	1	+0·3	4·3	2.3	+0.9	0	2	0	0	0	1	0	0	0	0	0
Guna	26·3	+0·8	32·5	3	9·9	+2.4	5·6	10	0·5	0·5	−10.2	0·5	6	0	−1·2	8·1	5·9	..	0	1	0	0	0	0	0	0	0	0	0
Nimach	25·7	−0·1	30·3	3	11·9	+2·2	8·4	31	0	25·4	+20·8	25·4	5	1	+0·5	6·5	5·5	−0.1	0	1	0	0	2	1	0	0	0	0	0
Rajgarh	27·1	..	32·4	3	10·4	..	6·1	10	0	6.4	..	6·4	24	1	..	5 5	5 2	..	0	1	0	0	0	0	0	0	0	0	0
Sagar	24·5	−0.9	30·7	4	14·5	+2·3	9·7	10	7·0	15·8	+2 9	10·4	5	2	+1 2	6·2	5·5	..	0	2	0	0	0	1	0	0	0	0	0
Ratlam	27·2	−0·7	33·0	3	12·3	+0·4	8·1	11	0	5·4	+4 9	5·4	5	1	+0·9	9 7	7·7	+1.2	0	1	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	25 4	−0·3	30·5	3	11.7	+1·9	6·7	11	7·4	14·7	+9·6	11·2	5	2	+1.5	8·1	6 7	+0.9	0	3	0	0	1	0	0	0	0	0	0
Ujjain	27·0	..	31·8	3	10·6	..	5·6	11	..	2·0	..	1·4	6	0	..	..	5·8	..	0	2	0	0	2	4	0	0	0	0	0
Narsinghpur	26·5	..	32 0	3,4	10·1	..	5·2	11,12	20·0	35·0	..	30·0	5	2	..	3·7	2·2	..	0	2	0	0	0	0	0	0	0	0	0
Hoshangabad	26·0	−0·7	31·1	4	12·5	+0·3	8·7	12	20·4	43·6	+31·7	23·2	4	2	+1 3	(a) 5·2	3·9	+0·8	0	2	0	0	1	0	0	0	0	0	0
Indore	25·6	−0·9	30·3	4	11·6	+1·8	6·9	10	0	46.7	+39·8	46·7	4	1	+0·4	9·2	6·7	..	0	1	0	0	1	1	0	0	0	0	0
Rajpur (Jhabua)	28·0	..	32·4	3, 4	12·5	..	8·2	12	0	6·3	..	5·2	7	1	..	6·0	3·0	..	1	2	0	0	0	0	0	0	0	0	0
Chhindwara	24·6	−1.7	29·3	1	11·0	+1 2	7·0	11	81.4	101·9	+98·1	90.2	5	4	+3·5	5.2	3·1	−0.2	0	4	0	0	0	0	0	0	0	0	0
Seoni	24·2	−1·2	28·4	1	11·9	+1·6	8·4	10	81·6	134·5	+121·3	103·4	5	4	+3·1	6·5	4·5	+1·3	1	4	0	0	0	0	0	0	0	0	0
Betul	24·9	−1.9	29·6	2	12·3	+2·1	7·6	12	40.0	43·8	+39·4	40·4	5	1	+0·5	5·4	3·7	−0·2	0	3	0	0	1	0	0	0	0	0	0
Khandwa	28·1	−0·8	..	..	12·8	+2·0	8·8	11,12	70·0	88.0	+79·9	71·6	4	2	+1·5	6·4	4·6	+1·1	0	2	0	0	0	4	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	25·5	+1·2	29.8	3,4	10·3	+1·7	5·2	31	5·2	30·8	+19·9	17·6	5	3	+2·1	4·3	3·0	+0 3	0	3	0	0	0	0	0	0	0	0	0
Sidhi	25·2	..	29·9	4	9·2	..	3·0	31	10·1	11·4	..	11·4	6	1	..	4·9	2·4	..	0	1	0	0	0	0	0	0	0	0	0
Umaria	24.8	−0·1	30 4	4	10·0	+2·3	5·5	31	8·6	44·0	+35·1	30·2	5	3	+2·1	4·1	2·7	−0.2	0	3	0	0	0	3	0	0	0	0	0
Jabalpur	25·8	+0·7	32·4	4	11 4	+3·3	7 6	11	14·7	43·6	+34·2	37·6	5	2	+1·3	3·8	2·0	+0·2	0	2	0	0	0	0	0	0	0	0	0
Ambikapur	23·8	−0·4	29·0	3,4	10·1	+2·1	6·2	30	9·2	22·2	+19·9	10·4	6	2	+1·8	9·0	5·7	+0.3	0	4	0	0	0	0	0	0	0	0	0
Pendra	23·3	+0 1	29·0	4	12·2	+2·4	8·5	31	19·6	73·0	+65·6	34·0	5	4	+3·5	7·0	4·8	..	0	4	0	0	0	0	0	0	0	0	0
Mandla	25·1	−1·5	30·0	4	9 7	+1·9	5·4	28	103·8	183.0	+177·1	166·4	5	3	+2·5	3·4	2·0	+0.7	0	4	0	0	0	15	0	0	0	0	0
Champa	27.0	−0·5	32·0	3	13·7	+0·2	9·4	31	2·4	24.6	+20·5	19·6	5	1	+0·6	5·6	4.9	+0·6	0	4	0	0	1	0	0	0	0	0	0
Raigarh	28·5	+0·1	33·0	4	14·3	+0·9	10·3	13	0	0	−1·3	0	..	0	−0·3	2·2	1·4	−1·8	0	0	0	0	0	0	0	0	0	0	0
Raipur	26·8	+0·1	31·2	4	14·5	+2·0	11·7	11,12	7.7	17·3	+12·2	9·3	5	3	+2·7	5.6	4·1	−0·2	0	4	0	0	0	1	0	0	0	0	0
Kanker	26·9	+0·2	31·1	1	12.9	+2·5	8·0	29	0	1·5	−2·1	1·2	6	0	−0·4	4·2	2·7	0	2	1	0	0	0	0	0	0	0	0	0
Jagdalpur	26·7	0	31·1	2	12·9	+2·0	8·5	29	52·5	68·7	+64·6	41·6	3	3	+2·6	4·6	2·6	..	0	3	0	0	1	8	0	0	0	0	0
Gujarat Region																													
Deesa	29.2	..	32 1	1	11·8	..	7·7	12	0	0	..	0	..	0	..	8·5	7·5	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	29·1	..	32·5	1	11·2	..	7·9	12	0	0	..	0	..	0	..	7·5	6·5	..	0	0	0	0	0	0	0	0	0	0	0
Idar	29·1	..	32·3	2	16·6	..	10·7	13	0	0	..	0	..	0	..	7·0	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	30·2	+0·9	32·1	2	13·4	+1·3	9·6	12	0	0	−1·0	0	..	0	−0·1	7·7	4·7	+1·5	0	0	0	0	0	0	0	0	0	0	0
Dohad	28·5	−0.6	34·5	18	13·0	+0·7	9·2	12	0	4·0	+2·7	3.0	5	1	+0.8	7·8	6.6	−0·7	0	2	0	0	1	0	0	0	0	0	0
Baroda Aerodrome	30·6	..	33·0	4	14·0	..	11·0	11	0	6.4	..	6.4	4	1	..	8·2	4·9	..	0	1	0	0	2	0	0	0	0	0	0
Baroda	31·6	+0·5	34·3	4	14·8	+3·5	11·4	11	0	4·5	+4.4	4·5	5	1	+0·9	1·2	0·7	−2·4	0	1	0	0	1	0	0	0	0	0	0
Broach	32·6	−0.4	36·9	12	14·8	+0.8	11·3	12	0	2·0	+1.9	2·0	5	0	0	5·6	3·9	−1.1	0	1	0	0	0	0	0	0	0	0	0
Surat	33·1	+2·0	36·6	1	17·4	+2·2	14·6	12	0	0	−2·0	0	..	0	−0·1	7·5	7·2	+2·9	0	0	0	0	0	0	0	0	0	0	0
Saurashtra & Kutch																													
Bhutakia Bhimasar (R)									0	0	..	0	..	0	..	11·8	6·4	..	0	0	0	0	0	2	0	0	0	0	0
Naliya	27·9	..	31·4	26	8.6	..	2·4	4	0	3.8	+2.0	3.8	15	1	+0·9	10·4	6·5	−0.4	0	1	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	27·3	−0.4	30·1	26	10·3	−1.2	5·4	3	0	0	..	0	..	0	..	..	(b) 17.3	..	0	0	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	27.8	..	30·4	27	14·0	..	9·9	31	0	0	..	0	.	0	..	12.8	13·2	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	26.2	..	28·9	26, 27	15·3	..	12.8	3,	0	0	−2.9	0	..	0	−0·1	12·6	11·4	−2.9	0	0	0	0	0	0	0	0	0	0	0
Mandvi	26.6	−0 3	29·6	2	..	..	..	..	0	0	−0.2	0	..	0	0	7·9	7·9	+0·3	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	29·8	−0·1	32·0	27, 28	14·9	+0·7	11·4	31	0	0	..	0	..	..	..	15·7	18·5	..	0	0	0	0	0	0	0	0	0	1	0
Okha*	24·9	..	..	..	20·0	..	..	..	0	0	−2·0	0	..	0	−0·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Jamnagar Aerodrome	26·8	−1·3	30·0	27	12·7	+1·9	8·4	5	0	0																			

(R) Register not received, *Observatory started from 12-12-1962, hence observations for 19 days. (a) Mean of 30 days. (b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—*contd.*																													
Dwarka	27·2	−0·1	30·3	26	..	..	..	..	0	0	−2·3	0	..	0	−0·2	17·3	13·3	+1·2	0	0	0	6	0	0	0	0	0	0	0
Rajkot	29·5	−0·3	32·0	1	12·9	+0·2	9·9	31	0	0	0	0	..	0	0	15·1	12·2	+0·9	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar Aerodrome	29·5	+1·2	31·7	3	15·5	+1·2	12·8	13,31	0·8	3·0	+1·5	3·0	5	1	+0·9	15·1	12·8	+2·8	0	1	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	30·1	−0·3	33·0	1	15·4	−1·4	10·7	31	0	0	−0·8	0	..	0	−0·1	14·8	12·6	..	0	0	0	0	0	0	0	0	0	0	0
Keshod	30·7	..	33·4	1, 3	13·9	..	9·9	31	0	0	..	0		0	..	13·9	13·4	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	30·7	..	35·2	2	17·8	..	13·1	13	0	0	..	0	..	0	..	5·8	7·5	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	30·8	..	35·0	2	16·4	..	14·0	13	9·0	9·0	+7·2	9·0	5	1	−0·8	16·7	11·1	..	0	1	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	29·9	+0·5	33·1	26	19·0	+1·5	16·5	15	0	0	0	0	..	0	0	13·6	10·0	−1·0	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz)	31·0	−0·1	34·4	1, 2	18·9	+3·2	15·0	31	5·1	31·7	+29·9	25·9	5	3	+2·9	10·2	7·5	..	0	3	0	0	1	0	0	0	0	0	0
Bombay	31·4	+1·1	35·7	1	21·8	+1·4	19·7	31	2·3	51·1	+49·1	47·8	5	2	+1·8	6·2	5·4	−5·1	0	2	0	0	0	0	0	0	0	0	0
Alibag	29·5	−0·1	32·4	2	19·9	+1·5	16·9	19	..	52·4	+48·6	49·5	5	1	+0·6	..	7·8	+0·6	0	3	0	0	1	0	0	0	0	0	0
Bhira	32·6	..	36·4	1	18·4	..	13·1	30	3·8	49·7	..	23·3	4	3	..	4·4	3·2	..	0	4	0	0	0	0	0	0	0	0	0
Harnai	29·9	+0·4	33·4	3, 27	22·5	−0·3	20·9	14	0	146·2	+144·9	88·8	5	4	+3·9	11·7	11·1	−0·4	0	4	0	0	3	0	0	0	0	0	0
Ratnagiri	30·8	..	34·3	1	22·1	..	18·6	13	35·0	143·6	+139·8	74·6	4	4	+3·7	11·9	7·8		0	6	0	0	2	0	0	0	0	0	0
Devgarh	30·3	−0·9	33·4	1, 29	21·6	+0·3	19·1	31	39·2	201·6	+197·3	138·8	5	4	+3·6	13·0	11·2	+0·2	0	4	0	0	2	0	0	0	0	0	0
Vengurla	31·1	−1·4	34·4	1	19·4	+0·9	15·6	19	85·5	258·8	+258·5	74·2	6	4	+3·9	8·5	5·7	..	0	4	0	0	4	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	29·3	..	33·6	4	16·1	..	12·0	12	0	31·6	..	22·0	4	2	..	8·2	5·3	..	0	2	0	0	0	0	0	0	0	0	0
Jalgaon	28·3	−2·0	32·7	2	13·2	+1·1	9·0	30	13·2	85·6	+80·0	71·2	4	2	+1·5	10·0	9·5	+2·8	1	2	0	0	0	0	0	0	0	0	0
Malegaon	28·6	−0·3	33·4	2	13·6	+2·3	10.3	19	1·4	91·2	+85·9	43·0	4	3	+2·6	7·1	5·0	+0·3	0	4	0	0	1	2	0	0	0	0	0
Deolali (Aerodrome)	28·5	..	32.2	2	13·3	..	9.0	13	3·1	18·3	..	15·8	5	2	.	9·0	5·4	..	0	2	0	0	3	0	0	0	0	0	0
Ahmadnagar	27·4	−1·0	31·2	1, 2	12·8	+1·2	8·7	12	10·8	129·4	+122.8	70·2	3	5	+4·5	8·2	5·2	−0·3	0	6	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	24·4	+21·3	15·4	5	3	+3·0	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	27·8	..	31·4	1	15·1	..	10·6	28	21·6	62·7	..	29·2	3	3	..	..	..	..	0	3	0	0	2	3	0	0	0	0	0
Poona	28·6	−0.8	31·5	1, 3	14·2	+2·5	10·0	31	10·9	26·8	+23·0	14·2	5	2	+1·5	4·4	2·1	−3·5	0	4	0	0	2	2	0	0	0	0	0
Jeur	28·3	−1·8	31·6	2	14.0	+1·1	8·2	29	11·9	21·1	+16·1	11·4	5	3	+2·8	8·5	5·2	+0·3	0	3	0	0	0	0	0	0	0	0	0
Baramati	28.5	−1·1	31·1	1	14·4	+0·8	9·9	13	8·4	12·8	+8.5	8·4	6	2	+1·6	7·7	6·7	+0·4	0	2	0	0	0	0	0	0	0	0	0
Sholapur	28·0	−1·7	32·2	1	15·8	+1·1	11·1	12,13	3·2	34·4	+24·0	20·6	7	3	+2·3	9·1	8·5	−0·7	0	6	0	0	0	0	0	0	0	0	0
Miraj	28·1	−0.8	30·0	8, 9	15·3	+1·4	9·1	13	36·4	44·2	+37·1	17·8	4	3	+2·4	..	..	.	0	4	0	0	0	2	0	0	0	0	0
Kolhapur	27·9	−1·7	30·8	1	15·4	+0·8	11·3	13	81·0	109·2	+106·4	51·7	6	3	+2·8	11·1	7·8	−1·4	0	6	0	0	1	4	0	0	0	0	0
Marathawada																													
Aurangabad	26·8	−1·8	31·2	1	14·6	+1·4	10·8	29	25·6	66·2	+59·3	21·8	6	4	+3·5	4·9	3·9	−3·0	0	5	0	0	1	0	0	0	0	0	0
Aurangabad (Chikalthana)	26·2	..	30·6	1	10·8	..	5·3	29	51·4	98·2	..	38·4	2	4	..	8·5	5·2	..	0	5	0	0	2	0	0	0	0	0	0
Parbhani	27·2	−2·2	30·6	1	13.9	+1.2	10·0	29	26·2	50·0	+45·2	27·8	5	2	+1·7	8·1	5·1	+0·4	0	5	0	0	1	0	0	0	0	0	0
Nander	27·6	..	30·0	2	13.9	..	8·5	29	30·8	98·6	..	32·8	5	4	..	3·7	2·6	..	0	5	0	0	0	0	0	0	0	0	0
Bir	27·3	..	30·4	1, 2	13·7	..	9·0	29	13·6	75·2	..	35·0	3	6	..	5·6	3·1	..	0	7	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	26·4	−1·2	30·3	1	14·6	+1·8	11·4	28,29	84·4	134·3	+132·1	101·4	6	3	+2·7	3·3	1·8	−0·4	0	4	0	0	1	0	0	0	0	0	0
Nagpur (Sonegaon)	26·5	−1·9	30·4	1	13·1	+1·4	9·5	13	52·3	111·2	+99·3	61·0	5	3	+2·2	8·3	6·5	.	0	5	0	0	3	0	0	0	0	0	0
Amravati	26·7	−1·7	31·7	1	14·8	+0·1	11.5	14	50·6	91·0	+79·8	34·8	5	5	+4·2	8·3	7·9	+2·6	0	6	0	0	0	0	0	0	0	0	0
Akola Aerodrome	27·1	..	31·7	1	12·8	..	9·9	27	42·7	129·9	..	48·1	2	5	..	8·7	8·2	..	0	5	0	0	1	0	0	0	0	0	0
Akola	27·1	−2.2	31·6	1	14.2	+2·4	10·5	29	40·8	109·6	+95·9	40·3	2	5	+4·1	5·2	1·3	+0·4	0	5	0	0	0	0	0	0	0	0	0
Bramhapuri	27·0	..	31.2	4	14·5	..	10·0	29	3·6	38·8	..	18·6	6	2	..	6·0	2·6	..	0	5	0	0	1	0	0	0	0	0	0
Buldhana	26.8	−0·6	29.0	4	..	..	..	..	8·0	17·1	+11·2	11·1	5	2	+1·5	6·0	5·5	−0·9	0	3	0	0	0	0	0	0	0	0	0
Yeotmal	25·4	−3·0	28·9	1	14·9	−0·2	11·2	11	34·7	55·9	+52·6	29·9	5	4	+3·7	9·3	7·9	+0·4	0	5	0	0	2	0	0	0	0	0	0
Chanda	27.0	−1·1	30·3	4	14·4	+2·8	9·5	29	4·0	46·8	+39·9	33·8	6	3	+2·3	6·0	3·7	+1·6	1	4	0	0	1	0	0	0	0	0	0
Pusad	27·2	..	30·4	1	13·1	..	9·0	29	35·7	76·8	..	27·3	4	4	..	6·6	4·3	..	0	6	0	0	0	0	0	0	0	0	0
Sironcha	28·2	−1·6	31·8	1	16·0	+1·4	10·8	29	0	85·1	+84·8	80·1	6	3	+2·9	5·0	3·2	+0·6	0	3	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	27·9	+1·1	30·2	8	17.7	+0.4	13·8	29	0	0	−13·7	0	..	0	−0·4	12·3	9·0	+0·1	0	0	0	0	0	0	0	0	0	0	0
Vishakhapatnam	28·6	−0·5	30·0	3,6	18·5	+0·1	13·6	29	0·3	6·1	−8·4	5·8	1	1	+0·1	15·3	7·8	+2·3	0	2	0	0	0	0	0	0	0	0	0
Kakinada	27.7	+0.8	29·5	7,9	19.2	+0.1	16·5	30	5.2	35·8	+18·0	16·2	10	3	+2·2	14·6	11.4	+1·1	0	3	0	0	0	0	0	0	0	0	0
Nidadavole	29.4	..	31·9	4	18·6	..	14·5	30	0	1·0	..	1·0	2	0	..	8·6	6.8	..	0	1	0	0	0	0	0	0	0	0	0
Rentachintala	29·4	−0·5	31·6	8	17·3	+0.7	13.7	30	13.0	65·4	+62·3	30·4	1	4	+3·6	3·8	2·5	−2·6	0	4	0	0	0	0	0	0	0	0	0
Gannavaram	29·4	−0·4	31·4	4	19·4	+0·3	16·0	30	0	1·0	−4·1	1·0	1	0	−0·8	12·6	10·0	+0·6	0	1	0	0	1	0	0	0	0	0	0

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*contd.*																													
Nagarjunakonda	29·1	..	31·1	8	18·3	..	14·3	13	0	35·4	..	10·4	4	5	..	9·0	6·6	..	0	5	0	0	2	0	0	0	0	0	0
Masulipatam	28·3	+0·2	29·7	10	19·4	+0·2	16·9	30	0	37·6	+21·1	22·1	1	3	+2·1	5·7	4·3	−2·5	0	3	0	0	1	0	0	0	0	0	0
Ongole	27·2	..	30·3	10	20·1	..	16·7	30	7·6	80·7	..	26·6	2	4	..	7·6	5·0	..	0	4	0	0	1	0	0	0	0	0	0
Nellore	28·9	+0·2	31·0	9	21·2	+1·0	18·0	31	8·2	20·7	−51·9	7·6	2	3	0	5·0	3·3	−1·5	0	4	0	0	0	0	0	0	0	0	0
Telengana—																													
Ramgundam	28·9	−1·1	33·8	2	16·9	+2·2	12·6	30	2·0	109·4	+109·0	58·0	6	5	+4·8	6·7	4·0	+0·6	0	5	0	0	0	0	0	0	0	0	0
Nizamabad (R)																													
Hanamkonda	27·9	−0·5	32·0	3	16·3	+0·6	12·4	121,3 29	0·4	23·6	+17·8	16·8	5	2	+1·6	7·6	5·1	+0·9	0	4	0	0	1	0	0	0	0	0	0
Hakimpet (Aerodrome)	..	..	..	..	15·9	..	12·7	12	0	100·4	..	51·3	5	4	..	..	..	..	0	6	0	0	1	0	0	0	0	0	0
Bhadrachalam	28·8	−0·9	32·0	8	16·3	+0·6	11·2	30	12·0	15·0	+1·9	12·0	9	1	+0·4	6·2	4·0	+0·2	0	2	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet)	25·8	−1·9	28·1	4	14·2	+0·9	9·5	29	0	94·5	+86·9	35·7	9	4	+3·6	10·6	7·3	+0·5	0	6	0	0	0	0	0	0	0	0	0
Khammam	29·0	..	32·4	4	17·5	..	13·4	30	14·8	20·2	..	14·8	9	2	..	4·1	2·5	..	0	3	0	0	0	0	0	0	0	0	0
Mahbubnagar	26·9	..	29·6	4,18	16·7	..	13·0	29	3·4	113·9	..	44·5	9	6	..	7·6	8·0	..	0	7	0	0	1	5	0	0	0	0	0
Rayalaseema																													
Kurnool	28·2	−2·0	29·9	5 days	17·4	+1·4	11·1	29	7·6	35·0	+79·9	38·6	5	3	+2·7	7·0	5·1	+1·2	0	5	0	0	0	0	0	0	0	0	0
Nandyal*																													
Anantapur	28·3	−0·6	29·9	8	18·7	+1·6	14·6	29,30	0	84·5	+77·2	31·0	4,5	5	+4·4	10·3	9·1	+0·3	0	5	0	0	2	0	0	0	0	0	0
Cuddapah	29·1	−0·9	30·7	10	19·5	+0·8	16·0	31	21·0	91·4	+70·8	49·2	4	3	+1·5	7·0	5·1	−2·1	0	5	0	0	0	0	0	0	0	0	0
Aroyavaram	26·1	..	27·8	1	16·2	..	12·5	30	22·4	87·6	..	37·8	3	4	..	7·8	5·3	..	0	5	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	29·2	..	30·5	1	21·9	..	18·9	30	..	62·6	..	22·3	27	5	..	..	7·5	..	1	5	0	0	1	0	0	0	0	0	0
Madras (Minambakkam)	28·7	−0·2	30·5	3,4	21·4	+0·9	18·8	30	16·1	50·8	−87·6	18·1	2	4	−1·4	16·3	10·6	−3·1	0	4	0	0	2	0	0	0	0	0	0
Vellore	28·8	+0·8	31·0	1	19·6	+1·4	16·3	31	29·1	102·7	+36·2	45·9	1	5	+1·1	9·7	7·2	+3·5	0	6	0	0	3	0	0	0	0	0	0
Tambaram (Aerodrome)	29·3	..	30·8	1	21·3	..	17·9	30	27·7	58·1	..	15·2	3	5	..	..	..	..	0	5	0	0	1	0	0	0	0	0	0
Tiruppattur	23·6	..	30·9	1	18·0	..	14·3	31	35·6	37·2	..	31·0	3	2	..	3·6	2·7	..	0	2	0	0	0	0	0	0	0	0	0
Mettur Dam RS	30·7	..	31·8	31	21·6	..	18·8	14,17, 31	5·6	25·6	..	17·5	4	3	..	6·9	6·1	..	0	4	0	0	0	0	0	0	0	0	0
Cuddalore	28·7	+0·6	29·9	5	20·4	−0·8	17·4	31	23·3	65·3	−125·0	21·3	27	4	−2·3	12·3	10·5	+2·8	0	5	0	0	0	0	0	0	0	0	0
Kallakkurichchi	29·0	..	30·3	25	21·4	..	19·1	31	24·2	56·0	−21·0	42·8	2	2	−4·1	11·4	8·4	..	0	3	0	0	2	0	0	0	0	0	0
Salem	30·5	+0·4	32·5	27	20·7	+1·9	18·6	30	23·2	50·8	+24·6	18·0	2	4	+1·8	9·5	10·2	+4·9	0	6	0	0	2	0	0	0	0	2	0
Coimbatore (Pilamedu)	28·5	..	30·4	1	19·4	..	15·2	17	17·2	68·1	..	40·0	4	4	..	11·7	8·6	..	0	6	0	0	3	0	0	0	0	0	0
Coimbatore	28·8	−0·3	30·5	30	20·0	+1·1	16·9	17	7·8	69·3	+34·8	27·8	4	5	+2·4	8·2	5·3	+1·3	0	7	0	0	0	0	0	0	0	0	0
Nagapattinam	28·7	+0·9	29·8	8	23·6	+1·2	20·8	30	3·8	67·8	−210·3	36·5	2	3	−6·1	19·3	19·6	+6·2	0	7	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	30·6	+1·1	31·8	23	22·0	+1·2	18·3	31	17·5	21·7	−49·4	14·2	3	3	−1·5	14·5	11·9	+3·2	1	4	0	0	2	0	0	0	0	0	0
Vedaranniyam	29·5	..	31·4	3	23·8	..	21·1	30	7·6	75·5	..	52·0	2	4	..	12·6	10·5	..	0	8	0	0	1	0	0	0	0	0	0
Mirampattinam†	30·0	..	32·0	1,4	22·5	..	19·5	31	12·4	16·2	..	..	..	..	..	12·4	8·9	..	..	..	0	0	0	0	0	0	0	0	0
Madurai	30·1	+0·8	32·1	25	22·3	+1·1	19·5	31	9·6	30·2	−20·9	13·2	3	2	−1·6	9·6	6·7	−0·1	0	5	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	29·9	..	31·5	1	21·7	..	18·6	31	7·8	33·3	..	12·4	3	3	..	16·1	11·6	..	0	3	0	0	2	0	0	0	0	0	0
Tondi	28·0	..	31·4	11	22·9	..	20·4	31	21·0	55·8	..	23·4	1	5	..	17·2	13·3	..	1	5	0	0	0	0	0	0	0	0	0
Pamban	28·9	+0·8	31·3	3	23·8	0	21·7	19	15·0	111·8	−81·0	33·4	18	6	−3·4	22·3	14·7	−3·6	1	6	0	0	1	0	0	0	0	0	0
Tuticorin	28·0	+0·2	30·1	25	22·9	+0·3	20·4	18	7·0	28·9	−72·0	19·3	2	3	−1·0	21·7	20·0	0	0	3	0	0	0	0	0	0	0	0	0
Palayankotai	30·9	−0·7	32·7	10	23·2	+0·6	21·9	18	22·8	38·2	−65·2	14·4	4	6	+0·8	8·7	6·2	−2·6	0	7	0	0	2	0	0	0	0	0	0
Kanniyakumari	30·8	..	32·3	25	24·0	..	21·4	18	0	26·0	..	26·0	2	1	..	21·8	18·7	..	0	1	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31·0	−1·1	34·2	3	20·5	+1·1	16·1	31	157·4	174·2	+168·4	49·2	5	4	+3·6	10·1	6·6	..	0	4	0	0	1	0	0	0	0	0	0
Honavar	31·5	−1·2	34·6	26	21·1	+0·2	17·5	30	40·9	50·8	+45·7	20·8	4	4	+3·6	8·9	8·7	+4·0	0	5	0	0	4	0	0	0	0	0	0
Mangalore (Bajpe)	31·7	..	33·4	28	21·3	..	17·9	14	11·6	34·7	..	9·7	3	4	..	10·2	7·3	..	1	6	0	0	3	0	0	0	0	0	0
Mangalore	32·0	+0·3	33·6	11	23·7	+1·9	20·2	14	1·4	24·1	+11·2	14·3	3	3	+2·3	11·1	8·8	+1·6	0	5	0	0	3	0	0	0	0	0	0
Interior Mysore North																													
Bidar	25·5	−1·8	27·4	2,6,7	15·8	−0·6	11·2	6	2·0	27·7	+21·6	25·4	6	1	+0·5	18·5	14·9	+6·0	1	2	0	0	0	0	0	0	0	0	0
Gulbarga	27·4	−2·3	29·4	4	15·6	+0·8	10·6	12	50·8	121·4	+117·6	48·0	6	4	+3·7	11·6	9·1	+1·2	0	4	0	0	0	1	0	0	0	0	0
Bijapur	26·9	−2·1	28·9	3,8	16·3	+1·5	11·4	30	6·2	34·8	+28·5	12·0	4	6	+5·4	5·0	3·1	−0·6	0	6	0	0	0	0	0	0	0	0	0
Raichur	27·4	−1·9	29·9	8,9	19·2	+1·6	14·4	29	2·2	99·9	+96·6	33·2	5	5	+4·7	10·1	9·0	+0·5	0	5	0	0	0	0	0	0	0	0	0
Belgaum	27·7	−1·5	30·2	1	15·2	+1·3	10·6	30	31·6	47·2	+38·6	19·4	6	4	+3·5	7·0	4·9	−0·9	0	7	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	26·5	..	28·0	3	16·1	..	10·8	14	19·4	45·4	..	21·7	3	4	..	9·7	6·1	..	1	5	0	0	1	4	0	0	0	0	0
Gadag	27·4	−1·2	29·1	9	16·4	+0·1	12·3	13	66·0	105·0	+94·6	30·0	4	5	+4·4	8·4	6·1	−1·0	0	7	0	0	2	2	0	0	0	0	0
Interior Mysore (South)																													
Bellary	27·9	−1·9	29·4	2,25	18·0	+1·4	14·3	30	48·0	167·0	+163·7	65·0	4	5	+4·7	7·3	4·3	+0·4	0	5	0	0	0	0	0	0	0	0	0
Chitradurga	26·5	−1·5	27·8	15	17·0	+0·4	13·1	30	8·2	55·1	+41·9	19·6	4	6	+5·2	8·3	5·9	−1·5	0	6	0	0	1	0	0	0	0	0	0
Shimoga	28·2	−0·8	30·4	9	16·3	+2·1	11·4	31	38·0	54·0	+47·4	24·8	3	5	+4·5	5·7	2·9	−1·6	0	5	0	0	0	1	0	0	0	0	0
Agumbe	26·9	..	28·8	25	14·3	..	9·7	13	..	190·2	..	91·0	6	4	..	..	3·5	..	1	4	0	0	0	0	0	0	0	0	0
Balehonnur	26·5	+0·4	29·8	28	14·9	+0·1	10·6	13	..	58·1	+46·2	18·4	3	4	+3·2	..	..	..	0	7	0	0	0	0	0	0	0	0	0
Hassan	26·2	−0·8	28·7	1	15·4	+1·2	11·7	30	8·7	58·2	+41·4	23·7	3	4	+2·9	4·3	2·3	−2·5	0	7	0	0	4	0	0	0	0	0	0

(R) Register not received. *Data not reliable. †Observations for 20 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from norma	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore South—(*Contd.*)																													
Bangalore	25·7	0	27·2	8	16·2	+1·6	13·3	31	74.1	92·2	+81·0	58·6	3	7	+5·8	9·4	8·0	+0.3	0	7	0	0	1	3	0	0	0	0	0
Bangalore Aerodrome	26·5	..	28·7	28	15·5	..	12·5	31	19.2	33·6	..	17·0	3	3	..	..	..	..	0	6	0	0	1	6	0	0	0	0	0
Mysore	27·6	—0·1	29·3	1	17·6	+1·4	14·7	13	13·2	29·4	+9·2	13·8	3	3	+2·1	11·0	10·0	—0·1	0	4	0	0	4	0	0	0	0	0	0
Kerala																													
Calicut	31·2	+0·3	32·4	21	22·8	+1·0	20·2	18	0	120·4	+94·7	57·0	2	7	+5·4	7·9	6·8	+0·4	0	7	0	0	8	0	0	0	0	0	0
Palghat	32.1	..	33.4	1	22·3	..	20·4	17	0	189.2	..	56·0	5	5	..	10·8	7·7	..	0	6	0	0	2	0	0	0	0	0	0
Fort Cochin	30·5	+0·2	31·6	17	23·8	+0·4	21·4	17	0	34·5	—6·1	12·1	4	4	+1·5	10·5	7.4	+1·6	0	9	0	0	0	8	0	0	0	0	0
Cochin (Naval Air Station)	31·3	..	32·7	21	23·1	..	19.9	17	—	60·2	..	31·3	4	5	..	8·6	6·5	..	0	6	0	0	7	0	0	0	0	0	0
Alleppey	31·8	+0·4	34·2	17	23·5	+0·7	21·1	17	1·6	16·0	—32·1	9·4	29	2	—1.5	11·3	7·6	—0.4	0	5	0	0	0	2	0	0	0	0	0
Punalur	31·4	..	34·4	15	21·5	..	18·3	17	25·2	76·0	..	32·8	1	6	..	5·9	5·7	..	0	6	0	0	1	0	0	0	0	0	0
Trivandrum	31·0	+0·3	33·2	18	23·0	+0·6	21·0	14	8·5	80·0	+17·3	22·2	28	6	+2·3	6·4	4·7	+0·5	1	7	0	0	9	1	0	0	0	0	0
Trivandrum (Aerodrome).	30·4	..	31·9	17, 19	22·6	..	21·3	31	..	48·2	..	13·4	29	5	..	..	5·7	..	0	9	0	0	3	0	0	0	0	0	0
Arabian Sea Islands																													
Amini *																													
Minicoy*																													
Hill Stations (excluding Kashmir)																													
Dalhousie	14.5	—0·6	19·5	1	7·5	+2·4	—8·0	21	46·6	77·0	—14·7	27·0	27	6	+1·9	3·6	4·1	+1·2	0	6	7	1	0	0	0	0	0	0	0
Dharmsala	15·6	—1·3	20·6	1	7·6	—0·7	3·4	30	8·6	31·9	—21·9	14·2	27	4	+1·5	5·6	5·0	+1·2	0	6	0	0	0	0	0	0	0	0	0
Simla	11·3	+1·0	15·7	21	4·3	+0·2	0·5	27	6·6	15 2	—16·3	4 4	17	4	+1·6	4 0	2·7	+0·6	1	4	3	0	0	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	24·5	—20·7	8·0	6	4	+1·5	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Lokpal	—6·2	..	—3·3	1	—11·3	..	—12·4	28	..	143·4	..	75·6	6	5	..	..	..	..	0	10	6	0	0	5	0	27	0	0	0
Badrinath	Closed during winter months																												
Joshimath	13·2	..	17·3	5	3.9	..	—0·4	28	15·0	39·4	..	29·0	6	3	..	5·2	7·1	..	0	3	0	0	0	0	0	0	0	0	0
Mussoorie	12·3	+0·3	16·1	20	4·0	—0·2	0·2	27	45·4	49.6	+14·5	35·0	6	2	—0·6	9·6	8·5	+1·3	0	4	1	0	0	0	1	0	0	0	0
Mukteswar (Kumaun)	13·0	+1·2	17·3	1	3·5	—0·1	—1·6	9	6·4	24·8	—1·9	17·4	6	2	+0·2	9·9	9·6	+1·2	0	3	1	0	0	2	0	30	0	0	0
Nainital	13·2	+0·1	18·4	20	2·9	—0·6	—0·6	31	14·0	39·5	+4·2	29·0	6	2	+0·9	6·7	6·0	—0·7	0	4	0	0	0	0	0	0	0	0	0
Kalimpong	14·3	—2·5	21·3	22,24	5·6	—3·4	3.4	11	0	0	—8·1	0	..	0	—0·7	2·9	2·3	—8·6	0	0	0	0	0	0	0	0	0	0	0
Darjeeling	11·9	+0·7	15·6	2	4·1	+0·5	1·6	31	1·0	4·0	—2·9	3·0	6	1	+0·3	2·5	1·7	+0·4	0	2	0	0	0	1	0	0	0	0	0
Kohima	15·9	..	17.8	7,8	8·5	..	6·0	29,31	0	0	..	0	..	0	..	5·0	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Shillong	16·7	+0·3	16·9	6,7,9	4·4	0	0 7	31	0	0	—7·1	0	..	0	—0·9	3·8	2·8	+0·9	0	0	0	0	0	0	0	0	0	0	0
Cherrapunji	17·9	+1·1	19·6	10	8·7	—0·2	5·3	31	0	0	—12·5	0	..	0	—0·7	3·5	2·8	—1·2	0	0	0	0	0	0	0	0	0	0	0
Abu	21·3	+1·1	24·5	5	8·1	—3·3	3·3	15	0	0	—3·1	0	..	0	—0·3	4·2	3·2	..	0	0	0	0	0	0	0	0	0	0	0
Aijal	21·7	..	26·1	1	12·5	..	8·9	30	0	0	..	0	..	0	..	11·5	12·8	..	0	0	0	0	0	0	0	0	0	0	0
Pachmarhi	21·7	—0·1	27·2	2,4	8·4	+0·7	4·0	10	35·8	71·6	+60·7	53·0	5	3	+2·2	4·0	2·3	—0·6	0	4	0	0	0	4	0	0	0	0	0
Mahabaleshwar	22·0	+0·6	24·8	2	13·2	—0·4	11.5	13	44·5	118·6	+112.0	40·7	5	4	+3·4	9·3	10·3	—1·1	0	5	0	0	1	6	0	0	0	0	0
Mercara	24·2	+0·4	26·4	30	14·9	+0·6	12·0	17	11·0	30·6	+12·3	15.6	7	3	+1·8	10·4	10·9	+3·5	0	3	0	0	1	0	0	0	0	0	0
Ootacamund	19·5	+1·2	22·3	16	7·1	+0·5	4·0	11	6·6	100·0	+56·3	78·2	2	3	—0·7	5·3	2·7	—2·0	0	3	0	0	0	0	0	4	0	0	0
Coonoor (R)																													
Kodaikanal	17·0	+0.5	20·1	22	8·7	+0·3	5·2	13	23·0	98·5	—32·6	28·9	2	7	—0·1	12·4	11·7	—1·5	0	9	0	0	1	14	0	5	0	0	0
Nepal																													
Katmandu	20·1	..	23·2	2	1·9	..	—0·3	29	0	4·0	..	4·0	6	1	..	1·0	0·6	..	0	1	0	0	0	16	0	7	0	0	0
Sikkim																													
Lachen	9·5	..	13·9	20,28	1·0	..	—0·3	3,27	..	16·2	..	14·2	9	1	..	..	..	..	0	2	3	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	23·5	..	28·5	5	11·3	..	6·7	31	2.6	4·7	..	3·0	9	1	..	9.8	6·0	..	1	3	0	0	0	0	0	0	0	0	0
Hazaribagh	22·5	..	26·9	5	9·5	..	4·0	31	2·2	11·5	..	8·4	8	1	..	8·9	4·9	..	1	3	0	0	0	1	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	13·8	23·5	..	13·6	9	3	..	..	..	..	1	3	0	0	0	0	0	0	0	0	0
Bokaro	25·2	..	27·6	1,16, 31	7·1	..	3·7	22,28	9·7	33·7	..	14·0	6	4	..	5·0	3·4	..	0	5	0	0	0	0	0	0	0	0	0
Maithon	22·7	..	28·9	2	11·9	..	8·8	28	0	2·4	..	2·4	9	0	..	..	..	..	0	1	0	0	0	6	0	0	0	0	0
Ramgarh	25·7	..	31·0	3	10·3	..	5·6	31	17·4	35·0	..	16·6	8	2	..	2.3	0.9	..	0	4	0	0	0	0	0	0	0	0	0
Panchet Hills	26·3	..	30·2	5	12·7	..	8·7	31	0.4	3.4	..	3.4	9	1	..	4.7	2·7	..	0	2	0	0	0	0	0	0	0	0	0
Durgapur	27·4	..	31·1	4	11·3	..	6·0	31	0	0	..	0	..	0	..	8·9	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	26·5	..	30·7	4	10·3	..	4·9	12	..	12.5	..	12.0	9	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Hirakund	27·3	..	31·1	4.5	15·4	..	11·6	29	33·8	33·8	..	33·8	9	1	..	4.5	3·0	..	0	1	0	0	0	1	0	0	0	0	0
Bhimkund	26·3	..	30·6	4	11·4	..	8·6	12	0	1·1	..	1·1	9	0	..	6.0	2·8	..	0	1	0	0	0	5	0	0	0	0	0
Sonepur	27·8	..	31·4	4,5	14·3	..	10·1	31	..	5·4	..	5·4	7	1	..	..	1·9	..	0	1	..	..	..	..	..	..	..	..	..
Khijrawan	26·9	..	31·1	1	12·7	..	7·5	29	0	0	..	0	..	0	..	5·5	4·0	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

*Data given as addenda.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories— *(Contd.)*																													
Narmada Catchment																													
Bagra Tawa	26·6	..	32·0	4	10·3	..	5·3	29	16·8	32·0	..	21·0	5	2	..	4·4	2·7	..	0	3	0	0	0	0	0	0	0	0	0
Punasa	27·9	..	32·7	4	12·6	..	8·2	12	8·4	53·5	..	44·0	4	2	..	4·3	3·0	..	0	2	0	0	0	0	0	0	0	0	0
Thikri	28·8	..	33·8	3	13·8	..	8·9	11	..	52·2	..	43·3	3	2	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi (R)																													
Gandak Catchment																													
Jomosom	13·3	..	17·7	17	(d) −3·8	..	−10·0	6	0	10·3	..	10·3	6	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	0	8·0	..	5·2	6	1	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Timure	16·4	..	20·7	19	4·0	..	1·2	30	0	9·6	..	8·6	6	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Pokhara	20·3	..	22·7	1	7·9	..	5·3	31	0·2	19·6	..	18·0	9	1	..	4·5	4·1	..	1	2	0	0	2	0	0	0	0	0	0
Gorkha*																													
Nuwakot	21·3	..	24·5	3	7·8	..	6·0	15	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	17·6	..	20·6	2	5·7	..	4·3	30	0	1·8	..	1·8	6	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	13·3	..	18·7	20	5·2	..	3·2	23,31	5·7	12·3	..	8·7	6	2	..	5·8	5·2	..	1	2	0	0	0·	1	0	10	0	0	0
Sallayana	18·7	...	23·2	1	6·7	..	4·1	31	0	1·2	..	1·2	6	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Butwal	24·4	..	26·4	1,4	13·7	..	9·9	29	1·1	1·4	..	1·1	7	0	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Baghmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	18·6	..	22.7	1	6·9	..	4·6	31	0	7·7	..	7·7	6	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	0·6	10·6	..	7·6	7	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Walungchung Gola	9·0	..	14·4	20	−3·1	..	−6·3	15	9·8	13·4	..	4·8	7	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Taplethok	19·2	..	22·8	9	7·2	..	4·2	31	0	11·2	..	8·4	13	1	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Bhojpur	15·6	..	18·4	10	7·7	..	5·4	31	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplejung	15·1	..	17·5	9	5·7	..	3·2	31	0·6	4·2	..	2.4	6	0	..	..	..	..	0	3	0	0	0	4	0	0	0	0	0
Okhaldhumga	14·5	..	19·2	8	5·8	..	3·2	31	0	0	..	0	..	0	..	3·3	2·5	..	0	0	0	0	0	0	0	0	0	0	0
Chainpur	(e) 12·8	..	15·0	4,5	9·9	..	8·8	18	0	3·4	..	2·6	6	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Angbung	..	..	..	..	(g) 9·3	..	6·8	27	0	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	24·6	..	26·4	8	12·0	..	10·0	29	0·8	3·9	..	3·1	6	1	..	5·1	3·9	..	0	2	0	0	1	0	0	0	0	0	0
Tista Catchment																													
Gangtok	16·1	..	21·0	2	6·1	..	3·9	31	1·4	11·8	..	6·2	14	1	..	5·3	4·6	..	0	5	0	0	0	4	0	0	0	0	0
Gezing	18·1	..	20.7	9	6·8	..	4·8	31	0	10·7	..	7·3	14	2	..	..	..	..	0		..	..	..	..	..	..	..	..	..

(R) Register not received.

*Data not available.

(a) Total for 30 days

†Data included under 'Nepal'.

(c) Mean of 26 days.

(d) Mean of 27 days.

(g) Mean of 24 days.

Division and staion	Air temperature in C.°								Rainfall in millimetres					No. of rainy dys. (2·5 mm.) or more)		Wind speed' Km p.h.		Wheather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Arabian Sea Islands. JANUARY																														
Amini . .	31·7	+1·1	33·7	1	23·4	—0·1	19·4	29	9·4	12·0	—4·8	5·8	26	3	+1·9	6·8	4·7	—1·4	0	3	0	0	0	0	0	0	0	0	0
Minicoy . .	30·1	+0·6	32·1	26	23·1	+0·3	20·5	7	3·3	10·3	—36·2	5·5	1	1	—1·6	9·0	7·0	+0·1	0	5	0	0	1	0	0	0	0	0	0
FEBRUARY																														
Amini . .	32·2	+1·1	33·8	27,28	23·6	—0·9	21·4	13	0	0	—1·8	0	..	0	—0·3	6·6	4·6	—3·3	0	0	0	0	0	0	0	0	0	0	0
Minicoy . .	30·4	+0·7	31·7	5	22·6	—1·1	20·0	13	0	0	—18·0	0	..	0	—1·2	9·0	6·1	—1·3	0	0	0	0	0	0	0	0	0	0	0
MARCH																														
Amini .	33·1	+1·0	34·5	2,16	25·5	+0·1	23·5	22	0	0	—4·1	0	..	0	—0·2	7·2	7·5	—0·7	0	0	0	0	0	0	0	0	0	0	0
Minicoy . .	30·8	+0·6	31·6	21	24·1	—0·8	20·8	4	0	0	—22·3	0	..	0	—1·5	9·3	6·9	—0·2	0	0	0	0	0	0	0	0	0	0	0
APRIL																														
Amini .	32·7	—0·4	34·3	13,14	26·5	—0·2	22·9	5	0	26·4	—2·8	25·0	5	1	—0·6	8·1	6·7	—2·5	0	2	0	0	0	0	0	0	0	0	0
Minicoy . .	31·5	+0·7	33·1	7	25·4	—1·0	23·1	13	10·0	136·7	78·3	69·5	9	6	+2·5	15·0	11·3	+2·0	0	9	0	0	7	0	0	0	0	0	0
MAY																														
Amini . .	31·8	—1·1	36·3	7	26·5	—0·8	23·7	19	173·5	354·2	+241·2	130·8	19	9	+4·2	16·7	16·6	+4·4	1	11	0	0	0	0	0	0	0	0	0
Minicoy . .	31·0	—0·3	32·7	9	25·5	—0·7	23·1	11	121·5	308·2	+130·4	63·0	10	15	+6·3	26·4	22·7	+10·1	0	20	0	0	9	0	0	0	0	0	0
JUNE . .																														
Amini . .	31·0	+0·4	32·2	7	26·7	+1·1	24·7	26	52·9	73·1	—295·4	21·0	15	6	—10·8	16·8	16·9	—2·9	3	6	0	0	1	0	0	0	0	0	0
Minicoy . .	30·5	+0·5	31·3	8	25·5	+0·3	21·5	26	145·0	224·9	—69·7	55·8	16	11	—6·0	15·2	12·9	—6·1	0	19	0	0	4	0	0	0	0	0	0
JULY																														
Amini . .	30·2	+0·5	31·7	29	25·8	+0·5	23·7	10	60·4	132·8	—167·2	22·7	15	14	—1·7	26·7	25·8	+3·3	0	20	0	0	0	0	0	0	0	0	0
Minicoy . .	29·9	+0·5	30·9	2,10	24·4	—0·5	22·2	8	123·1	276·2	+51·2	57·1	8	18	+4·3	17·6	17·5	—1·3	2	20	0	0	4	0	0	0	0	0	0
AUGUST																														
Amini . .	29·2	—0·4	30·1	1	25·3	0	22·9	18	90·4	346·9	+149·8	64·4	17	15	+3·7	19·8	19·5	—1·6	1	18	0	0	0	0	0	0	0	0	0
Minicoy . .	29·8	+0·5	30·6	5	24·6	—0·5	22·0	18	115·3	226·5	+28·1	54·5	17	11	—0·8	14·1	12·8	—3·3	1	18	0	0	2	0	0	0	0	0	0
SEPTEMBER																														
Amini . .	29·4	—0·4	31·3	27	25·1	—0·1	23·0	13	71·5	194·2	+42·8	37·2	5	13	+2·9	19·5	19·5	+2·9	2	19	0	0	0	0	0	0	0	0	0
Minicoy . .	29·5	+0·1	30·7	21	24·6	—0·5	21·8	2	52·4	209·4	+49·4	58·4	2	10	—0·1	15·6	14·4	+0·2	1	15	0	0	0	0	0	0	0	0	0
OCTOBER																														
Amini . .	29·9	—0·3	32·9	18	25·4	+0·4	23·7	18	111·8	241·6	+95·8	42·7	21	13	+4·4	8·9	9·1	—0·9	3	15	0	0	6	0	0	0	0	0	0
Minicoy . .	29·6	0	30·6	12	24·4	0	22·7	18	95·4	180·1	—4·8	45·9	9	12	+1·4	14·0	12·2	+1·6	1	17	0	0	0	0	0	0	0	0	0
NOVEMBER																														
Amini . .	31·8	+1·3	33·5	20	23·6	—0·7	21·2	17	5·6	29·0	—47·7	27·4	28	1	—3·9	6·4	3·7	—2·1	0	3	0	0	0	0	0	0	0	0	0
Minicoy . .	30·3	+0·8	31·8	21,22	23·4	—0·1	21·4	1	6·0	38·1	—101·1	20·0	26	2	—5·7	6·4	4·8	—3·2	0	6	0	0	2	0	0	0	0	0	0
DECEMBER																														
Amini*																														
Minicoy . .	30·7	+1·0	31·6	5	23·7	+0·4	22·4	23	47·5	76·1	—9·5	35·7	29	4	—0·3	7·3	5·2	—1·7	0	5	0	0	1	0	0	0	0	0	0

Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperatures in °C: Dry bulb	Mean temperatures in °C: Wet bulb	Mean temperatures in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1013·6	1010·4	..	26·4	23·9	22·7	27·6	81	..	3·8	..	8·6	0	2	22	0	20	4	0	0	0	0	0	7	0
	1730	,,	1011·0	1007·8	..	26·2	23·9	22·8	27·7	83	..	4·5	..	7·8	0	0	27	0	22	2	3	0	0	0	0	4	0
Long Island	0830	25	1013·3	1010·4	..	26·7	23·8	21·9	26·3	77	..	5·5	..	4·3	0	0	25	2	8	9	4	0	0	0	2	6	0
	1730	,,	1011·0	1008·2	..	25·1	22·8	21·7	25·9	82	..	5·1	..	2·5	0	0	16	1	5	6	3	1	0	0	0	15	0
Port Blair	0530	79	1011·3	1002·3	..	23·5	22·2	21·5	25·6	89	..	5·1	..	11·4	0	4	17	1	14	4	1	1	0	0	0	10	0
	0830	,,	1013·2	1004·3	+0·2	27·4	24·2	22·7	27·6	76	+5	5·3	+1·1	16·7	0	9	20	1	20	7	1	0	0	0	0	2	0
	1130	,,	1011·6	1002·7	..	28·2	24·6	22·9	27·9	73	..	5·6	..	15·8	0	7	24	1	23	6	1	0	0	0	0	0	0
	1730	,,	1010·9	1001·9	..	25·1	22·9	21·9	26·3	82	..	5·3	..	13·3	0	4	26	2	22	6	0	0	0	0	0	1	0
	2330	,,	1012·1	1003·1	..	24·3	22·7	22·0	26·4	87	..	4·1	..	12·3	0	4	21	0	18	5	2	0	0	0	0	6	0
Car Nicobar	0830	10	1012·5	1011·3	..	27·5	24·4	22·0	28·1	78	..	5·6	..	3·9	0	0	30	0	18	3	2	0	4	0	3	1	0
	1730	,,	1009·9	1008·7	..	26·3	23·9	22·9	27·9	81	..	5·7	..	2·6	0	0	21	0	13	4	2	1	1	0	0	10	0
Nancowry	0830	26	1012·3	1009·4	..	27·5	25·1	24·4	30·5	81	..	5·1	..	0·5	0	0	5	0	0	0	1	2	1	1	0	26	0
	1730	,,	1009·7	1006·7	..	25·8	24·1	23·3	28·6	87	..	5·1	..	0·7	0	0	2	0	0	0	0	0	2	0	0	29	0
Kondul	0830	8	..	..	..	26·7	24·5	23·5	28·9	83	..	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	.	..	26·5	24·5	23·6	29·1	84	..	5·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Passighat	0830	157	1018·7	1000·3	.	16·8	13·4	10·4	12·6	66	..	(c) 2·8	..	(c) 21·0	0	17	11	0	0	0	0	0	0	0	28	0	0
	1730	,,	1014·8	996·5	..	17·1	14·8	13·0	15·0	77	..	(b) 2·2	..	(b) 4·3	0	0	15	0	0	0	0	0	0	0	15	14	0
Dibrugarh (Mohanbari)	0230	111	1015·8	1002·5	..	11·7	11·3	10·8	12·9	95	..	3·0	..	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
	0530	,,	1016·4	1003·0	..	10·8	10·5	10·2	12·4	96	..	3·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1018·5	1005·4	−0·2	16·9	15·0	13·5	15·5	81	−17	2·9	+0·3	3·4	0	0	19	1	11	4	2	0	0	1	0	12	0
	1130	,,	1016·1	1003·2	..	21·9	16·7	12·8	14·8	57	..	3·0	..	4·8	0	0	30	1	17	9	0	0	0	0	3	1	0
	1730	,,	1014·3	1001·3	..	17·0	15·0	13·5	15·5	80	..	2·9	..	0·3	0	0	2	0	2	0	0	0	0	0	0	29	0
	2330	,,	1016·3	1003·1	..	12·5	12·0	11·5	13·6	94	..	2·7	..	0·2	0	0	1	0	1	0	0	0	0	0	0	30	0
Dibrugarh	0830	152	1017·4	999·7	..	19·0	17·1	15·8	17·9	83		(a) 0·8	..	(a) 3·2	0	0	20	2	4	6	0	1	3	1	3	10	0
	1730	,,	1014·1	996·6	..	22·6	19·5	17·7	20·2	73		(l) 0·4	..	(l) 1·4	0	0	6	0	2	1	3	0	0	0	0	13	0
North Lakhimpur	0830	102	1018·7	1006·7	+0·4	17·3	15·4	13·9	15·9	80	0	2·3	−0·3	2·1	0	0	25	5	8	5	3	1	0	1	2	6	0
	1130	,,	1016·2	1004·4	..	22·0	17·2	13·8	15·8	59	..	2·7	..	3·0	0	0	29	2	11	10	4	0	0	2	0	2	0
	1730	,,	1014·8	1002·8	..	17·7	15·8	14·4	16·4	81	..	2·5	..	1·0	0	0	12	1	8	1	1	0	0	1	0	19	0
Sibsagar	0830	97	1019·0	1007·6	+0·4	17·6	16·0	14·8	16·8	84	−10	3·3	−2·6	1·2	0	0	9	2	3	0	1	1	2	0	0	22	0
	1730	,,	1014·7	1003·5	..	20·6	18·3	16·9	19·3	80	..	2·2	..	0·4	0	0	2	0	2	0	0	0	0	0	0	29	0
Golpur	0830	..	..	..	..	16·1	15·0	14·5	16·5	89	..	1·0	..	5·8	0	0	30	1	6	6	10	3	0	0	4	1	0
	1730	..	..	..	..	18·0	16·6	15·6	17·7	86	..	1·0	..	6·0	0	0	31	8	4	2	7	1	1	1	7	0	0
Majbat	0830	..	..	..	..	19·6	16·0	13·3	15·3	67	..	1·2	..	3·8	0	0	28	0	5	17	4	2	0	0	0	3	0
	1730	..	..	..	..	19·4	16·6	14·6	16·6	72	..	1·5	..	0·6	0	0	6	2	1	0	2	0	0	0	1	25	0
Jorhat (Aerodrome)	0530	90	1015·9	1005·2	..	11·6	11·5	11·4	13·5	99	..	3·1	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	0830	,,	1018·1	1007·5	..	16·4	15·2	14·3	16·3	87	..	3·5	..	2·5	0	0	15	0	6	1	0	1	2	4	1	16	0
	1130	,,	1015·8	1005·5	..	22·2	17·6	14·4	16·4	61	..	2·9	..	7·7	0	0	31	8	10	9	1	1	2	0	0	0	0
	1730	,,	1013·8	1003·3	..	18·3	16·1	14·6	16·6	79	..	2·7	..	2·1	0	0	13	3	9	1	0	0	0	0	0	18	0
	2330	,,	1015·8	1005·1	..	13·3	13·0	12·7	14·7	97	..	1·7	..	0·4	0	0	3	1	1	1	0	0	0	0	0	28	0
Tangla	0830	78	1017·3	1008·1	..	18·0	15·1	12·8	14·8	70	..	0·1	..	0·2	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	,,	1012·7	1003·7	..	22·4	19·0	16·9	19·3	71	−5	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tezpur	0830	79	1019·2	1009·9	+0·3	16·9	15·4	14·3	16·3	83	..	1·5	−0·5	4·5	0	0	28	0	19	5	1	3	0	0	0	3	0
	1730	,,	1014·9	1005·7	..	19·3	16·3	14·1	16·1	72	..	1·5	..	2·0	0	0	12	0	11	1	0	0	0	0	0	19	0
Golaghat	0830	..	..	..	..	17·3	15·3	14·0	16·0	78	..	(d) 3·5	..	(d) 0	0	0	0	0	0	0	0	0	0	0	0	27	0
	1730	..	..	..	..	23·5	18·0	14·2	16·2	56	..	(a) 3·5	..	(m) 0	0	0	0	0	0	0	0	0	0	0	0	18	0
Rangia	0830	..	..	..	..	18·9	16·5	14·8	16·8	77	..	0·7	..	3·1	0	0	30	0	2	23	2	0	0	2	1	1	0
	1730	..	..	..	..	21·3	18·1	16·0	18·2	72	..	0·5	..	0·7	0	0	8	0	1	6	0	0	0	1	0	23	0
Chaparmukh	0830	66	1019·0	1011·3	..	18·4	16·0	14·2	16·2	77	..	1·4	..	3·9	0	0	31	1	6	15	8	1	0	0	0	0	0
	1730	,,	1013·8	1006·1	..	22·5	19·0	16·8	19·1	70	..	2·0	..	3·2	0	0	31	9	11	6	1	1	0	3	0	0	0
Goalpara	0830	38	1017·8	1013·2	..	16·4	15·2	14·3	16·3	86	..	1·8	..	0·5	0	0	8	0	7	0	1	0	0	0	0	23	0
	1730	,,	1014·1	1009·8	..	24·0	19·4	16·5	18·8	64	−3	1·3	..	1·0	0	0	15	0	6	0	1	0	1	1	6	16	0
Gauhati	0830	,,	..	..	..	17·5	16·1	15·2	61 7·3	8		2·9	+1·0	0·9	0	0	9	3	5	1	0	0	0	0	0	22	0

(c) Mean of 29 days. (l) Mean of 19 days. (d) Mean of 27 days. (m) Mean of 18 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h): 62 or more	Wind speed (Km.p.h): 20 to 61	Wind speed (Km.p.h): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Gauhati (Bhorjor)	0230	54	1015.4	1008·9	..	13·3	12·8	12·4	14·4	95	..	1·5	..	0.4	0	0	3	0	2	1	0	0	0	0	0	28	0
	0530	,,	1016·1	1009·5	..	12·1	11·7	11·4	13·5	95	..	1·8	..	0·6	0	0	4	1	0	0	0	3	0	0	0	27	0
	0830	,,	1018·2	1011·8	+0·1	17·8	16·1	14·9	16·9	83	0	2·4	+0·5	0·5	0	0	3	0	2	0	1	0	0	0	0	28	0
	1130	,,	1015·9	1009·7	..	23·0	18·2	15·0	17·0	60	..	2·5	..	6·9	0	0	29	12	12	2	0	0	1	0	2	2	0
	1730	,,	1014·0	1007·7	..	19·4	16·9	15·1	17·1	76	..	3·1	..	0·5	0	0	4	2	2	0	0	0	0	0	0	27	0
	2330	,,	1016·0	1009·5	..	14·4	13·8	13·3	15·3	93	..	1·3	..	1·1	0	0	7	1	1	0	1	1	2	0	1	24	0
Dhubri (Rupsi)	0530	36	1014·9	1010·6	..	12·0	11·6	11·3	13·4	95	..	2·5	.	3·2	0	0	18	2	16	0	0	0	0	0	0	13	0
	0830	,,	1017·3	1013·0	..	17·6	15·7	14·3	16·3	81	..	2·1	..	6.3	0	0	31	0	14	11	2	2	2	0	0	0	0
	1130	,,	1015·6	1011·4	..	23·0	17·9	14·4	16·4	58	..	2·1	..	9·3	0	0	31	1	8	10	6	2	4	0	0	0	0
	1730	,,	1013·5	1009·3	..	18·7	16·9	15·7	17·8	82	..	1·9	..	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
Dhubri	0830	35	1018·5	1014·3	+0.5	17·5	15·8	14·5	16·5	83	0	0·6	−0·7	2·0	0	0	22	1	19	0	0	0	1	0	1	9	0
	1730	,,	1014·5	1010·4	..	21·0	17·3	14·7	16·7	67	..	0·8	..	0·4	0	0	5	1	2	1	0	0	0	0	1	26	0
Lumding	0830	149	1018·7	1001·1	..	15·4	13·7	12·3	14·3	80	−11	1·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1013·7	996·6	..	22·3	17·6	14·3	16·3	61	..	0·9	..	0	0	1	0	0	0	1	0	0	0	0	0	30	0
Tura	0830	370	1018·6	975·4	..	15·9	14.2	12·9	14 9	82	..	5·5	..	2.6	0	6	26	0	2	14	9	0	0	1	0	5	0
	1730	,,	1014·1	972·1	..	21·9	19·6	18·3	21·0	80	..	4·3		2·1	0	0	21	2	0	2	5	7	4	0	1	10	0
Haflong	0830	682	1017·1	939·5	..	16·1	13·3	10·9	13·0	73	..	1·5		7·5	0	0	31	1	1	0	5	13	11	0	0	0	0
	1730	,,	1013·4	936·5	..	17·3	14·2	11·7	13·7	70	..	1·0	.	8.5	0	0	31	1	0	0	2	6	18	4	0	0	0
Silchar (Kumbhirgram)	0530	97	1014·7	1003·2	..	12·5	11·7	11·0	13·1	90	..	1·2	.	7·3	0	0	31	0	3	28	0	0	0	0	0	0	0
	0830	,,	1016·6	1005 2	..	17·1	14·6	12·6	14·6	75	..	1·4	..	7·9	0	0	31	0	0	25	6	0	0	0	0	0	0
	1130	,,	1014·0	1002·9	..	22·6	16·9	12·7	14·7	53	..	1·5	..	4·8	0	0	31	0	1	13	9	4	3	0	1	0	0
	1730	,,	1012·6	1001·4	..	20·3	16·5	13·7	15·7	66	..	1·1	..	3·5	0	0	25	5	8	8	0	0	2	1	1	6	0
Silchar	0830	29	1017·8	1014·3	0	17·4	15·3	13·7	15·9	79	−4	1·7	−0·3	0.4	0	0	7	0	4	2	0	0	1	0	0	24	0
	1730	,,	1013·8	1010·4	..	21·1	17·3	14·7	16·7	66	..	1·2	..	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
Imphal (Tulihal)	0530	781	1020·9	929·0	.	5·1	5·0	4·9	8·7	99	..	4·7	..	0·6	0	0	5	0	1	1	0	1	0	1	1	26	0
	0830	,,	1020·8	930·8	−0·1	11·0	9·6	8·3	10·9	84	+3	4·0	+1·1	2·0	0	0	19	2	3	2	2	6	3	1	0	12	0
	1130	,,	1016·1	928·6	..	18·2	13·3	9·2	11·6	67	..	2·4	..	4·9	0	0	30	1	1	0	0	6	15	6	1	1	0
	1730	,,	1014·8	926·6	..	15·0	12·1	9·7	12·0	70	..	2·2	..	4·6	0	0	25	0	1	0	2	3	5	5	9	6	0
	2330	,,	1019·2	928·4	..	7·9	7·6	7·3	10·2	96	..	1·1	..	1·2	0	0	9	2	5	2	0	0	0	0	0	22	0
Kailashahar	0530	29	1016·0	1012·6	..	11·3	11·0	10·7	12·9	96	..	1·8	..	0·2	0	0	4	0	0	0	0	2	2	0	0	27	0
	0830	,,	1018·1	1014·6	..	16·4	14·9	13·7	15·7	84	..	2·1	..	0·6	0	0	8	1	0	0	1	4	2	0	0	23	0
	1130	,,	1015·9	1012.5	.	24·2	18·3	14·3	16·3	54	..	2·3	..	2·3	0	0	27	9	3	6	2	1	1	2	3	4	0
	1730	,,	1014·4	1011·1	..	20·4	17·6	15·7	17·8	74	..	1·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Agartala	0230	16	1014·1	1012·2	..	12·2	11·7	11·3	13·4	95	.	0·5	..	0·6	0	0	3	0	1	0	2	0	0	0	0	28	0
	0530	,,	1014·6	1012·7	..	11·1	10·7	10·3	12·5	96	..	1·0	..	0·5	0	0	3	0	0	0	2	1	0	0	0	28	0
	0830	,,	1016·6	1014·7	+0.3	18·4	16.2	14·6	16·6	79	0	1·6	+0.4	2·1	0	0	12	5	1	0	1	3	0	1	1	19	0
	1130	,,	1015·0	1013·2	..	24·7	17·8	12·8	14.8	48	..	2·0	..	7·5	0	0	28	10	7	1	1	1	0	0	8	3	0
	1730	,,	1013·4	1011.5	..	20·8	16·7	13·7	15·7	64	..	1·5	..	3·0	0	0	18	11	1	0	0	0	0	1	5	13	0
	2330	,,	1014·9	1013·0	..	13·4	12·8	12·3	14·3	93	..	0·2	.	0·6	0	0	4	0	0	0	3	1	0	0	0	27	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1014·9	999·5	..	14·3	13·0	12·7	14·7	86	..	0·9	..	2·6	0	0	16	16	0	0	0	0	0	0	0	15	0
	0530	,,	1015·8	1000·1	..	10·7	10·5	10·3	12·5	97	..	1·7	..	3.3	0	0	18	17	0	0	0	0	0	1	0	13	0
	0830	,,	1017·6	1002.3	−0·1	17·3	15·2	13·7	15·7	79	+3	2·2	+0·4	5·0	0	0	22	9	0	7	3	2	1	0	0	9	
	1130	,,	1016·1	1001·0	..	23·2	18·3	15·0	17·0	60	..	2·3	..	7·8	0	0	30	0	1	9	6	10	2	2	0	1	
	1730	,,	1014·2	999.0	..	18·0	16·5	15·5	17·0	85	..	3·2	..	3·4	0	0	19	8	0	0	0	0	4	7	0	12	0
	2330	,,	1015·7	1000·2	.	15·7	13·7	12·1	14·1	79	..	1.3	..	3·5	0	0	17	15	1	0	0	0	1	0	0	14	0
Jalpaiguri	0830	83	1017·9	1008·1	0	14·2	13·4	12·7	14·7	91	+7	1·7	+0·7	2.5	0	0	29	21	2	1	0	1	0	1	3	2	0
	1730	,,	1013·9	1004·4	..	21·2	17·3	14·6	16·6	65	..	1·7	..	1.5	0	0	16	0	2	2	0	1	7	3	1	15	0
Cooch Behar	0830	43	1018·0	1012·9	..	17.1	15.1	13·7	15·7	81	..	1·9	..	6·8	0	1	27	0	15	11	0	0	1	0	1	3	0
	1130	,,	1016·2	1011·3	..	23·3	18·0	14·3	16.3	57	..	1·5	..	8·9	0	0	30	0	9	16	2	0	1	0	0	1	2
	1730	,,	1014·2	1009·3	..	19·5	16·6	14·5	16·5	73	..	1·8	..	0·3	0	0	2	0	0	0	0	0	0	2	0	29	0
Balurghat	0830	26	1016·9	1013·8	..	17·7	15·8	13·3	15·3	76	..	1·4	..	1·9	0	0	24	6	2	0	0	1	1	4	10	7	0
	1730	,,	1013·1	1010.1	..	21·3	17·2	14·3	16·3	64	..	1·5	..	0·2	0	0	3	1	0	0	0	0	1	1	0	28	0
Malda	0830	31	1018·3	1014·6	+0·2	18·3	14·9	12·3	14·3	68	−5	1·9	+1·3	5·3	0	0	29	7	2	0	0	0	0	7	13	2	0
	1730	,,	1014·5	1010·9	..	21·1	16·5	13·2	15·2	61		1·8	..	3·9	0	0	26	5	0	0	0	1	4	5	11	5	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	1017.8	1015.5	−0.2	17.5	14.6	12.2	14.2	71	−5	1.5	+0.1	0.3	0	0	2	0	0	0	0	1	0	0	1	29	
	1730	,,	1014.3	1012.1	..	21.1	16.4	12.8	14.8	59	..	1.5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Suri	0830	..	..	..	..	17.7	13.7	10.2	12.4	62	..	2.1	..	4.8	0	0	28	5	1	1	0	1	3	9	8	3	0
Asansol	0230	126	1016.3	1001.2	..	12.8	11.7	10.9	13.0	88	..	0.9	..	0.6	0	0	3	1	0	0	0	0	0	1	1	28	0
	0530	,,	1016.7	1001.6	..	12.0	11.2	10.5	12.7	91	..	1.8	..	1.2	0	0	5	1	1	0	0	0	0	3	0	26	0
	0830	,,	1018.7	1003.9	+0.8	17.4	14.5	12.4	14.4	71	+4	2.1	−0.7	4.3	0	0	19	1	1	0	0	0	0	6	11	12	0
	1130	,,	1017.2	1002.7	..	23.8	16.6	10.9	13.0	44	..	1.7	..	8.5	0	1	26	6	4	1	1	0	0	1	14	4	0
	1730	,,	1015.0	1000.4	..	20.4	15.6	11.8	13.8	58	..	2.1	..	1.7	0	0	10	1	0	0	0	0	0	0	9	21	0
	2330	,,	1016.9	1001.9	..	13.8	12.3	11.2	13.3	83	..	1.0	..	1.2	0	0	6	1	0	0	0	0	0	0	5	25	0
Shanti Niketan	0830	59	1018.7	1011.7	..	18.1	14.2	10.9	13.0	63	..	1.9	..	7.9	0	0	30	11	4	0	0	0	0	4	11	1	0
	1130	,,	1017.3	1010.5	..	23.7	16.0	9.6	11.9	42	..	1.6	..	7.4	0	1	28	14	4	0	0	0	0	2	9	2	0
	1730	,,	1014.7	1007.9	..	20.4	15.2	10.9	13.0	54	..	1.8	..	2.5	0	0	17	8	2	0	0	0	1	0	6	14	0
Krishnanagar	0830	15	1018.8	1017.1	+1.0	18.5	15.0	12.3	14.3	68	−6	0.6	−0.7	0.2	0	0	3	3	0	0	0	0	0	0	0	28	0
	1730	,,	1014.3	1012.7	..	22.3	17.0	13.2	15.2	57	..	0.7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Purulia	0830	255	1019.1	989.3	+0.4	17.7	13.2	9.1	11.5	58	−1	2.9	+2.0	3.4	0	0	21	1	0	0	0	0	1	3	16	10	0
	1730	,,	1015.1	986.0	..	21.9	15.8	10.9	13.0	50	..	2.9	..	0.8	0	0	10	3	4	0	0	0	0	0	3	21	0
Bankura	0830	100	1018.3	1006.7	..	19.6	14.8	10.8	12.9	57	..	1.0	..	0.5	0	0	3	0	1	0	0	0	0	0	2	28	0
	1730	,,	1014.6	1003.1	..	22.6	16.5	11.8	13.8	51	..	1.5	..	0.3	0	0	2	0	1	1	0	0	0	0	0	29	0
Burdwan	0830	32	1017.9	1014.1	0	19.9	15.4	11.9	13.9	60	−8	0.8	−0.6	2.0	0	0	16	12	0	1	0	0	0	1	2	15	0
	1730	,,	1013.7	1010.0	..	23.2	16.9	12.4	14.4	50	..	1.1	..	0.8	0	0	9	9	0	0	0	0	0	0	0	22	0
Barrackpore (Aerodrome)	0530	7	1015.9	1015.1	..	13.1	12.3	11.6	13.7	91	..	1.0	..	2.3	0	0	13	7	1	1	0	0	0	0	4	18	0
	0830	,,	1018.1	1017.3	+0.6	18.2	15.5	13.5	15.5	74	0	1.6	+0.5	5.0	0	0	24	7	2	4	0	0	1	1	9	7	0
	1130	,,	1016.9	1016.1	..	24.1	18.1	13.9	15.9	53	..	1.6	..	8.4	0	0	29	12	4	0	1	0	0	1	11	2	0
	1730	,,	1014.6	1013.8	..	21.0	17.2	14.5	16.5	67	..	1.3	..	1.3	0	0	9	1	0	0	0	0	0	0	8	22	0
	2330	,,	1016.2	1015.4	..	14.8	13.8	13.0	15.0	89	..	0.3	..	0.8	0	0	5	3	1	0	0	0	0	0	1	26	0
Calcutta (Dum Dum)	0230	6	1014.9	1014.1	..	14.0	13.1	12.3	14.3	89	..	0.6	..	1.2	0	0	11	7	0	0	0	0	0	0	4	20	0
	0530	,,	1015.5	1014.7	..	13.1	12.3	11.6	13.7	90	..	1.2	..	1.0	0	0	7	2	2	0	0	0	0	0	3	24	0
	0830	,,	1017.7	1016.9	+0.5	18.5	15.2	12.6	14.6	69	−4	1.8	+0.5	4.2	0	0	27	14	5	0	0	0	0	0	8	4	0
	1130	,,	1016.3	1015.5	..	24.4	17.0	11.3	13.4	44	..	1.6	..	7.7	0	0	30	17	1	0	1	0	0	2	9	1	0
	1730	,,	1014.2	1013.4	..	21.5	16.8	13.3	15.3	60	..	1.3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	2330	,,	1015.7	1014.9	..	15.0	14.0	13.2	15.2	89	..	0.6	..	1.1	0	0	7	4	1	0	0	0	0	0	2	24	0
Calcutta	0830	6	1017.6	1016.9	0	18.8	15.1	12.4	14.4	66	−11	1.5	+0.1	3.9	0	0	27	14	3	1	0	0	1	3	5	4	0
	1130	,,	1016.1	1015.4	..	25.0	16.9	10.7	12.9	41	..	1.2	..	5.6	0	0	31	9	2	4	0	0	0	2	14	0	0
	1730	,,	1014.0	1013.3	..	22.7	16.9	12.7	14.7	53	..	1.5	..	1.9	0	0	21	8	1	1	1	0	0	2	8	10	0
Midnapore	0830	45	1018.2	1012.5	+0.1	19.0	14.8	11.4	13.5	62	−1	1.1	−0.2	4.9	0	0	28	11	15	1	0	0	0	0	1	3	0
	1730	,,	1014.1	1008.9	..	23.5	16.8	11.6	13.7	47	..	1.0	..	1.3	0	0	16	9	7	0	0	0	0	0	0	15	1
Contai	0830	11	1017.5	1016.2	+0.7	19.1	15.1	13.6	15.6	71	−3	0.8	−0.1	2.3	0	0	30	27	0	0	0	0	0	0	3	1	0
	1730	,,	1014.0	1012.8	..	22.5	17.8	14.6	16.6	61	..	0.5	..	0.6	0	0	9	2	0	0	2	5	0	0	0	22	0
Sagar Island	0830	3	1017.0	1016.6	−0.4	20.4	17.7	15.9	18.1	75	−2	2.3	+0.4	12.1	0	5	26	13	15	1	0	0	0	0	2	0	0
	1730	,,	1013.7	1013.4	..	22.6	18.3	15.5	17.6	64	..	2.5	..	9.1	0	1	28	10	6	0	1	2	2	2	6	2	0
Sandheads	0530	10	1015.9	1014.8	..	22.9	18.4	15.3	17.4	62	..	1.3	..	12.1	0	5	22	17	6	1	0	0	0	0	3	4	0
	0830	,,	1017.1	1016.0	−0.2	23.5	18.6	15.4	17.5	61	+3	1.5	−0.3	12.3	0	4	24	14	11	1	0	0	0	0	2	3	0
	1130	,,	1016.6	1015.5	..	24.2	18.9	15.6	17.7	58	..	1.3	..	12.5	0	3	28	23	6	1	0	0	0	0	1	0	0
	1730	,,	1015.3	1014.2	..	24.3	18.8	15.2	17.3	57	.	1.3	..	9.7	0	2	26	16	3	3	0	0	0	0	6	3	0
	2330	,,	1015.8	1014.7	..	23.5	18.4	15.1	17.1	59	..	0.3	..	8.7	0	4	21	17	3	0	1	2	0	0	2	6	0
Orissa																											
Baripada	0830	54	1019.2	1012.8	..	18.8	15.0	12.0	14.0	64	..	2.5	..	3.0	0	0	25	12	10	0	0	0	0	0	3	6	0
	1730	,,	1015.4	1009.2	..	22.1	17.1	13.8	15.8	59	..	1.7	..	0.1	0	0	2	0	0	0	1	1	0	0	0	29	0
Jharsuguda	0230	230	1015.6	988.6	..	15.1	13.6	12.4	14.4	84	..	1.9	..	3.0	0	0	16	9	5	1	1	0	0	0	0	15	0
	0530	,,	1016.1	989.0	..	14.0	12.8	11.8	13.8	87	..	3.1	..	3.0	0	0	17	9	6	0	2	0	0	0	0	14	0
	0830	,,	1018.1	991.3	+0.3	17.7	14.7	12.3	14.3	70	+3	3.0	+1.7	4.0	0	0	24	10	12	1	1	0	0	0	0	7	0
	1130	,,	1016.7	990.5	..	24.2	16.5	10.3	12.5	41	..	2.9	..	6.8	0	0	29	8	8	3	2	1	1	1	5	2	0
	1730	,,	1014.0	987.8	..	23.1	16.5	11.3	13.4	48	..	3.3	..	3.0	0	0	17	3	6	1	2	0	3	2	0	14	0
	2330	,,	1016.3	989.4	..	16.7	14.3	12.4	14.4	75	..	1.2	..	3.1	0	0	18	4	7	2	1	0	0	0	4	13	0
Koonjhargarh	0830	463	1015.4	962.7	..	18.9	14.4	11.0	13.0	60	..	2.4	..	2.1	0	0	22	7	2	0	1	1	0	2	9	9	0
	1730	,,	1011.1	959.4	..	22.3	15.7	11.0	13.1	49	..	2.6	..	2.3	0	0	23	6	7	3	1	2	2	0	2	8	0
Balasore	0830	20	1017.9	1015.6	+0.1	18.2	15.3	13.1	15.1	72	+2	2.4	+0.9	4.5	0	0	29	16	5	0	0	0	0	0	8	2	0
	1730	,,	1014.2	1011.9	..	22.7	18.0	14.8	16.8	61	..	2.5	..	0.9	0	0	12	3	1	1	1	5	1	0	0	19	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Sambalpur	0830	148	1018·0	1000·9	+0·1	20·6	17·0	14·5	16·5	67	—6	2·1	+0·7	1·3	0	0	13	4	6	2	1	0	0	0	0	18	0
	1730	,,	1014·0	997·0	..	24·2	18·5	14·7	16·7	55	..	2·4	..	3·9	0	0	4	0	1	1	1	1	0	0	0	27	0
Angul	0830	139	1018·3	1002·1	+0·7	19·4	16·5	14·6	16·6	73	+1	2·5	+0·9	3·8	0	0	29	2	1	2	2	0	5	9	8	2	0
	1730	,,	1014·1	998·3	..	24·2	20·8	18·9	21·8	72	..	2·5	..	3·1	0	0	27	5	4	4	5	0	2	2	5	4	0
Cuttack	0830	27	1018·1	1015·0	+0·3	19·3	17·0	15·3	17·4	76	+1	2·0	+0·2	0·6	0	0	5	1	1	0	0	0	2	0	1	26	0
	1730	,,	1014·3	1011·3	..	25·4	19·4	15·5	17·6	56	..	1·4	..	0·4	0	0	3	0	0	0	3	0	0	0	0	28	0
Chandbali	0830	6	1017·7	1017·0	+0·5	20·9	17·5	14·8	16·8	70	—5	2.2	+0 5	3·5	0	0	27	11	3	6	0	0	0	4	9	4	0
	1730	,,	1014·1	1013·4	..	23·6	18·3	14·7	16·7	58	..	1·5	..	2·6	0	0	26	3	11	11	1	0	0	0	0	5	0
Bolangir	0830	190	1018·8	996·7	..	19·2	15·9	13·6	15·5	70	..	3·2	..	2·1	0	0	31	9	6	0	1	4	4	4	3	0	0
	1730	,,	1013·9	992·3	..	24·2	18·0	13·6	15·5	51	..	2·7	..	2·1	0	0	31	13	11	0	0	2	2	1	2	0	0
Phulbani	0830	464	1016·5	962·8	..	14·4	12·9	11·7	13·7	83	..	1·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1012·4	960.2	..	21·5	17·2	14·6	16·6	63	..	0·8	..	0·3	0	0	1	0	0	0	1	0	0	0	0	30	0
Titlagarh	0830	211	1018·7	994·3	..	20·3	16·7	14·0	16·0	68	..	..	..	3·0	0	0	31	0	3	6	13	4	4	1	0	0	0
	1730	,,	1014·1	990·2	..	25·2	20·7	18·1	20·8	66	..	..	..	3·0	0	0	31	1	21	6	3	0	0	0	0	0	0
Bhubaneswar	0230	46	1015·0	1009·6	..	18·0	16·1	14·7	16·7	80	..	1·2	..	4.6	0	0	22	14	0	3	1	0	0	1	3	9	0
	0530	,,	1015·5	1010.1	..	16·7	15·1	13·9	15·9	84	..	2·1	..	5·5	0	0	25	17	1	0	0	0	0	1	6	6	0
	0830	,,	1017·8	1012·3	+0·3	21·1	17·3	14·7	16·7	66	—2	2·3	+0·6	8·3	0	0	30	17	7	2	0	0	1	0	3	1	0
	1130	,,	1016·6	1011·3	..	25·9	18·1	12·5	14·5	43	..	2·3	..	13·5	0	7	23	6	14	6	2	1	0	0	1	1	0
	1730	,,	1014·3	1009·0	..	24·6	17·8	12·9	14·9	48	..	2·0	..	6·9	0	0	26	2	4	8	5	2	0	0	5	5	0
	2330	,,	1016·0	1010·6	..	19·5	16·7	14·6	16·6	73	..	0·9	..	4·3	0	0	22	2	5	4	4	1	0	2	4	9	0
Puri	0830	6	1019·9	1019·2	+2·7	21·5	17·7	15·0	17·0	67	—5	2.2	+0·8	8·1	0	1	30	26	3	1	1	0	0	0	0	0	0
	1730	,,	1014·8	1014·1	..	24·2	18·9	15·4	17·5	58	..	(a) 1·4	..	(a) 10·4	0	2	28	4	5	5	15	1	0	0	0	0	0
Gopalpur	0530	17	1015·6	1013·6	..	17·4	16·0	15·0	17·0	85	..	2·8	..	14·1	0	0	30	4	0	0	0	0	0	0	26	1	0
	0830	,,	1017·8	1015·8	+0·5	20·9	17·9	15·8	17·9	73	+1	2·7	+1·3	16·6	0	10	21	8	0	0	0	0	0	0	23	0	0
	1130	,,	1016·6	1014·6	..	26·8	19·9	15·2	17·3	50	..	2·6	..	14·6	0	5	26	6	7	12	3	2	0	0	1	0	0
	1730	,,	1014·4	1012·4	..	24·5	19·3	16·0	18·2	59	..	2·9	..	15·5	0	2	29	1	10	15	5	0	0	0	0	0	0
	2330	,,	1016·0	1014·0	..	19·5	17·4	16·0	18·2	80	..	1·4	..	9·5	0	0	29	2	1	0	0	0	0	0	26	2	0
Koraput	0830	913	1522·1	913·7	—1·4	15·1	12·7	10·8	12·9	75	+3	1·6	+0·4	2·5	0	0	31	2	1	1	2	22	3	0	0	0	0
	1730	,,	1518·0	912·0	..	20·0	14·5	10·2	12·5	56	..	1·4	..	4·5	0	0	31	6	3	0	1	2	5	7	7	0	0
Bihar Plateau																											
Dumka	0830	149	1018·3	1000·8	+0·2	16·8	13·7	11·3	13·4	69	+3	1·0	+0·1	0·1	0	0	..	..	..	..	..	..	..	..	..	..	0
	1730	,,	1014·8	997·6	..	20·6	15·7	12·1	14·1	57	..	1·3	..	0	0	0	..	..	..	..	..	..	..	.	..	..	0
Daltonganj	0830	221	1018·9	992·9	+0·1	15·8	13·1	10.5	12·7	71	—8	2·7	+1·7	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,	1014·1	988·7	..	20·9	15·8	11.9	13·9	57	..	2·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Hazaribagh	0830	611	1018·7	948·4	+0·5	14·8	11·4	8·4	11.0	66	+5	2·7	+1·4	7·2	0	2	25	2	4	3	1	1	3	2	11	4	0
	1730	,,	1015·2	945·9	..	18·1	12·7	8·1	10·8	52	..	2·3	..	6·1	0	0	31	7	2	1	0	0	1	0	20	0	0
Dhanbad	0830	257	1018·3	988·3	..	17·5	13·4	9·9	12.2	61	..	2·1	..	3·9	0	0	26	5	2	0	0	1	1	9	2	5	6
	1730	,,	1014·3	984·8	..	21·3	15.2	10·2	12·4	50	..	1·6	..	2·1	0	0	20	2	2	0	0	0	0	4	6	11	6
Ranchi	0830	655	1017·7	943·4	+0·5	17·4	13·2	9·8	12·1	61	+3	2·0	+0·6	1·7	0	0	17	3	1	0	1	1	3	2	6	14	0
	1730		1016·1	942·4	..	19·2	14·1	10·1	12·3	56	..	2·3	..	1·4	0	0	20	3	4	0	1	0	0	0	12	11	0
Ranchi Aerodrome	0530	652	1017·2	941·9	..	12·1	9.8	7·6	10·4	73	..	2·9	..	2·5	0	0	9	2	2	0	0	0	1	0	4	22	0
	0830	,,	1018·1	943·8	..	16·6	12·2	8·4	11·0	59	..	2·7	..	6.2	0	1	21	6	0	1	0	0	0	3	12	9	0
	1130	,,	1016·3	943·2	..	20·7	13·4	7·1	10·1	42	..	2.5	..	10.7	0	3	27	5	6	2	1	0	3	1	12	1	0
	1730	,	1014·6	941·2	..	18·8	13·2	8·5	11·1	51	..	(i) 2.8	..	(i) 6·8	0	0	21	12	2	1	0	2	0	0	4	1	0
Jamshedpur	0830	129	1018·5	1003·3	+0·4	16·2	13·7	11·8	13·8	74	—1	2·5	+0·9	4·1	0	0	27	0	1	1	0	0	1	16	8	4	0
	1730	,,	1014·1	999·3	..	22·9	16·8	12·1	14·1	51	..	2·1	..	1·9	0	0	16	2	3	6	0	0	0	3	2	15	0
Jamshedpur (F.B.O.)	0530	142	1016·6	999·7	..	13·0	12·0	11·1	13·2	88	..	2·2	..	2·3	0	0	10	0	0	1	0	0	1	3	5	21	0
	0830	,,	1018·7	1002·0	..	16·2	13·6	11·4	13·5	73	..	2·5	..	4·7	0	0	26	0	0	2	0	1	3	9	11	5	0
	1130		1016·9	1000·7	..	23·1	15·9	10·1	12·3	44	..	2·3	..	9·2	0	2	27	1	1	2	0	1	2	9	13	2	0
	1730		1014·3	998·1	..	23·0	16·3	10·8	12·9	46	..	2·2	..	2·5	0	0	14	5	4	1	0	0	0	0	4	17	0
	2330	,,	1016·8	999·8	..	15·3	13·3	11·7	13·7	79	..	1·7	..	2·5	0	0	12	0	1	1	0	1	3	1	5	19	0
Chaibas	0830	226	1018·3	991·9	+0.3	17·1	14·0	11·3	13·4	69	—7	3·3	+1·8	1·5	0	0	16	1	1	0	0	0	14	0	0	15	0
	1730	,,	1014·5	988·6	..	22·3	16·3	11·8	13·8	51	..	2·4	..	0·5	0	0	5	0	4	0	0	0	1	0	0	26	0
Bihar Plains																											
Motihari	0830	66	(h) 1016·9	(h) 1009·3	—0·9	(h) 20·1	(h) 17·4	(h) 15·5	17·6	(h) 75	—5	(g) 0·2	—1·9	(g) 0	0	0	0	0	0	0	0	0	0	0	0	24	0
	1730	,,	(g) 1015·1	(g) 1007·4	..	(j) 20·4	(j) 17·3	(j) 1·	17·5	(j) 73	..	(c) 0·6	..	(c) 0	0	0	0	0	0	0	0	0	0	0	0	28	0
Forbesganj	0830	61	1018·0	1010·8	..	15·6	14·3	..	1	86	..	2·3	..	2·3	0	0	25	3	3	5	1	0	0	11	2	6	0
	1730	,,	1014·1	1007·0	..	20.3	..		48.115	70	14			1·3	0	0	13	2	0	0	0	0	0	11	0	18	0

(g) Mean of 24 days. (a) Mean of 30 days. (h) Mean of 28 days. (i) Mean of 21 days. (c) Mean of 28 days. (i) Mean of 22 days.

Station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km p.h.): 62 or more	Wind speed (Km p.h.): 20 to 61	Wind speed (Km p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Darbhanga	0830	49	1018·2	1012·5	+0·2	18·3	15·7	13·7	15·7	74	−9	0·5	−0·4	1·5	0	0	15	0	1	3	0	0	2	6	3	16	0
	1730	,,	1015·1	1009·4	..	20·9	18·3	16·6	18·9	79	..	1·1	..	1·0	0	0	10	0	0	1	0	0	1	4	4	21	0
Chapra	0830	58	..	..	..	14·9	12·6	10·6	12·8	77	..	1·6	..	4·5	0	0	22	0	0	7	0	0	9	6	0	9	0
	1730	..	..	..	..	19·2	15·3	12·4	14·4	64	..	1·6	..	0·7	0	0	9	0	0	0	0	0	4	3	2	22	0
Gaya	0830	38	1018·6	1014·1	+0·4	16·6	14·4	12·6	14·6	78	−7	1·7	+0·8	4·0	0	0	22	0	0	0	1	1	9	11	0	9	0
	1730	,,	1014·7	1010·2	..	19·9	16·6	14·2	16·2	70	..	1·6	..	1·0	0	0	8	0	0	0	0	0	2	6	0	23	0
Patna	0830	53	1018·2	1011·9	−0·2	15·2	13·2	11·5	13·6	77	+7	2·3	+1·3	6·0	0	0	28	1	1	2	2	3	9	8	2	3	0
	1730	,,	1014·9	1008·7	..	20·8	15·9	12·0	14·0	57	..	1·7	..	4·8	0	0	24	1	3	0	0	0	0	18	2	7	0
Patna Aerodrome	0530	60	1015·7	1008·5	..	11·3	10·3	9·3	11·7	89	..	1·5	..	2·4	0	0	14	1	1	1	0	0	4	6	1	17	0
	0830	,,	1018·0	1010·9	..	15·7	13·4	11·5	13·6	75	..	2·4	..	5·1	0	0	25	0	0	1	2	0	11	9	2	6	0
	1130	,,	1017·1	1010·2	..	21·7	15·6	10·6	12·8	50	..	2·5	..	7·6	0	2	29	1	2	2	2	0	3	11	8	0	2
	1730	,,	1014·6	1007·7	..	19·2	15·1	11·8	13·8	62	..	2·5	..	1·9	0	0	14	1	0	0	0	0	0	4	9	17	0
	2330	,,	1016·2	1009·1	..	13·2	11·9	10·7	12·9	83	..	1·1	..	1·8	0	0	14	2	1	0	0	0	1	7	3	17	0
Bhagalpur	0530	49	1016·3	1010·4	..	13·6	12·1	10·7	12·9	84	..	1·9	.	1·2	0	0	9	0	0	0	0	1	5	2	1	22	0
	0830	,,	1018·7	1012·8	+0·4	16·0	13·7	11·8	13·8	75	−1	2·3	+1·3	2·8	0	0	20	0	0	0		0	10	8	1	11	0
	1130	,,	1017·7	1012·0	..	21·1	16·3	12·7	14·7	59	..	2·2	..	5·7	0	0	27	1	1	2	0	0	4	10	9	4	0
	1730	,,	1015·0	1009·3	..	19·7	15·8	12·8	14·8	64	..	2·3	.	3·7	0	1	21	0	0	0	0	2	6	13	1	9	0
	2330	,,	1016·7	1010·9	..	15·9	13·7	11·9	13·9	77	..	0·8	..	3·4	0	0	22	0	0	0	1	0	14	6	1	9	0
Purnea	0830	37	1018·2	1013·7	+0·2	15·4	13·5	11·9	13·9	80	−2	2·5	+1·2	3·7	0	0	28	1	0	0	3	0	4	18	2	3	0
	1730	,,	1014·6	1010·1	..	20·1	16·5	13·9	15·9	68	..	2·6	..	2·8	0	0	22	1	0	0	0	0	0	5	16	9	0
Jamui	0830	82	1019·2	1009·4	..	16·5	14·6	13·1	15·1	79	..	0·6	..	3·4	0	0	31	0	0	1	4	0	0	3	23	0	0
	1730	,,	1015·1	1005·3	..	20·8	16·9	14·1	16·1	64	..	0·5	..	3·4	0	0	31	0	1	0	3	0	1	2	24	0	0
Dehri	0830	107	1018·1	1005·5	..	16·5	13·8	11·5	13·6	73	..	2·6	..	3·8	0	0	31	1	0	1	6	6	10	3	4	0	0
	1730	,,	1014·9	1002·5	..	21·7	15·4	10·2	12·4	48	..	2·3	..	3·9	0	0	30	1	3	0	0	0	0	19	7	1	0
Sasaram	0230	116	1016·7	1002·7	..	12·1	10·5	9·0	11·5	81	.	0·8	..	2·3	0	0	17	0	0	0	4	8	2	1	2	14	0
	0530	,,	1016·9	1002·9	.	11·0	9·8	8·6	11·2	85	..	1·6	..	2·9	0	0	19	0	1	1	5	5	4	1	2	12	0
	0830	,,	1018·9	1005·1	+0·9	15·8	12·8	10·1	12·3	69	+2	2·4	+1·4	4·4	0	0	26	1	0	3	3	6	11	2	0	5	0
	1130	,,	1017·9	1004·5	..	22·7	15·7	10·0	12·3	44	..	2·3	..	9·3	0	4	26	0	2	3	4	0	4	10	7	1	0
	1730	,,	1015·2	1001·8	..	20·9	15·0	10·1	12·3	50	.	1·9	..	5·3	0	0	29	3	7	1	0		0	5	13	2	0
	2330	,,	1017·3	1003·4		13·3	11·3	9·5	11·9	76	.	0·7	.	2·9	0	0	18	1	1	3	1	3	5	2	2	13	0
Uttar Pradesh (East)																											
Bahraich	0830	147																									
	1730	,,																									
Balrampur	0830	124	1018·4	1003·6	+0·7	13·4	11·5	9·4	12·0	77	−3	1·6	+0·6	3·2	0	0	21	0	0	3	0	0	2	9	7	10	0
	1730	,,	1015·4	1000·9	..	19·0	14·7	10·9	13·2	60	..	2·5	..	1·0	0	0	10	0	0	0	0	0	3	5	2	21	0
Gauriganwa	0830	99	1017·1	1005·5	..	13·0	11·7	10·6	12·7	87	..	0·4	..	1·0	0	0	11	0	0	3	2	0	2	2	2	20	0
	1730	,,	1014·4	1002·8	..	21·0	16·2	12·4	14·6	59	..	0·8	..	1·2	0	0	12	0	0	1	1	0	6	2	2	19	0
Hardoi	0830	142	1018·6	1001·5	+0·7	11·4	10·2	9·1	11·5	86	+3	1·8	+0·2	3·2	0	0	18	2	0	1	0	0	1	8	6	13	0
	1730		1015·3	998·8	..	19·9	15·3	11·5	13·7	59	.	1·7	.	1·9	0	0	11	1	0	2	0	0	0	5	3	20	0
Gonda	0830	110	1018·5	1004·8	..	14·1	12·1	10·0	12·5	77	−5	1·4	−0·1	2·1	0	0	19	1	0	4	0	0	0	8	6	12	0
	1730	,	1015·2	1002·4	..	19·1	15·3	12·6	14·3	66	..	0·9	..	0·6	0	0	5	0	0	0	0	0	1	3	1	26	0
Lucknow	0830	111	1017·7	1004·5	−0·4	13·7	11·6	9·5	11·9	77	0	1·3	+0·3	1·9	0	0	20	0	1	0	4	0	5	7	3	11	0
	1730	,,	1015·3	1002·4	.	20·0	14·9	10·5	12·8	55	..	1·3	..	2·0	0	0	20	0	1	0	0	0	9	1	9	11	0
Lucknow (Amausi)	0230	123	1016·2	1000·8	..	10·4	9·4	8·3	11·0	87	..	0·9	..	7·3	0	0	26	2	4	1	0	1	0	10	8	5	0
	0530		1016·4	1001·0	..	8·8	8·0	7·3	10·1	91	..	1·3	..	5·5	0	0	24	0	3	1	1	1	2	11	5	7	0
	0830	..	1018·4	1003·2	+0·1	13·0	11·0	9·0	11·6	78	+10	2·1	+1·1	7·0	0	1	23	0	1	2	1	2	1	11	6	7	0
	1130	,,	1017·9	1003·0	..	21·1	14·3	7·8	10·8	44	..	2·1	..	13·1	0	8	23	2	3	3	2	1	1	7	12	0	0
	1730	,,	1015·3	1000·3	..	19·1	14·1	9·4	12·0	55	..	2·3	..	6·9	0	1	27	3	1	3	0	1	2	9	9	3	0
	2330	,,	1017·0	1001·7	..	11·2	9·9	8·5	11·2	84	..	1·2	..	6·7	0	0	26	2	4	2	0	0	2	10	6	5	0
Faizabad	0830	102	1018·1	1006·0	..	13·0	11·5	9·9	12·3	82	..	(a) 1·7	..	2·6	0	0	21	3	0	0	2	0	2	14	0	10	0
	1730	,,	1015·3	1003·4	..	18·1	14·8	12·1	14·2	69	..	1·7	..	0·5	0	0	5	0	0	0	0	0	0	5	0	26	0
Gorakhpur	0830	77	1017·2	1007·9	−0·8	15·0	13·0	11·3	13·3	79	+1	2·0	+1·1	2·1	0	0	27	0	1	2	1	0	3	19	1	4	0
	1730	,,	1013·9	1004·9	..	20·9	17·1	14·3	16·5	66	..	2·2	..	0·8	0	0	12	1	1	0	0	0	0	10	0	19	0
Gorakhpur (P.B.O.)	0230	78	1015·7	1006·3	..	14·5	12·5	11·0	12·8	80	..	0·7	..	3·5	0	0	17	0	1	1	0	0	1	12	2	14	0
	0530	,,	1015·8	1006·4	..	13·4	11·4	10·3	11·9	83	..	1·1	..	3·2	0	0	17	1	2	0	0	0	4	10	0	14	0
	1130	,,	1017·6	1008·5	..	19·8	15·5	12·6	14·3	63	..	2·2	..	6·7	0	0	30	0	0	2	4	4	4	13	3	1	0
	2330	,,	1016·5	1007·2	..	15·9	13·5	11·7	13·5	77	..	1·0	..	2·9	0	0	14	1	1	0	0	0	2	7	3	17	0
Kanpur	0830	126	1019·7	1004·9	+1·5	12·0	10·6	9·0	11·3	84	+7	1·1	+0·4	1·7	0	0	16	0	4	0	0	0	0	10	2	15	0
	1730	,,	1016·7	1002·1	..	21·7	15·2	9·3	11·9	46	..	1·1	..	2·7	0		24	3	4	0	1	0	0	12	4	7	0

(a) Mean of 30 days

(R) Registers not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard of isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km.p.h.): Mean wind speed, Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) (*Contd.*)																											
Kanpur (Aerodrome)	0530	126	1016·5	1001·4	..	10·6	9·0	7·2	10·2	80		1·3	..	2·8	0	0	10	1	2	1	0	0	0	3	3	21	0
	0830	,,	1018·4	1003·4	..	13·2	10·9	8·3	10·4	73	..	2·2	..	4·9	0	0	21	2	2	2	1	0	4	8	2	10	0
	1130	,,	1018·2	1003·6	..	21·2	14·5	8.1	11·1	44	..	2·0	..	8·9	0	0	29	5	1	5	2	1	1	9	5	2	0
	1730	,,	1015·2	1000.6	..	20·7	14·5	8·9	11·5	47	.	2·1	..	6·1	0	0	25	8	3	2	0	0	2	5	5	6	0
	2330	,,	1017·1	1002·1	..	13·2	10·7	8·0	10·4	72	..	1·2	..	3·5	0	0	13	1	3	1	0	0	1	5	2	18	0
Sultanpur	0830	97	1018·5	1006·9	..	14·3	12·0	10·0	12·2	77	..	2·3	..	1·6	0	0	19	0	2	4	1	0	1	8	3	12	0
	1730	,,	1014·7	1003·7	.	21·3	15·5	10·7	12·9	52	..	2·2	..	1·0	0	0	15	0	1	2	0	0	0	7	5	16	0
Azamgarh	0830	78	1017·9	1008·6	..	13·4	12·4	11·4	13·1	88	..	2·0	..	1·5	0	0	31	0	0	4	0	0	0	27	0	0	0
	1730	,,	1015·2	1006·1	..	19·4	17·5	16·2	18·2	83	..	2·0	..	3·5	0	0	26	0	0	3	0	0	0	23	0	5	0
Fatehpur	0830	114	1018·8	1005·2	..	13·9	11·6	9·3	11·8	74	+5	2·0	+0·6	4·0	0	0	27	0	3	6	1	3	5	5	4	4	0
	1730	,,	1015·5	1002·2	..	19·9	15·3	11·5	13·7	59	..	1·7	..	1·8	0	0	17	1	4	6	0	0	0	2	4	14	0
Ballia	0830	64	1018·2	1010·7	..	16·3	13·5	11·0	13·1	67	..	2·0	..	0·4	0	0	4	0	1	0	1	0	1	1	0	27	0
	1730	,,	1015·9	1008·5	..	20·8	16·9	13·4	15·9	66	..	1·6	..	0·3	0	0	3	0	0	1	0	0	0	1	1	28	0
Banda	0830	121	1019·0	1004·8	..	13·6	11·2	8·9	11·4	76	..	1·3	..	2·0	0	0	31	0	7	0	2	0	13	0	9	0	0
	1730	,,	1015·8	1002.1	..	22·3	16·0	11·0	13·1	50	..	1·0	..	2·0	0	0	31	0	10	0	1	0	8	0	12	0	0
Allahabad (Bamhrauli)	0230	98	1016·4	1004·8	..	12·1	10·7	9·3	11·7	83	..	1·0	..	1·2	0	0	10	1	2	2	1	0	0	4	0	21	0
	0530	,,	1016·7	1004·9	..	11·0	10·0	8·2	11.5	88	..	1·6	..	1·4	0	0	11	0	3	0	1	0	1	4	2	20	0
	0830	,,	1018·9	1007·2	+0·3	14.3	12·0	9.9	12.2	75	—2	2.5	+1·0	2·7	0	0	19	0	5	1	1	0	4	6	2	12	0
	1130	,,	1018·1	1006·8	..	22.2	15·3	9·0	11·9	45	..	2.5	..	5·9	0	0	26	1	3	3	2	2	1	10	4	5	0
	1730	,,	1015·5	1004·1	..	20·9	15.9	11·9	14·0	57	..	2.6	..	1·2	0	0	10	0	4	3	0	0	0	2	1	21	0
	2330	,,	1017·2	1005·2	..	13.5	11·6	9 8	12·1	79	..	0·9	..	1·3	0	0	11	0	1	1	1	0	1	6	1	20	0
Varanasi (Babatpur)	0530	85	1017·6	1007·2	..	12.8	11.0	9·2	11.7	79	..	1·3	..	5·8	0	0	29	0	4	1	2	4	14	2	2	2	0
	0830	,,	1019·5	1009·4	+0·7	14·5	12.8	11·1	13·4	80	+6	2·8	+1·5	7·3	0	0	29	1	2	2	3	0	14	5	2	2	0
	1130	,,	1018·8	1008·8	..	20·9	15·2	10·5	12·7	52	..	2·8	..	9·9	0	4	26	1	1	3	3	0	9	6	7	1	0
	1730	,,	1016·5	1006·4	..	19·6	15 6	12·3	14·5	64	..	2·8	..	7 3	0	0	27	3	5	3	0	0	7	7	2	4	0
	2330	,,	1018·0	1007·7	..	15·2	12·7	10·3	12·7	73	..	0·9	..	5 0	0	0	26	1	5	3	0	2	8	7	0	5	0
Varanasi	0830	76	1019·1	1009·9	+0·6	14·8	12·9	11·0	13·4	79	+2	2·3	+1·2	2·3	0	0	31	1	2	3	3	0	6	15	1	0	0
	1730	,,	1015·0	1006·3	..	20·7	16·2	12·5	14·8	63	..	2·7	..	1·3	0	0	19	1	3	0	0	0	1	12	1	12	0
Uttar Pradesh (West)																											
Mukhim (R)	0830																										
(R)	1730																										
Tehri (R)	0830																										
(R)	1130																										
(R)	1730																										
Dehra Dun	0530	682	1018·4	938·5	..	8·0	6.8	5.5	9·0	84	..	1·7	..	2·1	0	0	23	11	7	0	0	1	1	1	2	8	0
	0830	,,	1019·3	939·9	+0·6	10·5	8.6	6·6	9·8	77	+2	2·3	−0·2	1·0	0	0	14	3	1	1	0	1	0	4	2	17	0
	1130	,,	1018·0	940·4	..	17·0	11.9	7·1	10.2	54	..	3·3	..	2·4	0	0	28	1	1	1	4	7	5	5	4	3	0
	1730	,,	1015·7	938·1	..	15·7	12·3	9·5	11.9	67	..	2·5	..	0·7	0	0	11	3	0	0	0	2	2	2	2	20	0
	2330	,,	1018·5	939·1	..	10·3	8·6	6·9	9·9	80	..	1·5	..	2·6	0	0	28	11	12	1	1	1	0	0	2	3	0
Mansari (R)	0830																										
(R)	1730																										
Roorkee	0830	274	1019·8	987·1	+1.3	9·9	8·6	7·2	10·1	83	+1	2·8	+1·0	1·1	0	0	15	0	0	0	3	0	0	0	12	16	0
	1730	,,	1016·0	984·2	..	18·0	13·3	8·3	11.5	50	..	2·2	..	1·2	0	0	18	0	0	0	1	0	0	0	17	13	0
Najibabad	0830	270	1019·1	986·8	..	8·9	7·9	7·0	9·9	89	..	3·0	..	0·3	0	0	3	0	0	0	0	0	0	1	2	28	0
	1730	,,	1016·7	985·4	..	18·5	13·7	9·5	11·9	57	..	2·1	..	0·0	0	0	7	0	0	0	0	0	0	5	2	24	0
Meerut	0830	222	1019·1	992·7	+0·7	12.1	10·0	7·7	10·5	76	+1	0·2	−1.2	6·6	0	0	28	2	4	2	1	1	2	9	7	3	0
Bareilly	0830	173	1018·7	998·0	+0·5	12·8	10·5	8·1	10·8	74	−7	1·4	0	4·6	0	0	18	1	1	2	2	0	0	5	7	13	0
	1730	,,	1015·4	995·2	..	18·9	13·5	8·6	11.2	51	..	1·8	..	0·9	0	0	9	0	0	2	0	0	0	6	1	22	0
Bareilly (P.B.O.)	0230	172	1016·5	996·0	..	12·4	10·0	7·5	10·4	73	..	1·3	..	3·1	0	0	20	0	2	4	0	0	0	6	8	11	0
	0530	,,	1016·5	995·9	..	11·1	9·2	7·3	10·2	78	..	1·6	..	2·2	0	0	18	1	1	4	0	0	0	7	5	13	0
	1130	,,	1018·1	999·9	..	18·6	13·2	8·8	11·3	54	..	1.9	..	3.7	0	0	23	0	2	2	1	0	0	7	11	8	0
	2330	,,	1017·2	996·6	..	13·4	10·7	8·3	11·0	72	..	1·1	..	2·1	0	0	15	0	2	3	0	0	0	7	3	16	0
Aligarh	0830	187	1019·1	996·6	..	10·7	9·2	6·9	10.4	78	+16	1·9	+0·5	2·0	0	0	26	3	0	6	0	0	0	12	5	5	0
	1730	,,	1015·9	993·7	..	19·5	14·1	9·1	11·7	52	..	2·4	..	1·6	0	0	23	5	0	5	0	0	0	10	3	8	0
Mainpuri	0830	157	1018·9	1000·0	+0·4	11·3	9·7	8·0	10·7	80	+9	0·7	−0·7	1·0	0	0	10	0	0	0	0	0	2	3	5	21	0
	1730	,,	1015·6	997·7	..	19·7	14·8	10.3	12·9	54	..	0·6	..	0·4	0	0	4	1	0	0	0	0	0	0	3	27	0
Agra	0830	169	1019·4	999·3	+0·7	13·0	10·2	7·3	10·2	69	+7	0·8	−0·6	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1016·3	996·6	..	19·7	14·4	9·2	12·1	53		0·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Agra (Aerodrome)	0530	169	1017·7	997·2	..	8.2	7·6	6·8	9·9	90	..	0·7	..	2·0	0	0	9	0	1	3	1	0	0	1	3	22	0
	0830	,,	1019·5	999·2	..	10·6	9·3	8·0	10·7	84	..	1.7	..	4·2	0	0	19	3	1	1	3	0	0	2	9	12	0
	1130	,,	1018.7	999.4	..	20·1	14·1	8·4	11·0	48	..	1·8	..	8·9	0	2	22	6	1	1	4	1	0	1	10	7	0
	1730	,,	1016·0	996.3	..	19·0	14·2	9.8	12·4	56	..	2·0	..	4·6	0	0	21	7	2	0	2	0	0	0	10	10	0
	2330	,,	1018.2	997·9	..	11·1	9·7	8·2	10·9	83	..	0·9	..	2·7	0	0	12	2	1	3	0	0	0	0	6	19	0

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—(contd.)																											
Orai	0830	141	1020·9	1004.3	—	17·2	12·4	8·2	10·5	55	..	1·3	—	2·5	0	0	30	0	10	0	7	0	5	0	8	1	0
	1730	,,	1016·4	1000·1	—	21·8	15·6	9·7	12·7	40	..	1·1	—	2·3	0	0	31	3	3	1	0	0	4	0	20	0	0
Jhansi	0830	251	1020·1	990·6	+1·2	16·2	11·7	6·8	10·1	54	−6	1·7	+0·6	0·4	0	0	86	5	0	0	0	0	0	1	0	25	0
	1730	,,	1015·1	986·1	—	22·9	15.5	8·9	11·5	43	..	1·9	..	0·7	0	0	9	3	1	3	1	0	0	1	1	22	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1018·1	980·8	—	9·1	8·4	7·5	10·4	91	..	1·9	..	3·2	0	0	14	4	5	1	2	0	1	0	1	17	0
	0830	,,	1019·5	982·3	+1·1	10·2	9·1	7·9	10·7	87	+12	3·1	+0·1	2·5	0	0	15	1	5	2	1	0	2	1	3	16	0
	1130	,,	1019·4	982·9	..	16·1	12·3	8·5	11·2	63	..	3·4	..	5·0	0	0	27	1	4	0	2	2	11	4	3	4	0
	1730	,,	1016·9	980·5	..	16·5	13·1	10·1	12·3	66	..	3·4	..	3·4	0	0	24	1	2	0	0	0	5	14	2	7	0
Amritsar (Rajasansi)	0530	234	1018·2	989·8	..	5·9	5·3	4·6	8·4	91	..	1·7	..	6·6	0	1	19	2	3	1	1	0	1	6	6	11	0
	0830	,,	1019·7	991·3	+0·8	7·1	6·3	5·4	8·9	89	+3	3·3	+0·7	5·7	0	1	22	2	3	3	3	1	2	4	5	8	0
	1130	,,	1019·8	992·2	..	15·9	11·6	7·0	10·2	58	.	3·0	..	8·9	0	3	22	1	1	5	2	1	1	6	8	6	0
	1730	,,	1017·0	989·5	..	16·2	11·9	7·4	10·3	57		3·1	..	7·1	0	1	22	2	3	0	0	0	1	8	9	8	0
Adampur Aerodrome	*0530	238																									
	0830	,,	1019·0	989·6	..	7·0	6·6	6·2	9·4	95	..	(c) 3·6	..	2·1	0	0	11	1	1	3	2	0	0	0	4	20	0
	*1130	,,																									
	1730	,,	1016·3	987·8	..	15·8	13·0	11·0	12·7	72	..	3·1	..	5·0	0	0	21	1	0	1	1	0	1	3	14	10	0
	*2330	,,																									
Ludhiana	0830	247	1019·3	989·5	+0·4	8·6	8·0	6·6	9·7	87	+12	2·4	+0·3	0·2	0	0	2	0	0	0	1	0	0	1	0	29	0
	1730	,,	1016·4	987·5	..	17·2	14·1	11·5	13.6	70	..	3·1	..	1·7	0	0	20	2	0	2	2	0	0	7	7	11	0
Ferozepore	0830	200	1019·4	995·1	..	9·1	8·2	7·0	10·1	89	..	2·4	..	1·0	0	0	10	4	4	0	0	0	0	0	2	21	0
	1730	,,	1016·5	993·2	..	18·9	14·5	10·6	12·9	60	..	(a) 2·0	..	(a) 2·0	0	0	24	7	0	0	1	0	0	2	14	6	0
Halwara (Aerodrome)	0830	242	1019·9	990·7	..	7·5	7·3	6.6	10·1	92	..	4·0	..	5·2	0	1	26	3	1	2	4	1	1	4	11	4	0
	1730	,,	1017·4	989·0	..	16·3	12·8	9·4	11·9	65	..	2·7	..	7·8	0	0	29	3	1	3	1	1	0	5	15	2	0
Chandigarh	0830	347	1018·1	977·7	+1·8	10·7	9·1	7·5	10·4	81	+14	4·5	+3·0	1·2	0	0	11	0	0	0	2	0	4	0	5	20	0
	1730	,,	1015·9	975·5	..	15·0	12·2	7·2	10·2	53	..	2·1	..	2·7	0	0	25	0	1	0	5	0	12	0	7	6	0
Ambala	0830	272	1018·9	986·5	+0·6	11·4	9·4	7·6	10·2	77	+3	0·5	−1·7	2·0	0	0	16	0	2	0	9	0	0	0	5	15	0
	1730	,,	1016·0	984·3	..	17·0	12·7	9·0	11·2	60	..	1·3	..	2·1	0	0	17	1	1	0	8	1	1	0	5	14	0
Ambala (P.B.O.)	0230	278	1017·4	984·2	..	10·8	9·0	7·4	10·0	81	..	2·0	..	7·5	0	1	22	1	3	3	3	0	0	2	11	8	0
	0530	,,	1017·3	984·0	..	9·4	8·1	6·8	9·7	84	..	2·0	..	6·0	0	1	20	0	3	1	4	0	2	1	10	10	0
	1130	,,	1018·9	986·0	..	16·8	12·6	9·3	11·2	62	..	2·6	..	7·0	0	0	26	0	2	0	6	1	1	0	16	5	0
	2330	,,	1017·8	984·9	..	12·4	10·1	8·0	10·5	75	..	1·5	..	6·6	0	0	25	1	2	0	5	0	0	1	15	6	0
Ambala (Aerodrome)	0530	274	1017·5	984·4	..	7·2	6·6	5·9	9·3	91	..	1·6	..	5·1	0	1	14	0	0	4	0	0	0	5	6	16	0
	0830	,,	1019·0	986·0	..	8·5	7·8	7·1	10·0	91	..	3·3	..	4·5	0	1	10	0	1	2	1	0	0	2	5	20	0
	1130	,,	1018·8	986·8	..	17·3	12·8	8·4	11·2	57	..	2·7	..	10·4	0	2	21	0	1	2	3	2	0	4	11	8	0
	1730	,,	1016·0	984·0	..	16·8	12·4	8·2	10·9	59	..	2·7	..	6·4	0	0	21	0	0	2	1	0	1	9	8	10	0
	2330	,,	1018·2	985·3	..	9·4	8·3	7·0	10·0	85	..	1·4	..	4·2	0	0	12	1	0	3	0	0	1	3	4	19	0
Chandigarh	0830	251	1019·3	989·3	..	10·2	9·0	7·7	10.5	85	..	3·6	..	4·4	0	0	21	0	0	0	6	0	0	0	15	10	0
	1730	,,	1016·8	987·5	..	16·2	12·8	9·6	12·0	67	..	2·5	..	1·5	0	0	7	0	0	0	0	0	0	0	7	24	0
Bhatinda	0830	211	1019·2	994·0	..	12·6	10·6	8·6	11·1	77	..	1·4	..	2·2	0	0	13	0	2	1	3	0	0	1	6	18	0
	1730	,,	1016·3	991·7	..	18·3	14·6	11·2	13·7	64	..	1·1	..	2·1	0	0	16	1	3	0	2	0	0	0	10	15	0
Karnal	0830	249	1019·7	988·1	..	12·5	10·2	7·5	10·6	72	..	0·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1015·6	986·6	..	18·2	13·7	9·4	12·0	58	..	0·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hisar	0530	221	1018·0	991·2	..	7·8	6·9	5·9	9·3	88	..	1·0	..	7·0	0	0	31	2	2	9	0	3	1	10	4	0	0
	0830	,,	1019·9	993·2	+0·9	9·0	8·0	6·2	9·9	83	+14	2·5	+0·8	4·0	0	0	28	2	2	7	4	1	7	4	1	3	0
	1130	,,	1019·2	993·4	..	18·5	13·5	8·8	11·4	54	..	2·4	..	6·1	0	1	28	1	3	4	6	2	2	5	6	2	0
	1730	,,	1016·4	990·7	..	18·9	14·0	9·8	12·0	58	..	1·9	..	4·0	0	0	30	4	5	7	0	0	0	6	8	1	0
	2330	,,	1018·4	991·9	..	10·5	9·0	7·4	10·3	82	..	1·3	..	6·6	0	1	25	2	3	9	1	0	0	8	3	5	0
New Delhi (Safdarjang)	0230	216	1017·8	991·8	..	10·5	9·1	7·4	10·4	82	..	1·2	..	4·6	0	0	23	2	0	3	1	0	0	8	9	8	0
	0530	,,	1017·6	991·5	..	9·1	8·0	6·8	9·9	86	..	1·2	..	4·5	0	0	21	0	1	1	2	0	1	10	6	10	0
	0830	,,	1019·4	993·4	+0·8	9·9	8·5	6·9	9·9	82	+17	1·9	−0·1	5·9	0	0	25	0	1	1	2	1	2	14	4	6	0
	1130	,,	1019·0	993·8	..	18·7	13·4	8·4	11·1	53	..	2·3	..	10·3	0	3	28	2	3	6	3	0	1	5	11	0	0
	1730	,,	1016·1	990·8	..	19·2	13·9	9·0	11·4	53	..	2·2	..	6·3	0	1	28	3	4	4	3	0	0	1	14	2	0
	2330	,,	1018·2	992·3	..	11·9	10·1	8·1	10·9	79	..	1·2	..	4·2	0	1	22	0	0	2	3	0	3	7	8	8	0
Palam (Aerodrome)	0230	233	1017·2	989·4	..	9·2	8·1	6·9	9·9	85	..	1·3	..	3·7	0	0	18	0	1	3	4	1	0	5	4	13	0
	0530	,,	1017·4	989·2	..	7·6	6·8	5·9	9·2	90	..	1·2	..	4·0	0	1	16	0	0	1	3	2	3	5	3	14	0
	0830	,,	1019·0	991·1	..	9·9	8·4	6·8	9·8	82	..	2·0	..	5·1	0	0	22	0	0	2	2	1	7	10	0	9	0
	1130	,,	1018·6	991·4	..	18·6	13·4	8·7	11·2	54	..	2·1	..	11·6	0	4	25	5	0	5	2	1	0	8	8	2	0
	1730	,,	1015·9	989·1	..	21·4	14·5	8·2	10·9	44	..	2·5	..	12·1	0	3	28	11	2	1	3	4	1	1	8	0	0

*Data not available

(a) Mean of 30 days

(c) Mean of 28 days.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud mount (Oktas): Mean amount	Cloud mount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	0	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)— (*Contd.*)																											
Palam (Aerodrome) (*Contd.*)	1730	233	1015·7	988·6	..	18·1	13·4	9·0	11·5	56	..	2·3	..	8·0	0	0	31	10	3	5	3	2	0	1	7	0	0
	2030	,,	1017·4	989·9	..	13·4	11·0	8·6	11·2	73	..	1·5	..	5·3	0	0	22	3	3	3	5	1	0	2	5	9	0
	2330	,,	1017·7	989·7	..	11·0	9·3	7·5	10·4	80	..	1·3	..	3·9	0	0	17	1	0	0	5	2	1	4	4	14	0
Himachal Pradesh																											
Mandi	0830	761	1021·9	932·0	+0·8	5·4	5·2	4·9	8·7	96	+1	5·7	+0·9	0·1	0	0	2	0	2	0	0	0	0	0	0	29	0
	1730	,,	1015·6	928·4	..	14·3	10·5	6·6	9·5	61	..	2·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Bilaspur	0830	493	1022·3	952·9	..	8.3	7·5	6·7	9·7	91	..	0·6	..	0.6	0	0	4	0	1	0	0	0	1	1	1	27	0
	1730	,,	1016·2	947·7	..	18·1	12·6	7·0	10·2	50	..	0·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	*0530	3514	3131·1	666·4	..	—11·6	—13·3	—21·3	1·1	43	..	3·9	..	5·0	0	0	23	4	18	0	0	0	0	1	0	7	0
	*0830	,,	3144·5	667·9	+1·4	—9·6	—11·9	—19·6	1·7	41	—17	4·6	0	1·3	0	0	11	1	5	0	0	2	2	1	0	19	0
	1730	,,	3122·2	666·2	..	—6·9	—9·7	—16·0	1·7	50	..	3·9	..	(e) 4·2	0	0	27	1	0	0	0	7	16	2	1	4	0
Srinagar	0830	1587	1564·9	847·8	+1·3	0·3	—0·6	—1·5	5·6	84	—6	7·2	+2·3	2.3	0	0	17	1	0	2	5	1	1	1	6	14	0
	1730	,,	1570·9	848·4	..	2·5	1·0	1·1	5·7	77	..	6·7	..	1·9	0	0	16	1	0	0	6	1	2	4	2	15	0
	1730	,,	1547·9	844·3	..	3·2	1·5	0·7	5·8	75	..	5·7	..	1·9	0	0	18	5	1	3	2	0	0	3	4	13	0
Srinagar (Aerodrome)	0530	1666	1548·2	838·0	..	—0·7	—1·3	2·2	5·1	91	..	5·8	..	1·5	0	0	7	0	0	2	0	1	0	1	3	24	0
	0830	,,	1557·4	839·0	..	0	—0·2	—0·7	5·8	88	..	7·1	..	2·3	0	0	11	0	0	1	3	1	2	3	1	26	0
	1130	,,	1565·3	839·9	..	1·8	0·5	—1·5	5·3	80	..	6·9	..	3·3	0	0	17	0	3	2	1	1	0	1	9	14	0
	1730	,,	1542·3	837·5	..	2·4	1·0	—1·1	5·6	75	..	5·2	..	1·6	0	0	9	2	0	5	1	0	0	0	1	22	0
	2330	,,	1551·4	838·7	..	0·9	—0·6	—1·8	5·1	85	..	5·0	..	1·0	0	0	4	0	0	0	0	1	0	1	2	27	0
Gulmarg	0830	2655							Closed during winter months																		
	1730	,,							Closed during winter months																		
Banihal	0830	..	..	..	..	1·9	0·2	—3·3	4·9	69	..	3·8	.	11·7	0	6	13	0	3	0	0	0	0	0	16	12	0
	1730	..	..	..	..	6·3	2·2	—4·6	4·4	51	..	4·0	.	9·4	0	6	9	1	2	0	0	0	0	1	11	16	0
Jammu	0830	..	..	..	..	12·1	9·5	6·7	9·9	71	+9	..	.	7·2	0	0	31	13	13	0	2	3	0	0	0	0	.
Jammu (Aerodrome)	0530	292	1018·1	982·9	..	9·1	7·4	5·3	10·3	78	..	2·2		5·1	0	0	21	4	14	1	3	0	0	1	1	16	.
	0830	,,	1019·4	984·2	..	9·5	7·7	5·4	9·0	77	..	3·7	.	5·1	0	0	24	2	17	5	0	0	0	0	0	7	0
	1130	,,	1019·6	985·0	..	15·5	11·3	6·7	10·0	59	..	3·9	..	4·8	0	0	23	1	8	3	4	3	1	2	1	8	0
	1730	,,	1017·0	982·7	..	15·8	12·0	8·4	11·0	62	..	3·6	..	3·6	0	0	18	1	1	2	0	4	0	8	2	13	0
	2330	,,	1018·8	983·8	..	10·7	8·8	6·6	11·3	77	..	2·5	..	3·3	0	0	15	0	9	2	6	0	0	1	3	16	0
Rajasthan (West)																											
Ganganagar	0530	177	1018·0	996·6	..	8·4	7·1	5·6	9·0	82	..	2·0	..	1·3	0	0	9	2	2	3	0	0	1	0	1	22	0
	0830	,,	1019·4	998·0	+0·8	8·0	7·2	5·9	9·5	85	+6	2·1	+0·1	1·6	0	0	16	0	3	5	2	0	3	2	1	15	0
	1130	,,	1019·8	998·9	..	16·6	12·3	7·7	10·8	59	..	2·9	..	3·9	0	0	27	1	3	4	4	4	3	2	6	4	0
	1730	,,	1016·4	995·9	..	19·2	14·0	9·3	11·8	54	..	2·0	..	0·7	0	0	8	3	0	2	1	0	0	0	2	23	0
	2330	,,	1018·4	997·3	..	11·0	9·2	6·9	10·2	76	..	1·2	..	1·4	0	0	15	3	5	3	0	0	1	1	2	16	0
Anupgarh (R)	0830	..																									
(R)	1730	..																									
Mahajan	0830	189	1017·8	995·5	..	9·4	7·3	4·7	8·5	73	..	(a) 2·1	..	(a) 2·7	0	0	22	2	7	4	4	2	0	0	3	8	0
	1730	,,	1014·2	992·7	..	20·0	13·2	6·4	9·7	44	..	1·9	..	(b) 5·7	0	0	26	8	9	0	0	0	3	0	6	3	0
Churu	0830	291	1019·9	984·9	..	9·3	7·5	4·9	8·9	75	..	1·8	..	3·5	0	0	20	1	3	6	3	4	1	1	1	11	0
	1730	,,	1015·8	982·3	..	20·8	14·3	7·7	11·0	45	..	2·1	..	5·6	0	0	29	14	3	1	0	2	0	5	4	2	0
Bikaner	0830	224	1019·3	992·3	+0·4	7·6	6·2	1·6	6·9	67	+11	0·9	—0·9	3·0	0	0	24	4	4	4	9	0	0	1	2	7	0
	1730	.	1015·5	989·6	..	21·9	13·0	3·5	7·9	34	..	1·0	..	4·3	0	0	29	10	10	1	3	0	2	1	2	2	0
Bikaner (P. B. O.)	0530	224	1017·5	990·4	..	6·9	5·6	3·6	8·0	81	..	1·5	..	0·6	0	0	5	0	1	0	2	0	0	0	2	26	0
	1130	..	1019·0	992·8	..	18·7	12·5	5·8	9·1	47	..	2·5	..	2·6	0	0	19	3	6	0	4	3	1	0	2	12	0
	2330	,,	1017·9	991·2	..	11·1	8·3	4·6	8·7	67	..	1·0	..	2·3	0	0	11	6	4	1	0	0	0	0	0	20	0
Nagaur	0830	298	1018·4	983·4	..	14·0	11·6	9·3	11·7	74	..	2·0	..	6·3	0	1	30	9	9	5	3	2	1	1	1	0	0
	1730	,,	1014·5	980·8	..	21·9	11·7	13·5	15·9	57	..	1·6	..	4·7	0	0	30	8	4	5	2	1	2	2	6	1	0
Phalodi	0830	234	1019·0	990·9	..	9·7	6·2	1·6	6·7	57	..	1·8	..	7·0	0	0	30	6	4	5	1	3	5	6	0	1	0
	1730	,,	1015·9	989·1	..	22·5	14·2	4·8	9·5	34	..	1·8	..	9·2	0	4	26	14	5	3	0	0	3	1	4	1	0
Jaisalmer	0830	242	1018·6	989·7	..	10·5	6·6	1·5	6·7	57	..	2·4	..	7·0	0	1	21	10	7	1	3	1	0	0	0	9	0
	1730	,,	1015·0	987·2	..	22·0	12·2	1·1	6·5	27	..	2·1	..	8·6	0	2	27	14	11	0	0	1	1	0	2	2	0

(R) Register not received. (e) Mean of 26 days (b) Mean of 29 days. (a) Mean of 30 days *Observations for 30 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—*Contd.*) Jodhpur	0230	224	1016·6	990.1	..	14·3	9 8	4·3	8.5	53	..	0·8	..	11·1	0	2	26	7	19	1	0	0	0	1	0	3	0
	0530	,,	1016.7	990·0	..	12·7	9.2	4 8	8.8	61	..	1.5	..	10·6	0	1	30	6	24	0	0	0	1	0	0	0	0
	0830	,,	1018·4	991·7	+1.5	13·1	9·6	5.1	9.1	61	+11	(a) 2.1	+0.4	9·3	0	1	29	3	25	2	0	0	0	0	0	1	0
	1130	,,	1018·2	992·2	..	20·8	13.5	6·4	9.5	41	..	1.1	..	9·2	0	3	24	1	13	5	3	3	2	0	0	4	0
	1730	,,	1014·4	988·8	..	24·1	14.8	5.5	9·3	31	..	1.9	..	6·2	0	0	24	5	9	2	0	1	2	3	2	7	0
	2330	,,	1017.1	990·8	..	16.2	10·8	4·2	8·6	48	..	1·0	..	11·2	0	4	26	10	14	3	1	0	0	2	0	1	0
Barmer	0530	194	1016·4	993·3	..	13·3	8·3	1·2	6·9	44	..	1·3	..	2·2	0	0	18	7	0	0	0	0	0	2	9	13	0
	0830	,,	1018·1	995·0	+0·7	13·0	8·8	3·3	8·0	54	+1	1·4	−0 2	3·1	0	0	27	9	0	0	0	0	0	0	18	4	0
	1130	,,	1017·8	995·2	..	29·4	12·8	4·4	8·7	39	..	0·8	..	3·5	0	0	28	12	4	1	1	3	0	1	6	3	0
	1730	,,	1013·7	991·5	..	24·5	14·0	2·4	7·5	25	..	1·5	..	3·6	0	0	28	18	1	0	0	1	1	1	6	3	0
	2330	,,	1016·7	994·6	..	16·4	10·2	2·0	7·5	40	..	0·7	..	3·0	0	0	29	8	0	0	0	0	0	1	20	2	0
Munabao	0830	80	1019·2	1009.2	..	11·4	7·9	2·5	7·9	58		0 7	..	3.3	0	0	20	1	16	1	0	0	1	0	0	11	1
	1730	,,	1015.6	1006·1	..	24.0	13·8	5·1	7.6	33	..	0·6	..	(a) 5·0	0	0	25	10	8	4	0	0	1	1	0	5	1
Rajasthan (East) Pilani	0830	301	1020·6	984·8	..	11·8	7·7	2·0	7·3	53	..	1·9	..	8.8	0	0	31	6	9	6	2	0	1	2	5	0	0
	1730	,,	1016·4	981·7	..	29·5	11·5	2·0	7·2	32	..	0·8	..	9·7	0	0	31	15	8	0	1	2	0	0	5	0	0
Sikar	0830	433	1019.1	968·8	..	12·7	10·5	8.5	10·9	76	..	3·3	..	1·3	0	0	13	0	1	1	10	1	0	0	0	18	0
	1730	,,	1015·3	966·6	..	20.9	15·1	10·9	12·5	50	..	2·1	..	1·1	0	0	12	4	1	0	2	2	0	1	2	19	0
Alwar	0830	271	1018·2	985·9	..	10.9	10·0	9 2	11·4	89	..	2·0	..	0·3	0	0	4	2	0	0	0	0	0	0	2	27	0
	1730	,,	1014.9	984.1	..	19.5	16·3	14·1	16·0	73		2·1	..	0 3	0	0	6	6	0	0	0	0	0	0	0	25	0
Jaipur (Sanganer)	0230	396	1016·7	970·9	..	12·6	9.8	6 6	9.9	68	..	0·6	..	5.8	0	0	25	3	3	17	2	0	0	0	0	6	0
	0530	,,	1017·0	970·9	..	11·3	9 0	6.4	9 6	73	..	1.0	..	4.5	0	0	23	3	3	15	2	0	0	0	0	8	0
	0830	,,	1018.6	972·8	−0 3	13·4	10·3	6 8	10.0	66	+11	2·0	+0.5	5.4	0	1	18	3	1	10	5	0	0	0	0	12	0
	1130	,,	1018·0	973·2	..	20·4	13·7	6.8	10.2	43	..	1.5	..	8.2	0	1	29	0	3	7	9	5	2	1	3	1	0
	1730	,,	1014 6	970 1	..	21.2	14·1	7·1	10.2	42	..	2·1	..	4.6	0	1	24	5	1	6	4	2	1	1	5	6	0
	2330	,,	1017·3	971 6	..	13·7	10·4	6.6	9.9	63	.	0.8	..	6.1	0	0	28	4	6	17	1	0	0	0	0	3	0
Tonk	0830	176	1018·7	997·7	..	11·8	9 7	7.8	10.2	77	..	1·5	..	2·8	0	0	18	1	1	1	2	2	0	4	7	13	0
	1730	,,	1015.1	994·7	..	20·4	15·0	10 1	12.7	53	..	2·1	..	2·0	0	0	20	9	6	1	0	0	0	0	4	11	0
Ajmer	0830	486	1019·3	962·3	−0 2	11·6	9.2	6 7	9.7	73	+16	2.5	+1.1	3 4	0	0	24	2	8	3	5	1	0	1	4	7	0
	1730	,,	1014 4	959·6	..	21·7	13.5	6.0	8·9	38	..	1·9	..	5·9	0	0	29	5	9	2	3	2	2	2	4	2	0
Pali	0830	272	1018·2	985·7	..	12·3	11.1	9.8	12·3	86	..	2·5	..	4.1	0	0	28	0	1	2	3	1	6	1	14	3	0
	1730	,,	1013 9	982·7	..	21·2	17·0	13 8	16.0	64	..	2 0	..	3.8	0	0	27	2	7	5	7	1	1	1	3	4	0
Bhilwara	0830	425	..	..	..	12·4	9·8	6·6	10.0	69	..	1·6	..	2·1	0	0	18	4	3	3	1	1	1	0	5	13	0
	1730	..	..	..	..	23 1	15·7	7·9	10·6	39	..	2·3	..	8	0	0	28	4	9	8	3	2	1	0	1	3	0
Kota (Aerodrome)	0530	274	1016 9	984·3	..	13 2	10·5	7.6	10·4	70	..	1·8	..	4 9	0	0	23	1	4	1	1	0	6	6	4	8	0
	0830	,,	1018·7	986 4	..	14 9	11.5	8·2	10.0	64	..	2 3	..	5·0	0	0	25	2	4	4	2	1	2	7	3	6	0
	1130	,,	1017 9	986 6	..	21.3	14 6	8.3	11.3	45	..	2.2	..	7·4	0	0	30	1	4	18	4	0	0	1	2	1	0
	1730	,,	1014·6	983·3	..	23 5	15·7	8.6	11.2	41	..	2·7	..	6·6	0	1	30	4	17	8	0	0	1	0	1	0	0
	2330	,,	1017·1	985·0	..	16·2	12.3	8·4	11.0	61	..	1·7	..	5.5	0	0	28	3	5	0	3	1	9	7	0	3	0
Kota	0830	257	1018·6	988·5	+0·2	16 2	12·9	9·7	12·2	67	+10	1·4	0	3·1	0	0	11	0	0	1	1	0	0	2	7	20	0
	1730	,,	1015·1	985·6	..	22·4	16·2	11·1	13·4	50	..	1·8	..	1·0	0	0	9	0	4	4	0	0	0	0	1	22	0
Lumpura (Jawai Dam)	0830	295	1018·5	983·2	..	13·0	12.0	10.4	13·2	85	..	1·7	..	2.1	0	0	11	0	1	0	2	7	1	0	0	20	0
	1730	,,	1013.7	980.2	..	23·3	19 3	16 7	19.1	67	..	1·7	..	1.7	0	0	14	6	1	1	0	1	1	4	0	17	0
Chambal (Rawat Bhatta Dam)	0830	351	1018·8	977·6	..	14 2	11·7	9.4	11.5	73	..	1·8	..	0.9	0	0	9	1	2	0	1	0	0	0	5	22	0
	1730	,,	1014.1	974·4	..	23 4	15·9	9 2	11.8	41	..	2·4	..	5.2	0	0	27	1	11	5	2	1	0	0	7	4	0
Udaipur	0230	582	1017·3	949·6	..	11 5	10.4	9 2	11·8	86	..	0·7	..	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
	0530	,,	1017·8	949·8	..	11·5	9·3	8.6	11.1	88	..	1·0	..	0.1	0	0	1	1	0	0	0	0	0	0	0	30	0
	0830	,,	1018·7	951·6	+0·3	14.4	11·4	8·7	11.0	69	+11	1·5	+0.5	0	0	0	1	0	0	0	0	0	0	0	1	30	0
	1130	,,	1016·8	951·5	..	22·5	15·9	11.2	13·0	49	..	1·4	..	1·6	0	0	12	1	2	5	0	0	1	0	3	19	0
	1730	,,	1013·4	948·3	..	22·2	16·0	11·6	13·2	52	..	2·3	..	0.2	0	0	3	0	1	2	0	0	0	0	0	28	0
	2330	,,	1017·5	950·3	..	13.6	11·9	10·5	12·7	82	..	1·2	..	0.6	0	0	1	0	0	0	0	0	1	0	0	30	0
Jhalawar	0830	321	1018·6	980·8	+0·2	14·0	11·4	8.6	11.4	73	+10	2·0	+0·5	0·7	0	0	9	1	3	0	4	0	1	0	0	22	0
	1730	,,	1013·6	977.3	..	24·8	16·4	7.0	11·9	38	..	1.7	..	2.2	0	0	21	4	11	1	2	0	2	0	1	10	0
Madhya Pradesh (West) Gwalior	0230	207	1017.3	993·4	..	10·2	8.4	6.2	9·6	77	..	1.3	..	1·2	0	0	8	1	0	0	1	3	1	0	2	23	0
	0530	,,	1017.4	992·4	..	8·8	7·3	5.5	9·0	80	..	1.1	..	1·9	0	0	11	0	1	1	3	2	1	0	3	20	0
	0830	,,	1019.1	994·5	+1.0	13.3	10·0	6.3	9·5	64	+3	1.6	+0.3	2·0	0	0	14	1	2	1	3	4	0	0	3	17	0
	1130	,,	1018·4	994.5	..	21.1	13.7	6·3	9.7	40	..	1.4	..	7·9	0	0	31	5	5	6	1	6	0	1	7	0	0
	1730	,,	1015·3	991.5	..	21.4	14.3	7·4	10.3	42	..	1.9	..	3·9	0	0	26	9	12	0	1	1	0	0	3	5	0
	2330	,,	1017·9	993·1	..	11·6	9·3	6·8	9.9	73	..	1·2	..	2.0	0	0	10	1	0	0	2	3	1	1	2	21	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Km Mean wind speed per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Shoepur	0830	235	1018·6	990·7	+0·1	13·3	10·6	7·8	10·7	70	0	1·8	−0·2	3·9	0	0	20	5	3	1	2	4	2	0	3	11	0
	1730	,,	1014·6	987·8	..	22·9	15·8	9·7	12·2	44	.	2·2	..	6·8	0	1	26	9	4	0	2	0	2	4	6	4	0
Shivpuri	0830	464	1018·6	964·8	.	15·5	11·0	6·4	9·5	57	..	2·2	..	4·1	0	0	25	1	3	6	2	7	4	0	1	6	1
	1730	,,	1014·6	962·0	..	21·3	14·3	8·5	11·1	46	..	2·3	..	3·2	0	0	23	2	8	2	2	1	1	1	6	8	0
Nowgong	0830	229	1019·0	991·8	+0·1	12·8	11·3	9·8	12·1	83	+7	2·6	+1·1	1·6	0	0	15	1	1	3	0	3	7	0	0	16	0
	1730	,,	1015·1	988·9	.	22·6	16·1	10·8	12·9	50	..	2·2	..	1·4	0	0	13	3	7	1	0	2	0	0	0	18	0
Guna	0530	478	1017·2	961·0	..	10·9	9·1	7·3	10·2	79	..	2·0	..	3·0	0	0	19	1	4	2	9	2	0	1	0	12	0
	0830	,,	1018·4	963·1	+0·2	16·0	12·0	8·3	10·9	61	−5	2·4	+1·0	4·2	0	0	28	2	2	8	13	2	0	1	0	3	0
	1130	,,	1016·9	963·0	..	23·3	15·8	10·1	12·5	45	..	2·5	..	8·5	0	0	31	6	3	9	6	2	1	3	1	0	0
	1730	,,	1014·1	960·2	..	22·3	15·4	10·2	12·4	47	..	2·5	..	5·5	0	0	31	5	7	6	2	1	0	2	8	0	0
	2330	,,	1017·5	961·8	..	14·0	11·0	8·3	10·9	70	..	0·9	..	4·7	0	0	26	6	6	4	7	1	0	1	1	5	0
Nimach	0830	496	1018·8	961·3	+0·2	14·9	11·3	7·7	10·8	63	+10	2·3	+0·9	4·8	0	0	27	0	15	9	2	0	0	0	1	4	0
	1730	,,	1014·4	958·7	..	23·3	15·1	8·4	11·0	40	..	2·1	..	2·7	0	0	20	1	12	3	1	0	1	1	1	11	0
Rajgarh	0830	382	1017·5	973·4	..	14·4	11·3	8·3	10·9	66	..	1·9	..	2·7	0	0	23	4	0	8	0	11	0	0	0	8	0
	1730	,,	1013·6	970·2	..	24·0	15·9	9·0	11·5	39	..	1·6	..	2·7	0	0	23	9	0	7	0	11	0	0	0	4	0
Sagar	0830	551	1018·2	955·0	+0·3	17·0	12·4	7·9	10·7	58	+8	2·4	+1·0	4·8	0	1	23	0	6	9	3	0	3	3	0	7	0
	1730	,,	1014·1	952·2	..	21·5	14·2	8·2	10·9	45	..	2·4	..	1·4	0	0	12	0	5	5	0	0	0	1	1	19	0
Ratlam	0830	486	1018·2	961·7	+0·3	15·9	12·0	8·4	11·2	62	−2	1·9	0	9·7	0	1	27	1	12	12	3	0	0	0	0	3	0
	1730	,,	1013·0	958·8	..	24·5	16·4	10·3	12·8	43	.	3·5	.	8·0	0	0	30	3	11	9	0	0	2	1	4	1	.
Bhopal (Bairagarh)	0230	523	1016·2	955·8	..	14·7	11·7	8·9	11·5	70		2·8	..	6·1	0	0	26	3	7	7	3	4	0	0	2	5	0
	0530	,,	1016·6	955·9	..	13·2	11·0	8·8	11·5	75	..	3·2	..	6·9	0	0	28	3	8	4	6	3	2	0	2	3	.
	0830	,,	1018·2	958·0	+0·1	16·4	12·7	9·4	12·0	65	+5	2·6	+1·9	7·8	0	0	27	2	7	6	9	3	0	0	0	4	.
	1130	,,	1016·8	957·8	..	22·5	15·3	9·4	12·2	46	..	2·9	..	11·7	0	1	29	1	7	4	11	4	2	1	0	1	0
	1730	,,	1013·8	955·4	..	22·7	15·2	9·1	11·8	44	..	3·7	..	8·6	0	0	30	2	12	5	4	2	1	2	2	1	0
	2330	,,	1016·9	956·7	..	16·2	12·6	9·4	11·9	65	..	3·0	..	8·9	0	1	28	3	9	3	6	5	2	1	0	2	0
Ujjain	0830	..	..	..	..	15·7	12·4	9·5	12·0	68	..	1·9	..	5·0	0	1	16	1	4	4	5	3	0	0	0	14	0
Narsinghpur	0830	356	1018·7	977·1	..	15·5	13·4	11·6	13·6	76	..	2·1	..	6·4	0	0	26	4	9	6	7	0	0	0	0	5	0
	1730	,,	1013·7	973·5	..	24·2	17·3	12·1	14·1	48	..	1·3	..	3·3	0	0	22	9	1	7	0	1	0	4	0	9	0
Hoshangabad	0830	302	1018·4	983·0	−0·1	15·7	13·7	11·9	14·1	79	+19	2·0 (a)	+0·6	5·6 (a)	0	0	30	1	5	15	8	0	1	0	0	1	0
	1730	,,	1013·7	979·5	..	24·3	18·2	13·8	15·9	53	..	2·6	..	3·3	0	0	25	2	11	4	3	0	4	1	0	5	0
Indore	0530	567	1016·2	950·6	..	13·0	11·0	9·1	11·7	78	..	1·9	..	4·7	0	1	24	0	7	6	5	2	4	0	0	6	1
	0830	,,	1017·8	952·6	−0·1	15·8	12·7	10·0	12·3	70	+18	1·5	+0·1	6·2	0	0	28	0	6	6	7	6	2	1	0	3	0
	1130	,,	1016·1	952·7	..	23·0	15·6	9·8	12·3	44	..	2·1	..	11·5	0	4	27	1	2	9	10	4	2	0	0	0	3
	1730	,,	1013·1	949·8	..	23·1	15·6	9·9	12·2	45	..	2·6	..	6·8	0	0	27	3	9	7	3	1	3	1	0	4	0
	2330	,,	1016·5	951·3	..	15·5	12·6	10·1	12·5	70	..	2·2	..	5·2	0	1	23	2	8	3	3	6	2	0	0	7	0
Rajpur (Jhabua)	0830	293	1017·7	983·4	..	15·6	13·3	11·1	13·4	75	..	2·0	..	1·6	0	0	13	0	1	12	0	0	0	0	0	18	.
	1730	,,	1013·2	979·9	..	26·8	18·5	12·1	14·5	43	..	2·7	..	4·4	0	0	23	2	9	1	3	1	0	5	2	8	0
Chhindwara	0830	685	1018·6	940·1	+0·5	14·5	12·7	11·1	13·4	81	+16	2·7	+1·3	1·2	0	0	9	1	5	0	0	0	1	0	2	22	0
	1730	,,	1013·6	937·1	..	21·1	15·6	11·3	13·7	56	..	3·5	..	3·7	0	0	26	0	8	4	4	6	2	1	1	5	0
Seoni	0830	619	1018·5	947·7	+0·7	15·9	13·2	11·0	13·2	74	+14	3·8	+2·4	2·3	0	0	24	4	4	1	2	2	2	5	4	7	0
	1730	,,	1014·1	44·7	..	21·0	16·0	12·4	14·7	60	.	4·1	..	3·0	0	0	29	0	5	5	10	2	4	1	2	2	.
Betul	0830	653	1018·3	943·7	+0·4	16·2	13·6	11·5	13·7	74	+10	3·2	+1·7	3·5	0	0	27	0	3	10	13	1	0	0	0	4	0
	1730	,,	1013·0	940·7	..	21·6	16·1	12·0	14·3	56	..	3·5	..	5·0	0	0	29	5	17	2	3	0	0	1	1	2	0
Khandwa	0830	318	1017·9	980·9	+0·5	17·1	15·0	13·3	15·4	79	+19	3·5	+2·1	2·1	0	0	28	3	10	1	9	5	0	0	0	3	0
	1930	,,	1013·2	977·3	..	25·2	18·8	14·3	16·5	52	..	3·3	..	2·5	0	0	27	8	9	1	4	5	0	0	0	4	0
Madhya Pradesh (East) Satna	0530	317	1017·0	979·4	..	11·4	10·2	8·9	11·5	85	..	1·5	..	0·6	0	0	6	0	0	1	0	0	0	5	0	25	0
	0830	,,	1018·7	981·4	+0·1	13·9	11·7	9·3	12·2	74	+8	1·9	+0·5	0·8	0	0	12	0	0	4	0	0	2	4	2	19	0
	1130	,,	1017·2	981·1	..	21·7	14·8	8·2	11·2	45	..	2·3	..	2·5	0	0	22	6	1	3	0	0	5	5	2	9	0
	1730	,,	1014·9	978·5	..	20·7	15·2	10·4	13·3	54	..	2·4	..	1·5	0	0	19	13	0	1	0	1	0	3	1	12	0
	2330	,,	1017·1	979·9	..	14·8	12·4	10·0	12·4	74	..	1·4	..	0·2	0	0	2	0	0	2	0	0	0	0	0	29	0
Sidhi	0830	..	..	..	..	14·4	12·0	9·7	12·1	74	..	0·9	.	0·1	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	..	..	..	..	21·2	15·2	9·9	12·4	50	.	1·4	..	1·0	0	0	11	4	3	0	0	0	0	2	2	20	0
Umaria	0830	459	1018·8	965·4	..	14·8	12·7	10·9	13·2	78	+11	2·6	+0·8	1·5	0	0	18	1	1	9	4	2	0	1	0	13	0
	1730	,,	1014·2	962·2	..	21·1	16·1	12·6	14·7	60	..	2·7	..	0·8	0	0	11	6	1	3	0	0	0	0	1	20	0
Jabalpur	0530	393	1016·8	970·7	..	12·4	11·7	11·1	13·2	92	..	2·2	..	0·3	0	0	2	0	0	1	1	0	0	0	0	29	0
	0830	,,	1018·6	972·9	+0·5	15·3	13·3	11·5	13·7	79	+6	2·8	+1·5	2·3	0	0	19	0	3	1	12	3	0	0	0	12	.
	1130	,,	1016·8	972·3	..	22·6	16·7	12·1	14·2	53	..	2·8	.	3·0	0	0	23	5	1	1	9	4	1	0	2	8	.
		,,	1014·2	969·7	..	21·8	16·5	12·4	14·5	57	..	3·1	..	1·0	0	0	10	1	6	1	1	1	0	0	0	21	0
		,,	1016·9	971·1	..	15·1	13·6	12·2	14·4	84	..	2·0	..	1·2	0	0	8	0	1	1	4	1	0	0	1	23	0

(a) Mean of 30 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in 8 p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km. p.h.): Mean wind speed Kms per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(Contd.)																												
Ambikapur	0830	611	1019·5	948·9	+0.5	13·2	11.9	10·9	13.0	86	+11	2·6	+1·7	1·9	0	0	13	2	4	1	1	1	3	1	0	18	0
	1730	,,	1014·5	945·8	..	20·3	15.6	12·3	14·3	60	..	2·1	..	4·9	0	0	30	23	3	1	0	1	0	0	2	1	0
Pendra	0530	625	1017·2	945·2	..	13·0	11.1	9·2	11·7	78	..	2·5	..	5·7	0	1	24	6	2	0	1	3	4	6	3	6	0
	0830	,,	1018·9	947 4	+0·5	15.8	12·9	10·4	12·8	71	+7	2 8	+1·2	4 6	0	0	24	7	3	1	0	2	2	3	6	7	0
	1130	,,	1017·1	947·0	..	21·0	15·0	9·9	12·7	51	..	3·0	..	6·8	0	0	31	8	5	2	0	4	6	2	4	0	0
	1730	,,	1014·8	944·6	..	20·0	14·9	11·0	13·2	57	..	3·7	..	5·4	0	0	30	12	2	0	1	5	4	1	5	1	0
	2330	,,	1017·6	946·0	..	14·9	12.4	10·1	12·3	74	..	2.2	..	4·9	0	0	29	4	0	0	0	3	6	6	10	2	0
Mandla	0830	443	1019·2	967·5	+0.3	13·4	12·5	11·8	13·7	91	+7	3.5	+2·0	0·3	0	0	2	1	1	0	0	0	0	0	0	29	0
	1730	,,	1014·2	964·1	..	21·4	16·4	12·4	14·6	58	..	3·4	..	0.6	0	0	5	2	1	0	0	0	0	0	2	26	0
Champa	0830	245	1018·5	989.8	+0 6	17·3	14.7	12·7	14·7	76	+6	2·7	+1·0	3·4	0	0	26	16	1	1	0	0	0	0	8	5	0
	1730	,,	1014·4	986·6	..	23·6	17.3	12.6	14·7	51	..	3·1	..	2·5	0	0	26	16	1	2	0	0	0	0	7	5	0
Raigarh	0830	220	1017·9	992·2	+0·1	18·6	14·8	11·6	13·7	64	0	2·3	+0·9	2.1	0	0	24	3	13	7	1	0	0	0	0	7	0
	1730	,,	1013·4	988·3	..	24·2	17·2	11·8	13.9	46	..	3·0	..	0.8	0	0	12	3	7	1	1	0	0	0	0	19	0
Raipur	0530	298	1016 4	981 5	..	15·3	14·0	12·9	14·9	86	..	3·0	..	1.5	0	0	13	3	1	1	0	4	1	0	1	18	2
	0830	,,	1018·4	983·8	+0·7	18·3	15.4	13·1	15·2	73	+9	3.1	+1·9	2.8	0	0	21	7	5	5	0	1	0	0	1	10	2
	1130	,	1016 8	983·0	..	24·1	17.5	12·4	14·9	49	..	3·0	..	4·7	0	0	26	2	10	7	2	2	1	0	0	5	2
	1730	,,	1014·4	980·5	..	23.4	17·5	13.0	15·3	54	..	3·5	..	3·5	0	0	24	12	7	2	1	2	0	0	0	7	0
	2330	,,	1016·5	982·0	..	18·3	15·4	13.1	15 2	73	..	2·0	..	3.2	0	0	22	5	8	3	3	0	1	1	1	9	0
Kanker	0830	402	1018·1	971·9	+0·7	17·9	15·2	13·0	15·1	74	−1	2·9	+1·2	0·3	0	0	4	0	1	0	2	0	0	0	1	27	0
	1730	,,	1013·6	968·5	..	24·1	17·6	12 7	14·9	50	..	3·2	..	1·5	0	0	21	0	17	2	0	0	1	1	0	10	0
Jagdalpur	0530	553	1016·1	952·4	..	13·4	12·7	12·2	14·1	93	..	1.9	..	0·2	0	0	1	0	1	0	0	0	0	0	0	30	0
	0830	,,	1018.0	954.7	+0·6	16·5	14·5	13.1	15·1	80	−1	3·2	+1·0	0.7	0	0	8	1	4	0	2	1	0	0	0	23	0
	1130	,,	1015 2	953·5	..	23·5	16·9	12.3	14·5	50	..	3·1	..	5.7	0	0	30	4	10	9	3	2	0	0	2	1	0
	1730	,	1013·0	951·3	..	22·4	17·2	13·6	15·6	58	..	3.4	..	1.2	0	0	8	3	3	0	0	0	1	0	1	23	0
	2330	,,	1016·2	953·0	..	16·0	14·4	13·3	15 3	84	..	1·3	..	0·3	0	0	3	0	0	0	1	0	1	0	1	28	0
Gujarat Region																												
Deesa	0830	136	1017·3	1001·1	+0 2	14·7	11·0	7·0	10 1	61	..	1·0	..	4·8	0	0	30	4	13	9	2	0	0	0	2	1	0
	1730	,,	1013·6	998.2	..	26·9	17·1	8·8	11·5	33	..	1 5	..	4·0	0	0	29	6	3	1	1	5	2	3	8	2	0
Radhanpur	0830	30	1017·0	1013·4	..	15·2	13·1	11·3	13·4	78	..	0	..	4·3	0	0	27	3	20	1	1	0	0	0	2	4	0
	1730	,,	1013 8	1010·4	..	26·7	21.3	18.1	21·0	59	..	0	..	3·4	0	0	24	0	6	0	2	0	0	1	15	7	0
Idar	0830	219	1016·6	991·2	..	19·6	13.4	7.0	10·4	46	..	1.3	..	7·1	0	0	23	1	14	5	1	0	0	0	2	8	0
	1730	,,	1012·8	988·0	..	26·3	16·7	8.6	11·2	33	..	1 7	..	2·0	0	0	19	0	3	6	0	0	1	8	1	12	0
Ahmedabad	0230	55	1014·6	1008·1	.	16.0	12·5	9·1	11·7	65	..	0.7	..	5·8	0	0	22	3	11	5	0	0	0	0	3	9	0
	0530	,,	1014·6	1008·0	.	14·7	11 8	9.0	11·5	68	..	0·7	..	6·9	0	0	24	4	8	8	1	0	0	0	3	7	0
	0830	,,	1016·5	1010·0	−0.3	17.1	13.0	9·0	11.7	60	0	1·5	+0·5	9 1	0	3	23	3	4	17	2	0	0	0	0	5	0
	1130	,,	1016·6	1010 3	..	25·9	17 3	10·5	12·8	39	..	1·2	..	13·4	0	5	25	1	0	19	9	0	0	0	1	1	0
	1730	,,	1013·1	1006·8	..	27.7	17.4	8·9	11·5	31	..	1·9	..	7·5	0	0	28	6	4	5	3	1	0	3	6	3	0
	2330	,,	1015·3	1008·8	..	18.1	13·5	9.2	11.7	57	..	0.5	..	5·7	0	1	19	8	4	2	1	1	0	0	4	11	0
Dohad	0830	333	1017·1	978·3	—0.1	16·5	12.8	9.3	11·8	63	+3	1.5	+0.1	5·5	0	0	30	0	4	14	6	3	3	0	0	1	0
	1730	,,	1012·6	975·2	..	26·3	16·8	8.6	11.4	34	..	0·9	..	5·3	0	0	28	3	4	3	3	4	7	1	3	3	0
Baroda Aerodrome	0830	38	1016 2	1011·7	..	18·2	14 4	11·3	13·3	68	..	1·5	..	6·9	0	0	28	11	10	2	3	0	0	0	1	3	1
	1130	,,	1016·4	1012·0	..	26·7	18·3	12·0	14.1	41	..	1·3	..	9·5	0	1	29	3	8	6	7	0	2	0	4	1	0
	1730	,,	1012·7	1008.4	..	27·7	18·5	11.8	13·7	37	..	2·1	..	7·6	0	0	28	5	7	1	1	0	1	1	12	3	0
Baroda	0530	34	1014·4	1010·2	..	16·0	14·4	13.1	15·1	83	..	0·5	..	0·2	0	0	2	0	2	0	0	0	0	0	0	29	0
	0830	,,	1016.4	1012.2	+0.3	16·9	14·8	13.2	15·1	79	+6	1·4	+0·4	0·6	0	0	7	0	6	1	0	0	0	0	0	24	0
	1130	,,	1016·5	1012.4	..	27·3	19·8	14·7	16·9	47	..	1.3	..	1·2	0	0	12	0	3	3	6	0	0	0	0	19	0
	1730	,,	1012·9	1009 0	..	28·6	20·9	16.1	18.4	47	..	1·6	..	0 9	0	0	9	2	3	0	1	0	0	1	2	22	0
	2330	,,	1015·2	1011.1	..	19·2	16·4	14.2	16·4	74	..	0.9	..	0 2	0	0	3	0	1	1	0	0	0	0	1	28	0
Broach	0830	17	1015·4	1013.3	—0·3	16·6	13·8	11.5	14·3	72	+6	1·9	+0·7	3·1	0	0	31	1	10	7	6	1	0	0	6	0	0
	1730	,,	1012·0	1010·0	..	30·0	19 6	12·2	14·1	34	..	2·0	..	4·5	0	0	31	1	13	3	8	0	0	1	5	0	0
Surat	0530	12	1013·7	1012·3	..	18·0	15·3	13·1	15.2	73	..	0·4	..	6·6	0	0	28	5	13	7	3	0	0	0	0	3	0
	0830	,,	1015·9	1014·5	+0·3	19·4	15·8	13.1	15·1	67	+9	1·6	+0·3	6.9	0	0	31	6	18	7	0	0	0	0	0	0	0
	1130	,,	1015·9	1014·5	..	28·7	20·5	15.2	17·4	44	..	1·8	..	7·4	0	0	31	4	14	10	1	0	0	0	2	0	0
	1730	,,	1012·6	1011.2	..	28·5	20·8	15.9	18·3	47	..	2·1	..	6·7	0	1	27	2	6	2	0	0	6	2	10	3	0
	2330	,,	1014.8	1013·4	..	21·3	17·5	14·7	16.9	67	..	1·3	..	7·5	0	0	29	12	10	5	1	1	0	0	0	2	0
Saurashtra and Kutch																												
Bhutakia Bhimasar	0830	47									..		..														
(R)	1730	,,									..		..														
Naliya	0830	21	1017·2	1014·6	..	12·4	9·6	5·2	9·7	66	..	1·0	..	1·9	0	1	5	1	5	0	0	0	0	0	0	25	0
	1730	,,	1014·0	1011·6	..	25·7	15·4	4.6	9.1	28	..	1·1	..	7.9	0	1	27	4	14	0	0	0	2	4	4	3	

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed per hour Km.	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch – (*Contd.*)																											
Bhuj (Rudramata)	0230	80	1015·8	1006·1	..	14·1	9·8	4·5	8·7	54	..	0·5	..	1·6	0	0	8	3	1	0	0	0	2	0	2	23	0
	0530	,,	1015·5	1005·9	..	12·0	8·9	4·9	8·9	63	..	0·4	..	2·6	0	0	12	6	0	0	0	0	3	1	2	19	0
	0830	,,	1017·3	1007·7	+0·3	13·7	9·9	5·2	9·1	58	+9	1·0	−0·1	1·4	0	0	6	1	1	0	1	0	2	1	0	25	0
	1130	,,	1017·3	1008·1	..	22·3	13·7	3·8	8·8	33	..	1·2	..	9·2	0	2	24	8	15	1	1	0	0	1	0	5	0
	1730	,,	1013·9	1004·8	..	25·8	14·7	2·1	7·7	24	..	1·2	..	12·6	0	3	26	7	16	1	1	0	0	2	2	2	0
	2330	,,	1016·4	1006·8	..	16·9	11·4	4·3	9·0	47	..	0·4	..	5·1	0	0	17	12	0	1	0	0	0	2	2	14	0
Kandla (Aerodrome)	0830	35	1017·5	1013·3		16·6	11·1	4·3	8·9	46	..	0·8	..	14·5 (b)	0	4	23	11	0	0	0	0	0	2	16	2	0
	1130	,,	1017·6	1013·5	..	24·1	14·5	4·0	8·7	30	..	1·1	..	18·1 (b)	0	9	20	13	9	3	0	0	1	2	3	0	0
	*1730	,,	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..
New Kandla	0830	14	1017·4	1015·7	..	16·5	11·9	6·6	10·1	54	..	1·1	..	12·3	0	3	26	17	2	0	0	0	1	0	9	2	0
	1730	,,	1014·5	1012·8	..	24·8	17·1	10·7	13·2	42	..	1·5	..	13·5	0	6	22	16	6	0	1	2	1	1	1	3	0
Mandvi	0830	9	1016·7	1015·6	−0·2	17·0	12·4	7·5	10·7	55	−9	1·4	−0·4	11·8	0	1	28	3	23	1	0	0	0	0	2	2	0
	1730	,,	1013·9	1012·8	..	24·3	19·5	16·3	18·8	63	..	1·4	..	11·3	0	2	29	3	4	0	3	2	14	0	0	0	5
Surendranagar	0830	74	1016·8	1008·0	+0·2	17·2	12·6	7·7	10·9	56	+3	1·3	−0·1	6·6	0	0	29	11	6	2	0	0	0	4	6	2	0
	1730	,,	1013·0	1004·5	..	28·1	18·2	10·3	12·9	34	..	1·6	..	6·8	0	1	26	10	8	0	1	0	1	1	5	4	1
Okha	†0530	7	1015·1	1014·3	..	20·9	18·4	10·8	19·1	78	..	0·7	..	20·8	0	9	10	6	9	2	0	0	0	1	1	0	0
	§0330	,,	1016·8	1016·0	..	21·3	18·7	16·9	19·5	76	..	1·3	..	19·9	0	10	10	3	9	6	0	0	0	0	2	0	0
	§1130	,,	1017·6	1016·8	..	23·1	19·8	17·7	20·5	72	.	1·2	.	16·9	0	7	13	1	9	8	0	0	0	0	2	0	0
	§1730	,,	1014·5	1013·6	.	23·7	20·7	18·9	22·0	76	.	1·2	.	13·7	0	3	17	2	2	3	0	0	0	2	11	0	0
	§2330	,,	1016·3	1015·5	..	22·4	19·7	17·9	20·8	77	..	0·6	.	22·4	0	12	8	6	8	1	0	0	0	2	3	0	0
Jamnagar (Aerodrome)	0530	23	1014·9	1012·2	..	15·2	12·0	8·6	11·5	66	..	0·5	..	9·6	0	5	25	0	13	5	5	3	2	2	0	1	0
	0830	,,	1016·8	1014·1	+0·1	15·5	12·0	8·4	11·2	64	+3	0·9	−0·1	6·7	0	1	25	0	5	7	9	4	1	0	0	5	0
	1130	,,	1017·1	1014·5	..	22·7	15·8	10·0	12·3	45	..	1·1	..	15·3	0	9	21	1	23	2	0	0	0	0	4	1	0
	1730	,,	1013·6	1011·0	..	25·1	16·4	8·7	11·6	36	..	1·1	..	17·5	0	10	21	17	7	0	0	0	0	3	4	0	0
	2330	,,	1015·8	1013·1	..	19·3	15·5	12·5	14·5	64	..	0·6	..	10·0	0	0	31	10	10	0	0	1	2	3	5	0	0
Dwarka	0830	11	1016·6	1015·3	0	18·2	15·9	14·0	16·0	77	+13	0·5	−1·0	10·5	0	1	30	14	11	5	0	0	0	0	1	0	0
	1730	,,	1013·9	1012·6	.	25·0	19·6	15·9	18·4	59	..	0·7	..	16·9	0	8	23	13	3	1	0	0	0	3	11	0	0
Rajkot	0830	138	1016·6	1000·5	−0·1	16·7	12·1	6·9	10·4	55	+2	0·5	−0·7	3·8	0	1	12	4	5	0	1	1	0	0	2	18	0
	1130	,,	1016·3	1000·7	..	25·6	17·0	9·6	12·4	39	..	0·8	.	11·9	0	6	24	8	16	2	2	1	0	0	1	1	0
	1730	,,	1012·8	997·2		27·7	17·3	8·3	10·9	31	..	0·8	..	12·4	0	5	25	14	6	1	2	0	0	0	7	1	0
Bhavnagar Aerodrome	0830	11	1016·2	1015·0	0	17·8	13·1	8·2	11·2	55	+12	1·5	+0·1	10·5	0	4	25	3	1	0	0	0	0	1	10	2	14
	1130	,,	1016·5	1015·3		24·8	18·6	14·0	16·4	53	..	1·4	..	14·6	0	7	24	8	11	5	1	0	0	0	2	0	4
	1130	,,	1013·0	1011·8		27·2	19·7	14·7	16·8	47	..	2·1	..	15·4	0	6	25	4	13	7	3	2	0	0	1	0	1
Porbander Aerodrome	0830	7	1016·3	1015·5	+0·2	19·1	13·3	7·2	10·7	50	−12	1·1	−0·4	9·5	0	3	24	4	7	7	3	0	1	0	5	4	0
	1730	,,	1016·6	1015·8		27·2	16·5	6·5	10·1	29	..	1·5	..	14·1	0	8	23	2	13	8	3	0	1	0	2	0	2
	1730	,,	1013·2	1012·4		27·2	17·6	9·2	12·3	36	..	1·3	..	16·7	0	10	21	7	6	0	0	0	0	12	6	0	0
Keshod	0830	51	1016·4	1010·3		17·3	11·6	4·7	9·1	47	..	0·9	..	11·6	0	3	28	7	15	9	0	0	0	0	0	0	0
	1130	,,	1016·4	1010·5	.	26·5	15·9	5·6	9·5	28	..	0·8	..	14·0	0	6	25	10	13	6	1	0	0	0	1	0	0
	1730	,,	1012·6	1006·8	..	29·3	17·0	5·4	9·4	24	..	1·0	..	17·8	0	13	18	11	7	1	0	0	2	6	3	0	1
Mahuva	0830	9	1014·6	1013·6	..	19·5	13·8	8·0	11·2	50	..	1·9	..	4·0	0	0	30	12	13	1	0	1	0	1	2	1	0
	1730	,,	1012·0	1011·0	..	27·0	20·3	15·9	18·4	52	..	1·0	..	4·1	0	0	30	0	1	10	16	3	0	0	0	1	0
Veraval	0230	8	1014·0	1013·1	..	18·7	14·2	10·0	12·5	59	..	0·5	..	12·1	0	3	28	15	16	0	0	0	0	0	0	0	0
	0530	,,	1013·7	1012·8	..	17·7	13·1	8·5	11·4	57	..	1·1	.	14·1	0	6	25	11	18	1	0	0	0	0	1	0	1
	0830	,,	1015·6	1014·7	0	19·7	14·1	8·7	11·5	51	+2	1·6	+0·4	15·1	0	8	23	10	19	0	0	0	0	0	1	0	1
	1130	,,	1015·9	1015·0	..	28·4	18·4	10·3	13·0	35	..	1·4	..	14·9	0	7	24	8	14	2	1	0	2	0	4	0	0
	1730	,,	1012·6	1011·7	..	26·2	21·2	18·1	21·1	6	..	1·9	..	17·2	0	13	18	2	1	0	2	5	4	7	10	0	0
	2330	,,	1015·0	1014·1	..	20·1	15·7	11·9	14·3	62	..	0·9	..	9·5	0	0	30	20	9	0	0	0	0	0	1	1	0
Konkan																											
Dahanu	0830	5	1014·7	1014·2	+0·3	20·8	17·5	15·2	17·4	71	+2	3·3	+1·7	7·3	0	0	30	0	2	19	9	0	0	0	0	1	0
	1730	,,	1011·9	1011·4	..	26·7	21·8	19·0	22·1	63	..	2·9	..	17·2	0	9	22	23	0	1	0	0	0	3	4	0	0
Bombay (Santa Cruz)	0230	14	1013·0	1011·3	..	20·8	18·5	17·0	19·5	79	..	1·6	..	2·5	0	0	12	0	3	8	1	0	0	0	0	19	0
	0530	,,	1012·9	1011·2	..	20·1	17·9	16·4	18·8	80	..	1·4	..	5·5	0	2	18	0	4	11	4	1	0	0	0	11	0
	0830	,,	1014·8	1013·1	−0·1	23·1	18·9	16·3	18·5	68	+3	2·5	+1·1	7·5	0	1	25	0	1	19	4	1	1	0	0	5	0
	1130	,,	1014·9	1013·2	..	28·6	20·6	15·3	17·7	46	..	2·6	.	9·2	0	0	30	0	3	15	9	1	0	2	0	1	0
	1730	,,	1011·9	1010·3	..	27·6	21·4	17·7	20·4	56	..	2·5	..	11·4	0	0	31	4	1	0	0	0	2	2	22	0	0
	2330	,,	1014·1	1012·4	..	22·1	19·3	17·5	22·5	76	..	1·5	..	3·1	0	0	15	0	4	4	3	2	1	1	0	16	0
Bombay	0830	11	1014·7	1013·5	−0·1	23·3	20·8	19·4	22·5	79	+9	2·5	+1·1	6·0	0	0	31	0	10	15	4	1	1	0	0	0	0
	1130	,,	1014·8	1013·6	..	27·9	22·5	19·5	22·8	61	..	2·5	..	3·5	0	0	27	0	10	12	3	0	0	1	1	4	0
	1730	,,	1011·9	1010·7	..	27·6	23·2	20·9	24·9	67	..	2·6	..	5·5	0	0	31	3	0	0	1	0	2	6	19	0	0
Alibag	0830	7	1014·5	1013·7	−0·1	22·0	19·6	18·0	20·9	78	+14	2·4	+0·6	5·1	0	0	29	5	5	4	5	5	0	2	3	2	0

*Data not available. (b) Mean of 29 days. †Observations for 19 days. Observations for 20 days.

Division and station	Hours of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. o nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations — Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—(Contd.) Bhi[illegible]	0830	95	1014·3	1003·3	..	22·7	17·8	14·0	16·1	62	..	2·8	..	5·5	0	1	21	4	8	2	4	1	1	1	1	9	0
	1730	..	1011·1	1009·3	..	27·1	21·5	17·9	20·8	58	..	3·0	..	1·5	0	0	19	0	2	4	4	3	6	0	0	12	0
Harnai	0830	20	1011·2	1011·9	+0·5	23·9	19·6	16·5	19·3	63	+7	3·2	+1·3	8·7	0	5	24	2	6	14	5	2	0	0	0	2	0
	1730	..	1011·5	1009·2	..	27·1	22·4	19·6	22·9	63	..	3·2	..	16·7	0	12	19	1	0	0	1	3	0	5	21	0	0
[illegible]	0830	35	1011·1	1010·0	0	22·9	19·2	16·6	19·3	70	..	2·8	..	9·5	0	1	29	0	3	12	14	1	0	0	0	1	0
	1730	,,	1011·3	1007·2	..	27·8	22·4	19·3	22·7	61	..	3·1	..	7·2	0	1	30	6	2	1	2	1	0	3	16	0	0
De[illegible]	0830	36	1011·0	1009.9	0·4	23·0	20·0	18·1	20·9	75	+8	3·1	+1·1	9·4	0	2	29	0	3	25	3	0	0	0	0	0	0
	1730	..	1011·0	1007·0	..	28·0	23·2	20·7	24·6	66	..	3·3	..	16·5	0	8	23	0	1	2	2	2	0	5	19	0	0
[illegible]	0230	9	1012·4	1011·4	..	21·5	20·3	19·6	22·9	89	..	2·4	..	1·8	0	0	9	7	0	0	2	0	0	0	0	22	0
	0530		1012·3	1011·3	.	20·3	19·5	19·0	22·1	92	..	2·4	..	2.1	0	0	11	9	1	0	1	0	0	0	0	20	0
	0830	..	1014·5	1013·5	+0·4	21·7	19·8	18·7	21·6	84	+12	3·0	+1·4	2·5	0	0	18	10	2	0	2	1	0	3	0	13	0
	1130	.	1014·3	1013·3	..	28·6	21.7	17·4	20·2	53	.	2·6	..	6 3	0	0	29	3	7	11	3	3	1	0	1	2	0
	1730	..	1011·1	1010·4	.	27·8	23·1	20·6	21·4	66	..	3·3	..	4·9	0	0	29	1	0	2	0	2	4	19	1	2	0
	2330	.	1013·7	1012·7	.	22·3	20·9	20·2	23·5	88	..	2·4	..	2·7	0	0	17	11	2	2	1	0	0	0	1	14	0
Madhya Maharashtra Nandurbar	0830	295	1016·9	993·1	..	20·7	17·1	14·4	16·6	68	..	1·5	..	10.3	0	2	29	1	2	28	0	0	0	0	0	0	0
	1730	..	1012·1	988·8	.	27·1	20·3	16·0	18·4	52	..	1·7	..	3·7	0	0	25	6	4	14	0	0	0	0	1	6	0
Jalgaon	0830	201	1017.9	991·2	+1·2	16·4	14·5	12·8	15.0	80	+17	3.1	+1.6	9.8	0	1	30	0	1	28	2	0	0	0	0	0	0
	1730	..	1012·4	990·6	..	26·4	19·1	13·7	16·3	48	..	3.1	..	7.5	0	0	28	2	6	19	0	1	0	0	0	3	0
Malegaon	0830	437	1017·4	966·9	+0·2	16·5	14·1	12·0	14.1	76	+19	3·1	+1.5	3·2	0	0	24	4	1	1	0	2	2	7	7	7	0
	1730	,,	1012·1	963·8	..	25·9	17·7	10·9	13·6	41	..	3·5	..	7·1	0	1	26	0	7	8	3	5	3	1	0	4	0
[illegible]	0830	571	1017·6	952·2	..	16·4	14·4	12·8	15·0	80	..	2·8	..	5·1	0	0	21	14	2	3	0	2	0	0	0	10	0
	1730	,,	1012·1	949·2	..	25·6	17·6	12·0	14·3	44	..	3·2	..	7.2	0	0	27	2	7	8	4	1	3	2	0	4	0
A[illegible]ar	0830	657	1017·1	942·9	+0·6	17·5	15.0	13·1	15·3	76	+21	4·4	+3·0	2·6	0	0	19	1	0	2	3	8	1	3	1	12	0
	1730	.	1011·7	939·2	..	21·8	17·7	13·1	15.1	49	..	3.7	..	5·4	0	0	26	3	7	4	5	0	3	0	3	5	1
[illegible]	0230	593	1014·5	947·0	..	17·4	15·5	14·0	16·3	81	..	2·4	..	5·0	0	0	15	0	1	9	0	0	0	3	2	16	0
	0530	,,	1014·7	947·0	..	16·5	14·9	13·7	15·9	84	..	3·6	..	3 2	0	0	13	0	3	10	0	0	0	0	0	18	0
	0830	,,	1016·6	949·0	..	18·0	15·5	14·1	15·8	80	..	3·7	..	4·5	0	1	16	0	2	13	0	0	0	2	0	14	0
	1130	,,	1014·8	943·9	..	24·0	18·6	15·2	17·5	59	.	3·3	..	13·7	0	7	22	0	0	22	4	0	0	3	0	2	0
	1730	,,	1011·2	945·8	..	25·9	18·8	13·9	16·5	50	..	3·3	..	9·2	0	2	24	0	2	15	1	0	0	7	1	5	0
	2330	..	1015·2	[illegible]	..	18·7	16·1	14·1	16·1	75	..	2·1	..	5·2	0	2	15	0	1	12	1	0	0	1	2	14	0
Poona	0530	559	1014·6	951·6	..	15·7	14·4	13·5	15·5	87	..	2·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	..	1016.7	952·7	-0·1	16·5	15·0	13·8	16·0	84	+13	3·0	+1·6	0·4	0	0	3	0	2	1	0	0	0	0	0	28	0
	1130	..	1014·4	952·2	..	24·5	18·0	13.6	15·9	52	..	3·1	..	3·4	0	0	23	1	10	8	3	0	1	0	0	8	0
	1730	..	1010·7	949·0	..	26·0	18·1	12·8	15·0	45	..	3·0	..	0·9	0	0	8	0	5	1	1	0	1	0	0	23	0
	2330	,,	1015·0	951·5	..	18·4	15·8	14·0	16·0	76	..	1·9	..	0·2	0	0	2	0	0	0	0	0	1	1	0	29	0
Jeur	0830	521	1016·5	956·8	−0.1	17.2	14·4	12·7	14·4	76	+17	3·8	+2·2	2·1	0	0	15	2	3	5	2	2	1	0	0	16	0
	1730	,,	1010·9	953·4	..	26·3	17·8	11·5	14·1	41	..	3·6	..	5·7	0	0	29	1	7	6	9	2	1	1	2	2	0
Bara[illegible]	0830	551	1016·7	954·1	+0·3	18·4	15·5	13·4	15·5	75	+9	3·0	+1 6	3·2	0	0	30	4	2	11	8	2	1	1	1	1	0
	1730	,,	1011·1	950·4	..	26·3	17.8	12·1	14·1	43	..	3·0	..	6·3	0	0	31	1	2	12	9	4	2	1	0	0	0
Sholapur	0530	479	1015·2	960·2	..	16·7	14·7	13·1	15·3	80	..	3·2	.	4·2	0	0	23	1	3	13	5	1	0	0	0	8	0
	0830	,,	1016·9	962·3	+0.6	19·4	16·2	13·8	16·1	72	+19	3·3	+1·7	5·4	0	0	28	1	3	10	13	0	1	0	0	3	0
	1130	,,	1015·5	962·0	..	24·9	18·2	14·0	16·1	53	..	3·5	..	10·5	0	1	30	2	2	4	18	2	3	0	0	0	0
	1730	.	1011·7	958·5	..	26·6	18·3	12·6	15·0	44	..	3·4	..	7·2	0	0	31	3	4	5	16	1	2	0	0	0	0
	2330	.	1015 3	960.9	..	20·8	15·6	12·2	14·5	63	..	2·3	..	8·3	0	0	31	1	10	9	10	1	0	0	0	0	0
Mira[illegible]	0830	551	1016·1	953·3	+0.1	18·3	15·6	13·3	15.4	72	+12	3·5	+1·7	..	*0	0	13	*0	0	11	2	0	0	0	0	18	0
	1730	,,	1010·6	949·7	..	26·6	17·9	11·5	14·1	42	..	4·1	..	..	*0	0	17	*1	0	11	4	1	0	0	0	14	0
Kolhapur	0530	57[illegible]	1014·3	949·3	..	16·2	14·8	13·7	15·8	86	..	2·8	..	4·4	0	0	23	0	7	12	0	1	2	1	0	8	0
	0830	,,	1016 1	951.4	+0·4	18·2	15.8	13·9	16·2	77	+14	3·9	+2·7	5·7	0	1	26	0	9	16	0	0	1	1	0	4	0
	1130	,,	1014.4	951.0	..	24·1	18·5	14.8	17.1	59	..	3·8	..	12·1	0	4	26	1	4	23	1	0	1	0	0	1	0
	1730	,,	1010.4	947·7	..	25·9	18·5	13 5	15·9	49	..	3·5	..	8·2	0	0	31	2	4	14	2	1	2	4	2	0	0
	2330	,,	1014·6	950·2	..	19·2	16·1	13·8	16·0	72	..	2·4	..	6·8	0	0	26	0	0	13	5	0	4	3	1	5	0
Marathwada Aurangabad	0830	581	1017·4	951·4	+0 1	18·7	15·2	12·6	14·7	69	+16	3·3	+1·6	2·2	0	0	13	0	4	8	1	0	0	0	0	18	0
	1730	,,	1012·6	948.1	..	24·5	17·4	12 4	14·7	49	..	3·2	..	1·6	0	0	8	0	2	3	0	1	1	1	0	23	0
Aurangabad (*Chikalthana*)	0230	579	1015·5	948·9	..	14·4	13·3	12.3	14·5	88	..	1·6	..	1·2	0	0	3	0	1	1	1	0	0	0	0	28	0
	0530	,,	1015·9	948·9	..	13·3	12·5	11·8	13·8	90	..	2·5	..	1·2	0	0	4	0	0	4	0	0	0	0	0	27	0
	0830	,,	1017·1	951·1	..	17·8	15·6	14·0	16·0	79	..	3·1	..	3·6	0	0	10	0	0	7	2	0	0	1	0	21	0
	1130	,,	1015·7	951·0	..	23·0	19·2	17·0	19·5	70	..	3·1	..	10·7	0	1	27	0	0	12	15	0	1	0	0	3	0
	1730	,,	1012·2	947·9	..	24·0	19.8	17·5	19·6	68	..	3·5	..	4·1	0	0	12	0	0	6	4	1	1	0	0	19	0
	2330	,,	1016·3	949·9	..	15·5	14.2	13·2	15·3	86	..	1·9	..	1·6	0		5	1	0	3	0	1	0	0	0	26	0

*"Eastimated"

Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*Contd.*																											
Parbhani	0830	423	1017·6	968.8	+1.0	17.2	15.0	13.0	15.3	77	+19	3.1	+1.4	3.4	0	0	22	2	6	6	6	2	0	0	0	9	0
	1730	,,	1013.0	965.5	..	24.5	17.9	12.7	15·2	50	..	3·4	..	4.1	0	0	23	2	7	11	2	0	0	1	0	8	0
Nander	0830	358	1017·7	976.4	..	18.9	16·4	14·6	16 6	77	..	2·9	..	1·3	0	0	6	0	2	1	2	1	0	0	0	25	0
	1730	,,	1013·4	973·1	..	25·1	19.0	14·6	16.9	54	..	2·6	..	2·3	0	0	10	0	5	0	5	0	0	0	0	21	0
Bir	0830	519	1017·5	958·2	..	17·7	15·9	14.5	16·7	83	..	3·4	..	2·1	0	0	14	1	4	0	4	1	2	1	1	17	0
	1730	,,	1012·6	954·9	..	24·6	18.5	14.6	16.8	53	..	2·9	..	4·4	0	0	26	6	17	1	0	0	1	0	1	5	0
Vidarbha																											
Gondia	0830	313	1018·4	982·0	+0·5	17·2	15·1	13·6	15·6	79	+8	3·9	+2·5	1·8	0	0	17	7	3	1	1	2	2	0	0	14	1
	1730	,,	1014·2	978·7	..	23·7	17·3	12·2	14·2	51	..	3.3	..	1·4	0	0	18	7	6	0	1	0	1	1	2	13	0
Nagpur (Sonegaon)	0230	310	1015·7	979·4	..	15·1	14.0	13·1	15.1	85	..	2·5	..	3 6	0	0	22	9	1	1	0	0	0	0	11	9	0
	0530	,,	1016·0	979·6	..	14·0	13·3	12·7	14·7	92	..	2·8	..	2·8	0	0	19	9	0	1	0	0	0	0	9	12	0
	0830	,,	1018·1	982·0	+0·3	17·0	15·2	13·7	15·7	82	+20	3·0	+1·3	3·7	0	0	23	12	7	1	0	0	1	0	2	8	0
	1130	,,	1016·8	981·6	..	24·2	17·8	13·4	15·2	54	..	3·4	..	8·1	0	0	31	1	8	11	5	2	2	1	1	0	0
	1730	,,	1014·0	978·7	..	22·7	17·5	13·5	15·5	58	..	3·4	..	4·5	0	0	28	4	8	12	3	0	0	0	1	3	0
	2330	,,	1016·6	980·4	..	16·1	14·6	13·3	15·5	83	..	2·0	..	3·5	0	0	24	13	2	1	1	1	0	1	5	7	0
Amraoti	0830	370	1017·4	974·7	+0·1	18·5	15·2	12·2	14·5	68	+17	3·4	+1·8	4·2	0	0	31	3	10	18	0	0	0	0	0	0	0
	1730	,,	1012·3	970·7	..	24·2	17·3	11·7	14·1	48	..	2·7	..	3·1	0	0	29	3	3	10	7	2	2	1	1	2	0
Akola Aerodrome	0530	309	1015·5	979.3	..	14·9	13·4	12·0	14 3	83	..	3·4	..	4·3	0	0	24	1	8	10	3	2	0	0	0	7	0
	0830	,,	1016·8	980·9	..	17·8	15·0	12·7	14·8	73	..	3·6	..	5·2	0	0	29	1	14	6	4	2	0	2	0	2	0
	1130	,,	1016·1	980·9	..	23·6	17·6	12·9	15·3	54	..	3·4	..	5·2	0	0	29	4	7	9	6	2	0	0	1	2	0
	2330	,,	1013·0	977·9	..	24·0	17·5	12·3	14·7	51	..	3·2	..	3·9	0	0	24	7	9	5	1	2	0	0	0	7	0
	1730	,,	1015·4	981·5	..	18·0	14·7	11·7	14·1	68	..	1·7	..	4·9	0	0	25	0	4	13	4	2	1	1	0	6	0
Akola	0830	282	1017·7	984·8	+0·3	16·4	14·5	13·0	15·0	81	+24	3·4	+1·8	1·2	0	0	16	0	6	3	5	0	0	2	0	15	0
	1730	,,	1012·9	981·0	..	25·0	18·2	12·9	15.3	50	..	3·4	..	1.1	0	0	16	3	6	6	1	0	0	0	0	15	0
Bramhapuri	0830	229	1017·9	991·1	..	17·2	15·2	13·8	15·9	80	..	2·9	..	3·2	0	0	28	13	5	1	2	4	0	0	3	3	0
	1730	,,	1014·0	987·9	..	24·8	17·7	12·2	14·5	48	..	2·7	.	2.6	0	0	29	11	9	5	1	2	1	0	0	2	0
Buldhana	0830	650	1017·0	943·0	+0·3	16·6	14·1	12·1	14·1	75	+21	1·9	+0·4	0·5	0	0	6	0	6	0	0	0	0	0	0	25	0
	1730	,,	1012·4	940·6	..	25·1	16·3	9·6	11·9	37	..	3·2	..	0·3	0	0	4	0	3	0	0	0	0	1	0	27	0
Yeotmal	0830	441	1017·1	965·5	+0.2	19·0	15·4	12·6	14·6	67	+14	3·7	+1·9	8·4	0	0	31	3	8	12	5	2	1	0	0	0	0
	1730	,,	1013.4	962·5	..	23·1	16·9	11·2	13·3	51	..	3·5	..	6·6	0	0	30	6	11	7	2	2	0	1	1	1	0
Chanda	0830	193	1017·6	995·0	+0·1	17·6	15·9	14·6	16·7	83	+11	3·1	+1·6	3·7	0	0	23	5	5	3	5	0	0	0	5	8	0
	1730	,,	1013·6	991·6	..	24·5	19·0	15·3	17·5	58	..	3·2	..	4·1	0	0	28	4	13	8	2	1	0	0	0	1	0
Pusad	0830	334	1018·5	979·5	..	16·4	14·8	13·6	15·6	82	..	3·2	..	3·7	0	0	28	4	3	0	4	0	1	6	10	5	0
	1730	,,	1013·9	976·1	..	24·9	18·1	13·3	15·3	50	..	3·0	..	5.3	0	0	30	0	19	4	2	1	0	1	3	1	0
Sironcha	0830	123	1017·8	1003·3	+0·6	18·5	16·7	15·3	17·6	82	+4	2·8	+1·0	2·5	0	0	23	8	1	3	4	1	2	1	5	8	0
	1730	,,	1013·4	999·3	..	25·8	19·9	16·1	18·4	56	..	2·9	..	3·0	0	0	24	12	2	7	3	0	0	0	0	7	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1018·1	1017·4	+1·3	21·8	19·4	18·0	22·5	79	+1	2·1	+0·2	5 2	0	0	31	5	1	1	0	0	0	11	13	0	0
	1730	,,	1014·4	1013·7	..	24·7	21·5	19·0	22·8	74	..	2·2	..	13·2	0	3	28	0	9	16	6	0	0	0	0	0	0
Vishakhapatnam	0230	3	1014·7	1014·3	..	20·3	18.1	16·5	19.0	79	..	1·2	..	1·0	0	0	5	1	1	1	0	0	0	0	2	26	0
	0530	,,	1015·1	1014·7	..	19·4	17·3	15·9	18·1	81	..	1·6	..	1·5	0	0	4	1	1	0	0	0	0	0	2	27	0
	0830	,,	1017·3	1016·9	+0·8	23·6	19·2	16·2	18·6	64	−3	2·1	−0·6	5·2	0	0	15	2	4	0	1	0	0	1	7	16	0
	1130	,,	1016·2	1015·8	..	27·5	19·9	15·0	17·0	47	..	2·7	..	10·6	0	1	25	4	7	7	6	0	0	1	1	5	0
	1730	,,	1014·0	1013·6	..	24·9	19·4	15·7	18·1	53	..	2·6	..	13·3	0	1	29	0	4	15	11	0	0	0	0	1	0
	2330	,,	1015·9	1015·5	..	21·1	18·6	17·0	19·5	78	..	1·4	..	2·0	0	0	10	0	1	1	0	0	0	2	6	21	0
Kakinada	0830	8	1016·9	1016·0	+0 6	25·4	21·1	18·6	21·6	66	−6	2·0	−0·6	11·5	0	0	31	0	31	0	0	0	0	0	0	0	0
	1730	,,	1013·5	1012·6	..	25·4	21·1	18·4	21·6	66	.	1·9	..	12·2	0	0	31	0	29	0	2	0	0	0	0	0	0
Nidadavole	0830	12	1016·9	1015·4	..	22·0	19·3	17·5	20·2	76	..	3·5	..	5·4	0	0	30	5	16	3	0	0	0	3	3	1	0
	1730	,,	1013·0	1011·6	..	26·5	20.9	17·5	20·0	59	..	4·7	..	6·0	0	1	26	0	3	16	5	0	0	1	2	4	0
Rentachintala	0830	106	1017·0	1004·7	..	21·3	19·1	17·7	20·2	80	+9	2·9	−0·3	0·9	0	0	14	1	0	8	0	1	0	4	0	17	0
	1730	,,	1012·6	1000·6	..	26·7	20·3	16·9	19·6	57	..	3·0	..	1·2	0	0	19	6	1	11	0	0	0	1	0	12	0
Gannavaram	0230	24	1014.3	1011·4	..	20·6	19·1	18·1	20 9	86	..	1·8	..	6·1	0	0	28	13	10	3	0	0	0	0	2	3	0
	0530	,,	1014·6	1011·7	..	20·0	18·5	17·5	20·0	85	..	2·2	..	6·6	0	1	24	12	8	4	0	0	0	0	1	6	0
	0830	,,	1016·8	1014 0	+0·9	23·2	19·8	17·7	20·4	72	0	3·1	+0·8	10·2	0	3	28	9	15	7	0	0	0	0	0	0	0
	1130	,,	1016 0	1013·2	..	27·4	20·8	16·7	19·3	53	..	3·6	..	13·3	0	8	22	3	9	15	3	0	0	0	0	1	0
	1730	,,	1013·2	1010·4	..	26·6	20·5	16·7	19·1	56	..	3·2	..	9·0	0	1	29	4	2	15	8	1	0	0	0	1	0
	2330	,,	1015·6	1012·8	..	21·4	19·5	18·3	21·0	83	..	1·8	..	5·4	0	0	24	6	7	9	1	0	0	0	1	7	0
Nagarjunakonda	0830	..	..	..	..	22·6	19·3	17.3	19·7	73	..	2·5	..	3·2	0	1	10	0	2	2	4	2	0	0	1	20	0
	1730	..	..	..	..	26·7	20·2	15·9	18·3	53	..	3.0	..	8·0	0	2	28	2	8	13	5	2	0	0	0	1	0
Masulipatam	0830	3	1016·7	1016·3	+0·4	23·2	20·5	18·9	21·8	77	−1	4·0	+2·0	4·3	0	0	31	10	13	7	0	0	0	1	0	0	0
	1730	,,	1013·2	1012·8	..	25·7	21·5	19.2	22·1	67	..	3·2	..	5·0	0	0	31	0	0	23	7	0	0	0	1	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean temperature in °C. Dry bulb	Mean temperature in °C. Wet bulb	Mean temperature in °C. Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind speed, Kms. per hour	Wind speed (km p.h.) 62 or more	Wind speed (km p.h.) 20 to 61	Wind speed (km p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh *Contd.*																											
Ongole	0330	12	1016·4	1015·1	..	23·2	20·7	19·3	22·4	79	..	3·4	..	3·5	0	0	30	9	19	1	0	0	0	0	1	1	0
	1730	,,	1012·8	1011·5	..	26·2	21·9	19·5	22·9	68	..	3·8	..	4·3	0	0	31	0	7	23	1	0	0	0	0	0	0
Nellore	0550	20	1013·3	1011·0	..	21·6	20·8	20·4	24·0	93	..	3·0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1015·9	1013·6	+0·5	23·5	21·7	20·7	24·4	85	+1	5·3	+1·3	0.8	0	0	13	0	2	0	0	0	0	1	10	18	0
	1130	,,	1015·2	1012·9	..	27·4	22·4	20·2	22·9	65	..	5·7	..	2·3	0	0	29	5	23	1	0	0	0	0	0	2	0
	1730	,,	1012·6	1010·4	..	26·1	22·2	21·1	23·5	70	..	5·6	..	2·2	0	2	31	0	30	0	0	0	0	0	1	0	0
	2330	,,	1014·7	1012·4	..	22·6	21·4	20·7	24·5	89	..	2·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Telangana Kamareddy	0830	156	1017·0	998·7	−0·1	18·9	17·3	16·2	18·4	85	+17	2·6	+0·9	1·3	0	0	6	1	1	2	1	1	0	0	0	25	0
	1730	,,	1013·3	995·5	..	25·9	19·6	15.3	17·6	54	..	3·2	..	4·8	0	1	27	2	22	1	2	1	0	0	0	3	0
Nizamabad (R)	0830	381																									
(R)	1730	,,																									
Bhoongir	0830	269	1017·0	986·4	+0·4	20·8	18·0	16·0	18·4	75	+5	2·0	−0·2	1·7	0	0	24	10	0	2	2	8	0	1	1	7	0
	1730	,,	1013·5	983·2	..	25·6	18·7	13·7	16·0	49	..	1·7	..	2·0	0	0	30	15	4	6	0	3	0	1	1	1	0
Hakimpet (Aerodrome)	0530	613	1015·1	945·5	..	16·6	14·9	13·7	15·7	83	..	2·6	..	10·5	0	0	30	1	7	10	11	1	0	0	0	1	0
	0830	,,	1016·4	947·1	..	19·2	16·5	14·8	16·8	45	..	3·6	..	13·0	0	2	29	2	7	6	14	2	0	0	0	0	0
	1130	,,	1015·2	947·0	..	23·3	17·2	13·6	15·9	56	..	3·9	..	15·0	0	4	26	0	7	8	13	2	0	0	0	1	0
	1730	,,	1012·6	944·6	..	23·2	17·3	13·0	15·5	55	..	3·5	..	12·5	0	2	29	4	5	7	13	2	0	0	0	0	0
Gandhichallam	0830	111	1017·2	1004·1	+0·2	19·8	17·8	16·5	18·8	82	+3	4·5	+1·6	2·9	0	0	30	1	10	4	1	7	3	4	0	1	0
	1730	,,	1013·6	1000·7	..	26·1	19·9	15.9	18·2	54	..	3·5	..	2·2	0	0	28	1	16	2	0	5	1	3	0	3	0
Hyderabad (Begumpet)	0230	545	1015·3	953·0	..	16·3	15·4	14·7	16·7	91	..	2·5	..	3·0	0	0	17	2	5	4	4	1	1	0	0	14	0
	0530	,,	1015·6	953·1	..	15·4	14·7	14·2	16·3	93	..	2·5	..	1·0	0	0	15	3	2	4	4	1	0	1	0	16	0
	0830	,,	1017·3	955·2	+0·7	17·9	16·3	15·2	17·1	85	+19	3·7	+1·6	4·4	0	0	20	4	2	5	8	1	0	0	0	11	0
	1130	,,	1015·7	954·8	..	23·2	18·0	14·5	16·4	59	..	4·0	..	8.0	0	1	29	1	4	12	11	1	1	0	0	1	0
	1730	,,	1012·7	952·1	..	23·5	17·7	13·6	15·6	55	..	3·9	..	8·6	0	0	31	3	5	14	8	0	1	0	0	0	0
	2330	,,	1016·3	954·1	..	17·3	15·9	14·9	16·8	86	..	2·4	..	3·2	0	0	19	3	3	6	6	0	1	0	0	12	0
Khammam	0830	112	1017·0	1004·0	..	20·4	18·6	17·4	19·9	83	..	3·0	..	1·5	0	0	9	4	0	3	2	0	0	0	0	22	0
	1730	,,	1012·7	1000·2	..	27·1	20·2	15·6	18·1	51	..	3·6	..	2·6	0	0	20	3	1	13	3	0	0	0	0	11	0
Mahbubnagar	0830	505	1016·3	959·1	..	20·5	17·4	15·4	17·4	73	..	3·7	..	9·3	0	2	29	0	6	24	1	0	0	0	0	0	0
	1730	,,	1011·9	955·7	..	24·4	18·1	13·9	15·7	53	..	4·0	..	6·1	0	0	30	0	9	18	0	2	1	0	0	1	0
Rayalaseema Kurnool	0830	281	1017·0	984·7	+1·1	21·0	18·3	16·5	18·8	76	+5	3·1	+1·3	3·1	0	0	20	0	2	12	5	0	0	1	0	11	0
	1730	,,	1012·6	980·8	..	27·2	19·9	14·9	17·3	49	..	3·5	..	4·3	0	0	31	0	3	23	3	1	1	0	0	0	0
Nandyal*	0830																										
	1730																										
Anantapur	0530	350	1013·8	973·8	..	19·6	18·3	17·5	19·9	88	..	2·2	..	5·4	0	1	16	0	4	13	0	0	0	0	0	14	0
	0830	,,	1015·9	976·0	+0.7	21·3	19·0	17·5	20·1	80	+8	3·2	+0.8	4·8	0	0	19	0	7	11	1	0	0	0	0	12	0
	1130	,,	1014·9	975·6	..	25·3	20·1	16·7	19·3	60	..	3·8	..	11·7	0	2	29	2	7	15	6	1	0	0	0	0	0
	1730	,,	1011·3	972·3	..	26·7	20·1	15·8	18·1	53	..	3·3	..	12·6	0	5	25	3	8	16	2	1	0	0	0	1	0
	2330	,,	1014·7	974·9	..	21·9	14·1	17·0	19·3	73	..	1·9	..	10·7	0	3	24	2	0	22	1	1	0	1	0	4	0
Cuddapah	0830	130	1016·3	1001·3	+0·6	23·2	20·8	19·4	22·7	79	+3	2·2	−0·7	1·2	0	0	7	0	0	7	0	0	0	0	0	24	0
	1730	,,	1012·3	997·5	..	26·2	21·6	19·0	22·1	65	..	3·3	..	3·7	0	0	24	0	0	24	0	0	0	0	0	7	0
Arogyavaram	0830	701	1016·0	937·6	..	19·7	17·7	16·4	13·5	81	..	4·0	..	2·1	0	0	23	5	4	1	6	6	0	0	1	8	0
	1730	,,	1011·4	934·4	..	23·9	18·3	14·8	16·5	58	..	3·7	..	3·9	0	0	31	3	10	14	1	2	0	0	1	0	0
Madras State Madras	0830	6	1015·4	1014·7	..	25·2	22·5	21·0	25·0	79	..	4·8	..	6·0	0	0	30	11	10	2	0	1	0	1	5	1	0
Madras (Minambakkam)	0230	16	1013·2	1011·4	..	22·5	21·4	20·9	24·7	91	..	2·9	..	3·9	0	0	20	9	4	0	0	0	0	1	6	11	0
	0530	,,	1013·4	1011·6	..	21·9	21·0	20·5	24·1	92	..	3·9	..	3·8	0	0	22	6	2	0	0	0	0	5	9	9	0
	0830	,,	1015·6	1013·8	+0·7	24·5	22·2	21·0	25·0	82	−2	4·5	+0·5	8·3	0	0	29	20	0	1	0	0	0	0	8	2	0
	1130	,,	1014·9	1013·1	..	27·7	22·9	20·4	24·0	65	..	5·4	..	5·4	0	8	23	15	10	4	2	0	0	0	0	0	0
	1730	,,	1012·6	1010·8	..	26·0	22·3	20·3	23·8	71	..	5·6	..	14·7	0	7	24	12	12	5	2	0	0	0	0	0	0
	2330	,,	1014·8	1013·0	..	23·3	21·7	20·9	24·7	86	..	2·8	..	5·3	0	0	25	16	5	0	1	0	0	1	2	6	0
Vellore	0530	214	1013·9	989·2	..	20·2	19·7	19·4	22·5	95	..	3·9	..	0·1	0	0	1	0	0	0	1	0	0	0	0	30	0
	0830	,,	1015·8	991·3	+0·9	22·2	20·7	19·8	23·2	87	+2	5·0	+1·7	0·9	0	0	8	1	1	0	1	0	1	1	3	23	0
	1130	,,	1014·9	990·6	..	26·2	21·5	18·7	21·8	64	..	5·7	..	6·9	0	2	27	4	19	4	2	0	0	0	0	2	0
	1730	,,	1011·8	987·7	..	26·9	21·4	18·2	20·8	60	..	5·2	..	5·8	0	1	26	1	17	6	2	1	0	0	0	4	0
	2330	,,	1015·0	990·5	..	22·7	20·7	19·6	22·8	82	..	2·7	..	3·2	0	0	21	0	13	5	3	0	0	0	0	10	0
Tambaram (Aerodrome)	0830	29	1015·1	1011·8	..	24·4	22·6	21·5	25·9	85	..	4·5	..	11·0	0	0	31	20	3	0	0	1	0	1	6	0	0
	1730	,,	1012·1	1008·8	..	25·9	22·4	20·6	24·1	73	..	4·2	..	16·0	0	2	29	5	14	10	2	0	0	0	0	0	0
Tiruppattur	0830	390	1015·9	971·3	..	20·8	19·6	18·7	21·8	89	..	5·9	..	3·3	0	0	28	13	12	3	0	0	0	0	0	3	0
	1730	,,	1010·8	967·3	..	25·5	20·5	17·4	20·0	62	..	6·3	..	6·6	0	0	31	13	13	4	0	0	0	1	0	0	0

(R) Register not recomed.

* Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Mathur Dam RS	0830	..	..	..	..	24·2	21·4	19·8	23·2	77	..	4·4	..	5·1	0	0	31	0	12	0	2	0	0	0	17	0	0
	1730	..	..	..	..	27·8	23·1	20·5	24·4	66	..	5·0	..	4·1	0	0	31	0	15	0	6	0	3	0	7	0	0
Cuddalore	0530	12	1012·5	1011·1	..	22·3	21·5	21·0	25·0	92	..	4·3	..	1·2	0	0	12	6	2	0	0	0	0	0	4	19	0
	0830	,,	1015·1	1013·7	+0·6	24·3	22·3	21·1	25.3	83	0	5·4	+1·2	6·6	0	0	31	10	16	0	1	0	0	1	3	0	0
	1130	,,	1014·3	1012·9	..	27·7	23·1	20.6	24.4	66	..	5·7	..	13·2	0	3	27	9	20	0	1	0	0	0	0	1	0
	1730	,,	1011·9	1010·5	..	26·3	22·7	20·8	24·6	72	..	3·8	..	10·5	0	1	30	6	19	5	1	0	0	0	0	0	0
	2330	,,	1013·9	1012·5	..	24·4	22·2	21·0	25·2	82	..	4·3	.	6.9	0	0	27	7	19	0	1	0	0	0	0	4	0
Kadalakkurichchi .	0830	127	1015.3	1000·8	..	24·3	21·6	20·0	23·5	77	..	4·0	..	8.8	0	0	31	26	0	1	0	0	0	0	4	0	0
	1730	,,	1011·3	997·0	..	27·2	21·9	18·8	22·0	61	..	3·9	..	8·7	0	0	30	6	20	2	0	0	1	0	1	1	0
Salem . . .	0530	278	1013 3	981·5	..	21·1	19·0	17·7	20 4	82	..	3·9	..	3.2	0	0	27	0	6	20	1	0	0	0	0	1	0
	0830	,,	1015 0	983·4	+0·5	23·8	20·1	17·8	20·5	69	6	4·5	+1·1	2·4	0	0	17	2	3	12	0	0	0	0	0	14	0
	1130	,,	1013·5	982·5	..	28·3	21·2	17·0	19·4	51	..	5·5	.	6·2	0	0	28	0	5	18	1	1	0	0	0	3	0
	1730	,,	1010 4	979·4	..	27·9	21·1	16·9	19·5	53	..	4·8	..	6·5	0	0	27	0	3	21	2	0	0	1	0	4	0
	2330	,,	1013 7	982·1	..	23·5	20 0	17·8	20·5	71	..	3·2	..	10·3	0	1	21	0	0	23	1	0	0	0	0	6	0
Coimbatore (Pilamedu) .	0530	399	1013·1	967 8	..	20·3	19·6	19·2	22·2	93	..	4·0	..	3 3	0	0	15	2	11	2	0	0	0	0	0	16	0
	0830	,,	1015 0	969 9	..	22·7	20·8	19·7	22·9	83	..	4·9	..	5·1	0	2	28	2	13	9	0	0	0	0	1	0	0
	1130	,,	1013·7	969·1	..	25·7	21·9	19·8	23.1	70	..	5·3	..	7·9	0	6	24	3	29	7	0	0	0	0	0	1	0
	1730	,,	1010·4	966.1	..	26 9	22.1	19·4	22·7	65	..	3 8	..	9·8	0	0	30	2	19	9	0	0	0	0	0	1	0
	2330	,,	1014·0	968·9	..	22.1	20.3	19·2	22·4	84	..	3 2	..	6·9	0	0	26	1	12	3	0	0	2	3	0	5	0
Coimbatore . . .	0830	409	1015 0	968·9	+0·7	22.4	19·9	18·4	21·3	78	1	6·0	+2·2	17·7	0	13	17	0	11	15	4	0	1	0	0	0	0
	1730	,,	1010·3	965·0	..	27.1	21·0	17·3	20·0	56	..	5 4	..	1·6	0	2	29	1	8	15	6	1	1	0	1	0	0
Nagapattinam . .	0830	9	1014.7	1013·6	+0·9	25.4	22·7	21·4	25·0	79	2	5·6	+0·6	13 5	0	9	23	7	9	1	1	0	0	1	10	2	0
	1730	,,	1011·5	1010·3	..	26.9	23·2	21·3	25·3	72	..	5·2	..	22·2	0	20	11	3	19	1	3	0	0	0	0	0	0
Tiruchirappalli .	0230	88	1012.7	1002·6	..	22.9	21·3	20·3	24·0	85	..	2·2	..	11·1	0	5	25	3	20	5	0	0	0	0	0	3	0
	0530	,,	1013·0	1002·9	..	22·6	20·9	20·0	23·2	86	..	3·1	.	10·3	0	1	25	2	24	1	0	0	0	0	0	4	0
	0830	,,	1015·1	1005·1	+0·6	25.1	21·6	19·7	22·9	72	−8	3·7	−0·3	14 0	0	5	26	3	21	2	0	0	0	0	0	0	0
	1130	,,	1014 2	1004·3	..	28·1	22·2	18·8	21·8	58	.	4·5	..	16 8	0	11	20	1	26	3	1	0	0	0	0	0	0
	1730	,,	1011·3	1001·4	..	27·4	22·5	19·8	23·2	64	..	4.5	..	13·2	0	6	25	0	17	14	0	0	0	0	0	0	0
	2330	,,	1014 2	1004·1	..	23·5	21·7	20·8	24·4	85	..	3·0	..	6·4	0	1	27	2	23	6	0	0	0	0	0	0	0
Vedaranniyam .	0830	4	1014 5	1014.0	..	25·8	23·1	21·8	25·9	79	..	4 6	..	7·5	0	2	28	12	9	5	1	0	0	0	5	0	1
	1730	,,	1011.5	1010·9	..	26·6	23·2	21·5	25·6	74	..	4·4	..	11·6	0	4	27	13	14	3	1	0	0	0	0	0	0
Atirampattinam .	0830	6	1014·1	1013·5	..	25·1	22·9	21·8	26·1	82	..	5·7	..	10·7 (G)	0	0	21	12	4	0	1	0	0	0	4	0	0
	1730	,,	1011·0	1010·2	..	27·5	23·1	20·9	24·7	68	.	5 3	..	11·6 (G)	0	1	28	4	14	0	2	1	0	0	0	0	0
Madurai . .	0830	133	1014·7	999 5	+0·6	24·9	21·9	20·3	23·8	76	−1	4·1	0·1	5 1	0	0	30	14	9	1	0	0	0	1	5	1	0
	1730	,,	1011·0	996·0	..	2.·7	22·8	20·3	23 8	64	..	4 2	..	7.6	0	0	31	2	15	8	1	1	0	0	0	0	0
Madurai Aerodrome	0530	131	1012·6	997·5	..	22·3	20·9	20·2	23·5	88	..	3 3	..	9.5	0	5	19	1	22	1	0	0	0	0	0	7	0
	0830	,,	1014·6	999·6	..	24·7	21·8	20·2	33·8	76	..	4·7	..	15·1	0	6	24	6	24	0	0	0	0	0	0	1	0
	1130	,,	1013·7	998·8	..	27·6	22·3	19·3	22·7	61	..	5·3	..	21·6	0	19	12	2	23	4	1	1	0	0	0	0	0
	1730	,,	1010·7	995·9	..	27·6	22·4	19·5	22.8	62	..	5·2	..	17·9	0	10	21	0	21	8	2	0	0	0	0	0	0
Tondi . . .	0830	5	1014·2	1013·6	..	24·8	22·6	21·4	25·6	82	..	5.2	..	8·9	0	2	21	15	7	0	1	6	0	0	0	3	0
	1730	,,	1011·3	1010·7	..	27.6	23·5	21·5	25·6	70	..	5·3	..	16·8	0	11	17	4	24	0	0	0	0	0	0	3	0
Pamban . . .	0830	11	1014·0	1012·7	+0·7	25·8	24.0	23·2	28·4	86	+1	5.5	+1·7	9·3	0	0	30	11	4	0	1	0	0	0	14	1	0
	1730	,,	1011·0	1009·7	..	26·4	24.0	22.9	27.9	81	..	4.8	..	9·0	0	0	29	9	20	0	0	0	0	0	0	2	0
Tuticorin . . .	0830	4	1014.6	1014.2	+0·4	25·5	23·2	21·9	26.6	80	+2	4.7	+0·8	15·4	0	8	23	18	9	0	0	0	0	1	3	0	0
	1730	,,	1010·9	1010·5	..	27·5	24·5	23·0	28·3	77	..	4·6	..	26·9	0	26	5	0	13	17	1	0	0	0	0	0	0
Palayankottai . .	0830	51	1014·6	1008·8	+0·5	25·1	22·3	21·0	24·6	78	+2	5·5	+1·1	5·5	0	0	28	25	0	0	0	1	0	0	2	3	0
	1730	,,	1010·5	1004·8	..	28·4	23·1	20·3	23.8	62	..	6·1	..	5·6	0	0	27	7	1	18	1	0	0	0	4	4	0
Kanniyakumari . .	0830	37	1013·4	1009·3	..	26·0	22·3	20·3	23.8	71	..	4·6	..	23.8	0	19	12	1	28	1	0	0	1	0	0	0	0
	1730	,,	1010·1	1006·1	..	27·6	23·5	21·5	25·6	70	..	5·7	..	19·2	0	21	16	1	20	5	0	0	2	2	1	0	0
Coastal Mysore																											
Karwar . . .	0830	4	1013·2	1012·7	−0.7	23·4	20·1	18·1	20·8	73	+3	2·6	+0·6	9·5	0	2	27	0	7	16	3	0	1	0	1	2	1
	1730	,,	1010.6	1010·1	..	28·2	23·4	20.9	24·9	66	..	3.6	..	7·8	0	2	28	0	2	2	8	0	1	7	10	1	0
Honavar . . .	0830	26	1013.9	1010·9	+0·5	23·7	19·6	16·9	19·5	67	+5	4.5	+1·5	6·1	0	0	29	0	13	15	0	0	0	1	0	2	0
	1730	,,	1010.6	1007·7	..	28·8	22·8	19 4	22·8	59	..	4.0	..	6·8	0	0	30	3	2	3	1	3	3	9	6	1	0
Mangalore (Bajpe) .	0230	102	1011·5	999·8	..	22·7	21·3	20·5	24·1	87	..	2·2	..	5·2	0	0	25	0	3	20	1	0	0	0	1	6	0
	0530	,,	1011·5	999·8	..	21·9	20·5	19·7	22·9	88	..	2·3	..	6·1	0	0	28	0	6	20	2	0	0	0	0	3	0
	0830	,,	1013.6	1001·9	..	24·3	21·3	19·6	22·9	76	..	2·9	..	7·4	0	0	31	0	0	26	5	0	0	0	0	0	0
	1130	,,	1013.0	1001·5	..	29·3	22·2	18.0	21·0	52	..	3·1	..	10·4	0	1	30	0	2	18	7	1	0	1	2	0	0
	1730	,,	1010·3	998·8	..	27·7	22·8	20·1	23·7	64	..	3·5	..	11·1	0	0	31	1	0	0	0	0	0	17	13	0	0
	2330	,,	1012·7	1001·1	..	24.1	21·7	20·5	24·0	81	..	2·3	..	6·0	0	0	27	1	11	10	0	0	1	0	4	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Mysore (*contd*)																											
Mangalore	0830	22	1013.6	1011.1	+0.5	25.3	21.9	19.6	23.1	70	+3	3.5	+1.1	3.2	0	0	31	1	5	23	2	0	0	0	0	0	0
	1730	..	1010.5	1008.0	..	28.5	23.6	21.1	25.0	65	..	4.2	..	4.9	0	0	31	3	0	1	0	0	1	14	12	0	0
Interior Mysore (North)																											
Bidar	0830	664	1016.5	944.6	..	18.7	15.7	13.1	15.7	71	+9	3.2	+1.2	7.9	0	0	27	1	5	15	5	1	0	0	0	4	0
	1730	,,	1012.3	938.8	..	23.1	16.1	11.2	13.3	19	..	3.5	..	10.5	0	3	25	3	16	8	1	0	0	0	0	3	0
Gulbarga	0830	458	1016.3	961.5	+0.3	19.1	15.1	11.3	16.7	71	+12	4.0	+2.6	7.4	0	0	29	1	12	11	0	2	0	0	0	2	0
	1730	,,	1011.8	960.8	..	25.7	18.1	12.6	15.5	17	..	4.0	..	6.0	0	0	29	2	8	11	4	4	0	0	0	2	0
Raichur	0830	594	1015.4	948.7	0	17.8	16.2	14.8	17.3	83	+22	3.8	+2.0	1.3	0	0	19	1	1	11	4	1	1	0	0	12	0
	1730	,,	1011.1	945.5	..	25.2	18.6	14.2	16.6	53	..	4.3	..	1.3	0	0	20	0	8	0	10	0	2	0	0	11	0
Bidar	0830	400	1015.9	970.7	+0.3	20.3	17.3	15.7	17.9	73	+3	3.2	+2.1	4.7	0	0	30	0	13	3	9	0	0	0	0	1	0
	1730		1011.7	967.5	..	25.7	18.6	13.2	15.7	43	..	3.8	..	4.3	0	0	31	5	9	10	7	0	0	0	0	0	0
Belgaum	0830	753	1015.6	931.6	0	17.1	15.3	15.1	16.9	87	+23	3.6	+1.8	3.3	0	0	21	0	0	17	4	0	0	0	0	10	0
	1730	,,	1010.5	928.4	..	21.9	19.7	16.0	18.3	60	..	4.0	..	6.0	0	0	31	0	1	15	5	4	0	2	0	0	4
Belgaum (Sonsa)	0530	717	1014.9	934.1	..	16.7	14.7	13.2	15.3	81	..	3.3	..	5.5	0	1	19	2	6	8	1	3	0	0	0	11	0
	0830	,,	1015.0	932.0	..	19.2	16.2	14.1	16.2	73	..	3.7	..	11.0	0	2	26	1	6	10	7	1	3	0	0	3	0
	1130	,,	1014.2	931.9	..	23.3	17.6	13.7	15.9	57	..	4.1	..	16.0	0	9	22	1	2	12	11	3	1	1	0	0	0
	1730	,,	1010.7	929.0	..	23.5	17.4	12.4	14.7	49	..	4.1	..	8.5	0	0	29	3	7	9	5	2	2	1	0	2	0
Gadag	0530	650	1011.1	940.6	..	17.2	15.6	14.5	16.5	81	..	1.7	..	3.8	0	0	17	0	0	16	1	0	0	0	0	14	0
	0830	,,	1016.0	942.7	+0.1	18.9	16.8	15.2	17.6	80	+18	3.3	+1.5	5.5	0	0	29	0	2	23	4	0	0	0	0	2	0
	1130	,,	1011.3	942.6	..	21.3	13.8	15.3	17.6	58	..	3.3	..	7.1	0	0	27	0	7	16	2	2	0	0	0	4	0
	1730	,,	1011.2	939.7	..	24.9	18.1	14.0	16.1	53	..	3.7	..	5.1	0	0	27	1	4	21	0	0	0	1	0	4	0
	2330	,,	1014.9	941.9	..	19.1	16.2	14.0	16.3	74		2.5	..	8.1	0	0	29	0	2	22	3	0	2	0	0	2	0
Interior Mysore (South)																											
Bellary	0830	441	1016.1	965.1	+0.5	20.5	17.9	16.6	18.1	77	+10	1.1	+1.5	4.3	0	0	21	0	1	7	13	0	0	0	0	10	0
	1730	,,	1011.4	961.5	..	25.2	19.1	13.9	16.3	43	..	4.5	..	5.6	0	0	29	0	1	6	21	0	0	0	1	2	0
Chitradurga	0830	733	1015.3	933.5	+0.6	19.5	17.3	15.8	18.2	89	+12	3.9	+1.2	7.7	0	0	29	0	1	25	1	0	0	1	1	2	0
	1730	..	1010.4	933.2	..	24.5	18.0	13.5	15.9	52	..	3.5	..	2.8	0	0	25	0	2	21	0	0	0	2	0	6	0
Sira	0830	571	1015.0	950.6	+0.1	19.9	17.6	16.2	18.5	86	+4	5.9	+3.1	1.2	0	0	8	0	1	6	0	0	0	1	0	23	0
	1730	,,	1009.8	947.0	..	26.0	19.1	14.7	17.0	52	..	6.1	..	3.5	0	0	20	0	6	14	0	0	0	0	0	11	0
Nandi	0830	.	..	..	..	19.7	17.8	16.8	19.0	84	..	..	..	5.7	0	0	31	0	24	4	0	2	1	0	0	0	0
Kolchommur	0830	..	..	..	..	19.5	17.3	15.9	18.2	80	+4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	969	1531.3	909.0	..	13.0	16.5	15.6	17.6	86	+11	4.5	+1.3	1.8	0	0	22	1	4	3	13	0	1	0	0	9	0
	1730	,,	1514.4	906.0	..	23.7	18.1	14.1	16.7	57	..	5.0	..	1.9	0	0	26	1	5	7	6	0	3	0	4	5	0
Bangalore	0230	921	1512.6	911.4	..	17.2	16.5	16.1	18.3	93	..	4.0	..	7.8	0	0	27	0	3	19	5	0	0	0	0	4	0
	0830	,,	1534.2	913.4	+0.6	18.3	16.5	15.8	17.5	86	+8	4.9	+1.4	9.4	0	1	28	0	2	23	4	0	0	0	0	2	0
	1130	,,	1538.2	913.0	..	22.8	18.3	15.4	17.7	64	..	4.7	..	10.0	0	1	28	0	4	21	4	0	0	0	0	2	0
	1730	,,	1515.6	910.5	..	22.7	17.9	14.8	16.9	63	..	4.7	..	8.1	0	0	27	1	5	17	3	1	0	0	0	4	
Bangalore Aerodrome	0530	907	1511.5	911.0	..	16.7	16.4	16.2	18.5	97	..	4.1	..	4.5	0	0	20	0	2	15	3	0	0	0	0	11	0
	0830	,,	1535.9	916.2	..	18.8	17.2	16.3	18.4	86	..	5.3	..	8.5	0	0	29	0	4	21	4	0	0	0	0	2	0
	1130	,,	1540.9	915.6	..	23.4	18.8	16.1	13.3	64	..	4.3	..	10.0	0	1	29	0	5	17	7	0	0	1	0	1	0
	1730	,,	1517.1	913.1	..	23.6	18.6	15.3	17.8	62	..	4.7	..	7.6	0	0	27	1	6	13	5	1	0	0	1	4	0
	2330	,,	1527.3	915.3	..	18.3	17.1	16.1	18.6	89	..	2.7	..	5.9	0	0	22	0	3	15	4	0	0	0	0	9	0
Mysore	0830	767	1015.1	929.7	+0.5	19.9	17.5	16.0	18.3	78	+4	3.7	+0.3	8.5	0	1	30	4	8	9	5	2	2	0	1	0	0
	1730	,,	1010.1	926.6	..	25.5	18.4	13.8	16.0	49	..	4.1	..	11.1	0	5	26	7	3	5	7	1	3	2	3	0	0
Kerala																											
Calicut	0530	5	1011.7	1011.1	..	23.1	22.1	21.6	25.8	91	..	2.2	..	6.5	0	0	22	0	6	16	0	0	0	0	0	9	0
	0830	,,	1013.5	1012.9	+0.5	25.1	22.7	21.4	25.6	80	+3	2.6	−0.1	4.4	0	0	22	0	1	21	0	0	0	0	0	9	0
	1130	,,	1013.2	1012.6	..	29.2	23.9	21.2	25.3	62	..	3.0	..	6.3	0	0	23	1	1	0	0	2	10	8	1	8	0
	1730	,,	1010.3	1009.7	..	29.2	24.4	22.1	26.6	66	..	3.6	..	10.6	0	2	29	0	1	0	0	0	3	21	6	0	0
	2330	,,	1013.0	1012.3	..	25.1	23.3	22.4	27.1	85	..	3.1	..	2.2	0	0	12	0	7	4	0	0	0	0	1	19	0
Pattambi	0830	97	1014.0	1002.9	..	25.7	22.1	20.1	23.7	71	..	3.6	..	10.8	0	0	31	0	0	31	0	0	0	0	0	0	0
	1730	,,	1009.9	999.0	..	29.5	23.4	20.1	23.8	58	..	2.9	..	5.1	0	0	24	0	0	21	0	0	0	3	0	7	0
Fort Cochin	0830	3	1013.3	1013.0	+0.4	26.7	23.3	21.6	25.8	74	+1	5.8	+3.2	5.6	0	0	31	2	15	10	3	1	0	0	0	0	0
	1730	,,	1009.9	1009.6	..	28.4	24.4	21.5	26.9	71	..	5.6	..	5.0	0	0	31	0	0	0	0	0	6	21	4	0	0
Cochin (Naval Air Station)	0230	3	1011.5	1011.2	..	24.4	23.1	22.4	27.3	89	..	4.5	..	2.1	0	0	13	0	3	7	1	1	0	0	1	18	0
	0530	,,	1011.5	1011.2	..	23.7	22.5	21.8	26.3	89	..	3.7	..	2.3	0	0	15	0	7	5	3	0	0	0	0	16	0
	0830	,,	1013.4	1013.1	..	26.1	23.3	21.8	25.5	78	..	4.1	..	4.1	0	0	23	0	12	9	1	0	0	0	0	8	1
	1130	,,	1013.1	1012.8	..	29.8	24.2	21.5	25.6	62	..	3.9	..	5.9	0	0	28	2	3	2	5	2	5	1	1	3	7
	1730	,,	1010.2	1009.9	..	28.9	24.4	22.2	26.9	68	..	5.0	..	9.6	0	0	31	0	0	0	0	1	12	16	2	0	0
	2330	,,	1013.0	1012.7	..	25.3	23.7	22.9	27.9	86	..	5.2	..	1.6	0	0	12	1	3	4	2	1	1	0	0	19	0
Alleppey	0830	4	1013.0	1012.6	+0.7	26.7	23.7	22.3	26.9	77	+1	3.8	−0.2	4.3	0	0	31	0	7	9	15	0	0	0	0	0	0
	1730		1010.1	1009.7	..	29.3	25.2	23.4	28.6	71	..	4.2	..	16.0	0	2	29	0	0	0	1	0	1	9	20	0	0

Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Palghat	0830	34	1013·	1009 6	..	25·0	22·3	20·8	24 7	78	..	4·5	..	1·2	0	0	10	0	2	5	3	0	0	0	0	21	0
	1730	"	1009 8	1006·0	..	29·4	23·6	20·6	24 4	60	..	6·4	..	3·4	0	0	26	1	2	8	5	1	1	4	4	5	0
Trivandrum	0230	64	1011.0	1003.6	..	24·2	22 8	22·1	26·5	89	..	3·2	..	5·0	0	0	23	2	13	3	3	0	0	0	2	8	0
	0530	"	1011.2	1003·8	..	23·5	22 3	21·6	25·9	90	..	2·8	..	4·8	0	0	28	5	17	4	0	0	0	0	2	3	0
	0830	"	1013·2	1005·9	+0·7	26 3	23 4	21·9	26·3	77	−3	3·7	+0 1	4.6	0	0	30	1	17	1	5	1	1	0	4	1	0
	1130	"	1012·5	1005·2	..	29·4	23·9	21·0	25·1	62	..	4 8	..	6.0	0	0	27	0	3	2	2	4	6	3	7	4	0
	1730	"	1010·2	1002·9	..	28 1	24·0	22 1	26 5	70	..	4·7	..	6·1	0	0	31	0	1	0	3	3	14	6	4	0	0
	2330	"	1012·7	1005·3	..	24 9	23·3	22·5	27·3	87	..	3·3	..	5 7	0	0	30	2	10	9	3	0	1	1	4	1	0
Trivandrum Aerodrome	0830	8	1013·2	1012·3	..	26·7	23·2	21·5	25·6	74	..	3·6	..	3·2	0	0	15	1	2	11	0	1	0	0	0	16	0
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	"																									
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1467·4	801·3	+0 1	7·3	5 1	1·8	7 0	74	+19	4.1	+2.3	3.6	0	0	28	2	15	0	4	0	0	1	0	3	6
	1730	"	1462·4	800·9	..	8·3	6 9	5 2	8·7	82	..	4 3	..	2 7	0		26	0	3	1	13	1	4	2	0	5	2
Dharmsala	0830	1211	1565.8	887·6	+0 7	10 1	6·1	1·9	7 1	59	+9	4 1	+1·5	0·6	0	0	14	2	6	3	1	0	0	0	2	17	0
	1730	"	1566.2	887·6	..	13 1	8·9	5 3	8·9	56	..	2 6	..	0·6	0	0	31	0	1	2	0	1	23	4	0	0	0
Simla	0830	2202	1520·1	783·3	+0 2	7·3	1·4	−11 9	2·3	32	−2	3 3	+0·5	2·1	0	0	30	1	1	0	8	7	11	0	2	1	0
	1730	"	1520·0	783·1	..	6·9	3 0	−3·5	4.6	53	..	3.0	..	1 9	0	0	30	0	9	0	2	1	11	0	7	1	0
Lokpal	0830	..	..	..	..	−10·3	−12·3	−18·7	1·2	66	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830									Closed during Winter Months.																	
Joshimath	0830	..	..	..	..	5·8	1 2	−7·3	3·4	42	..	3·6	..	7·1	0	2	24	0	1	10	6	5	1	0	0	5	3
	1730	..	..	..	..	7·7	3·1	−3 8	4 4	46	..	3·7	..	5·0	0	0	29	0	0	1	4	15	9	0	0	2	0
Mussoorie	0830	2042	1514·8	797·7	−1·3	7·2	3·1	−3·8	4·8	51	+6	3·3	+0·7	2·0	0	0	21	6	2	0	2	4	2	0	5	10	3
	1730	"	1505·9	797·0	..	7·1	5·2	2·7	7·3	74	..	3·1	..	2·6	0	0	24	4	2	0	5	8	4	0	1	7	0
Mukteswar (Kumaun)	0830	2311	3132 4	774·5	+0·5	6·2	1·1	−10·1	2 6	39		2 1	−0 2	6 8	0	1	23	1	5	4	0	0	1	7	6	7	0
	1730	"	3120·2	773·3	..	6 4	2·7	−3·1	4 7	55	..	2·3	..	7·1	0	0	28	0	2	1	0	0	3	13	9	3	0
Naini Tal	0830	1953	1523·3	807·1	+0·5	6·3	3·3	−1·7	5 3	60	+1	2·3		1·8	0	0	11	1	1	1	1	0	0	4	3	20	0
	1730	"	1500·1	805·0	..	6 8	4.3	1·1	8·3	68	..	1·8	..	7·0	0	0	31	4	1	0	0	1	2	22	1	0	0
Kalimpong	0830	..	..	..	..	11·4	9 7	8·1	10·8	81	+8	1·5	−0·7	3·0	0	0	31	2	0	0	0	0	0	0	29	0	0
	1730	..	..	..	..	10·5	8·6	6·7	9·8	77	..	1·7	..	3·0	0	0	31	0	0	0	30	0	0	0	1	0	0
Darjeeling	0830	2128	1507·8	789·2	−1·3	6 8	5·3	4·0	8·1	80	+14	3·5	+0·9	0·4	0	0	2	1	0	0	0	0	1	0	0	29	0
	1730	"	1480·5	786·7	..	7.5	5·7	4·2	8·2	78	..	5·3	..	1·2	0	0	9	0	0	0	0	0	6	1	0	22	2
Kohima	0830	1406	1562·0	866·2	..	10·7	8·7	6·7	9·8	77	..	1·4	..	3·0	0	0	31	4	2	4	6	0	2	7	6	0	0
	1730	"	1521·0	861·8	..	12·5	11·0	9·7	12·0	83	..	1·3	..	8·4	0	0	31	1	10	0	1	0	8	0	11	0	0
Shillong	0830	1500	1529.3	853·2	+0·3	13·1	8 8	4·2	8·2	55	−14	1 6	+0·2	1·2	0	0	12	0	4	1	4	1	1	0	1	19	0
	1730	"	1511·8	851·4	..	12·1	10·6	9·3	11·7	84	..	4·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Cherrapunji	0830	1313	1527·4	872·0	+0·1	13·7	10·5	7·5	10 4	67	+7	0.7	−1.1	2.5	0	0	17	3	8	4	0	1	0	0	1	14	0
	1730	"	1510·8	870·4	..	13·3	11·2	9·4	11·8	78	..	2·0	..	1.5	0	0	14	0	2	2	0	5	4	1	0	17	0
Abu	0830	1195	1537·5	885·2	+0·4	14·4	9·4	4·3	7·8	48	+4	0·4	−1·0	0·6	0	0	6	1	0	0	0	2	0	3	0	25	0
	1730	"	1526.8	883·5	..	17·6	11·6	5 2	8·4	45	..	0·9	..	0·3	0	0	4	1	1	0	0	1	1	0	0	27	0
Aijal	0830	..	..	..	..	17·2	12 9	9·2	11·6	61	..	1·2	..	3·3	0	0	31	1	2	14	2	3	3	6	0	0	0
	1730	..	..	..	..	17·7	13·6	10·4	12·6	62	..	1·4	..	2·9	0	0	30	2		4	1	3	3	12	5	1	0
Pachmarhi	0830	1075	1542·4	898·9	+0·6	12 8	11·6	10·5	12·8	87	+25	3·0	+1·3	1·2	0	0	14	3	4	1	0	5	1	0	0	17	0
	1730	"	1529·7	896 4	..	19·3	15·0	11·7	13·9	64	..	3·9	..	2·9	0	0	26	3	7	2	2	2	1	3	6	5	0
Mahabaleshwar	0830	1382	1532·6	865·5	+0·2	14·8	12·3	9·9	12·5	74	+19	2·6	+1·2	9·7	0	0	31	0	3	8	14	2	4	0	0	0	0
	1730	"	1518·4	863·8	..	18·4	14·6	11·4	13·7	64	..	2·1	..	9·1	0	0	31	4	8	6	5	1	2	1	4	0	0

*Data given as addenda.

Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill stations excluding Kashmir—*contd.*																											
Mercara	0830	1152	1524·1	888·2	+0·8	16·3	15·2	14·4	16·5	89	+6	3·7	−0·5	12·9	0	11	19	2	14	14	0	0	0	0	0	1	0
	1730	"	1511·1	886·3	..	21·8	17·8	15·5	1[illegible]·5	68	..	3·5	..	10·8	0	4	26	3	13	13	0	0	0	1	0	1	0
Ottacamund	0830	2249	1527·6	781·3	+0·9	12·8	9·4	6·0	9·6	66	+2	1·9	−1·1	1·2	0	0	6	1	2	1	1	1	0	0	0	25	0
	1730	"	1506·9	779·7	..	14·3	11·5	9·4	11·8	76	..	4·7	..	1·2	0	0	9	1	2	2	3	1	0	0	0	22	0
Coonoor (R)	0830																										
Kodaikanal	0830	2343	3165·3	773·0	+1·3	12·7	10·1	7·7	10·7	75	+11	4·7	+1·2	11·7	0	3	27	5	1	8	11	1	0	0	4	1	0
	1130	"	3172·3	772·9	..	15·3	11·9	9·0	11·7	69	..	5·4	..	11·4	0	4	26	4	1	4	11	2	0	0	8	1	0
	1730	"	3147·0	771·3	..	12·6	11·2	10·1	12·4	86	..	5·8	..	5·6	0	1	21	3	3	1	5	2	0	1	7	9	0
Nepal																											
Kathmandu	0830	1324	1531·3	871·9	..	5·6	5·0	4·2	8·3	91	..	3·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	"	1525·6	870·6	..	15·5	10·4	5·4	8·9	53	..	3·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	"	1509·3	869·1	..	12·1	9·0	5·7	9·3	65	..	2·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sikkim																											
Lachen	0830	..	..	..	..	5·8	3·0	0·6	5·8	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Tisra	0830	.	..	..	.	16·8	13·0	9·2	12·2	62	..	2·3	..	7·1	0	1	21	2	0	1	0	1	5	9	2	9	0
	1730	..	..	.	.	19·5	13·8	8·3	11·1	50	..	2·2	..	3·8	0	0	23	1	0	1	0	0	4	16	1	8	0
Hazaribagh	0830	615	1017·8	947·4	.	15·7	12·5	9·7	12·1	69	..	2·5	..	4·9	0	2	19	1	0	4	0	0	2	7	7	10	0
	1730	"	1014·0	944·9	..	17·0	13·3	10·1	12·7	65	..	1·9	..	1·8	0	0	12	4	0	0	0	0	0	5	3	19	0
Konar	0830	..		.		..		..	..		..	2·4	.	..	0	10	21	0	0	1	1	0	0	22	7	0	0
	1730	..	.	..	.	..	..	..	.	..	.	2·1	..	..	0	1	30	0	0	1	0	0	0	24	6	0	0
Bokaro	0830	242	1018·6	990·1	..	13·5	10·9	8·3	10·9	71	..	1·7	..	2·9	0	0	30	0	1	0	1	0	10	6	12	1	0
	1730	"	1014·4	986·2	..	17·9	14·3	11·3	13·4	66	..	1·7	..	3·2	0	0	30	5	9	2	7	0	1	1	5	1	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	2·4	..	..	0	0	31	1	0	4	0	1	2	18	5	0	0
	1730	..	..	..	..	..	..	..	..	..	..	1·2	..	..	0	0	31	15	0	0	0	0	0	7	9	0	0
Ramgarh	0830	..	..	..	..	14·5	12·3	10·3	12·5	75	..	2·4	..	0·8	0	0	8	0	0	0	0	0	3	4	1	23	0
	1730	..	..	..	.	20·5	15·2	10·4	13·1	53	..	2·6	..	6·3	0	0	3	0	0	0	0	0	1	0	2	28	0
Panchet Hills	0830	..	.	..	.	18·2	14·1	10·5	12·8	62	..	2·7	..	2·1	0	0	18	0	1	0	0	1	6	9	1	13	0
	1730	..	.	..	..	20·3	14·7	8·4	11·1	45	..	2·7	..	0·6	0	0	6	0	2	0	0	0	0	0	4	25	0
Durgapur	0830	..		..	..	19·4	15·3	11·9	14·0	63	..	0·8	..	6·6	0	0	31	11	10	0	1	0	0	1	8	0	0
	1730			..	..	22·5	16·5	11·6	13·9	51	..	1·6	..	4·7	0	0	31	12	5	2	1	0	0	3	8	0	0
Mahanadi Catchment																											
Gunabahar	0830	..	..	.	..	16·7	13·5	10·7	12·9	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1018·1	999·7	..	22·2	16·6	14·0	16·0	67	..	2·4	..	2·4	0	0	21	4	1	7	7	0	0	1	1	10	0
	1130	"	1017·2	998·9	..	24·0	17·7	13·2	15·2	51	..	2·1	..	3·0	0	0	29	5	3	3	5	0	2	0	10	2	1
	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhimkund	0830	..	..	..	..	16·5	14·1	12·1	14·1	76	..	2·4	..	2·7	0	0	19	4	13	0	0	0	0	0	2	12	0
	1730	..	..	..	..	22·0	16·5	12·3	14·3	54	..	2·5	..	0·7	0	0	6	0	3	0	1	0	0	0	2	25	0
Sonepur	0830	..	..	..	.	19·9	16·9	14·7	16·7	73	..	..	..	4·4	0	0	29	1	6	3	4	6	8	0	1	2	0
Khijrawan	0830	..	..	..	..	19·0	15·9	13·6	15·6	72	..	2·5	..	(a) 5·7	0	0	30	2	1	5	14	4	1	2	1	0	0
	1730	..	..	..	..	19·9	16·5	14·1	16·1	69	..	1·7	..	6·5	0	0	31	2	6	8	9	2	3	1	0	0	0
Narbada Catchment																											
Burna Tawa	0830	..	..	..	.	16·0	13·9	12·0	14·2	78	..	3·0	..	5·5	0	0	22	0	12	1	1	0	8	0	0	9	0
	1730	..	..	..	..	23·1	17·6	53·6	15·7	56	..	2·5	..	1·5	0	0	5	0	4	0	1	0	0	0	0	26	1
Pachmarhi	0830	..	..	..	..	17·6	14·5	11·9	14·0	71	..	2·3	..	4·2	0	0	25	0	20	5	0	0	0	0	0	6	0
	1730	..	..	..	..	24·6	18·0	13·2	15·3	50	..	2·0	..	1·5	0	0	12	0	7	4	1	0	0	0	0	19	0
Tikri	0830	..	..	..	..	18·7	15·4	12·6	14·9	68	..	2·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Gandak Catchment																											
Jomosom	0830	..	..	..	..	(b) 2·8	(d) 0·3	(c) -3·1	(d) 4·7	(c) 65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	5·0	1·9	-1·9	5·2	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	12·6	9·5	7·0	10·0	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·7	13·1	10·1	12·3	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tinsure	830	..	..	..	..	6·1	2·2	3·6	4·5	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·2	6·6	2·9	7·5	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	11·8	9·7	7·8	10·5	77	..	2·6	..	1·3	0	0	13	11	0	0	0	1	0	0	1	18	0
	1130	..	..	..	..	17·5	12·9	9·0	11·5	57	..	2·9	..	2·4	0	0	24	0	1	1	9	13	0	0	0	7	0
	1730		..	..	..	15·6	12·4	9·8	12·1	69	.	3·0	.	0·9	0	0	6	1	0	0	4	0	0	0	1	25	0
Gorkha	0830																										
	1730																										
Nuwakot	0830	..	..	.	..	13·6	11·1	8·9	11·4	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·5	12·1	8·3	10·9	58	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dadeldhura	0830	..	..	..	..	11·1	7·2	2·5	7·3	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·1	8·3	2·8	7·5	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Gadeldhura	0830	..			..	3·6	4·5	-0·7	5·8	54	..	1·8	.	5·7	0	0	28	0	1	11	10	3	3	0	0	3	0
	1730				..	3·5	5·0	0·6	6·5	69	.	2·3		3·7	0	0	26	0	0	0	1	0	6	6	13	5	0
Sallayana	0830			..	..	12·6	8·8	4·8	8·6	59		..													..	.	..
	1730			.	..	13·1	10·1	6·9	9·9	65		..			..	..									..	.	..
Butwal	0830	..	..	..	..	16·9	(a) 13·3	(a) 10·5	(a) 12·7	(a) 65				..	..	..	.	..		..	..			..	..	..	..
	1730	..		.	..	19·2	16·1	13·8	15·8	71	.				..	..								..	..	.	..
Bagmati Catchment																											
Katmandu**	0830	1324																									
	1730																										
Kosi Catchment																											
Chautara	0830				..	9·9	8·0	6·3	9·5	78	.												..	..	..		
	1730		..	.	..	13·2	10·1	7·5	10·4	68									..	.	..	.	..	.	..	..	
Chepua	0830	..	..	..	..	6·9	5·1	3·6	7·9	81		.				.		..	..		..	..	..	..	..	..	
	1730	..	..	..	..	9·4	7·2	5·6	9·1	77	.				..	..	.		..	.	..	..	..	..	..	..	.
Walungchung Gola	0830	..	..	..	..	4·8	3·9	3·0	7·6	88	..		..			..	..		..	..	..	..	..	..	..	..	.
	1730	..	..	..	..	1·4	(f) 1·2	(f) 0·4	(f) 6·3	(f) 89	..	.	..		..	..			..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	10·3	7·1	3·4	7·8	62	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·3	9·2	4·9	8·7	57	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..
Bhoteur	0830	..	..		..	9·9	7·9	6·0	9·3	77	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..
	1730	..	..	..	..	10·1	8·5	7·1	10·1	81	.	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830		.	..	..	8·8	6·7	4·7	8·5	78		4·0	..		..	..	..	0	0	0	0	1	0	0	0	30	0
	1130	..	..	..	..	13·2	9·2	5·4	9·1	60		3·8	.	..	..	..	..	2	0	0	0	4	0	12	2	11	0
	1730	.	..	..	..	10·3	7·3	4·4	8·3	67		4·0	..	.	..	..	..	0	0	0	0	9	8	3	0	10	1
Chhaidanga	0830	..	..	..	..	9·7	7·4	5·1	8·8	74		1·9	..	0·9	0	0	9	1	1	4	1	0	1	0	1	22	0
	†1130	..	..	..	..	12·3	8·2	4·2	8·2	59		2·8	..	2·3	0	0	15	1	0	0	1	3	5	3	2	6	0
	1730	.	..	..	..	8·9	7·4	6·1	9·3	83	..	3·0	..	2·5	0	0	14	2	0	0	0	0	0	6	6	17	0
Chainpur	0830	..	..	..	..	11·9	10·1	8·5	11·1	79	..	.	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·2	10·8	9·6	11·9	84	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	‡0830	..	..	..	..	14·3	10·7	7·3	10·2	63	..	..	..	.	..	..	.	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	(f) 15·9	(g) 11·0	(g) 6·3	(g) 9·5	(g) 52	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1019·4	1002·1	..	14·8	12·9	11·2	13·4	79	.	1·7	..	3·4	0	0	28	0	10	5	5	0	4	0	4	3	0
	1130	,,	1016·9	1000·0	..	21·0	16·3	12·8	14·7	60	..	3·0	..	3·5	0	0	29	0	0	3	1	2	14	5	4	2	0
	1730	,,	1015·0	998·0	..	17·7	15·6	14·0	16·1	79	..	2·9	.	3·3	0	0	30	0	7	7	13	1	2	0	0	1	0
Tista Catchment																											
Gangtok	0830	1812	1532·3	822·1	..	8·1	6·7	5·2	8·9	83	..	3·3	..	1·8	0	0	14	2	8	0	0	2	1	0	1	17	0
	1130	,,	1517·0	821·1	..	13·2	9·5	6·1	9·5	64	..	4·0	..	4·0	0	0	31	3	4	0	2	4	11	5	2	0	0
	1730	,,	1506·5	819·7	..	9·8	8·0	6·3	9·5	80	..	5·1	..	2·8	0	0	26	2	3	0	2	7	10	2	0	5	0
Gezing	0830	..	..	..	..	11·8	8·8	6·1	9·4	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·1	8·8	6·7	9·8	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not available.
†Observations for 21 days.
(a) Mean of 30 days
‡Observatons for 25 days.
(b) Mean of 29 days.
(f) Mean of 25 days.
(d) Mean of 27 days
**Data included under 'Nepal'.
(g) Mean of 24 days.

TABLE III—SUMMARY OF OBSERVATION AT FIXED HOURS—JANUARY-DECEMBER 1962 (1883—1884 SAKA)

Sub Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temprature in °C: Dry bulb	Mean temprature in °C: Wet bulb	Mean temprature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amout	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Arabian Sea Islands.																											
JANUARY																											
Amini . . .	0830	4	1012·0	1011·5	..	26·2	23·1	21·5	25·6	75	+2	7·0	+4·1	4·8	0	0	26	13	8	0	0	0	0	0	5	5	0
	1730	,,	1009·3	1008·8	..	29·2	24·0	21·4	25·6	63	..	6·7	..	8·9	0	0	30	13	9	1	0	0	0	0	7	1	0
Minicoy . .	0530	2	1009·2	1009·0	..	24·3	22·6	21·7	25·9	86	..	2·8	..	6·3	0	0	28	13	10	1	2	0	0	0	2	3	0
	0830	,,	1011·4	1011·2	−1·5	26·4	23·9	22·7	27·6	80	+6	4·5	+1·6	5·7	0	1	28	18	6	0	0	0	1	1	3	2	0
	1130	,,	1011·6	1011·4	..	29·0	24·6	22·5	27·3	68	..	4·2	..	9·0	0	0	31	13	9	3	2	0	0	0	4	0	0
	1730	,,	1008·8	1008·6	..	28·1	24·1	22·1	26·6	70	..	5·1	..	7·4	0	1	28	18	6	0	0	0	1	1	3	2	0
	2330	,,	1011·1	1010·9	..	25·2	22·9	21·8	25·9	82	..	3·4	..	6·1	0	1	26	11	11	3	0	1	0	0	1	4	0
FEBRUARY																											
Amini . . .	0830	4	1013·5	1013·0	..	27·0	24·1	22·8	27·6	78	+5	4·2	+1·5	3·9	0	0	24	9	4	1	0	0	0	1	9	4	0
	1730	,,	1010·5	1010·1	..	29·8	24·9	22·6	27·6	66	..	5·2	..	5·7	0	0	28	12	6	3	0	0	0	1	6	0	0
Minicoy . .	0530	2	1010·8	1010·6	..	23·8	22·3	21·6	25·6	87	..	1·9	..	4·4	0	0	25	8	11	2	0	0	0	1	3	3	0
	0830	,,	1012·8	1012·6	−0·1	26·7	24·0	22·7	27·6	79	+5	2·7	−0·1	5·2	0	0	25	9	8	1	0	1	0	3	3	3	0
	1130	,,	1013·1	1012·9	..	29·2	24·6	22·4	27·1	67	..	2·7	..	2·7	0	0	28	11	10	2	1	0	0	1	3	0	0
	1730	,,	1009·8	1009·6	..	28·7	24·2	22·0	26·6	67	..	3·0	..	6·8	0	0	28	16	6	0	0	0	0	0	6	0	0
	2330	,,	1012·5	1012·3	..	25·1	22·9	21·8	26·1	82	..	1·2	..	6·1	0	0	24	10	8	2	0	0	0	1	3	4	0
MARCH																											
Amini . . .	0830	4	1012·7	1012·1	..	28·4	24·4	23·0	28·1	73	0	6·7	+4·2	4·6	0	0	26	10	4	0	0	0	0	0	12	5	0
	1730	,,	1009·5	1009·0	..	30·4	25·3	23·1	28·4	66	..	6·3	..	8·9	0	0	31	6	0	0	0	0	0	3	22	0	0
Minicoy . .	0530	2	1009·9	1009·7	..	25·3	23·4	22·5	27·3	85	..	2·7	..	5·0	0	0	23	12	3	0	0	0	0	2	6	8	0
	0830	,,	1012·0	1011·8	0	27·7	24·6	23·2	28·4	77	+5	3·7	+0·9	5·5	0	0	26	11	3	1	0	0	0	2	9	5	0
	1130	,,	1012·2	1012·0	..	29·8	25·4	23·3	28·8	69	..	3·2	..	8·	0	1	27	14	2	1	0	0	0	2	9	3	0
	1730	,,	1009·0	1008·8	..	29·2	25·1	23·2	28·6	70	..	3·5	..	8·2	0	1	29	14	3	0	0	0	0	1	12	1	0
	2330	,,	1011·6	1011·4	..	26·1	23·8	22·7	27·6	82	..	1·9	..	6·5	0	2	23	12	4	0	0	0	2	1	6	6	0
APRIL																											
Amini . .	0830	4	1011·2	1010·8	..	29·6	25·6	24·0	29·5	74	+3	5·7	+2·3	5·5	0	0	28	5	3	1	1	0	0	3	15	2	0
	1730	,,	1008·1	1007·7	..	30·4	26·0	24·0	30·0	69	..	5·1	..	10·4	0	1	29	5	0	0	2	0	0	9	14	0	0
Minicoy . .	0530	2	1008·8	1008·6	..	26·6	24·7	23·9	29·7	86	..	3·4	..	5·1	0	0	23	8	2	0	1	2	1	1	8	7	0
	0830	,,	1010·8	1010·6	+0·2	29·0	25·7	24·2	30·4	76	+4	3·9	+0·5	5·9	0	0	27	14	0	1	2	0	1	2	7	3	0
	1130	,,	1011·2	1011·0	..	30·4	26·3	24·5	30·7	71	..	3·8	..	7·8	0	0	29	9	1	2	2	0	1	1	13	1	0
	1730	,,	1008·2	1008·0	..	29·7	25·9	24·2	30·2	73	..	4·9	..	7·7	0	0	26	7	2	0	1	1	0	2	13	4	0
	2330	,,	1010·6	1010·4	..	27·0	24·9	24·0	29·7	80	..	2·9	..	6·1	0	0	24	12	1	1	3	0	0	0	7	6	0
May																											
Amini . . .	0830	4	1008·2	1007·7	..	29·0	26·0	24·7	31·1	78	+5	7·6	+3·0	12·5	0	8	21	2	0	0	0	0	5	6	16	2	0
	1730	,,	1005·8	1005·4	..	29·6	26·3	24·9	31·5	76	..	7·4	..	21·0	0	13	18	1	0	0	0	0	4	13	13	0	0
Minicoy . .	0530	2	1006·8	1006·6	..	27·6	25·2	24·1	30·0	81	..	5·9	..	13·5	0	8	20	0	0	0	0	0	2	14	12	3	0
	0830	,,	1008·4	1008·2	−1·6	28·7	25·7	24·4	30·5	78	+2	6·2	+1·9	10·8	0	6	23	1	0	0	0	0	0	16	12	2	0
	1130	,,	1008·9	1008·7	..	29·8	26·2	24·7	31·1	74	..	6·5	..	13·5	0	6	25	2	0	0	0	1	3	13	12	0	0
	1730	,,	1006·4	1006·2	..	29·2	25·9	24·5	30·7	76	..	6·8	..	15·7	0	10	20	1	0	0	0	0	1	14	14	1	0
	2330	,,	1008·5	1008·3	..	28·0	25·5	24·3	30·7	81	..	5·4	..	16·0	0	11	19	4	0	0	0	0	1	12	13	1	0
JUNE																											
Amini . . .	0830	4	1009·3	1008·8	..	28·7	25·9	24·7	31·1	79	−3	7·8	+1·5	15·8	0	9	21	0	0	0	0	0·	7	18	5	0	0
	1730	,,	1007·3	1006·8	..	29·3	26·0	24·6	30·7	76	..	8·0	..	17·9	0	11	19	1	0	0	0	0	4	20	5	0	0
Minicoy . .	0530	2	1008·3	1008·1	..	27·1	24·7	23·6	29·1	81	..	4·2	..	11·5	0	1	28	0	0	0	0	0	2	18	9	1	0
	0830	,,	1009·9	1009·7	+0·3	28·1	25·2	23·9	29·7	78	−3	5·6	0	11·0	0	2	27	0	0	1	0	0	2	18	8	1	0
	1130	,,	1010·0	1009·8	..	29·2	25·7	24·5	30·0	75	..	5·8	..	13·2	0	4	26	0	0	0	0	0	2	19	9	0	0
	1730	,,	1007·9	1007·7	..	28·9	25·4	23·8	29·5	74	..	6·2	..	13·0	0	3	27	0	0	0	0	0	1	17	12	0	0
	2330	,,	1009·9	1009·7	..	27·4	24·8	23·6	29·1	80	..	4·5	..	12·3	0	4	25	0	0	0	0	0	2	17	10	1	0
JULY																											
Amini . . .	0830	4	1008·9	1008·3	..	27·9	25·9	25·2	31·7	85	+2	8·0	+1·8	27·8	0	29	2	0	0	0	0	0	6	24	1	0	0
	1730	,,	1007·2	1006·7	..	28·5	26·2	25·3	32·2	83	..	8·0	..	27·7	0	27	4	0	0	0	0	0	6	24	1	0	0
Minicoy . .	0530	2	1008·5	1008·3	..	26·5	24·4	23·4	28·9	81	..	6·5	..	16·5	0	7	24	0	0	0	0	0	3	27	1	0	0
	0830	,,	1009·3	1009·6	−0·3	27·6	25·1	23·9	29·7	81	+2	7·0	+1·7	14·1	0	6	25	0	0	0	0	0	5	20	6	0	0
	1130	,,	1010·3	1010·1	..	28·0	25·3	24·1	30·0	79	..	7·2	..	16·2	0	9	22	0	0	0	0	0	3	24	4	0	0
	1730	,,	1008·3	1008·1	..	27·6	25·2	24·1	30·0	80	..	7·5	..	18·4	0	11	20	0	0	0	0	0	4	21	6	0	0
	2330	,,	1010·4	1010·2	..	27·2	24·8	23·7	29·3	83	..	5·3	..	21·4	0	16	15	0	0	0	0	0	4	21	6	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
AUGUST																											
Amini . . .	0830	4	1010·8	1010·3	..	26·9	25·5	24·9	31·5	88	+5	7·9	+2·2	20·3	0	20	11	0	0	0	0	0	4	16	11	0	0
	1730	,,	1008·6	1008·2	..	27·6	25·9	25·3	31·9	84	..	8·0	..	20·6	0	18	12	0	0	0	0	0	2	17	11	1	0
Minicoy . .	0530	2	1009·6	1009·4	..	26·5	24·4	23·4	28·9	83	..	4·4	..	12·5	0	5	26	2	0	0	0	0	0	19	10	0	0
	0830	,,	1011·3	1011·1	+0·4	27·5	24·9	23·7	29·3	80	+1	6·5	+1·8	11·2	0	2	29	2	0	0	0	0	0	20	9	0	0
	1130	,,	1011·4	1011·2	..	28·6	25·4	24·0	29·8	77	..	6·3	..	11·6	0	2	27	2	0	0	0	0	0	16	11	2	0
	1730	,,	1009·1	1008·9	..	28·0	25·0	23·6	29·3	78	..	6·4	..	13·9	0	2	29	1	0	0	0	0	0	16	14	0	0
	2330	,,	1011·4	1011·2	..	26·8	24·6	23·5	29·1	82	..	4·7	..	14·6	0	5	25	0	0	0	0	0	1	16	13	1	0
SEPTEMBER																											
Amini . . .	0830	4	1010·1	1009·6	..	27·2	25·3	24·4	30·7	85	+4	8·0	+3·0	18·5	0	12	18	1	0	0	0	0	3	17	9	0	0
	1730	,,	1007·7	1007·2	..	27·8	25·6	24·7	30·9	84	..	7·9	..	20·0	0	19	11	0	0	0	0	0	4	15	11	0	0
Minicoy . .	0530	2	1009·0	1008·8	..	26·2	24·3	23·5	28·9	85	..	4·7	..	11·0	0	1	29	1	0	0	0	0	1	18	9	1	0
	0830	,,	1010·9	1010·7	−0·4	27·3	24·9	23·9	29·5	82	+3	5·9	+1·7	11·9	0	3	26	1	0	0	0	0	1	18	9	1	0
	1130	,,	1011·0	1010·8	..	28·4	25·6	24·4	30·5	79	..	5·8	..	12·7	0	1	29	1	0	0	0	0	0	21	8	0	0
	1730	,,	1008·4	1008·2	..	27·8	25·1	23·9	29·5	80	..	6·4	..	13·5	0	5	25	1	0	0	0	0	0	19	10	0	0
	2330	,,	1010·8	1010·6	..	26·6	24·7	23·8	29·7	85	..	4·4	..	14·5	0	6	24	2	0	0	0	0	0	17	11	0	0
OCTOBER																											
Amini . . .	0830	4	1010·3	1009·8	..	27·3	25·1	24·2	30·0	84	+5	8·0	+3·1	9·0	0	0	27	1	3	1	1	0	3	5	13	4	0
	1730	,,	1007·7	1007·2	..	27·9	25·2	24·1	29·8	80	..	8·0	..	10·1	0	7	19	0	1	2	1	2	2	6	12	5	0
Minicoy . .	0530	2	1008·6	1008·4	..	26·1	24·1	23·2	28·4	84	..	4·3	..	8·3	0	0	27	0	0	0	0	0	2	17	8	4	0
	0830	,,	1010·6	1010·4	−1·0	27·2	24·8	23·6	29·3	81	+4	6·2	+2·0	9·7	0	0	29	0	0	0	0	0	3	17	9	2	0
	1130	,,	1010·7	1010·5	..	28·5	25·2	23·8	29·3	76	..	6·0	..	9·7	0	1	29	0	0	0	0	0	3	17	9	1	0
	1730	,,	1008·2	1008·0	..	27·5	24·7	23·4	28·8	79	..	6·6	..	11·9	0	3	28	1	0	0	0	0	2	18	10	0	0
	2330	,,	1000·4	1010·2	..	26·4	24·4	23·4	28·9	83	..	4·6	..	10·9	0	2	28	0	1	0	0	0	0	18	11	1	0
NOVEMBER																											
Amini . . .	0830	4	1012·9	1012·4	..	27·9	24·6	23·0	28·3	75	0	6·5	+2·6	4·2	0	0	27	12	8	0	0	1	1	2	3	3	0
	1730	,,	1010·0	1009·5	..	28·8	24·7	22·9	27·7	71	..	6·4	..	4·4	0	0	29	7	14	1	0	1	1	1	4	1	0
Minicoy . .	0530	2	1010·5	1010·3	..	24·3	23·1	22·6	27·3	90	..	2·9	..	2·3	0	0	11	3	5	0	0	0	0	0	3	19	0
	0830	,,	1012·6	1012·4	+0·8	27·5	24·8	23·6	28·9	79	+1	4·6	+0·6	3·5	0	0	18	4	9	1	0	0	0	2	2	12	0
	1130	,,	1012·5	1012·3	..	29·2	25·3	23·6	28·9	72	..	4·9	..	7·1	0	0	28	8	10	5	0	0	2	1	2	2	0
	1730	,,	1009·9	1009·7	..	28·3	24·8	23·2	28·3	74	..	5·3	..	4·8	0	0	24	8	6	4	1	0	1	3	1	6	0
	2330	,,	1012·0	1011·8	..	25·4	23·6	22·8	27·6	86	..	3·2	..	3·7	0	0	17	5	5	4	0	0	0	1	2	13	0
DECEMBER																											
Amini* . . .	0830	4																									
	1730	,,																									
Minicoy . .	0530	2	1011·2	1011·0	..	25·0	23·4	22·6	27·4	87	..	2·8	..	3·4	0	0	15	0	11	0	0	2	1	1	0	16	0
	0830	,,	1013·2	1013·0	+0·8	27·2	24·6	23·4	28·8	80	+6	4·0	+0·7	5·3	0	0	23	3	12	2	1	3	2	0	0	8	0
	1130	,,	1013·1	1012·9	..	29·6	25·4	23·5	28·9	70	..	4·6	..	7·7	0	0	29	2	11	5	1	2	4	2	2	2	0
	1730	,,	1010·6	1010·4	..	28·3	24·8	23·2	28·3	74	..	5·3	..	5·8	0	0	28	5	13	1	2	3	2	1	1	3	0
	2330	,,	1012·8	1012·6	..	25·7	23·8	22·8	27·9	84	..	3·2	..	5·4	0	0	23	4	10	4	0	3	2	0	0	8	0

* Data not available.

EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1962 (1883–1884 Saka)

In tables III (A):—

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

R=Heaviest Rainfall in 24 hours ending at 0830 hrs I.S.T.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bay Islands																		
Maya Bandar	33·9 1953	16·8 1957	63·2 1961	31·7 1956	16·7 1961	42·8 1962	34·0 1962	18·9 1955	9·4 1953	36·1 1955	18·9 1953	67·8 1953	35·0 1952	17·2 1952	402·0 1961	36·1 1952	21·1 1958	213·4 1955
Long Island	31·7 1958	18·3 1953	62·5 1962	33·3 1959	15·6 1953	156·0 1960	35·6 1959	19·4 1962	50·0 1959	36·1 1953	21·1 1956	100·3 1953	35·0 1961	21·1 1955	186·2 1955	33·3 1961	20·4 1961	209·8 1955
Port Blair	32·7 1958	16·7 1940	208·3 1922	33·3 1958	17·2 1949	131·1 1902	35·1 1958	17·8 1949	67·1 1881	36·1 1889	20·6 1939	206·8 1922	36·1 1889	17·1 1961	264·9 1891	35·6 1933	18·9 1961	258·3 1908
Car Nicboar	31·5 1958	16·1 1956	104·1 1954	35·0 1954	16·1 1956	82·5 1956	33·2 1958	16·8 1957	53·3 1953	34·1 1958	19·4 1960	99·6 1956	34·0 1958	21·1 1952	129·0 1955	32·2 1962	21·7 1956	127·0 1955
Nan Cowry	33·9 1954	21·7 1956	74·9 1953	33·9 1961	20·0 1956	91·2 1956	35·0 1954	21·1 1956	51·4 1961	36·7 1952	20·6 1952	82·7 1961	36·1 1952	18·9 1952	154·0 1960	32·3 1962	21·1 1956	120·4 1957
Kondul	30·0 1953	20·6 1956	168·7 1953	30·6 1961	19·4 1953	90·2 1953	31·7 1958	20·2 1960	84·4 1962	33·2 1960	20·7 1960	95·8 1955	35·0 1957	21·7 1956	133·3 1956	31·6 1957	21·7 1955	201·2 1954
Assam (Including Manipur, Tripura) Pasighat	26·6 1961	7·1 1959	41·2 1959	31·0 1960	7·5 1959	137·6 1961	33·2 1958	10·6 1962	99·2 1961	35·4 1959	15·3 1962	74·8 1962	37·4 1961	13·9 1961	125·2 1958	36·6 1961	20·3 1961	170·6 1962
Dibrugarh (mohanbari) Dibrugarh**	27·0 1961	3·7 1962	24·6 1956	30·0 1952	4·8 1960	55·9 1954	33·4 1960	8·3 1957	55·1 1955	34·8 1958	13·9 1954	102·6 1961	35·6 1961	15·0 1960	102·1 1959	37·0 1961	20·0 1961	112·8 1951
Digboi	26·6 1959	5·6 1956	52·3 1956	29·4 1956	7·4 1959	24·6 1959	32·8 1958	10·0 1957	40·1 1956	35·6 1959	13·8 1957	66·0 1957	36·1 1956	17·4 1957	57·2 1959	37·2 1956	20·6 1957	95·8 1957
North Lakhimpur	26·7 1955	2·8 1956	32·0 1962	30·2 1960	5·4 1958	22·4 1960	32·9 1958	8·1 1957	74·2 1955	35·1 1962	14·3 1959	99·6 1954	36·7 1961	16·2 1961	178·3 1958	36·7 1961	20·9 1957	119·0 1962
Sibsagar	28·9 1942	3·3 1917	43·7 1945	30·6 1942	2·8 1905	42·9 1892	35·6 1945	7·2 1917	113·0 1892	37·2 1960	12·8 1912	148·6 1913	42·8 1945	16·7 1893	188·2 1931	37·8 1881	19·4 1907	189·2 1903
Gohpur	26·6 1961	4·2 1960	14·0 1958	29·3 1960	5·5 1961	21·5 1958	33·2 1962	7·7 1962	34·2 1959	36·6 1962	13·8 1962	63·5 1962	34·9 1962	16·1 1962	95·5 1959	36·6 1961	19·4 1962	59·2 1962
Majbat	.. ..	.. ..	30·2 1962	.. ..	.. ..	22·1 1962	.. ..	.. ..	53·0 1961	.. ..	.. ..	95·3 1962	.. ..	.. ..	100·2 1959	.. ..	.. ..	235·0 1962
Jorhat (Aerodrome)	26·7 1955	5·2 1962	34·0 1954	31·1 1954	6·8 1961	18·3 1959	34·1 1960	8·9 1957	48·3 1954	37·5 1960	15·0 1960	58·2 1962	37·8 1960	16·1 1955	119·9 1957	37·3 1961	20·6 1955	146·6 1959
Tangla	28·2 1961	5·3 1962	31·0 1957	30·7 1960	5·9 1962	29·3 1957	35·4 1958	10·6 1962	48·3 1955	37·9 1960	13·9 1960	109·0 1959	38·9 1960	15·7 1962	86·2 1959	39·5 1961	21·1 1962	125·4 1959
Tezpur	27·8 1961	5·6 1945	29·5 1907	31·7 1952	6·1 1905	38·6 1940	36·7 1923	10·0 1927	62·0 1912	38·3 1960	13·3 1905	100·1 1946	38·9 1960	17·2 1955	148·1 1904	36·7 1953	19·4 1907	136·7 1904
Golaghat	28·3 1961	6·0 1962	20·8 1962	30·6 1954	1·1 1958	22·0 1959	35·6 1954	6·6 1958	37·6 1956	38·9 1960	15·6 1960	53·3 1958	38·9 1960	11·1 1958	134·6 1957	36·7 1961	19·9 1957	79·8 1961
Rangia	28·2 1960	5·5 1962	25·3 1962	30·6 1962	8·8 1962	35·6 1958	35·9 1962	10·8 1960	34·0 1959	38·4 1960	12·2 1960	40·6 1958	39·5 1960	17·1 1960	69·0 1962	36·2 1959	20·6 1960	175·6 1959
Chaparmukh	28·4 1958	7·3 1960	17·2 1962	33·3 1960	8·0 1961	15·1 1959	37·2 1958	12·0 1959	49·4 1961	41·1 1960	15·5 1961	26·8 1962	41·2 1960	18·8 1961	138·2 1961	37·8 1961	22·2 1961	76·5 1962
Goalpara	29·0 1959	6·1 1962	72·4 1957	32·4 1960	5·2 1961	31·7 1958	37·6 1958	10·2 1957	33·8 1961	39·9 1958	14·6 1957	108·8 1961	41·4 1960	16·7 1955	141·7 1954	37·0 1961	16·1 1955	162·4 1962
Gauhati	28·9 1955	5·0 1925	41·1 1945	35·0 1951	5·0 1920	53·3 1914	38·3 1909	6·1 1906	56·1 1915	40·6 1960	12·8 1907	75·7 1955	41·1 1960	16·1 1955	185·4 1941	36·7 1961	18·9 1955	194·3 1956
Gauhati (Bhorjor)	28·4 1958	5·1 1960	39·1 1957	32·2 1956	6·1 1951	16·5 1957	37·2 1954	10·2 1962	49·8 1955	39·5 1960	14·4 1952	100·3 1955	40·3 1960	17·2 1955	96·8 1958	36·7 1952	21·1 1955	173·7 1953
Dhubri (Rupsi)	28·1 1961	5·0 1960	55·4 1957	29·9 1962	4·6 1961	24·9 1958	38·2 1960	10·7 1962	46·4 1961	41·0 1960	14·8 1960	138·0 1959	41·2 1960	17·1 1958	85·0 1962	35·2 1960	20·4 1960	157·2 1959
Dhubri	29·4 1953	6·1 1905	54·1 1945	32·2 1901	2·8 1905	59·9 1904	38·3 1909	7·4 1961	107·9 1885	41·1 1939	12·2 1905	197·6 1948	41·4 1960	15·9 1957	226·3 1944	36·9 1960	13·9 1953	368·3 1909
Lumding	29·0 1961	3·4 1960	27·7 1957	33·9 1952	4·4 1956	34·5 1957	38·3 1958	8·4 1957	47·0 1959	41·9 1960	10·6 1951	34·8 1956	41·9 1960	17·2 1955	129·0 1961	39·3 1962	20·0 1953	135·6 1957
Umroi*																		
Tura	27·9 1961	5·6 1961	24·5 1959	31·7 1956	5·6 1961	32·3 1954	37·2 1958	12·1 1962	88·2 1959	38·5 1960	14·6 1961	101·1 1952	39·4 1960	13·8 1962	193·3 1952	34·2 1961	18·3 1961	167·4 1956
Haflong	24·6 1961	7·1 1959	48·0 1957	28·5 1960	5·4 1959	65·8 1954	33·3 1958	10·6 1959	192·3 1961	32·8 1960	12·6 1958	164·1 1955	35·6 1956	14·9 1958	248·2 1958	32·2 1955	17·6 1960	242·8 1960
Sil char (Kumbhirgram)	29·6 1959	7·2 1962	20·8 1958	31·3 1962	8·5 1961	48·0 1959	38·0 1960	12·2 1960	173·8 1961	38·4 1960	15·1 1962	127·8 1962	39·8 1960	17·9 1958	178·4 1961	36·3 1961	20·8 1961	277·7 1959
Silchar	30·6 1915	5·6 1899	100·1 1911	35·0 1912	5·0 1905	90·4 1927	37·8 1901	8·3 1927	245·4 1922	39·4 1937	13·9 1935	165·1 1934	38·9 1937	15·6 1886	290·3 1893	37·8 1900	19·4 1926	227·3 1913
Imphal (Tulihal)	22·9 1962	—0·3 1962	7·0 1962	27·2 1962	5·1 1962	10·0 1962	31·7 1962	6·0 1962	3·0 1962	33·7 1962	13·3 1962	29·7 1962	34·1 1962	15·0 1962	34·2 1961	33·4 1962	19·1 1962	105·2 1962
Kailashahar	29·9 1961	3·6 1962	14·0 1962	34·1 1960	5·9 1961	44·1 1962	37·7 1962	10·8 1960	76·4 1961	42·2 1960	15·2 1961	53·2 1962	42·0 1960	18·5 1959	72·4 1959	36·6 1961	21·3 1961	214·3 1960
Agartala	29·9 1961	3·9 1955	50·1 1957	34·4 1960	5·9 1961	45·0 1958	38·9 1962	10·0 1957	98·6 1960	41·5 1960	14·5 1962	141·2 1955	42·2 1960	16·1 1955	123·4 1956	36·3 1958	19·5 1961	228·6 1961
Sub—Himalayan West Bengal																		
Baghdogra	28·9 1954	3·4 1960	37·1 1954	31·7 1955	4·0 1961	12·0 1960	36·7 1954	8·7 1959	43·7 1956	41·7 1952	12·2 1962	86·1 1952	39·4 1957	13·9 1955	149·8 1962	36·7 1952	20·4 1960	209.8 1962
Jalpaiguri	28·9 1931	5·0 1937	37·6 1889	31·1 1931	2·2 1905	71·9 1914	36·1 1945	7·8 1906	68·6 1926	40·0 1932	10·6 1905	152·4 1945	39·4 1899	16·1 1910	161·0 1938	37·2 1927	17·0 1957	234·9 1903
Cooch Behar	28·8 1961	3·9 1955	34·0 1957	31·3 1960	5·9 1958	16·3 1954	37·3 1958	10·0 1958	35·2 1959	39·4 1954	13·9 1955	74·2 1958	39·9 1960	16·2 1960	137·8 1961	36·4 1961	19·4 1955	286·2 1958
Balurghat	29·8 1961	4·3 1962	3·9 1961	31·5 1962	6·3 1961	31·1 1961	37·9 1961	10·6 1962	3·5 1962	42·2 1961	15·6 1961	33·2 1962	42·8 1961	18·1 1962	49·6 1962	37·6 1961	20·8 1961	193·6 1961
Madlda	29·4 1958	4·4 1937	69·1 1957	33·9 1952	3·9 1905	45·0 1942	41·7 1941	7·2 1898	53·9 1926	43·6 1960	11·1 1953	63·0 1892	45·0 1958	18·3 1945	195·1 1938	44·4 1958	20·0 1955	167·9 1945
Gangetic West Bengal																		
Berhampore	31·2 1958	3·9 1933	69·6 1957	36·7 1926	5·0 1950	60·7 1937	42·2 1941	8·9 1898	62·2 1887	45·0 1954	15·6 1936	54·6 1893	46·1 1916	16·7 1882	155·7 1915	44·4 1953	19·4 1884	202·4 1898
Suri	31·1 1955	6·7 1962	132·3 1957	35·0 1960	8·3 1956	41·8 1961	41·1 1955	12·7 1957	24·0 1961	44·7 1961	17·8 1955	27·6 1962	46·1 1958	18·2 1961	80·4 1959	45·4 1958	20·0 1955	73·7 1956

*Observatory closed down from 23-1-1962

**Observatory closed from 1-6-1962

Heaviest Rainfall (Millimetres) in 24 Hours based on Data up to 1962

July			August			September			October			November			December			Based on data from		Sub-division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				BAY Islands
32·8 1960	21·1 1954	160·4 1959	32·2 1953	20·6 1953	109·7 1956	31·7 1962	20·5 1958	104·9 1954	31·8 1960	20·0 1955	93·6 1961	35·0 1953	20·0 1962	109·0 1959	31·1 1962	19·3 1958	85·0 1959	1952	1952	Maya Bandar.
33·3 1953	20·4 1960	146·4 1962	36·7 1952	21·2 1962	147·3 1956	32·7 1957	21·4 1957	252·4 1961	32·2 1952	21·1 1956	122·2 1952	32·2 1953	20·4 1962	119·1 1953	31·7 1954	17·2 1953	108·2 1962	1952	1952	Long Island.
32·8 1941	18·3 1941	164·9 1959	31·7 1932	19·7 1962	173·2 1934	31·7 1888	19·3 1961	178·1 1904	35·6 1906	19·4 1912	153·2 1926	31·7 1962	20·0 1949	147·3 1901	32·2 1896	18·8 1958	295·7 1937	1881	1881	Port Blair.
31·7 1957	19·9 1961	129·3 1962	31·7 1954	21·1 1956	148·6 1959	33·3 1954	20·6 1952	132·6 1958	31·7 1953	20·6 1960	198·4 1955	31·8 1962	19·4 1958	122·2 1955	35·6 1955	16·7 1952	158·3 1957	1952	1952	Car Nicobar.
31·4 1962	21·7 1962	139·2 1952	32·8 1959	21·3 1959	115·3 1956	31·7 1954	21·1 1956	102·8 1962	33·9 1953	21·7 1959	157·8 1960	33·3 1960	21·1 1955	104·4 1961	34·4 1953	20·6 1954	87·3 1957	1952	1952	Nan Cowry.
33·1 1957	21·1 1954	86·9 1957	31·7 1957	21·1 1955	131·0 1958	31·1 1957	21·6 1961	113·0 1953	30·8 1957	22·1 1961	162·6 1952	30·6 1957	21·1 1955	135·6 1960	31·6 1961	21·6 1961	150·2 1962	1952	1952	Kondul.
																				Assam (Including Manipur) Tripura
37·1 1962	21·9 1962	332·7 1959	37·0 1961	20·9 1958	320·8 1962	36·9 1961	19·6 1959	180·3 1958	34·6 1958	17·3 1962	132·6 1962	30·9 1961	11·1 1961	37·0 1961	27·4 1958	7·2 1961	15·4 1962	1958	1958	Pasighat
37·2 1952	21·5 1961	125·8 1960	36·7 1953	19·5 1958	103·2 1962	36·1 1951	20·8 1960	140·5 1954	35·0 1955	14·2 1960	78·0 1953	31·7 1952	7·4 1961	31·8 1957	28·1 1960	2·7 1961	22·9 1951	1951	1951	Dibrugarh (Mohanbari) Dibrugarh**
38·3 1960	16·0 1961	118·4 1956	37·7 1960	21·5 1958	98·2 1960	36·6 1958	19·4 1959	77·2 1959	36·7 1962	15·0 1957	157·5 1956	32·2 1962	10·7 1959	20·0 1961	30·6 1962	7·1 1962	25·4 1957	1956	1956	Digboi
36·9 1961	20·6 1954	199·9 1956	36·7 1957	21·7 1958	111·2 1958	36·1 1954	21·4 1960	155·2 1954	35·0 1955	10·6 1955	115·1 1956	31·7 1954	8·2 1960	45·7 1957	28·3 1954	3·1 1961	23·6 1954	1954	1954	North Lakhimpur
38·9 1883	20·6 1909	218·9 1929	37·8 1931	18·3 1944	154·4 1929	36·4 1958	19·4 1890	182·4 1902	35·6 1938	15·0 1938	99·6 1925	32·2 1896	9·4 1928	53·9 1930	28·9 1958	4·4 1916	36·3 1936	1881	1871	Sibsagar.
36·6 1962	21·1 1962	68·6 1959	36·0 1959	21·6 1962	58·6 1958	36·0 1958	20·5 1959	80·2 1959	34·3 1958	13·3 1962	98·6 1962	31·6 1958	8·3 1962	21·4 1962	27·7 1960	3·3 1962	40·4 1958	1958	1958	Gohpur.
.. ..	.. ..	96·0 1960	.. ..	.. ..	115·4 1957	.. ..	.. ..	96·8 1960	35·2 1962	14·9 1962	70·6 1955	29·6 1962	11·0 1962	39·2 1958	27·8 1962	6·2 1962	27·8 1956	1962	1954	Majbat
36·7 1961	21·7 1956	95·5 1959	37·2 1955	22·2 1956	129·3 1961	36·1 1955	21·4 1960	82·8 1958	35·6 1955	15·6 1957	76·0 1962	30·6 1958	9·4 1961	32·5 1961	28·9 1960	5·0 1954	14·7 1958	1951	1951	Jorhat (Aerodrome)
37·6 1961	20·9 1960	81·5 1955	36·6 1960	21·0 1962	106·4 1958	37·2 1962	20·3 1959	88·0 1959	35·1 1962	15·2 1962	69·8 1958	31·9 1958	9·2 1961	86·4 1956	29·5 1962	5·2 1961	20·6 1954	1958	1954	Tangla
36·7 1962	21·2 1962	142·7 1947	37·2 1953	20·3 1962	166·6 1952	36·7 1961	20·6 1959	102·9 1917	36·1 1956	14·5 1962	140·7 1909	33·3 1952	10·6 1953	59·9 1901	28·9 1960	6·1 1913	19·3 1907	1901	1901	Tezpur
36·7 1960	18·3 1957	118·0 1959	36·7 1960	17·2 1957	122·0 1961	36·7 1958	21·7 1960	96·0 1958	34·4 1956	17·5 1960	50·5 1955	31·7 1958	8·8 1957	36·3 1955	29·4 1960	6·3 1959	25·4 1957	1954	1954	Golaghat
37·3 1962	21·9 1960	145·0 1962	37·2 1960	22·3 1959	100·8 1960	36·8 1958	19·9 1960	99·3 1960	35·1 1959	17·6 1962	54·0 1960	34·5 1959	11·1 1960	20·3 1959	28·9 1960	8·8 1962	16·0 1962	1958	1958	Rangia
43·9 1961	23·8 1961	216·1 1961	37·8 1959	23·8 1962	152·4 1961	37·3 1958	20·6 1959	150·8 1960	35·4 1958	18·3 1959	83·2 1961	33·3 1958	12·2 1962	38.8 1961	30·0 1962	8·3 1961	8·1 1958	1958	1958	Chaparmukh
36·7 1962	21·1 1961	204·0 1960	40·5 1959	21·3 1960	112·6 1962	36·7 1959	18·3 1955	221·7 1958	36·1 1956	16·1 1954	94·2 1962	32·6 1958	10·8 1962	25·9 1956	31·1 1955	6·2 1961	19·6 1955	1954	1954	Goalpara
37·2 1962	20·6 1955	232·9 1933	37·8 1933	21·1 1955	187·7 1938	37·2 1928	20·0 1955	133·9 1949	35·6 1955	15·6 1921	94·3 1959	32·2 1950	10·6 1926	36·8 1924	29·4 1962	5·0 1918	21·3 1957	1906	1906	Gauhati
36·0 1962	21·9 1958	102·9 1951	36·1 1953	22·8 1955	129·2 1960	35·9 1957	21·2 1959	89·7 1953	34·4 1955	15·2 1957	60·2 1951	32·5 1957	10·6 1961	19·8 1956	30·9 1957	4·9 1961	16·5 1952	1951	1951	Gauhati (Bhorjor)
37·9 1959	22·7 1959	160·0 1957	36·1 1957	15·1 1957	195·8 1957	34·8 1960	21·4 1960	273·9 1960	33·8 1962	15·6 1957	220·0 1958	31·4 1958	9·4 1962	3·8 1957	28·2 1958	5·1 1961	3·0 1961	1957	1957	Dhubri (Rupsi)
37·8 1930	22·2 1951	285·7 1908	35·6 1942	21·7 1957	196·9 1924	35·0 1906	21·7 1960	363·6 1960	33·9 1956	17·2 1902	155·2 1919	31·1 1905	11·7 1903	82·5 1952	27·8 1944	7·8 1922	17·3 1894	1891	1881	Dhubri
37·9 1962	17·8 1955	114·3 1956	38·3 1953	21·1 1956	118·9 1952	37·2 1951	20·0 1953	91·7 1954	35·0 1956	14·7 1957	107·9 1952	32·2 1951	9·4 1953	101·6 1955	28·9 1962	6·1 1955	21·1 1957	1951	1951	Lumding
																				Umroi*
33·9 1951	19·4 1960	229·1 1951	35·6 1957	19·9 1962	284·7 1956	37·2 1958	17·4 1959	270·2 1960	32·8 1955	14·4 1962	164·3 1953	32·8 1952	9·1 1962	39·4 1952	30·6 1951	6·7 1961	5·3 1956	1951	1951	Tura
32·7 1962	18·9 1956	119·9 1960	33·2 1957	19·5 1962	105·2 1962	32·2 1959	17·9 1959	85·3 1957	32·7 1960	13·2 1957	237·1 1959	27·9 1961	10·6 1961	234·2 1955	25·6 1958	7·0 1961	35·6 1954	1954	1954	Haflong
37·2 1962	21·8 1961	104·4 1961	36·9 1958	22·4 1962	177·4 1961	36·6 1958	22·2 1958	124·4 1961	36·2 1958	17·4 1961	93·2 1959	32·4 1958	11·3 1961	30·0 1960	31·2 1960	8·5 1961	4·3 1958	1958	1958	Silchar (Kumbhirgram)
39·4 1896	21·1 1897	234·7 1915	38·3 1900	19·4 1906	154·9 1890	38·3 1887	18·9 1890	178·6 1939	36·7 1944	15·6 1914	186·2 1912	35·0 1900	10·6 1902	174·2 1955	31·7 1945	6·1 1913	100·8 1883	1881	1881	Silchar
32·0 1962	18·1 1961	71·6 1962	31·1 1961	20·3 1962	38·6 1962	32·0 1962	19·3 1962	28·6 1961	31·1 1962	11·7 1961	84·2 1962	28·2 1961	4·3 1961	23·3 1961	24·4 1962	0·8 1962	3·6 1961	1961	1961	Imphal (Tulihal)
37·1 1962	19·7 1961	79·9 1959	36·6 1962	21·8 1961	80·4 1961	35·6 1960	21·5 1959	83·8 1962	34·5 1962	17·7 1960	138·1 1959	31·9 1961	10·3 1961	57·2 1960	31·5 1960	6·3 1961	0	1959	1959	Kailashahar
36·4 1962	22·2 1958	136·9 1954	36·4 1957	22·8 1955	238·8 1955	35·3 1962	21·7 1956	115·6 1956	35·0 1955	14·9 1957	86·9 1959	32·8 1955	9·8 1961	104·7 1955	30·0 1960	5·8 1961	10·9 1956	1953	1953	Agartala
																				Sub-Himalayan West Bengal
40·4 1962	21·6 1960	208·3 1960	36·7 1957	22·1 1957	313·1 1961	39·2 1958	20·4 1960	148·3 1953	34·4 1962	13·3 1955	164·4 1959	33·3 1952	7·4 1961	20·3 1952	31·1 1951	2·4 1961	5·3 1956	1951	1951	Baghdogra
37·2 1933	22·2 1949	390·4 1892	37·2 1933	21·1 1918	220·8 1958	36·1 1933	21·1 1944	347·7 1886	35·6 1926	15·6 1947	244·3 1909	33·3 1952	9·4 1914	92·7 1924	30·0 1951	5·6 1918	53·9 1932	1891	1886	Jalpaiguri
36·5 1962	22·7 1960	296·6 1961	36·3 1957	32·8 1954	315·5 1957	35·6 1953	21·0 1959	329·7 1960	35·0 1955	15·1 1957	77·5 1958	31·7 1958	9·7 1962	0 ..	29·4 1953	4·2 1961	23·8 1958	1953	1953	Cooch Behar
37·3 1962	22·4 1962	35·8 1962	35·5 1961	22·2 1962	71·5 1962	35·5 1961	22·2 1962	60·4 1962	35·2 1962	16·5 1962	89·2 1961	32·5 1962	7.3 1962	0 ..	29·8 1962	4·7 1961	1·4 1961	1961	1961	Balurghat
38·7 1962	21·1 1906	191·8 1958	36·7 1957	22·8 1948	188·0 1918	36·1 1896	21·7 1940	215·9 1953	35·6 1932	15·0 1908	173.7 1874	33·3 1896	8·3 1934	64·3 1930	29·4 1951	5·0 1896	32·8 1913	1896	1886	Malda
																				Gangetic West Bengal.
38·3 1897	21·1 1962	221·0 1900	38·5 1962	21·7 1933	183·4 1939	38·9 1947	21·7 1956	182·9 1900	37·8 1951	16·1 1954	286·3 1917	35·0 1952	8·3 1934	75·2 1930	32·2 1951	5·7 1961	33·5 1913	1881	1881	Berhampore
38·2 1958	22·0 1960	131·8 1955	36·6 1960	22·8 1955	116·3 1956	34·9 1957	20·6 1956	238·3 1956	35·5 1957	17·0 1957	135·6 1959	32·7 1962	11·6 1962	49·5 1956	29·6 1957	7·1 1961	29·0 1956	1955	1955	Suri

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	
Gangetic West-Bengal (*Contd.*)																		
Asansol	31·7 1958	5·6 1934	51·6 1944	36·1 1952	5·0 1950	71·3 1961	41·7 1941	11·1 1923	44·2 1949	45·0 1954	10·4 1960	46·7 1945	47·2 1944	18·3 1927	127·0 1938	47·2 1926	20·6 1922	174·5 1957
Shanti Niketan	29·9 1961	5·2 1962	16·8 1962	32·5 1962	8·6 1961	46·5 1961	38·9 1962	12·8 1961	25·5 1961	44·3 1961	19·5 1962	7·6 1962	44·5 1961	19·5 1962	91·9 1962	42·1 1961	22·3 1962	75·6 1962
Krishnanagar	34·4 1912	3·9 1934	51·8 1898	37·8 1896	3·9 1886	73·7 1943	42·2 1941	7·8 1898	87·4 1886	45·0 1954	13·9 1886	114·5 1946	46·1 1958	16·7 1895	138·4 1918	45·1 1958	20·0 1907	209·3 1890
Purulia	31·1 1958	5·9 1962	20·4 1962	35·0 1952	7·2 1956	25·2 1961	41·7 1955	13·5 1957	35·3 1956	43·9 1954	16·1 1955	52·2 1962	45·6 1955	20·0 1952	48·8 1959	45·6 1953	20·0 1962	71·3 1962
Bankura*	.. ..	.. ..	33·0 1957	.. ..	.. ..	53·2 1961	.. ..	.. ..	34·0 1960	.. ..	.. ..	64·8 1962	.. ..	.. ..	45·4 1958	41·6 [illegible]2	24·9 1962	60·7 1 957
Burdwan	36·7 1951	4·4 1962	43·7 1944	37·8 1896	4·4 1905	84·1 1938	41·7 1941	10·0 1928	115·8 1887	45·0 1897	16·1 1886	116·8 1909	46·1 1916	18·3 1882	244·3 1893	45·6 1926	20·0 [illegible]3	175·3 1928
Barrackpore (Aerodrome)	31·1 1958	5·0 1962	39·9 1957	34·6 1960	8·2 1961	20·1 1957	40·1 1958	11·0 1957	34·5 1960	41·9 1959	17·3 1957	35·0 1958	42·9 1958	16·6 1962	79·2 1961	43·3 1958	19·9 1957	84·8 1962
Calcutta (Dum Dum)	31·7 1958	6·1 1962	27·2 1957	35·6 1952	7·6 1961	17·0 1957	40·6 1955	12·2 1957	24·8 1960	42·8 1954	18·1 1957	80·4 1962	42·9 1958	17·9 1962	45·2 1962	41·8 1957	21·7 1953	129·0 1956
Calcutta	31·9 1958	6·7 1899	46·7 1943	36·7 1952	7·2 1950	80·8 1906	41·1 1941	10·0 1898	69·9 1907	43·3 1954	16·1 1905	107·4 1918	43·7 1958	18·8 1887	156·2 1893	43·9 1924	21·1 1900	303·5 1908
Midnapore	33·9 1912	6·1 1934	54·6 1957	37·2 1922	5·6 1950	66·0 1931	42·8 1953	11·1 1925	79·5 1920	45·6 1938	17·2 1953	78·2 1949	46·7 1943	19·4 1950	145·3 1956	47·2 1942	20·0 1950	276·9 1950
Contai	31·7 1958	8·9 1962	41·0 1959	37·2 1951	10·0 1953	29·0 1954	40·1 1958	14·7 1957	23·4 1951	41·2 1961	19·8 1962	37·3 1962	41·1 1960	17·2 1951	245·1 1960	38·8 1957	13·8 1961	207·5 1956
Sagar Island	30·6 1931	7·8 1899	41·4 1948	33·9 1952	7·2 1950	77·0 1885	38·3 1934	12·2 1906	125·7 1907	39·4 1908	12·9 1962	78·7 1921	38·3 1908	17·8 1893	202·7 1932	40·0 1929	19·4 1925	359·2 1927
Sandheads	32·6 1961	13·5 1960	33·0 1944	32·8 1961	18·2 1962	65·3 1958	36·4 1962	17·8 1960	62·7 1940	35·9 1960	23·1 1962	72·6 1911	35·5 1961	21·6 1962	87·9 1950	37·0 1961	16·7 1962	334·0 1940
Orissa																		
Baripada	33·8 1958	6·6 1962	28·4 1959	38·3 1959	9·9 1961	46·3 1957	41·6 1958	15·0 1959	53·5 1956	45·1 1961	18·2 1961	57·4 1962	46·9 1958	21·1 1961	53·2 1960	47·8 1958	22·5 1960	181·1 1956
Jharsuguda	32·2 1958	6·1 1954	42·4 1953	35·6 1956	8·3 1961	46·7 1961	42·8 1955	11·1 1961	58·7 1951	44·8 1961	15·8 1957	31·7 1952	46·7 1956	21·1 1962	33·0 1956	46·1 1955	21·1 1955	159·2 1958
Keonjhargarh	29·7 1958	7·5 1962	17·0 1962	33·8 1960	9·3 1958	66·8 1961	38·3 1959	14·3 1960	45·2 1962	42·1 1961	17·1 1962	22·0 1962	42·7 1962	17·1 1962	35·8 1958	43·3 1958	20·5 1961	72·0 1961
Balasore	33·3 1958	7·2 1934	85·1 1908	38·3 1934	6·7 1905	76·2 1923	40·6 1955	11·7 1927	70·4 1897	45·0 1892	16·7 1905	71·4 1947	46·7 1897	19·4 1893	221·5 1887	46·1 1926	20·0 1900	217·2 1956
Sambalpur	33·9 1889	4·4 1954	90·7 1957	37·8 1896	5·6 1950	56·8 1961	43·3 1888	11·1 1954	46·2 1951	45·6 1942	14·4 1905	45·2 1909	46·1 1962	20·6 1951	107·9 1891	46·7 1955	19·4 1903	254·5 1882
Angul	34·4 1928	6·7 1923	48·8 1906	37·2 1934	8·9 1950	118·1 1961	42·2 1953	10·6 1906	52·0 1960	45·6 1941	16·1 1920	65·5 1928	47·2 1921	18·9 1910	84·3 1946	46·1 1958	21·1 1954	156·0 1925
Cuttack	35·6 1882	7·8 1923	61·0 1919	38·9 1896	10·6 1934	98·0 1917	42·8 1902	14·4 1906	99·1 1911	45·0 1903	17·2 1905	94·5 1899	47·7 1957	20·6 1946	142·7 1893	47·2 1948	21·7 1955	205·7 1925
Chandbali.	32·8 1950	7·8 1962	35·1 1948	37·8 1934	10·0 1942	50·2 1961	40·6 1954	13·9 1952	72·5 1962	43·3 1947	17·2 1943	52·3 1944	44·4 1961	17·8 1931	186·4 1936	46·7 1942	18·3 1931	164·3 1936
Bolangir	32·3 1958	7·7 1962	9·4 1959	35·6 1960	10·0 1961	53·2 1961	40·9 1959	15·5 1958	17·8 1960	43·8 1962	17·9 1961	33·2 1961	45·3 1960	24·4 1962	19·6 1958	44·9 1958	21·5 1961	68·6 1961
Phulbani	30·3 1960	1·6 1962	13·6 1961	33·9 1960	4·9 1960	49·8 1961	37·8 1962	9·8 1962	18·4 1960	41·8 1961	13·9 1960	10·0 1961	42·8 1962	18·9 1962	53·0 1961	41·8 1960	20·2 1961	104·0 1962
Titlagarh	31·7 1957	6·1 1954	27·4 1953	36·4 1962	10·0 1956	39·0 1961	42·2 1955	13·9 1952	26·7 1954	45·0 1956	16·1 1962	23·1 1958	46·7 1956	21·1 1951	76·7 1956	47·2 1955	21·2 1962	103·9 1955
Bhubaneswar	33·6 1958	9·4 1952	35·6 1953	37·2 1953	10·6 1956	52·6 1958	40·7 1959	15·9 1962	33·9 1962	43·9 1954	19·4 1952	34·3 1952	44·9 1958	15·0 1960	94·5 1955	45·0 1952	21·7 1955	91·4 1954
Puri	32·8 1946	10·6 1893	53·1 1921	35·0 1954	11·7 1955	107·9 1897	38·9 1899	15·6 1906	57·9 1919	41·1 1947	18·9 1946	82·0 1919	42·2 1943	16·7 1893	171·7 1893	39·4 1949	19·4 1908	200·4 1895
Gopalpur	32·8 1946	10·0 1899	47·2 1908	36·7 1954	11·7 1934	134·4 1937	40·0 1956	15·6 1925	95·8 1957	38·9 1940	19·4 1955	55·1 1894	43·3 1915	20·0 1948	126·5 1940	41·9 1958	21·1 1939	171·7 1914
Koraput	29·4 1958	4·1 1962	53·3 1953	31·7 1953	6·7 1956	10·2 1957	36·1 1953	10·6 1952	35·6 1954	38·3 1961	15·0 1956	53·9 1956	38·9 1956	16·9 1961	38·9 1951	40·0 1953	13·3 1961	234·6 1959
Bihar Plateau																		
Dumka	37·2 1962	4·4 1945	75·7 1957	36·1 1952	5·0 1905	77·5 1940	42·2 1953	8·3 1906	70·6 1891	45·0 1951	15·0 1905	47·0 1946	46·7 1916	17·2 1934	106·2 1914	46·7 1926	20·0 1922	170·9 1927
Daltonganj	32·2 1902	0 1923	77·2 1945	35·6 1914	0·6 1905	50·5 1908	42·8 1931	5·6 1898	36·8 1927	45·0 1898	11·7 1907	38·6 1914	46·7 1956	17·8 1932	62·2 1904	46·7 1897	11·9 1961	174·0 1907
Hazaribagh	30·6 1881	1·3 1962	68·1 1945	33·3 1896	3·3 1905	63·5 1927	38·9 1892	6·7 1898	44·2 1946	41·7 1956	13·9 1944	60·5 1925	43·9 1897	16·1 1878	84·1 1887	43·4 1958	19·2 1961	249·2 1911
Dhanbad	31·1 1958	8·0 1962	17·3 1957	33·9 1960	8·3 1961	49·7 1961	39·5 1958	13·3 1957	16·3 1958	43·4 1960	18·2 1962	27·9 1958	45·1 1957	19·5 1962	29·2 1962	45·9 1958	21·1 1962	96.2 1961
Ranchi	31·4 1961	3·9 1946	52·1 1945	33·9 1956	2·8 1950	78·5 1913	39·4 1955	7·8 1898	82·3 1891	41·7 1938	10·4 1960	58·7 1944	43·3 1948	15·6 1952	104·7 1914	42·8 1962	14·8 1957	165·6 1898
Ranchi Aerodrome	27·7 1958	5·0 1959	31·7 1959	33·3 1956	6·1 1961	43·8 1958	36·9 1959	10·4 1957	44·7 1956	41·0 1961	15·8 1959	49·5 1959	43·1 1962	18·9 1962	54·6 1959	42·3 1958	19·9 1959	76·4 1961
Jamshedpur	31·2 1961	5·7 1962	11·4 1962	35·6 1953	8·9 1961	55·6 1961	41·7 1955	11·7 1954	33·8 1951	44·4 1961	17·2 1955	33·4 1962	46·1 1962	21·7 1951	31·3 1961	45·6 1953	21·7 1956	214·1 1953
Jamshedpur (P.B.O.)	31·8 1958	4·7 1962	15·0 1954	36·1 1952	8·9 1961	52·0 1961	42·2 1955	11·7 1951	33.8 1951	44·4 1956	18·2 1957	46·2 1962	45·9 1958	20·4 1961	38·1 1955	46·6 1958	21·8 1961	108·5 1952
Chaibasa	33·3 1911	4·4 1934	75·2 1901	37·2 1911	6·7 1934	75·7 1906	42·2 1955	11·7 1927	43·9 1891	45·0 1941	15·6 1944	80·3 1946	46·7 1948	18·3 1938	58·4 1893	46·1 1958	20·0 1932	131·3 1919
Bihar Plains																		
Motihari	28·3 1902	2·2 1905	54·6 1900	35·6 1896	0 1905	66·0 1889	40·0 1941	5·6 1945	55·4 1891	42·2 1954	8·9 1905	67·3 1899	44·4 1903	15·0 1952	104·1 1890	43·3 1935	19·4 1903	234·2 1919
Forbesganj	30·4 1961	2·2 1955	40·4 1957	33·3 1955	6·0 1961	42·6 1961	39·0 1958	9·4 1957	19·4 1960	42·8 1954	12·8 1955	24·6 1955	42·9 1958	16·4 1960	121·4 1954	42·1 1958	20·6 1955	106·0 1960

*Observatory upgraded to classII from June, 1962

July			August			September			October			November			December			Based on data from		Sub-division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Gangetic West Bengal—(contd.)
40·0 1926	19·4 1947	269·7 1943	37·2 1932	21·7 1933	189·2 1935	36·1 1941	20·0 1946	269·0 1946	36·7 1932	15·0 1938	99·1 1929	36·1 1955	8·3 1926	99·1 1930	31·7 1946	5·8 1961	29·7 1929	1921	1916	Asansol
35·8 1962	23·2 1962	83·0 1961	34·1 1961	23·0 1962	60·0 1962	34·0 1962	23·1 1962	87·6 1962	32·5 1961	17·8 1961	48·4 1962	31·6 1962	11·2 1962	0·2 1961	29·1 1962	6·1 1961	0·1 1962	1961	1961	Shanti Niketan
37·2 1949	22·2 1955	244·3 1905	36·7 1956	21·1 1949	165·3 1926	37·2 1955	21.1 1887	293·9 1900	36·7 1960	14·4 1935	214·8 1959	36·1 1952	8·3 1934	151·1 1889	32·2 1954	5·0 1937	37·3 1954	1886	1886	Krishnagar
36·7 1962	17·8 1953	148·3 1951	35·0 1954	17·2 1953	118·8 1960	36·1 1955	17·2 1953	181·6 1958	35·6 1951	16·7 1954	96·2 1961	32·2 1952	11·1 1952	55·4 1955	30·1 1957	5·7 1961	7·4 1956	1951	1951	Purulia
37·0 1962	.. ..	115·2 1962	34·5 1962	.. ..	78·0 1960	35·2 1962	.. ..	106·0 1958	33·9 1962	.. ..	76·0 1959	32·7 1962	.. ..	57·1 1953	29·9 1962	.. ..	7·4 1954	1962	1951	Bankura*
38·9 1897	20·0 1953	299·2 1905	36·1 1945	21·7 1954	260·6 1909	37·8 1928	20·0 1953	304·8 1956	36·7 1951	16·1 1933	216·3 1959	35·6 1896	10·6 1883	106·9 1916	31·7 1951	4·4 1961	69·6 1934	1881	1881	Burdwan
35·6 1958	21·7 1958	82·8 1960	37·2 1962	23·6 1958	86·8 1961	35·4 1957	23·4 1960	164·0 1959	34·3 1957	18·5 1957	231·1 1959	32·0 1962	11·6 1960	37·8 1958	29·9 1957	6·7 1962	0·3 1959	1957	1957	Barrackpore (Aerodrome)
35·2 1958	22·5 1957	137·2 1953	35·5 1960	23·4 1962	109·9 1961	35·6 1957	23·2 1959	214·4 1956	35·9 1957	16·7 1954	150·2 1959	33·9 1952	11·8 1960	40·9 1951	30·9 1960	7·8 1962	15·2 1954	1951	1951	Calcutta (Dum Dum)
36·7 1920	22·8 1940	183·6 1905	36·1 1941	23·3 1935	253·0 1883	36·1 1939	22·2 1940	369·1 1900	35·6 1957	17·2 1954	172·2 1882	33·9 1952	10·6 1883	85·1 1950	30·7 1957	7·2 1910	53·1 1883	1881	1881	Calcutta
37·2 1926	22·2 1943	160·8 1929	36·1 1947	21·7 1955	201·2 1891	37·4 1962	21·7 1952	311·5 1958	36· 1907	15·6 1954	325·1 1942	33·9 1937	10·0 1934	111·3 1941	31·7 1957	6·1 1916	62·0 1914	1921	886	Midnapore
35·7 1959	21·7 1952	128·5 1957	36·7 1951	22·8 1954	169·1 1960	35·0 1951	21·7 1959	240·0 1958	34·2 1957	18·3 1954	200·7 1955	32·8 1952	12·6 1960	64·8 1955	31·1 1956	8·3 1961	29·7 1954	1951	1951	Contai
36·1 1920	16·2 1960	354·1 1913	36·7 1903	21·1 1953	232·4 1954	36·1 1921	18·4 1962	295·9 1960	33·9 1918	17·2 1998	321·6 1933	32·8 1944	12·2 1883	113·3 1955	29·4 1907	9·4 1896	91·9 1947	1881	1881	Sagar Island
32·9 1960	17·2 1960	290·8 1921	35·8 1960	22·5 1960	176·3 1946	35·2 1962	22·0 1961	137·2 1946	36·2 1960	22·4 1960	174·6 1962	36·3 1962	22·3 1961	132·6 1915	36·6 1962	12·0 1961	144·8 1906	1960	1906	Sandheads
																				Orissa
35·2 1958	23·3 1962	99·8 1958	35·8 1957	23·8 1962	198·2 1960	36·1 1957	23·4 1962	129·8 1961	35·9 1957	16·6 1962	187·6 1959	33·6 1962	11·1 1962	58·4 1958	32·6 1957	6·7 1961	1·2 1959	1956	1956	Baripada
37·0 1958	21·6 1959	139·8 1961	35·7 1961	22·2 1956	161·6 1960	34·8 1957	21·4 1961	120·8 1961	36·1 1957	13·9 1954	110·2 1952	33·1 1957	8·9 1960	22·1 1953	31·5 1962	6·1 1955	11·2 1961	1954	1951	Jharsaguda
34·3 1962	20·9 1962	101·6 1953	31·9 1958	21·8 1960	162·0 1960	32·6 1962	20·4 1962	158·0 1961	31·9 1960	15·5 1962	40·6 1959	29·6 1962	10·1 1960	13·1 1960	30·1 1962	7·1 1959	36·2 1960	1958	1958	Keonjhargarh
38·3 1897	20·0 1913	347·2 1940	35·6 1955	21·7 1933	255·2 1960	35·6 1922	22·2 1919	199·1 1961	36·1 1925	15·6 1926	323·3 1941	34·4 1896	8·9 1892	184·7 1950	31·7 1944	6·7 1897	78·7 1947	1891	1886	Balasore
40·6 1902	18·3 1910	401·3 1889	35·0 1954	21·1 1956	290·7 1960	36·1 1930	20·6 1921	220·4 1961	36·1 1920	12·8 1921	173·7 1936	33·9 1946	7·8 1926	106·2 1930	32·2 1902	4·4 1902	39·1 1885	1881	1881	Sambalpur
38·9 1926	21·0 1959	243·8 1932	36·1 1945	21·1 1956	257·3 1931	35·7 1960	16·7 1961	148·8 1939	35·6 1918	14·4 1926	117·9 1929	33·9 1918	8·9 1910	99·1 1915	31·7 1957	7·2 1937	27·5 1962	1906	1906	Angul
40·0 1897	21·1 1943	210·8 1943	37·2 1880	21·7 1943	320·8 1933	36·7 1901	21·7 1933	249·2 1891	38·9 1886	16·7 1926	292·6 1899	35·0 1896	10·6 1937	195·6 1950	33·3 1954	8·9 1922	54·9 1909	1880	1881	Cuttack
36·7 1929	21·7 1946	321·8 1941	35·3 1961	22·2 1933	194·3 1960	35·6 1951	21·7 1959	320·8 1950	35·6 1951	17·8 1952	169·7 1952	33·9 1949	11·7 1959	207·8 1950	32·8 1949	8·3 1961	49·5 1947	1931	1931	Chandbali
37·2 1958	21·0 1958	325·8 1958	38·4 1960	21·1 1958	116·0 1960	38·4 1960	22·2 1958	88·2 1959	34·6 1962	16·0 1960	70·6 1961	36·6 1960	11·0 1962	12·8 1959	32·2 1962	7·6 1961	16·4 1960	1958	1958	Bolangir
33·4 1962	20·4 1960	72·8 1960	31·7 1960	21·9 1960	152·7 1962	33·3 1960	20·3 1962	106·5 1961	32·3 1960	12·8 1960	27·1 1960	30·5 1962	5·6 1961	3·8 1961	30·0 1962	1·7 1961	6·4 1961	1960	1960	Phulbani
40·1 1962	21·1 1958	255·3 1958	36·2 1961	21·7 1951	130·8 1955	35·0 1953	21·7 1961	147·1 1952	37·3 1959	15·0 1954	59·7 1951	33·3 1956	10·6 1952	26·7 1958	31·7 1962	7·9 1961	4·0 1960	1951	1951	Titlagarh
36·1 1952	20·4 1960	144·4 1958	35·0 1952	21·7 1953	107·7 1954	35·0 1957	21·1 1961	163·0 1958	35·1 1957	16·1 1954	188·2 1954	35·0 1952	12·8 1953	15·6 1955	32·7 1957	9·4 1955	10·9 1954	1952	1952	Bhubaneswar
36·7 1938	21·7 1944	301·5 1918	36·7 1891	21·7 1896	167·7 1896	39·1 1961	17·2 1893	219·8 1934	36·1 1899	16·7 1901	316·2 1928	33·9 1914	13·9 1926	242·8 1915	32·8 1896	10·6 1895	88·9 1909	1891	1891	Puri
38·3 1957	20·6 1929	200·9 1936	37·2 1928	19·4 1911	229·9 1910	36·7 1920	20·6 1917	196·9 1886	36·3 1957	16·7 1897	281·7 1923	33·5 1957	12·2 1926	261·6 1923	32·2 1951	10·0 1902	105·7 1909	1891	1881	Gopalpur
31·1 1960	16·1 1957	232·7 1951	30·6 1958	15·6 1957	143·5 1957	30·0 1960	16·7 1957	110·8 1959	30·6 1957	10·6 1954	98·3 1958	28·9 1959	8·3 1961	43·7 1951	27·8 1960	3·9 1961	16·8 1952	1951	1951	Koraput
																				Bihar Plateau
40·6 1897	21·1 1948	146·3 1921	37·2 1938	21·1 1948	191·5 1888	36·7 1938	20·0 1956	266·9 1935	36·1 1957	13·3 1954	158·7 1890	35·0 1896	6·7 1934	115·1 1930	30·6 1954	5·0 1935	35·6 1913	1891	1886	Dumka
43·3 1902	19·4 1928	290·8 1920	37·2 1903	20·6 1916	193·0 1907	38·9 1958	17·2 1899	187·5 1946	37·2 1899	10·0 1921	75·2 1937	33·9 1918	5·0 1912	74·9 1924	31·4 1960	1·7 1930	41·9 1940	1896	1896	Daltonganj
38·9 1901	20·6 1940	221·7 1953	33·7 1957	20·0 1942	180·1 1888	33·3 1960	17·8 1950	147·1 1898	33·3 1957	11·1 1934	120·4 1917	31·7 1896	4·4 1879	95·0 1924	29·4 1950	0·5 1961	39·4 1885	1878	1881	Hazaribagh
44·0 1962	21·6 1957	76·2 1959	35·6 1957	21·7 1962	81·0 1959	35·1 1958	22·2 1957	82·6 1958	34·9 1957	16·8 1961	110·8 1959	32·7 1962	11·8 1961	2·1 1961	30·0 1957	4·1 1961	26.6 1962	1957	1957	Dhanbad
38·3 1902	13·2 1961	215·9 1896	35·1 1962	13·2 1961	147·3 1945	37·9 1962	14·9 1961	152·9 1893	35·1 1957	7·1 1961	231·1 1941	32·2 1896	5·6 1949	79·5 1930	30·1 1962	4·4 1955	32·8 1962	1891	1891	Ranchi
34·6 1962	20·8 1960	178·8 1958	32·0 1958	20·8 1958	120·0 1960	32·0 1957	19·4 1957	113·6 1957	31·9 1957	14·1 1961	111·0 1959	29·1 1962	9·2 1961	7·4 1956	28·3 1962	4·8 1961	21·4 1962	1956	1956	Ranchi Aerodrome
37·3 1962	23·1 1961	187·5 1952	35·6 1957	23·2 1955	169·2 1953	35·6 1958	21·1 1956	160·4 1958	35·6 1951	15·0 1954	115·4 1959	32·7 1959	8·9 1952	69·1 1953	31·1 1962	5·7 1961	12·5 1956	1951	1951	Jamshedpur
36.8 1958	21.7 1956	187.5 1952	35.1 1957	22 ·0 1959	92·5 1951	35·1 1958	20·6 1956	129·1 1957	35·6 1951	15·0 1957	67·0 1962	32·3 1959	8.9 1952	28.5 1951	31.3 1957	5.4 1961	12.7 1956	1951	1951	Jamshedpur P.B.O.
41·1 1926	21·7 1943	194·8 1929	37·2 1947	21·1 1913	200·7 1941	36·7 1911	21·1 1950	155·5 1953	36·6 1957	13·9 1954	214·6 1912	33·9 1937	7·8 1934	82·0 1941	31·1 1960	5·0 1913	38·1 1907	1911	1891	Chaibasa
																				Motihar
42·8 1955	19·0 1959	254·8 1935	37·2 1953	21·7 1884	203·2 1915	37·2 1953	20·0 1890	214·6 1898	36·1 1954	12·8 1895	158·2 1893	35·6 1955	7·2 1949	50·0 1932	28·9 1955	1·7 1896	33·8 1932	1884	1886	
38·1 1962	21·7 1954	196·9 1956	39·0 1957	21·4 1960	133·6 1955	37·3 1961	20·6 1955	228·6 1960	35·8 1960	12·8 1957	110·0 1961	34·0 1958	9·2 1962	32·0 1956	31·1 1955	5·6 1961	6·0 1961	1954	1954	Forbesganj

Sub-division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bihar Plains (*Contd.*)																		
Darbhanga	28·9 1932	1·1 1933	57·7 1957	33·3 1943	1·1 1905	43·9 1949	40·6 1941	7·2 1906	36·3 1897	43·9 1922	11·7 1912	60·5 1899	43·8 1958	17·2 1948	74·4 1923	43·3 1931	19·4 1930	243·8 1883
Muzaffarpur	.. ..	.. ..	25·4 1961	.. ..	.. ..	8·9 1952	.. ..	.. ..	33·3 1960	.. ..	.. ..	30·5 1952	.. ..	.. ..	55·9 1961	.. ..	.. ..	99·1 1952
Chapra	27·7 1961	6·2 1961	50·4 1959	33·2 1960	6·4 1961	15·0 1951	40·8 1960	11·9 1962	18·3 1960	43·9 1961	15·4 1960	17·2 1962	45·4 1960	20·1 1961	27·9 1953	44·8 1960	20·4 1960	135·4 1952
Purnea	28·9 1902	1·7 1955	86·4 1957	34·4 1896	1·7 1891	59·7 1882	40·6 1941	6·7 1927	40·6 1950	43·3 1891	11·7 1905	114·3 1925	43·9 1916	15·6 1885	220·5 1887	42·8 1958	17·8 1906	268·2 1881
Patna	29·2 1961	2·8 1933	57·4 1957	34·4 1896	2·2 1905	40·6 1949	40·6 1941	7·8 1906	53·1 1881	43·3 1956	14·4 1905	47·0 1962	45·6 1941	17·2 1932	109·2 1887	46·1 1931	20·0 1912	350·5 1897
Patna Aerodrome	28·8 1958	3·6 1962	51·8 1957	34·4 1952	6·1 1951	14·0 1962	40·0 1955	10·4 1957	36·0 1959	43·3 1956	15·1 1959	32·8 1953	45·4 1958	17·8 1954	32·0 1959	45·6 1953	21·1 1952	90·4 1953
Arrah	.. ..	.. .	103·1 1957	.. ..	.. ..	20·1 1954	.. ..	.. ..	76·5 1957	.. ..	.. ..	69·9 1953	.. ..	.. ..	123·0 1959	.. ..	.. ..	105·4 1953
Bhagalpur	29·4 1958	6·7 1956	91·2 1957	33·3 1956	8·9 1951	9·0 1961	40·0 1954	12·1 1957	16·7 1960	43·9 1956	13·3 1955	36·0 1959	44·4 1951	16·1 1955	70·3 1960	43·9 1953	21·1 1957	94·5 1952
Sabaur	29·0 1958	0·6 1934	99·6 1957	33·3 1949	2·8 1950	41·7 1942	41·1 1941	3·9 1945	34·3 1940	43·3 1960	13·3 1957	47·5 1942	45·1 1958	16·1 1934	58·6 1959	46·1 1931	19·4 1934	170·2 1950
Jamui	30·7 1958	3·8 1962	52·0 1959	35·0 1952	6·3 1961	18·4 1961	40·3 1960	10·0 1962	24·4 1952	44·4 1956	16·1 1958	21·8 1953	45·8 1958	19·1 1961	62·7 1952	45·6 1958	13·3 1959	68·6 1956
Dehri	30·6 1958	4·8 1962	30·0 1959	34·4 1952	7·9 1960	17·0 1952	41·1 1953	12·2 1957	30·4 1960	44·4 1956	17·2 1955	27·9 1951	46·7 1951	19·4 1960	54·0 1959	46·1 1960	20·6 1961	220·0 1961
Gaya	31·[illegible] 1939	2·9 1962	66·0 1901	35·6 1896	3·9 1950	49·8 1889	41·7 1941	8·3 1945	37·6 1891	45·0 1938	14·4 1886	41·4 1933	46·7 1948	17·2 1893	54·1 1904	47·2 1931	18·3 1913	229·6 1883
Uttar Pradesh (East)																		
Kheri	2[illegible]·8 1958	2·8 1955	49·8 1954	2·8 1960	5·1 1957	62·6 1961	39·4 1953	9·7 1958	37·2 1962	47·6 1961	15·0 1951	4·6 1952	45·4 1960	16·7 1958	46·7 1956	46·1 1958	17·3 1958	102·6 1961
Bahraich	28·9 1916	0·[illegible] 19[illegible]6	57·7 1953	54·4 1952	0·6 1905	49·5 1905	40·6 1941	5·6 1945	50·5 1914	44·4 1954	11·1 1943	61·0 1909	45·6 1953	15·6 1944	88·9 1938	46·7 1958	18·3 1914	269·5 1938
Nautanwa	28·8 1962	2·8 1955	33·0 195	31·7 1956	5·2 1957	27·2 1962	38·9 1955	9·0 1959	74·8 1962	43·3 1956	12·9 1960	30·8 1959	46·7 1962	16·6 1960	83·6 1956	44·4 1958	20·1 1960	182·6 1955
Hardoi	28·9 1952	2·8 1955	54·9 1957	2·8 1952	5·0 1951	35·1 1954	38·9 1935	9·4 1958	40·6 1957	43·9 1961	13·9 1955	6·3 1951	45·3 1958	19·3 1960	26·9 1956	48·3 1951	20·6 1954	134·1 1952
Gonda	28·9 1946	1·1 1933	52·6 1953	33·3 1952	3·3 1934	41·4 1935	41·1 1941	5·6 1945	40·4 1944	44·4 1938	13·9 1955	71·4 1933	49·9 1958	16·9 1960	104·1 1956	46·7 1942	16·7 1936	127·8 1938
Lucknow	30·6 1943	1·1 1946	95·3 1883	35·0 1921	1·7 1905	61·5 1928	41·7 1945	7·2 1945	28·2 1940	45·6 1898	12·8 1903	129·5 1909	47·2 1944	17·8 1886	103·4 1891	48·3 1901	19·4 1886	229·4 1886
Lucknow (Amausi)	28·3 1952	0·6 1955	42·3 1959	33·3 1960	4·4 1957	22·1 1954	39·4 1955	6·1 1954	25·4 1952	43·3 1954	12·8 1953	1·8 1960	45·0 1962	19·3 1958	57·0 1959	45·6 1953	21·1 1957	109·1 1958
Faizabad	26·8 1961	3·4 1962	30·1 1962	33·1 1960	3·9 1961	14·2 1962	37·6 1960	9·7 1961	16·7 1960	42·5 1959	14·3 1960	4·0 1959	43·5 1959	17·7 1960	44·0 1959	44·0 1960	21·8 1962	47·5 1960
Gorakhpur	30·0 1937	1·7 1933	72·4 1883	36·1 1896	2·8 1905	33·0 1949	41·7 1941	8·3 1927	47·2 1891	43·9 1956	12·2 1905	67·3 1887	48·3 1956	16·7 1937	110·2 1956	46·5 1958	16·1 1949	208·5 1932
Kanpur	1·1 1939	1·7 1950	48·5 1893	35·6 1 30	0·6 1905	59·2 1942	42·8 1941	7·2 1945	61·7 1944	45·6 1938	11·1 1905	25·9 1928	47·2 1941	17·8 1909	67·8 1959	47·2 1931	20·6 1922	133·3 1916
Kanpur (Aerodrome)	26·2 1959	2·0 1962	48·3 1962	33·9 1960	4·7 1961	19·1 1959	38·8 1959	9·9 1962	6·5 1960	44·6 1961	15·6 1960	0·5 1959	46·6 1962	18·3 1960	12·7 1959	45·7 1960	21·6 1959	23·4 1959
Sultanpur	27·3 1961	3·8 1962	31·5 1959	33·4 1960	6·3 1961	5·8 1961	37·9 1959	11·1 1959	10·7 1960	43·4 1961	15·9 1959	16·4 1962	45·6 1962	21·1 1959	28·4 1959	45·6 1960	22·2 1961	73·6 1962
Azamgarh	28·9 1952	1·6 1 62	38·9 1957	35·0 1952	2·9 1961	37·6 1949	43·3 1949	9·5 1962	28·7 1958	44·4 1961	14·8 1960	14·2 1955	45·6 1953	18·0 1960	30·0 1959	47·9 1960	20·2 1961	81·5 1950
Fatehpur	32·2 1943	1·1 1935	64·1 1962	35·0 1956	2·8 1950	49·8 1942	41·7 1953	8·3 1935	52·8 1950	45·0 1961	14·4 1946	37·1 1935	47·2 1952	19·3 1960	17·0 1948	46·7 1955	21·1 1947	74·7 1955
Ballia	28·8 1961	3·9 1957	43·6 1959	33·4 1960	5·0 1957	5·8 1961	40·0 1962	8·9 1957	33·0 1960	44·5 1961	13·9 1957	11·4 1960	45·7 1958	20·5 1959	42·0 1959	45·5 1961	21·1 1959	99·8 1958
Banda	32·2 1958	0·6 1962	65·6 1962	35·6 1956	3·3 1950	36·8 1954	41·1 1953	9·8 1959	20·1 1950	45·0 1961	16·1 1955	9·4 1961	47·8 1950	19·2 1960	29·0 1951	47·2 1958	21·0 1962	80·5 1953
Allahabad (Bamhrauli)	31·1 1934	2·2 1936	70·9 1900	36·1 1896	1·1 1905	51·3 1898	41·7 1931	7·2 1906	34·5 1958	45·0 1961	12·8 1905	26·4 1933	47·2 1922	17·2 1924	35·6 1917	47·8 1901	19·4 1930	176·0 1916
Varanasi (Babatpu)	29·4 1958	1·7 1955	37·8 1959	34·4 1952	5·0 1961	21·0 1954	41·1 1953	10·0 1954	11·9 1957	43·9 1961	16·1 1959	5·1 1957	46·2 1961	19·2 1960	26·8 1959	46·1 1953	21·6 1961	75·7 1955
Varanasi	31·1 1882	2·8 1955	69·6 1959	36·1 1884	1·7 1905	67·1 1949	41·1 1955	6·7 1906	37·1 1940	44·4 1954	11·1 1905	34·5 1928	47·2 1884	18·9 1926	51·6 1889	47·2 1901	20·6 1914	159·5 1890
Uttar Pradesh (West)																		
Mukhim	18·8 1962	-3·4 1960	66·0 1960	21·7 1956	—3·9 1961	45·4 1961	24·4 1958	—1·6 1960	79·5 1962	28·9 1958	4·2 1959	39·4 1957	31·7 1956	8·5 1962	39·6 1957	33·2 1958	9·4 1962	100·0 1960
Tehri	25·6 1961	—0·3 196[illegible]	50·3 1957	30·0 1956	1·3 1961	38·9 1961	34·2 1958	1·9 1962	29·7 1956	39·3 1958	9·0 1959	24·6 1957	41·8 1962	12·2 1962	39·9 1956	42·3 1958	12·1 1957	49·5 1958
Dehra Dun	26·1 1946	1·1 1945	79·5 1945	29·4 1956	—1·1 1905	106·2 1949	37·2 1892	—2·2 1945	81·5 1926	40·6 1892	7·8 1944	39·1 1898	42·8 1944	12·8 1947	79·3 1940	43·9 1902	13·9 1906	188·0 1925
Mussoorie	18·7 1957	—1·9 1957	48·3 1958	17·4 1957	—0·3 1957	9·7 1958	20·7 1957	1·7 1957	53·0 1962	25·5 1957	1·7 1960	52·1 1957	30·8 1957	8·1 1957	32·3 1957	30·2 1957	11·6 1957	80·5 1960
Roorkee	28·3 1898	—1·1 1935	101·6 1883	31·7 1956	—2·2 1905	111·0 1930	38·9 1945	2·8 1945	109·5 1955	43·3 1897	7·2 1905	38·3 1949	46·1 1884	14·4 1907	57·7 1910	46·7 1932	16·1 1900	148·8 1906
Najibabad	27·0 1961	0·6 1955	51·2 1962	32·8 1956	2·2 1958	48·3 1954	36·7 1953	2·2 1952	65·8 1962	40·9 1961	10·7 1960	17·8 1953	43·9 1962	15·6 1960	30·5 1956	45·2 1960	18·3 1954	89·5 1958
Meerut	27·2 1952	1·7 1951	54·0 1962	31·1 1960	2·8 1950	56·4 1949	37·8 1955	8·3 1954	54·6 1951	43·1 1958	12·2 1960	30·5 1946	45·6 1962	17·3 1960	19·0 1961	46·1 1962	19·4 1951	40·0 1961
Bareilly	29·4 1943	0·6 1905	61·0 1921	32·8 1884	0 1905	95·3 1915	40·0 1945	5·0	79·3 1926	43·9 1952	11·1 1905	38·1 1909	46·7 1884	16·1 1898	40·1 1956	46·1 1948	19·4 1912	218·4 1908

July			August			September			October			November			December			Based on data from		Sub-division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Bihar Plains (*Contd.*)
39·1 1962	21·0 1962	199·6 1926	37·5 1957	21·1 1912	264·4 1913	38·3 1961	19·4 1896	266·7 1925	38·7 1961	14·4 1914	214·0 1961	33·0 1943	7·2 1926	49·0 1912	36·6 1960	4·4 1908	25·1 1929	1881	1881	Darbhanga.
.. ..	.. ..	192·9 1957	.. ..	.. ..	193·5 1957	.. ..	.. ..	99·1 1960	.. ..	.. ..	54·6 1953	.. ..	.. ..	8·9 1952	.. ..	.. ..	14·0 1962	..	1951	Muzaffarpur.
40·2 1962	20·2 1960	120·9 1952	39·2 1960	23·7 1960	138·9 1952	36·6 1960	23·1 1962	179·3 1960	34·8 1960	16·4 1960	86·0 1961	32·2 1962	10·5 1960	44·7 1956	28·4 1962	5·1 1961	13·2 1956	1960	1951	Chapra.
37·4 1962	21·1 1921	204·2 1916	37·3 1957	21·7 1909	239·2 1918	27·2 1923	19·4 1890	318·5 1898	35·6 1957	10·0 1891	158·0 1929	32·8 1952	7·2 1883	114·8 1932	30·6 1953	3·3 1883	53·3 1913	1881	1881	Purnea.
41·7 1903	21·1 1931	177·8 1893	33·3 1903	21·7 1923	165·3 1914	37·8 1928	20·0 1890	366·0 1918	36·1 1932	15·0 1954	158·2 1894	33·9 1952	8·3 1934	63·7 1915	30·6 1951	5·0 1961	73·7 1929	1881	1881	Patna.
40·0 1962	21·1 1960	130·6 1957	36·1 1957	21·4 1959	127·3 1959	37·2 1951	22·2 1957	109·2 1953	35·6 1951	12·2 1962	89·3 1959	33·3 1952	7·8 1952	35·6 1956	30·6 1951	2·2 1961	19·6 1957	1951	1951	Patna Aerodrome.
.. ..	.. ..	107·9 1955	.. ..	.. ..	127·0 1953	.. ..	.. ..	132·0 1960	.. ..	.. ..	59·0 1958	.. ..	.. ..	51·3 1956	.. ..	.. ..	7·0 1962	..	1951	Arrah
39·0 1962	22·8 1956	82·3 1956	38·5 1957	21·7 1957	123·7 1955	37·2 1956	21·7 1953	194·7 1962	36·3 1957	16·1 1954	169·9 1961	34·4 1952	11·1 1952	37·1 1956	30·6 1951	5·2 1961	8·4 1954	1951	1951	Bhagalpur.
37·8 1958	22·8 1956	145·0 1934	37·4 1957	22·8 1962	107·0 1961	37·8 1933	21·7 1956	189·6 1962	35·6 1957	13·3 1954	185·2 1961	33·4 1957	6·1 1934	37·3 1956	29·4 1955	2·2 1961	7·9 1936	1931	1931	Sabaur.
40·2 1962	10·5 1959	122·4 1951	36·7 1957	11·7 1959	168·8 1960	36·1 1951	11·3 1959	180·6 1960	35·6 1951	8·6 1959	205·8 1961	33·8 1957	8·3 1952	22·9 1956	29·7 1962	5·1 1961	4·8 1961	1951	1951	Jamui.
42·2 1962	22·2 1951	164·4 1959	35·0 1960	23·3 1953	107·2 1958	35·6 1951	22·3 1962	79·4 1962	35·6 1951	14·7 1957	42·0 1959	33·9 1951	9·4 1952	64·0 1956	31·7 1952	1·8 1961	12·2 1961	1951	1951	Dehri.
43·3 1926	16·7 1886	209·8 1886	38·9 1935	18·5 1962	258·6 1942	38·3 1928	20·6 1890	200·4 1946	37·2 1918	12·8 1954	116·6 1894	35·0 1896	8·2 1960	81·8 1924	31·1 1929	1·4 1961	49·0 1885	1881	1881	Gaya.
																				Uttar Pradesh (East)
47·7 1960	22·2 1954	235·8 1961	36·7 1952	22·2 1957	132·4 1962	36·1 1956	18·9 1950	187·6 1960	35·0 1953	12·8 1954	167·6 1960	35·3 1957	6·1 1952	5·3 1951	28·8 1960	4·4 1950	14·2 1950	1950	1950	Kheri.
44·4 1902	20·6 1900	186·2 1955	38·3 1903	21·1 1956	325·9 1938	38·3 1907	18·3 1912	236·2 1919	37·8 1907	12·2 1935	171·5 1945	33·3 1951	5·0 1952	78·0 1927	31·7 1896	1·7 1931	81·0 1956	1896	1896	Bahraich.
42·1 1957	22·2 1957	191·2 1962	40·0 1956	22·4 1961	150·8 1958	39·9 1961	21·1 1954	203·2 1956	38·7 1961	14·3 1957	159·6 1958	34·9 1962	7·2 1954	7·5 1960	30·0 1953	3·2 1961	10·3 1961	1954	1954	Nautanwa.
42·0 1962	22·8 1955	153·9 1953	36·8 1957	21·6 1958	209·8 1962	36·7 1951	16·7 1950	214·6 1960	37·8 1952	11·1 1954	241·6 1960	33·9 1951	6·1 1952	7·9 1951	31·8 1959	1·7 1961	15·7 1950	1950	1950	Hardoi.
41·7 1957	20·0 1949	215·4 1955	37·2 1939	16·7 1956	306·6 1938	37·8 1932	18·9 1950	174·2 1953	37·2 1951	12·2 1957	145·0 1933	33·9 1940	5·6 1934	32·5 1932	28·9 1951	2·8 1954	29·5 1950	1932	1932	Gonda.
45·6 1903	21·6 1950	311·7 1947	38·9 1911	21·2 1958	177·8 1881	39·4 1920	17·8 1899	250·2 1915	40·0 1896	11·1 1895	128·4 1958	35·0 1951	5·0 1920	48·3 1927	33·3 1896	1·7 1902	50·5 1885	1881	1881	Lucknow.
41·7 1954	22·8 1953	272·4 1960	36·9 1957	22·2 1956	121·9 1961	40·1 1958	18·9 1962	148·6 1957	37·2 1952	10·6 1957	191·4 1958	33·9 1952	3·3 1952	4·8 1956	29·1 1959	0·6 1961	12·0 1961	1952	1952	Lucknow (Amausi).
40·3 1962	22·2 1960	104·5 1962	35·5 1959	22·3 1961	125·8 1962	35·8 1961	20·7 1962	66·0 1959	35·6 1959	12·9 1960	97·2 1959	31·6 1959	6·7 1960	0 ..	28·4 1960	2·9 1961	15·0 1961	1959	1959	Faizabad.
40·6 1926	18·9 1953	189·5 1937	37·2 1953	21·1 1944	284·5 1912	37·8 1928	17·8 1912	239·5 1930	36·7 1938	12·8 1895	218·7 1894	33·9 1952	6·7 1953	55·9 1956	29·4 1951	2·8 1913	28·7 1929	1881	1881	Gorakhpur
45·0 1903	21·7 1948	167·6 1924	40·6 1903	21·7 1948	235·2 1915	40·0 1932	16·1 1896	233·9 1915	40·6 1896	11·1 1895	136·1 1894	36·1 1940	5·0 1948	59·2 1911	31·3 1959	—0·9 1961	40·6 1950	1891	1891	Kanpur.
43·3 1962	21·7 1960	96·0 1961	35·7 1960	22·8 1962	107·6 1962	36·7 1960	20·6 1962	58·4 1959	36·1 1959	14·7 1960	117·9 1961	34·4 1962	6·1 1962	2·5 1959	30·3 1959	—1·4 1961	10·2 1961	1959	1959	Kanpur (Aerodrome).
41·7 1962	23·3 1960	120·5 1960	35·7 1959	22·7 1962	99·4 1960	36·2 1960	20·5 1962	97·0 1962	35·1 1960	15·0 1960	237·4 1961	32·9 1959	8·8 1960	0 ..	28·9 1960	3·3 1961	21·8 1961	1959	1959	Sultanpur.
41·1 1962	21·1 1953	186·7 1955	36·7 1957	21·3 1962	130·6 1953	38·3 1951	18·9 1962	210·8 1956	37·8 1951	12·3 1960	81·0 1958	36·1 1951	6·2 1960	40·9 1956	31·1 1954	0·9 1961	12·5 1950	1949	1949	Azamgarh.
44·0 1962	21·7 1949	175·3 1932	39·4 1945	21·7 1953	191·8 1953	38·3 1932	19·2 1962	125·0 1939	38·9 1951	12·8 1952	111·0 1960	35·6 1944	6·1 1937	12·2 1936	31·1 1946	1·9 1961	39·4 1950	1932	1932	Fatehpur.
43·0 1962	20·7 1957	119·2 1962	37·0 1960	20·7 1957	149·1 1958	36·1 1959	19·6 1957	95·8 1962	36·1 1957	10·4 1957	137·2 1961	34·0 1961	5·8 1957	0 ..	29·9 1958	4·8 1961	8·2 1962	1957	1957	Ballia.
44·2 1962	21·7 1949	167·7 1951	37·8 1962	21·7 1962	164·4 1961	37·8 1951	18·7 1962	109·7 1954	38·3 1957	13·2 1957	109·6 1960	37·8 1951	7·3 1962	61·0 1956	31·1 1959	0·8 1961	34·8 1950	1949	1949	Banda.
45·6 1901	22·2 1955	209·3 1920	40·0 1903	21·1 1953	335·3 1953	39·4 1928	18·3 1912	266·2 1938	40·6 1896	11·7 1898	163·3 1894	35·6 1918	5·6 1941	96·0 1956	31·1 1946	—0·7 1961	54·6 1886	1881	1881	Allahabad (Bamhrauli).
42·8 1962	22·1 1957	166·4 1955	36·4 1957	23·3 1961	137·6 1962	36·1 1960	22·0 1958	111·4 1959	35·6 1952	12·8 1954	36·4 1959	33·3 1952	6·1 1952	140·5 1956	28·9 1954	2·3 1962	11·9 1953	1952	1952	Varanasi (Bablapur).
45·0 1937	20·0 1919	288·3 1914	40·0 1903	22·2 1955	321·6 1940	38·3 1938	17·8 1912	349·5 1943	39·4 1896	11·7 1919	138·9 1900	35·6 1941	6·7 1926	74·9 1927	32·8 1956	2·2 1913	53·1 1929	1881	1881	Varanasi.
																				Uttar Pradesh (West)
28·2 1962	12·7 1962	105·2 1957	26·7 1957	14·4 1962	89·5 1960	26·1 1958	11·8 1962	101·1 1959	25·1 1961	2·7 1961	113·3 1956	21·9 1958	2·2 1961	33·5 1959	21·2 1960	—0·3 1962	77·7 1957	1956	1956	Mukhim.
40·0 1961	13·2 1957	73·7 1956	36·7 1960	20·0 1956	62·5 1958	36·1 1962	16·7 1962	70·6 1957	34·8 1960	8·6 1960	172·5 1956	31·1 1956	4·1 1961	25·2 1959	26·0 1958	—1·5 1961	39·8 1958	1956	1956	Tehri.
40·6 1931	18·3 1902	294·6 1890	37·2 1949	19·4 1932	332·2 1951	34·4 1938	14·4 1940	212·6 1924	36·1 1907	9·3 1961	137·4 1956	30·6 1952	2·8 1938	78·7 1911	27·2 1960	0 1954	108·5 1923	1881	1881	Dehra Dun.
23·4 1960	14·0 1960	139·7 1958	23·4 1960	14·9 1960	75·5 1960	.. ..	1·0 1960	45·7 1957	.. ..	.. ..	35·0 1958	16·1 1960	5·4 1960	15·4 1962	.. ..	.. ..	82·0 1957	1957	1957	Mansiari.
45·0 1931	21·1 1955	228·9 1889	39·8 1960	20·6 1914	192·8 1889	38·3 1899	15·6 1944	266·7 1888	38·3 1899	8·9 1953	231·7 1956	33·9 1952	2·8 1934	58·2 1911	28·3 1889	—0·6 1902	58·2 1923	1881	1881	Roorkee.
41·6 1957	21·7 1961	188·0 1958	36·7 1956	20·9 1957	130·0 1961	35·6 1956	15·6 1962	175·3 1957	35·0 1953	10·0 1954	160·5 1956	33·9 1952	3·3 1956	11·4 1956	29·7 1960	—0·6 1956	44·2 1961	1952	1952	Najibabad.
42·8 1949	22·2 1961	146·1 1953	38·3 1954	21·7 1956	168·0 1958	37·8 1951	19·8 1962	143·3 1955	37·8 1951	11·1 1961	113·0 1954	33·3 1952	5·6 1962	12·5 1951	29·1 1959	0·2 1961	23·0 1961	1945	1945	Meerut.
43·9 903	20·0 1931	251·2 1882	40·6 1918	21·1 1916	224·8 1961	38·3 1932	16·7 1899	206·8 1912	38·3 1918	8·9 1887	179·6 1884	36·1 1920	5·6 1934	63·0 1904	30·0 1960	1·7 1930	37·6 1923	1881	1881	Bareilly.

Sub-division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Uttar Pradesh (West) (*Contd.*)																		
Aligarh	30·6 1946	0·6 1935	40·6 1944	32·9 1960	1·7 1950	45·0 1954	41·7 1945	3·9 1945	26·3 1960	44·4 1948	10·9 1957	30·5 1933	46·1 1954	17·8 1957	39·4 1941	46·3 1958	18·6 1957	144·3 1933
Mainpuri	30·6 1946	—1·7 1927	31·5 1929	34·4 1922	—0·6 1905	60·2 1898	41·7 1945	5·0 1945	33·3 1957	45·6 1948	11·1 1903	29·7 1914	47·8 1943	15·6 1955	41·4 1960	49·2 1961	18·9 1949	191·0 1952
Agra	31·1 1946	—2·2 1935	49·5 1957	35·6 1897	—1·7 1929	51·8 1915	42·8 1892	5·6 1945	41·3 1960	45·0 1941	11·7 1940	32·5 1944	47·2 1943	16·7 1926	32·3 1926	48·3 1889	19·4 1922	97·3 1886
Agra (Aerodrome)	27·9 1960	0·7 1962	31·1 1962	33·8 1960	2·7 1961	11·8 1961	38·3 1959	8·8 1960	35·5 1960	43·2 1962	14·3 1959	0·8 1960	46·8 1962	18·6 1960	26·0 1960	46·8 1962	23·3 1962	21·0 1961
Orai	30·0 1952	2·2 1962	35·0 1961	34·4 960	2·2 1951	22·9 1954	41·1 1955	8·9 1957	22·1 1951	44·1 1958	12·2 1954	5·3 1952	46·7 1962	19·4 1951	37·0 1959	46·7 1955	15·6 1957	234·9 1952
Jhansi	33·3 1946	1·7 1935	83·0 1959	37·8 1930	0·6 1929	36·8 1944	43·3 1892	7·2 1945	42·2 1950	45·6 1958	14·4 1935	18·3 1933	47·2 1947	20·0 1947	40·6 1943	47·8 1924	20·6 1922	162·3 1942
Punjab (India) (Including Delhi) :																		
Pathankot	23·6 1961	1·4 1962	38·8 1961	28·9 1960	3·3 1959	32·8 1961	35·0 1958	6·7 1962	48·7 1962	42·2 1958	10·0 1959	15·1 1958	44·9 1962	14·6 1960	50·8 1959	46·1 1960	19·0 1961	52·3 1961
Amritsar (Rajasansi)	25·0 1952	—1·7 1962	43·4 1961	32·2 1953	—0·6 1958	25·9 1950	35·6 1953	3·9 1954	39·4 1951	43·3 1958	6·9 1960	15·2 1951	46·1 1954	12·9 1960	24·6 1951	46·7 1953	15·6 1958	39·6 1958
Adampur (Aerodrome)	28·1 1960	—2·6 1962	21·1 1959	33·9 1960	1·8 1959	40·5 1959	33·9 1960	4·9 1959	29·7 1962	40·2 1960	9·4 1959	8·9 1962	45·0 1960	21·6 1959	15·6 1959	45·5 1960	16·3 1962	33·0 1959
Ludhiana	28·9 1910	—1·7 1935	119·6 1911	33·3 1956	—1·1 1905	71·9 1942	41·1 1945	3·9 1945	89·9 1951	46·1 1941	8·9 1905	55·9 1944	48·3 1944	15·6 1924	31·2 1913	47·9 1958	18·3 1952	108·7 1894
Ferozepore	27·2 1952	—2·5 1959	45·2 1957	33·3 1953	0·6 1951	29·0 1954	37·2 1955	5·0 1951	55·1 1957	414·9 1958	10·3 1960	15·0 1955	47·2 1954	13·9 1960	29·0 1951	46·7 1954	15·5 1958	93·6 1960
Halwara (Aerodrome)	25·6 1961	2·2 1962	79·0 1962	29·1 1960	1·4 1960	14·2 1961	34·4 1962	5·3 1960	15·3 1962	41·4 1962	7·9 1960	11·0 1962	45·0 1962	13·4 1960	43·2 1959	45·6 1960	20·3 1960	30·5 1959
Chandigarh	26·3 1961	0 1956	63·4 1961	32·8 1954	0·0 1961	42·4 1954	35·6 1958	6·1 1956	49·2 1962	41·2 1958	11·2 1959	21·8 1957	44·6 1962	15·0 1955	17·8 1959	45·3 1958	17·8 1956	57·4 1959
Ambala	28·9 1946	—1·1 1947	104·9 1953	33·3 1956	—0·6 1905	146·8 1898	41·7 1945	3·6 1945	103·9 1956	45·0 1941	10·0 1944	82·0 1935	47·8 1944	14·4 1920	85·1 1913	47·8 1923	19·4 1939	105·9 1954
Ambala (Aerodrome)	25·6 1961	—1·4 1962	117·1 1961	30·6 1960	3·3 1961	64·2 1961	35·9 1959	7·5 1962	60·1 1962	40·6 1962	11·4 1959	7·5 1961	45·2 1962	17·2 1960	15·2 1959	45·8 1960	20·0 1960	64·2 1959
Patiala	27·8 1952	0 1962	52·0 1961	33·3 1956	1·7 1950	59·2 1949	37·8 1953	6·7 1957	44·2 1962	42·8 1958	12·8 1951	11·4 1957	46·7 1954	17·2 1955	16·8 1950	46·1 1955	19·4 1952	71·4 1960
Bhatinda	26·2 1961	0·6 1962	17·5 1962	31·8 1960	2·2 1960	11·0 1961	35·6 1962	5·6 1961	15·5 1960	44·7 1962	10·5 1960	8·3 1961	46·1 1962	15·8 1960	21·6 1960	45·9 1962	21·1 1962	41·0 1960
Kernal	27·2 1952	1·0 1962	52·0 1961	31·7 1960	2·2 1950	45·7 1954	36·7 1953	7·0 1957	33·5 1956	42·8 1952	11·2 1957	26·4 1955	46·0 1962	16·8 1960	21·1 1951	45·6 1958	18·0 1962	68·6 1954
Hissar	30·6 1952	1·0 1962	58·4 1948	34·4 1956	—2·2 1929	46·0 1937	45·6 1945	2·8 1945	39·4 1927	47·9 1958	8·3 1918	22·6 1944	48·3 1944	14·4 1948	41·1 1916	47·8 1954	17·8 1922	69·1 1939
New Delhi (Safdarjung)	29·4 1946	—0·6 1935	116·8 1885	33·3 1934	1·7 1950	104·1 1942	41·1 1945	4·4 1945	62·2 1915	45·6 1941	11·7 1940	40·9 1909	47·2 1944	18·3 1952	30·5 1885	46·7 1945	18·9 1932	235·5 1936
Palam (Aerodrome)	26·3 1961	—0·7 1962	45·5 1962	32·8 1960	2·2 1961	12·0 1961	37·2 1959	6·7 1962	12·0 1960	43·4 1961	11·7 1960	1·5 1960	46·2 1962	16·6 1960	15·9 1961	45·7 1959	21·7 1960	65·0 1961
Himachal Pradesh																		
Mandi	23·9 1956	—2·8 1955	76·0 1961	27·8 1957	0·2 1957	43·2 1959	32·3 1959	4·3 1960	38·3 1955	38·9 1958	6·7 1955	26·7 1955	41·4 1962	9·9 1959	24·6 1959	42·7 1958	15·3 1958	63·5 1956
Bilaspur	24·9 1960	—0·1 1962	57·9 1961	28·9 1960	0·8 1958	62·6 1961	33·9 1959	5·4 1961	65·7 1962	40·7 1958	8·8 1960	23·9 1957	43·9 1962	13·5 1958	27·4 1960	44·2 1958	10·9 1962	49·8 1957
Jammu and Kashmir																		
Misgar	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Gilgit	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Skardu	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Dras	5·0 1907	—42·8 1909	63·5 1943	6·7 1928	—43·3 1911	105·4 1928	10·0 1903	—33·9 1911	104·9 1930	18·3 1946	—25·0 1905	65·8 1928	25·0 1910	—15·0 1947	127·0 1958	30·6 1906	—10·0 1947	60·0 1958
Sonamarg	.. ..	.. ..	88·9 1950	.. ..	.. ..	77·2 1951	.. ..	.. ..	78·0 1951	.. ..	.. ..	55·9 1953	.. ..	.. ..	53·3 1955	.. ..	.. ..	50·0 1960
Leh	8·3 1916	—28·3 1899	24·4 1893	12·8 1953	—25·6 1943	16·8 1903	19·4 1908	—19·4 1903	16·0 1930	23·9 1941	—12·8 1903	22·1 1896	28·9 1893	—4·4 1886	22·3 1951	33·9 1882	—1·1 1886	11·7 1892
Shrinagar	17·2 1902	—14·4 1893	147·8 1930	20·6 1940	—20·0 1895	66·3 1906	25·6 1931	—5·6 1895	70·1 1920	31·1 1946	0 1920	65·3 1957	35·6 1936	2·8 1920	52·8 1931	37·2 1946	7·2 1935	65·8 1907
Srinagar (Aerodrome)	11·2 1961	—11·8 1960	40·1 1961	17·8 1960	—9·9 1959	36·4 1959	21·1 1962	—2·8 1959	46·8 1960	25·7 1962	—0·8 1960	48·2 1961	28·8 1960	5·1 1960	23·6 1959	32·7 1960	7·8 1962	21·1 1961
Gulmarg	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	—1·7 1955	.. ..	29·4 1922	—3·9 1935	83·3 1921
Qazigund*	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	29·5 1962	8·3 1962	11·1 1962	32·4 1962	9·1 1962	17·2 1962
Banihal	16·6 1962	—2·7 1962	14·4 1962	16·7 1962	—0·2 1962	55·9 1962	23·4 1962	—1·1 1962	70·6 1962	28·9 1962	4·7 1962	47·8 1962	31·3 1962	8·5 1962	7·9 1962	33·9 1962	9·9 1962	27·0 1962
Jammu	26·7 1926	0·6 1945	94·7 1932	31·7 1947	1·1 1929	110·7 1914	37·2 1945	4·4 1945	88·9 1915	43·9 1941	10·0 1918	66·0 1914	46·1 1954	15·0 1914	33·0 1930	47·2 1953	18·3 1936	114·8 1953
Jammu (Aerodrome)	23·7 1961	2·2 1962	56·4 1959	26·9 1961	2·2 1961	35·6 1959	32·0 1961	6·8 1961	17·0 1962	39·6 1962	12·1 1959	14·5 1961	44·4 1962	16·7 1962	9·4 1962	45·2 1962	18·4 1962	19·9 1962
Rajasthan (West)																		
Ganganagar	36·1 1948	—2·2 1945	35·1 1948	35·0 1953	—2·8 1950	28·2 1948	41·1 1942	0·6 1945	47·0 1957	46·6 1958	8·3 1940	22·3 1944	46·6 1962	11·7 1945	48·0 1951	50·0 1934	18·3 1952	99·1 1938
Anupgarh	25·7 1962	—1·0 1962	0 ..	32·3 1962	.. ..	0 ..	37·4 1961	5·2 1962	0 ..	45·3 1962	13·2 1961	18·3 1961	48·5 1962	21·7 1962	0 ..	.. ..	.. ..	.. ..

*Observatory started from May 1962.

July			August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Uttar Pradesh (West) (Contd.)
43·9 1948	20·6 1957	164·6 1942	40·6 1941	20·1 1957	155·7 1957	40·0 1938	16·7 1962	161·8 1947	41·7 1952	11·7 1949	138·7 1955	36·1 1944	5·0 1937	14·0 1959	32·8 1948	2·2 1945	17·8 1935	1932	1932	Aligarh.
45·6 1903	18·3 1934	135·9 1927	42·2 1918	21·7 1947	256·3 1949	40·6 1905	16·7 1942	186·4 1931	40·6 1896	10·6 1932	237·2 1960	36·1 1948	2·2 1926	31·7 1927	31·1 1959	—1·1 1926	59·2 1929	1896	1896	Mainpuri.
45·6 1919	17·0 1962	152·7 1886	42·2 1918	20·8 1957	149·9 1952	41·0 1962	17·2 1953	286·0 1939	41·1 1920	9·4 1939	169·7 1910	36·1 1909	2·8 1926	45·7 1911	30·0 1954	—0·6 1926	26·7 1923	1881	1881	Agra.
43·6 1962	23·9 1962	85·0 1962	38·0 1962	21·7 1961	119·8 1959	38·1 1961	16·4 1962	41·7 1962	37·2 1960	12·9 1960	18·2 1960	33·5 1959	4·8 1962	8·6 1959	29·2 1959	0 1961	5·2 1962	1959	1959	Agra (Aerodrome).
43·9 1951	17·8 1962	110·0 1953	37·8 1957	20·0 1950	232·4 1957	37·8 1951	17·8 1950	76·2 1957	38·3 1951	11·1 1957	220·4 1960	34·4 1959	4·4 1950	8·1 1951	30·6 1954	—1·7 1961	45·0 1950	1950	1950	Oria.
45·6 1900	21·7 1958	239·5 1927	42·2 1911	18·3 1960	249·7 1930	40·6 1913	18·3 1942	261·6 1910	40·6 1913	11·7 1916	119·6 1903	36·1 1941	5·0 1938	62·2 1927	32·8 1940	0·3 1961	24·4 1924	1881	1881	Jhansi.
																				Punjab (India) (Including Delhi)
43·1 1962	20·6 1962	244·6 1960	36·2 1962	19·6 1962	239·4 1961	35·9 1960	15·6 1962	120·4 1959	35·0 1960	11·4 1960	46·3 1958	30·6 1960	4·1 1962	22·4 1962	27·2 1959	1·9 1961	32·2 1960	1958	1958	Pathankot.
45·6 1954	20·6 1955	146·3 1948	40·0 1954	19·3 1957	79·8 1956	40·6 1949	16·9 1962	308·4 1962	38·3 1951	8·3 1953	190·5 1955	32·2 1952	—0·6 1949	19·3 1951	27·7 1958	—2·8 1950	21·2 1960	1948	1948	Amritsar (Rajasansi).
41·9 1962	21·5 1959	141·7 1962	37·5 1960	22·2 1962	81·2 1960	36·6 1960	15·7 1962	123·7 1962	37·1 1960	12·0 1960	59·3 1959	32·7 1960	1·9 1962	18·0 1962	26·8 1960	—1·1 1962	1·3 1962	1959	1959	Adampur (Aerodrome).
47·8 1881	16·1 1901	163·1 1893	44·4 1884	20·0 1961	184·9 1887	41·7 1905	15·2 1962	254·4 1962	40·0 1941	9·4 1932	354·3 1955	35·0 1909	0·3 1962	25·4 1957	29·4 1944	—1.1 1930	60·5 1894	1881	1881	Ludhiana.
45·1 1957	21·0 1961	119·6 1951	40·2 1962	16·2 1962	116·8 1953	39·4 1954	16·2 1962	209·6 1958	39·4 1952	8·3 1952	63·3 1955	35·0 1951	2·1 1962	42·7 1951	28·3 1953	—1·7 1950	44·5 1957	1950	1950	Ferozepore.
43·1 1962	21·1 1960	107·7 1959	39·3 1962	21·0 1961	104·8 1962	38·2 1960	17·5 1962	35·6 1959	37·8 1961	10·6 1960	19·9 1961	31·1 1959	2·2 1962	17·3 1962	27·3 1959	—0·4 1961	29·1 1960	1959	1959	Halwara (Aerodrome).
41·6 1957	18·3 1956	112·1 1961	38·4 1962	18·9 1956	105·2 1959	37·3 1958	16·7 1962	234·9 1955	37·0 1960	9·4 1955	63·7 1955	33·4 1958	4·4 1957	24·8 1961	27·9 1958	1·1 1955	32·0 1960	1954	1954	Chandigarh.
46·7 1903	19·4 1956	162·3 1945	43·9 1918	20·0 1939	226·9 1896	40·6 1951	15·6 1912	244·8 1945	39·4 1941	8·5 1898	138·4 1916	35·6 1947	2·8 1926	135·1 1951	29·4 1944	—0·6 1913	47·5 1924	1896	1896	Ambala.
42·4 1962	21·1 1962	162·8 1961	37·9 1962	21·6 1961	147·5 1960	36·6 1962	16·2 1962	233·5 1962	35·1 1961	9·2 1960	14·3 1961	30·7 1959	3·8 1960	15·9 1959	27·4 1960	0·9 1960	27·1 1960	1959	1959	Ambala (Aerodrome).
45·0 1951	22·2 1959	238·0 1949	40·4 1962	21·6 1957	163·7 1955	40·6 1951	17·1 1962	124·6 1962	38·9 1951	10·0 1948	81·0 1955	33·3 1952	4·4 1952	52·1 1951	28·3 1959	0·4 1961	21·3 1957	1948	1948	Patiala..
43·3 1962	23·3 1962	91·5 1962	40·7 1960	20·6 1961	114·5 1961	39·6 1960	16·7 1962	125·0 1962	38·7 1961	11·2 1960	18·3 1961	32·5 1962	2·8 1962	9·1 1962	25·4 1960	0·2 1960	19·2 1960	1960	1960	Bhatinda.
43·9 1959	20·6 1955	131·1 1950	42·0 1962	18·4 1960	167·6 1952	38·3 1951	6·7 1949	250·0 1962	39·3 1957	11·1 1957	130·3 1956	34·4 1953	4·5 1962	23·0 1959	27·8 1959	0·5 1961	23·6 1958	1949	1949	Kernal.
47·2 1947	20·6 1952	104·1 1923	43·3 1918	21·0 1962	346·7 1926	42·2 1938	15·6 1923	259·1 1917	41·7 1951	8·3 1949	122·7 1917	36·7 1943	2·5 1962	48·0 1959	33·6 1960	—1·1 1945	38·1 1924	1916	1916	Hissar.
45·0 1931	21·7 1943	266·2 1958	40·0 1945	21·5 1962	184·0 1961	40·6 1938	17·3 1962	176·5 1904	39·4 1951	9·4 1937	172·7 1954	35·0 1943	3·9 1938	20·8 1925	28·9 1959	—1·1 1945	53·3 1894	1881	1881	New Delhi (Safdarjung.)
42·8 1962	21·8 1960	119·3 1962	38·2 1962	21·4 1962	136·8 1961	36·8 1960	15·6 1962	58·1 1962	39·6 1961	12·2 1960	34·7 1961	33·4 1959	2·8 1960	35·0 1959	28·3 1959	0·2 1962	9·9 1962	1959	1959	Palam (Aerodrome).
																				Himachal Pradesh
39·5 1962	16·1 1955	141·8 1961	34·2 1957	16·6 1957	271·1 1960	33·9 1956	13·8 1960	98·6 1960	32·3 1961	6·7 1954	74·7 1955	29·5 1958	2·5 1961	31·8 1962	30·1 1962	—2·2 1954	35·3 1958	1954	1954	Mandi.
41·8 1957	20·8 1961	124·5 1960	37·5 1962	19·6 1961	92·4 1961	35·4 1957	16·1 1957	103·4 1957	36·0 1962	8·6 1960	62·4 1961	31·2 1962	3·0 1960	34·8 1957	26·5 1959	0 1960	40·2 1960	1957	1957	Bilaspur.
																				Jammu and Kashmir
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Misgar.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gilgit.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Skardu.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	—45·0 1910	81·5 1921	1901	1901	Dras.
33·9 1905	0·6 1907	36·8 1901	31·7 1907	—2·2 1913	40·0 1958	29·4 1906	—5·6 1906	58·4 1928	25·0 1916	—20·0 1937	88·9 1917	15·0 1902	—29·4 1911	61·7 1946	9·4 1904	..	54·4 1950	..	1948	Sonamarg.
..	..	42·2 1960	..	..	74·8 1960	..	..	251·2 1954	..	..	31·7 1949	..	..	29·2 1949	..	..	15·2 1944	1881	1881	Leh.
33·3 1883	0·6 1929	23·6 1882	32·2 1946	2·8 1941	51·3 1933	30·6 1883	—4·4 1940	25·9 1893	25·6 1916	—7·8 1926	39·1 1955	20·0 1929	—13·9 1962	16·2 1959	12·8 1891	—25·6 1937	64·5 1904	1891	1891	Srinagar.
38·3 1946	10·6 1919	79·0 1959	36·7 1946	10·0 1932	67·3 1929	35·0 1934	4·4 1940	102·4 1928	33·9 1931	—1·7 1934	59·9 1917	23·9 1946	—3·6 1960	64·3 1959	18·3 1901	—11·7 1902	66·0 1962	1959	1959	Srinagar (Aerodrome).
35·6 1962	11·9 1962	58·4 1959	33·8 1962	13·9 1961	33·8 1961	32·7 1960	6·1 1962	33·7 1962	28·3 1959	1·9 1960	11·7 1961	19·4 1960	—2·9 1960	67·2 1959	14·6 1959	—5·8 1960	..	1901	1901	Gulmarg.
29·4 1918	—2·8 1907	236·2 1959	26·7 1922	2·8 1951	115·3 1929	25·0 1934	—2·8 1940	90·9 1905	..	—5·6 1957	..	..	..	..	..	..	24·2 1962	1962	1962	Qazigund*
31·2 1962	11·7 1962	33·9 1962	30·2 1962	12·8 1962	23·2 1962	30·6 1962	6·6 1962	99·2 1962	23·4 1962	3·9 1962	15·4 1962	18·3 1962	—8·2 1962	25·8 1962	8·7 1962	—6·6 1962	79·8 1962	1961	1961	Banihal.
32·9 1962	14·3 1962	49·6 1962	30·9 1961	14·1 1962	21·3 1962	29·4 1961	7·2 1961	127·0 1962	28·4 1961	2·1 1961	22·3 1961	21·6 1962	—1·8 1962	57·7 1961	17·2 1962	—6·2 1961	66·8 1924	1911	1911	Jammu.
45·0 1951	16·1 1951	279·2 1961	41·7 1918	17·8 1912	228·6 1926	38·3 1954	15·0 1950	184·1 1950	37·2 1951	12·2 1914	160·0 1955	32·5 1958	6·1 1962	40·1 1928	27·2 1944	3·1 1962	45·7 1961	1959	1959	Jammu (Aerodrome).
43·3 1962	21·1 1962	335·3 1961	37·8 1962	21·1 1962	94·0 1962	35·3 1962	17·2 1962	172·8 1962	34·4 1959	13·3 1961	27·7 1959	29·4 1962	5·0 1962	33·2 1959	25·9 1959	2·0 1959				
																				Rajasthan (West)
46·7 1948	21·7 1952	86·1 1956	42·8 1946	21·7 1950	146·1 1948	42·8 1939	15·6 1944	135·8 1958	41·1 1952	6·7 1949	8·2 1961	37·2 1943	1·7 1938	20·6 1959	31·1 1959	—1·7 1950	29·6 1958	1934	1937	Ganganagar.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1961	1961	Anupgarh.

*Observatory started from May 1962.

Su division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Rajasthan (West)																		
Mahajan	26·1 1962	.. ..	8·5 1962	33·0 1962	.. ..	0 ..	37·0 1962	.. ..	2·0 1962	45·0 1962	.. ..	.. ..	47·8 1962	.. ..	0 ..	47·5 1962	.. ..	0 ..
Churu	29·2 1958	—1·1 1962	15·0 1957	33·8 1960	2·0 1961	8·2 1961	39·0 1959	6·2 1960	13·8 1957	45·9 1958	11·5 1957	2·5 1962	46·6 1962	15·6 1960	14·8 1960	45·7 1962	21·1 1957	65·0 1961
Bikaner	31·1 1952	—2·2 1954	25·4 1958	37·2 1953	—2·2 1950	46·7 1906	42·8 1924	—0·6 1898	43·9 1911	47·2 1925	8·3 1953	31·0 1944	49·4 1914	13·7 1960	48·3 1883	48·9 1897	17·8 1888	110·7 1894
Nagaur	28·2 1961	1·1 1960	2·3 1961	34·6 1960	2·8 1961	11·0 1961	40·1 1959	8·8 1962	2·0 1962	43·3 1962	14·8 1962	5·5 1959	45·8 1959	16·6 1960	16·0 1959	44·6 1961	19·7 1960	14·4 1960
Phalodi	31·1 1946	—3·3 1942	41·1 1944	37·8 1953	0·6 1951	23·4 1948	42·8 1961	1·7 1945	12·9 1948	47·0 1958	12·2 1953	28·2 1962	47·2 1956	19·4 1944	33·8 1953	46·7 1944	20·6 1945	84·8 1945
Jaisalmer	30·7 1961	—4·4 1949	7·6 1957	37·8 1953	—2·2 1951	8·4 1961	41·6 1958	6·0 1960	8·9 1955	43·9 1949	10·6 1953	20·8 1961	47·8 1956	17·0 1960	16·0 1951	45·8 1959	20·5 1957	135·4 1961
Jodhpur	32·8 1932	—2·2 1905	40·1 1948	38·3 1953	- 0·6 1920	22·6 1939	41·8 1959	5·0 1908	20·6 1926	48·0 1958	9·4 1918	26·7 1919	48·9 1932	17·2 1909	38·1 1916	47·8 1901	19·4 1914	152·9 1917
Barmer	33·3 1949	—1·7 1935	59·9 1945	39·4 1943	4·0 1957	23·6 1939	43·3 1946	8·9 1945	24·6 1940	48·3 1958	12·2 1945	23·1 1933	48·9 1932	16·7 1931	36·6 1945	46·7 1946	18·9 1931	99·4 1962
Munabao	.. ..	.. ..	0 ..	35·5 1961	4·0 1962	10·4 1961	40·0 1961	6·5 1962	3·0 1962	46·0 1961	14·0 1962	27·8 1961	45·0 1961	.. ..	0 ..	45·0 1962	.. ..	4·2 1962
Rajasthan (East)																		
Pilani	29·7 1959	—0·1 1962	6·2 1961	34·2 1960	1·8 1961	7·7 1961	39·2 1959	6·3 1960	15·2 1960	43·9 1962	11·9 1960	4·6 1960	46·1 1962	16·6 1960	33·0 1959	46·1 1960	21·6 1960	21·7 1960
Sikar	30·6 1949	—2·2 1955	19·1 1957	36·1 1953	—2·8 1951	16·5 1954	39·4 1949	4·4 1956	13·2 1960	44·4 1958	8·3 1955	5·3 1953	47·8 1956	15·6 1955	51·3 1959	43·9 1948	20·6 1954	53·3 1955
Alwar	28·3 1956	1·2 1961	34·0 1962	34·4 1959	4·4 1959	10·5 1962	38·4 1959	10·0 1956	29·0 1960	46·4 1958	14·7 1960	3·6 1959	50·6 1956	19·3 1958	23·1 1962	48·8 1957	23·3 1961	38·6 1957
Jaipur (Sanganer)	28·9 1952	0 1954	45·2 1957	36·1 1953	3·3 1956	12·5 1952	38·9 1953	7·8 1958	14·0 1957	44·9 1958	12·8 1955	6·3 1952	46·1 1956	16·6 1961	67·6 1959	45·6 1954	20·1 1957	50·6 1961
Dholpur	30·2 1958	1·4 1962	17·0 1961	34·7 1960	3·9 1960	19·3 1958	43·3 1955	8·9 1957	34·6 1960	45·8 1958	14·0 1960	8·1 1959	46·8 1962	19·8 1962	35·3 1959	47·1 1960	22·8 1962	76·2 1955
Ajmer	31·7 1902	—2·2 1935	46·6 1948	35·6 1953	—1·1 1905	33·0 1907	41·7 1892	2·2 1898	42·4 1932	44·6 1958	9·4 1886	38·1 1909	45·6 1912	15·6 1881	43·2 1925	45·0 1901	17·2 1944	119·4 1917
Tonk	29·1 1961	1·1 1960	4·6 1961	34·4 1960	1·8 1961	1·2 1961	37·6 1961	8·8 1962	7·8 1962	43·3 1962	13·1 1960	3·6 1960	45·4 1961	10·8 1960	7·8 1962	44·7 1961	22·6 1960	36·2 1960
Bhilwara	.. ..	.. ..	.. ..	36·0 1962	6·6 1962	0 ..	35·5 1962	9·9 1962	0 ..	42·0 1962	16·0 1962	0 ..	43·3 1962	20·2 1962	1·2 1962	42·1 1962	24·6 1962	0 ..
Kota	33·9 1912	1·7 1929	35·8 1915	38·3 1943	2·2 1929	50·8 1915	42·8 1945	7·2 1945	17·8 1944	47·5 1958	14·4 1905	25·9 1933	48·5 1962	18·9 1930	53·3 1917	47·8 1945	21·1 1941	132·1 1917
Kota (Aerodrome)	27·8 1962	5·0 1962	0 ..	34·5 1962	8·6 1962	0 ..	38·1 1962	12·4 1962	2·5 1962	44·4 1962	20·4 1962	3·5 1962	45·6 1962	23·1 1962	0 ..	45·2 1962	25·6 1962	3·3 1962
Erinpura (Jawai Dam)	31·6 1961	2·8 1960	36·8 1957	36·1 1955	2·3 1961	6·1 1961	40·0 1959	8·8 1962	16·8 1957	45·6 1958	14·4 1955	6·1 1959	45·0 1962	20·8 1961	20·5 1961	43·6 1958	20·5 1961	33·4 1961
Chambal (Rawat Bhatta-Dam)	30·3 1961	0 1956	15·6 1961	35·0 1960	0·5 1957	5·1 1956	40·1 1959	5·6 1956	29·7 195 7	46·0 1958	14·4 1956	10·9 1962	46·1 1957	15·6 1957	22·9 1959	44·4 1958	16·3 1957	50·0 1959
Udaipur	30·6 1958	0·9 1962	49·5 953	36·7 953	1·0 1961	14·0 1948	38·9 1959	7·4 1957	26·4 962	44·4 1 8	10·6 1955	26·9 1953	43·9 1956	16·3 1960	9·9 1949	41·7 1958	18·8 1958	64·8 1945
Jhalawar	32·8 1932	0·6 1935	47·7 1941	36·7 1953	1·7 1934	11·4 1942	41·7 1945	5·0 1943	14·2 1957	46·3 1958	14·4 1955	34·8 1933	46·7 1932	18·9 1956	27·2 1936	46·1 1945	21·1 1950	252·0 1945
Madhya Pradesh (West)																		
Gwalior	31·7 1943	— 1·1 1954	40·1 1957	36·7 1949	0·6 1950	20·6 1954	41·7 1945	7·2 1945	17·2 1960	49·5 1960	12·8 1953	15·2 1943	48·3 1947	20·3 1960	41·9 1953	47·2 1945	21·1 1944	162·6 1952
Sheopur	31·7 1952	0·6 1954	27·8 1960	37·2 1953	1·9 1957	20·8 1954	41·3 1958	7·2 1956	29·7 1956	45·9 1958	13·9 1955	7·6 1952	47·8 1954	18·8 1960	41·0 1959	46·7 1954	22·2 1955	89·1 1955
Shivpuri	29·0 1961	0 1962	19·8 1961	31·2 1962	1·7 1961	0·5 1961	36·9 1961	6·3 1962	2·0 1962	42·6 1961	13·3 1962	2·0 1961	44·2 1962	19·0 1962	3·3 1961	42·9 1962	23·0 1962	9·0 1962
Nowgong	32·2 1946	—1·7 1935	64·0 1962	36·7 1934	—0·6 1905	48·0 1946	41·7 1931	5·0 1945	25·9 1913	45·0 1948	11·7 1905	40·6 1909	47·2 1947	13·9 1932	31·0 1913	47·2 1923	18·4 1957	462·8 1897
Guna	31·7 1946	—2·2 1934	33·2 1959	36·1 1953	—1·1 1950	40·6 1942	41·1 1945	5·0 1945	59·9 1950	43·4 1958	11·1 1940	17·7 1959	46·1 1954	16·7 1960	55·2 1959	46·1 1945	20·0 1944	191·5 1945
Nimach	32·8 1898	—1·1 1905	68·3 1891	36·7 1907	—0·6 1886	47·7 1915	41·7 1892	4·4 1905	50·0 1923	44·6 1958	8·9 1905	31·5 1888	46·7 1912	13·9 1920	49·3 1883	46·1 1897	15·6 1885	172·7 1933
Rajgrh	32·2 1961	1·3 1962	10·7 1956	35 7 1959	2·2 1957	2·0 1956	40·6 1959	8·5 1962	19·3 1957	46·3 1958	14·4 1956	1·8 1961	46·6 1958	16·7 1960	27·4 1956	45·2 1958	21·1 1960	61·0 1958
Sagar	31·7 1912	1·7 1934	84·1 1887	35 0 1953	1·1 1929	43·2 1951	41·1 1892	7·2 1898	60·9 1957	43·9 1896	10·6 1926	23·9 1937	45·6 1914	16·9 1959	58·2 1903	45·6 1897	18·3 1922	235·5 1890
Ratlam	33·0 1961	3·0 1962	18·0 1953	37·8 1953	5·4 1961	8·1 1956	41·1 1952	9·4 1957	19·8 1954	45·2 1958	15·0 1955	10·2 1957	43·9 1957	20·1 1960	21·6 1956	42·2 1953	19·4 1961	98·8 1951
Bhopal (Bairagarh)	32·2 1934	0·6 1935	34·3 1948	36·1 1953	1·7 1950	22·4 1962	40·0 1945	7·8 1945	35·1 1936	44·2 1958	12·2 1935	13·5 1937	45·6 1947	19·4 1933	72·6 1956	43·9 1945	19·5 1957	120·9 1945
Ujjain	32·2 1961	0 1962	5·2 1961	33·0 1961	5·0 1961	0 ..	39·0 1961	11·0 1961	0 ..	42·8 1961	14·6 1961	1·4 1962	43·2 1962	20·0 1962	0·8 1961	40·0 1962	21·0 1961	26·8 1961
Narsinghpur	.. ..	.. ..	.. ..	33·4 1962	7·8 1962	29·5 1962	38·6 1962	7·8 1962	3·1 1962	43·0 1962	16·6 1962	11·8 1962	45·0 1962	.. ..	6·6 1962	.. ..	.. ..	33·8 1962
Hoshangabad	32·5 1961	3·3 1935	40·1 1919	37·8 1953	6·1 1950	36·6 1917	41·1 1953	10·6 1935	41·9 1957	45·2 1958	16·1 1951	48·3 1890	46·1 1954	20·0 1947	35·8 1893	45·6 1953	21·1 1946	178·8 1895
Indore	32·2 1938	—1·1 1935	80·5 1920	36·7 1953	—2·8 1929	32·0 1888	41·1 1892	5·0 1898	19·3 1944	44·6 1958	7·8 1905	51·1 1895	45·6 1916	16·7 1881	99·1 1886	45·0 1897	18·9 1958	127·0 1895
Rajpur(Jhabua)	32·8 1961	0 1962	2·3 1956	37·2 1956	3·7 1957	18·0 1961	40·9 1958	9·0 1960	6·2 1962	44·0 1958	16·0 1960	13·1 1958	44·8 1960	18·8 1960	26·7 1956	41·6 1958	21·0 1960	73·0 1960
Chhindwara	30·0 1950	3·2 1960	75·4 1960	35·6 1953	2·8 1950	37·9 1950	38·3 1953	8·9 1957	14·7 1958	42·5 1958	15·4 1960	15·2 1957	43·8 1958	19·8 1959	47·7 1956	43·0 1958	18·3 1949	73·9 1956

July			August			September			October			November			December			Based on data from		Sub-division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Rajasthan (West) (*Contd.*)
43·5 1962	.. ..	60·7 1962	44·8 1962	.. ..	22·0 1962	40·7 1961	20·5 1961	9·0 1961	40·0 1961	11·7 1961	4·0 1961	34·0 1962	.. ..	3·0 1961	27·2 1962	0 1962	2·0 1962	1961	1961	Mahajan.
44·8 1957	22·4 1962	76·0 1957	41·4 1957	22·5 1962	57·4 1960	39·4 1960	16·9 1962	71·8 1962	38·7 1960	10·6 1957	15·0 1961	35·1 1957	1·4 1962	13·0 1959	31·2 1959	—0·8 1960	8·2 1960	1957	1957	Churu.
47·2 1901	20·6 1931	134·1 1920	43·3 1899	21·1 1889	142·0 1909	43·9 1915	18·1 1962	165·6 1945	42·2 1951	7·8 1949	95·8 1917	37·2 1943	0·6 1937	41·9 1951	32·2 1954	—2·8 1950	30·0 1892	1881	1881	Bikaner.
41·7 1960	22·7 1959	77·1 1962	39·6 1960	21·9 1962	27·2 1959	41·6 1960	18·7 1962	21·0 1962	39·9 1960	12·4 1961	6·3 1959	34·1 1960	4·9 1962	2·1 1961	31·4 1959	1·6 1959	36·2 1962	1959	1959	Nagaur.
45·6 1947	21·3 1962	105·2 1948	43·1 1957	21·7 1956	72·4 1953	41·5 1960	18·9 1962	63·5 1954	42·2 1941	8·9 1949	24·1 1956	36·7 1943	5·0 1946	13·5 1957	32·2 1953	0·6 1945	12·6 1961	1941	1941	Phalodi.
45·0 1951	21·7 1955	98·0 1954	43·3 1958	20·6 1962	104·4 1955	43·3 1949	19·3 1962	36·0 1958	42·2 1951	8·3 1949	9·4 1958	37·8 1950	4·3 1962	22·1 1957	32·8 1953	1·1 1955	6·3 1957	1948	1948	Jaisalmer.
45·6 1901	19·4 1926	194·1 1943	42·9 1957	20·6 1927	184·4 1927	42·8 1915	17·8 1908	215·9 1924	42·2 1920	10·0 1949	142·0 1917	37·2 1957	5·6 1938	26·9 1893	33·9 1953	—0·6 1945	22·9 1937	1891	1891	Jodhpur.
44·4 1939	19·4 1936	124·5 1944	43·3 1957	20·0 1941	255·5 1944	—12·8 1951	16·7 1935	62·6 1961	42·8 1951	13·9 1933	18·0 1956	38·2 1957	6·7 1946	27·6 1958	34·4 1944	2·3 1959	14·0 1942	1931	1931	Barmer.
.. ..	.. ..	0 ..	.. ..	.. ..	.. ..	41·0 1962	20·5 1962	.. ..	39·5 1962	.. ..	0 ..	.. ..	.. ..	.. ..	31·0 1961	0 1961	0·3 1962	1961	1961	Munabao.
																				Rajasthan (East)
41·9 1962	18·3 1959	139·6 1962	40·3 1960	23·6 1961	76·4 1959	38·5 1960	15·5 1962	67·1 1962	38·3 1961	11·9 1960	19·2 1959	33·3 1959	2·1 1962	17·4 1959	31·1 1959	—0·1 1962	8·6 1960	1959	1959	Pilani.
44·4 1947	20·6 1962	83·1 1960	40·0 1957	21·1 1955	89·7 1947	39·4 1954	13·9 1962	70·0 1962	40·6 1951	4·3 1958	49·5 1955	34·2 1957	0 1962	22·1 1951	30·6 1959	—1·7 1954	20·3 1946	1946	1946	Sikar.
42·8 1957	22·3 1958	144·0 1962	39·4 1957	21·7 1957	114·4 1962	37·8 1957	16·9 1962	78·0 1957	40·6 1957	12·0 1960	91·7 1956	35·0 1957	6·8 1958	24·4 1959	29·5 1959	1·4 1961	36·4 1962	1956	1956	Alwar.
43·1 1957	21·7 1958	96·8 1957	38·3 1955	18·9 1953	188·4 1959	38·0 1960	16·8 1962	77·2 1956	37·8 1952	11·7 1955	59·4 1956	34·0 1957	5·8 1960	17·4 1958	30·1 1959	1·4 1962	6·4 1960	1952	1952	Jaipur (Sanganer).
43·2 1962	23·3 1956	102·6 1957	39·0 1957	17·7 1960	93·2 1958	37·4 1960	17·0 1962	57·4 1959	38·2 1957	11·1 1957	105·4 1955	35·0 1957	0·1 1961	7·5 1961	31·3 1957	0·7 1961	8·6 1960	1955	1955	Dholpur.
44·4 1901	20·0 1931	165·6 1962	40·0 1883	20·6 1935	164·6 1928	40·6 1915	16·1 1950	156·2 1924	38·9 1951	7·8 1889	119·4 1956	35·0 1901	2·8 1926	42·8 1958	31·1 1890	0·6 1936	56·6 1913	1881	1881	Ajmer.
42·3 1962	22·8 1961	150·6 1961	38·1 1962	22·4 1962	63·2 1961	38·9 1960	17·5 1962	87·2 1961	38·5 1960	11·1 1960	4·2 1961	33·9 1960	3·4 1960	0 ..	30·5 1960	1·7 1961	21·0 1962	1960	1960	Tonk.
39·2 1962	22·8 1962	44·3 1962	36·5 1962	22·5 1962	66·4 1962	33·5 1962	17·2 1962	26·4 1962	34·6 1962	13·5 1962	0 ..	32·9 1962	6·5 1962	0 1962	28·2 1962	4·0 1962	3·7 1962	1962	1962	Bhilwara.
47·2 1923	19·4 1962	249·2 1945	41·1 1911	18·2 1962	172·2 1955	40·6 1951	19·2 1962	185·4 1926	41·1 1930	13·0 1962	98·0 1930	37·2 1901	7·8 1962	54·1 1927	33·9 1941	3·9 1926	30·0 1927	1901	1901	Kota.
41·4 1962	23·1 1962	139·2 1962	38·0 1962	22·7 1962	66·2 1962	35·0 1962	20·6 1962	31·1 1962	35·4 1962	15·0 1962	0 ..	34·0 1962	8·9 1962	1·2 1962	29·5 1962	9·2 1962	3·4 1962	1962	1962	Kota (*Aerodrome*).
40·0 1962	21·3 1962	228·4 1962	38·3 1957	22·3 1957	180·9 1957	38·9 1960	19·9 1960	152·9 1955	39·9 1960	12·5 1961	22·1 1957	34·7 1957	4·7 1960	6·2 1959	33·4 1959	3·6 1961	6·2 1958	1955	1955	Erinpura (Jawai Dam).
46·1 1962	20·6 1956	191·5 1956	37·2 1955	15·6 1957	109·7 1956	40·6 1956	14·4 1957	207·4 1961	37·2 1960	8·3 1955	45·5 1955	37·2 1957	3·3 1958	3·2 1962	32·0 1962	—1·1 1955	3·0 1962	1955	1955	Chambal (Rawat Bhatta Dam).
37·8 1948	21·1 1954	105·9 1950	35·5 1957	18·9 1950	105·7 1957	37·8 1951	15·6 1950	183·9 1950	37·2 1951	9·9 1957	41·9 1956	35·0 1951	4·3 1960	38·1 1948	31·7 1954	0·6 1950	5·3 1956	1947	1947	Udaipur.
45·2 1931	19·7 1958	246·6 1947	41·7 1960	18·3 1955	184·7 1942	38·9 1951	17·0 1957	147·0 1961	40·0 1951	10·6 1934	76·2 1956	35·6 1941	5·6 1956	66·0 1933	33·3 1941	2·2 1945	44·2 1947	1931	1931	Jhalawar.
																				Madhya Pradesh (West)
43·9 1948	22·9 1942	149·9 1947	38·3 1954	21·1 1955	108·5 1954	37·2 1951	18·3 1942	159·0 1945	39·4 1951	8·9 1952	150·6 1955	35·6 1941	3·9 1946	11·7 1946	31·1 1959	—0·4 1961	31·7 1952	1941	1941	Gwalior.
42·2 1951	22·2 1953	187·2 1957	38·9 1955	21·1 1953	121·4 1961	38·3 1951	17·4 1957	69·1 1954	40·6 1951	10·2 1957	100·8 1956	37·3 1957	4·6 1962	19·1 1951	31·8 1960	0 1961	10·2 1956	1951	1951	Sheopur.
39·9 1962	22·8 1962	75·6 1962	34·2 1962	21·1 1961	146·2 1961	32·6 1962	16·8 1962	65·6 1961	33·5 1962	11·0 1962	34·0 1961	31·0 1962	2·6 1962	6·1 1961	28·4 1962	—0·3 1961	5·8 1961	1961	1961	Shivpuri.
45·6 1931	20·8 1958	232·7 1902	38·3 1945	20·6 1957	255·4 1961	39·4 1929	17·0 1962	169·2 1906	39·4 1930	8·4 1957	127·0 1926	35·6 1929	3·8 1962	75·2 1910	32·8 1929	—1·7 1961	84·6 1886	1881	1881	Nowgong.
41·7 1931	19·1 1960	293·4 1958	36·7 1955	19·4 1952	181·6 1934	38·1 1960	16·7 1942	298·5 1947	38·3 1951	8·3 1957	63·5 1956	34·7 1959	2·8 1940	64·5 1946	32·5 1962	—0·6 1950	35·6 1946	1931	1931	Guna.
42·2 1901	14·4 1901	152·4 1943	37·8 1899	18·3 1913	136·0 1957	38·9 1951	17·2 1902	177·5 1947	39·4 1919	10·6 1890	102·1 1955	35·6 1901	5·0 1938	51·6 1934	31·7 1953	0·6 1929	25·4 1962	1881	1881	Nimach.
41·2 1957	19·7 1958	153·7 1956	35·0 1962	20·6 1956	300·2 1960	35·6 1955	15·0 1956	116·8 1955	37·0 1957	9·4 1955	52·8 1961	34·6 1957	4·4 1956	14·0 1961	32·8 1959	0 1957	57·1 1956	1955	1955	Rajgarh.
41·1 1931	16·1 1904	284·5 1904	35·6 1899	19·4 1956	274·3 1908	38·3 1881	16·7 1926	173·0 1962	37·8 1899	11·7 1890	198·2 1958	34·4 1909	6·1 1926	105·2 1902	31·7 1896	2·1 1961	73·9 1886	1881	1881	Sagar.
37·6 1958	20·0 1951	133·2 1962	38·7 1959	20·0 1956	153·4 1957	37·8 1951	16·1 1954	266·4 1962	38·3 1951	12·8 1952	162·3 1955	34·4 1951	9·4 1956	25·2 1962	33·0 1962	6·1 1955	5·4 1962	1948	1948	Ratlam.
40·6 1931	19·0 1958	218·2 1939	35·0 1932	19·4 1956	188·5 1944	36·1 1951	17·2 1951	233·2 1947	37·8 1951	11·7 1943	123·7 1955	33·3 1951	6·1 1941	68·3 1936	32·8 1941	3·3 1936	31·7 1935	1931	1931	Bhopal (Bairagarh).
38·8 1962	21·8 1962	72·0 1962	34·0 1961	21·4 1962	87·8 1962	31·8 1962	18·6 1962	239·0 1961	33·0 1962	11·0 1962	30·2 1961	33·0 1962	8·0 1962	19·0 1962	31·8 1962	5·6 1962	1·4 1962	1961	1961	Ujjain.
.. ..	.. ..	66·2 1962	33·4 1962	21·8 1962	46·2 1962	33·0 1962	22·2 1962	87·8 1962	33·0 1962	11·4 1962	16·0 1962	34·0 1962	5·2 1962	0 ..	32·0 1962	5·2 1962	30·0 1962	1962	1962	Narsinghpur.
41·4 1960	18·9 1951	238·8 1898	35·6 1950	19·4 1943	294·1 1919	40·4 1959	17·8 1942	207·0 1950	37·2 1951	12·2 1952	98·3 1943	35·0 1951	3·9 1952	36·4 1912	32·3 1959	4·4 1938	109·7 1928	1931	1881	Hoshangabad.
38·3 1931	18·9 1910	293·4 1913	35·0 1899	18·9 1952	209·8 1956	37·2 1899	16·7 1902	169·8 1962	37·8 1899	8·9 1890	78·5 1938	35·0 1925	5·6 1938	69·0 1958	32·8 1896	1·1 1936	46·7 1962	1881	1881	Indore.
39·4 1962	20·4 1962	186·8 1958	33·7 1958	20·6 1956	140·7 1957	36·0 1960	18·0 1962	142·7 1959	37·3 1957	12·0 1960	142·7 1955	35·4 1957	7·2 1956	24·1 1962	34·4 1960	6·0 1961	50·8 1956	1955	1955	Rajpur (Jhabua).
35·3 1962	20·0 1959	91·4 1954	33·3 1950	18·2 1957	101·8 1961	34·9 1957	16·3 1957	151·1 1955	34·1 1957	9·7 1960	75·2 1955	31·1 1957	5·6 1956	120·7 1956	30·7 1959	3·3 1955	90·2 1962	1949	1949	Chhindwara.

Sub-division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madhya Pradesh (West) (*contd*)																		
Seoni	32·8 1882	2·0 1937	49·5 1943	37·2 1896	3·3 1911	70·1 1898	40·6 1899	6·1 1910	42·2 1936	43·9 1942	11·7 1905	41·9 1937	44·4 1954	15·0 1917	74·2 1918	45·0 1942	17·8 1928	297·4 1884
Betul	31·3 1961	2·8 1953	10·9 1957	37·2 1953	1·1 1960	5·2 1962	38·9 1953	8·2 1960	34·5 1957	42·6 1958	15·0 1955	23·1 1957	43·3 1954	19·2 1957	23·1 1957	42·2 1953	15·0 1949	73·7 1951
Khandwa	35·6 1932	1·7 1946	49·5 1920	38·9 1953	0·6 1929	48·3 1928	43·3 1892	6·1 1908	27·4 1881	46·7 1958	11·1 1905	26·2 1891	47·2 1947	17·2 1881	71·1 1956	46·1 1923	18·7 1957	153·2 1940
Madhya Pradesh (East)																		
Satna	32·2 1946	0·6 1933	81·3 1955	35·0 1956	1·1 1905	49·3 1936	41·1 1945	4·4 1949	43·9 1893	45·0 1896	12·2 1918	52·8 1946	46·7 1947	18·3 1933	33·5 1914	47·8 1954	19·4 1929	562·6 1882
Sidhi	32·8 1959	1·0 1962	47·3 1961	33·4 1960	4·4 1959	34·4 1962	39·7 1959	6·1 1960	24·0 1960	48·8 1959	13·1 1959	0 ..	46·6 1959	17·0 1960	5·6 1959	44·7 1962	24·0 1961	41·0 1959
Umaria	34·4 1943	0 1933	61·2 1939	36·7 1954	0·6 1950	55·6 1950	40·0 1955	5·0 1945	43·4 1941	44·4 1942	12·8 1951	31·5 1937	45·6 1954	17·5 1960	27·7 1957	45·6 1945	20·0 1948	209·8 1946
Jabalpur	32·8 1946	1·1 1946	63·7 1919	37·2 1953	0 1905	55·6 1898	41·1 1882	3·3 1898	39·6 1927	45·0 1942	10·6 1905	50·3 1935	46·7 1954	17·2 1937	73·7 1885	46·1 1889	19·4 1922	185·2 1883
Ambikapur	29·3 1958	1·1 1954	20·1 1954	33·3 1954	3·9 1956	62·4 1961	38·3 1955	8·2 1957	21·8 1952	41·9 1961	12·8 1955	21·3 1951	43·3 1956	18·8 1960	51·1 1956	43·3 1955	20·7 1962	113·8 1961
Pendra	30·1 1958	3·3 1937	45·0 1933	34·4 1953	1·7 1929	42·9 917	39·4 1955	8·9 1906	70·9 1956	42·8 1942	12·4 1961	67·8 1926	43·9 1928	17·8 1933	55·9 1925	43·9 1942	16·7 1915	242·1 1946
Mandla	30·6 1951	0·6 1954	38·3 1953	35·6 1953	2·7 1957	42·2 1961	39·4 1955	7·0 1962	29·7 1951	43·2 1958	11·1 1956	19·3 1951	45·0 1954	16·8 1957	20·1 1956	44·4 1958	21·1 1956	112·0 1961
Champa	32·2 1950	7·0 1962	64·0 1954	36·7 1953	8·3 1950	43·6 1961	41·7 1955	13·2 1957	88·1 1951	45·0 1952	18·1 1961	16·4 1962	47·2 1948	20·5 1957	37·6 1956	47·2 1953	21·5 1961	130·8 1961
Raigarh	32·8 1955	7·0 1960	39·4 1953	37·2 1953	9·4 1956	26·6 1958	42·2 1955	13·0 1960	61·0 1951	45·0 1961	18·5 1961	29·2 1951	46·7 1956	21·5 1962	40·0 1956	47·2 1953	21·5 1961	190·8 1961
Raipur	35·0 1955	5·0 1908	55·4 1921	37·8 1899	5·0 1893	57·4 1917	43·3 1892	8·3 1898	55·9 1906	46·1 1942	15·0 1905	38·3 1909	47·2 1935	14·4 1904	80·3 1904	47·2 1931	16·1 1884	202·7 1919
Kanker	32·8 1931	3·9 1946	53·3 1943	35·0 1953	3·9 1934	52·8 1950	40·0 1942	10·0 1948	48·3 1957	43·3 1942	15·6 1944	44·2 1951	44·4 1953	17·8 1945	45·7 1932	46·1 1931	17·8 1936	245·9 1940
Jagdalpur	33·1 1957	4·4 1913	40·6 1926	36·7 1953	5·0 1943	120·4 1919	40·6 1953	9·4 1948	45·7 1927	43·3 1941	13·9 1943	54·4 1939	46·1 1912	17·2 1917	64·3 1925	44·4 1953	17·2 1913	133·1 1940
Gujarat Region																		
Deesa	35·6 1932	—2·2 1935	28·2 1940	40·6 1953	—0·6 1929	31·5 1941	46·1 1892	5·6 1905	24·1 1911	46·3 1958	10·0 1905	24·1 1923	50·0 1912	17·8 1920	63·6 1920	48·3 1897	20·1 1961	102·4 1956
Radhnapur	33·6 1961	1·0 1962	0·3 1961	36·4 1960	5·6 1961	0·7 1961	42·3 1959	6·3 1960	0·2 1962	43·5 1961	15·1 1962	1·4 1962	45·3 1959	19·2 1960	0 ..	42·9 1962	19·5 1960	40·2 1961
Idar	33·0 1961	4·8 1962	5·8 1957	36·2 1960	9·5 1960	2·0 1961	41·9 1959	9·4 1960	3·0 1962	46·6 1958	15·7 1958	21·1 1959	44·9 1962	20·7 1957	3·2 1962	43·3 1958	20·6 1958	48·0 1957
Ahmedabad	36·1 1912	3·3 1954	30·7 1948	40·6 1953	2·2 920	26·4 1917	43·9 1908	9·4 1908	12·2 1940	46·2 1958	12·8 1955	21·6 1947	47·8 1916	19·4 1920	46·2 1917	47·2 1897	19·4 1920	130·8 1937
Dohad	33·9 1949	0 1935	11·9 1952	39·4 1953	2·2 1950	20·6 1942	41·7 1945	9·4 1945	22·3 1944	45·4 1958	15·0 1935	15·2 1946	45·0 1932	20·0 1933	122·7 1938	44·4 1945	19·6 1961	90·4 1940
Baroda Aerodrome	35·6 1952	2·8 1962	14·0 1953	40·6 1953	3·9 1950	6·0 1961	42·4 1959	10·9 1957	10·0 1962	45·2 1958	14·4 1955	0·6 1959	46·1 1955	19·9 1960	40·9 1956	43·3 1953	21·2 1957	92·3 1961
Baroda	36·2 1961	—1·1 1935	15·2 1953	41·7 1953	1·7 1950	31·7 1943	43·3 1959	6·7 1936	10·4 1954	45·9 1958	11·7 1955	2·6 1962	46·7 1955	18·9 1939	71·4 1947	45·6 1945	21·5 1957	129·8 1958
Broach	36·9 1961	4·0 1962	7·9 1953	42·8 1953	5·8 1961	11·3 1961	44·2 1959	11·5 1957	14·0 1954	45·6 1956	16·1 1955	2·0 1962	47·8 1955	21·2 1957	80·5 1956	44·4 1953	22·3 1957	109·2 1954
Surat	38·3 1952	4·4 1929	43·7 1920	41·7 1953	5·6 1929	38·1 1898	43·9 1945	10·6 1898	8·1 1954	45·6 1952	15·0 1903	97·8 1947	45·6 1956	19·4 1888	38·8 1917	45·6 1901	20·2 1962	260·1 1922
Saurashtra and Kutch																		
Bhutakia Bhimasar	33·6 1961	6·0 1960	0 ..	33·5 1961	9·0 1961	6·5 1961	39·6 1961	10·5 1960	0 ..	43·3 1961	18·6 1960	0 ..	44·6 1961	21·8 1960	8·0 1961	43·9 1961	22·0 1961	31·0 1960
Naliya	32·8 1961	1·2 962	5·5 961	35·7 1960	4·4 1961	21·4 1961	42·2 1959	8·0 1960	0 ..	42·0 1961	13·5 1961	0 ..	44·6 1959	16·4 1960	0 ..	38·2 1959	23·0 1961	65·8 1961
Bhuj (Rudremta)	32·4 1958	2·6 1962	2·7 1959	37·2 1955	4·3 1957	16·4 1961	41·3 1959	9·3 1960	4·3 1958	44·8 1958	13·9 1955	0 ..	45·6 1955	18·1 1960	29·2 1955	42·0 1958	22·6 1961	49·6 1961
Kandla Aerodrome	29·8 1962	2·9 1962	0 ..	34·7 1962	10·4 1962	0 ..	39·5 1961	10·9 1962	0 ..	42·9 1962	17·5 1962	1·0 1962	43·9 1962	20·7 1962	1·1 1961	40·1 1962	21·7 1961	50·3 1961
New Kandla	31·7 1958	8·3 1962	5·1 1958	33·9 1956	7·7 1957	16·2 1961	40·4 1959	13·7 1960	3·8 1955	42·2 1956	18·3 1955	0 ..	43·3 1956	22·1 1957	3·1 1957	38·3 1959	22·8 1961	105·9 1956
Mandvi	30·7 1961	5·6 1962	4·1 1959	35·6 1955	8·9 1957	0 ..	38·1 1959	11·3 1961	3·0 1960	41·1 1958	15·0 1956	0 ..	42·6 1959	21·1 1957	0 ..	35·0 1955	22·8 1961	55·0 1961
Surendranagar	33·7 1958	6·7 1962	2·0 1957	38·3 1955	7·4 1957	8·9 1961	42·8 1959	12·9 1957	0 ..	45·1 1958	13·9 1955	24·3 1959	46·7 1955	22·8 1956	11·9 1957	44·9 1958	22·8 1962	61·2 1955
Okha*																		
Jamnagar (Aerodrome)	33·9 1933	1·7 1935	19·8 1929	37·2 1926	2·2 1929	29·5 1906	40·0 1946	8·3 1905	38·6 1904	42·8 1901	12·8 1903	19·3 1915	44·4 1903	16·7 1918	92·7 1933	43·9 1927	17·2 1917	337·8 1920
Dwarka	34·0 1957	6·1 1929	20·3 1919	35·6 1920	8·3 1901	64·0 1906	33·3 1958	7·8 1905	42·8 1911	41·1 1932	17·2 1903	24·4 1915	42·7 1959	20·0 1909	7·6 1933	37·8 1951	22·0 1961	230·9 1956
Rajkot	36·1 1932	—0·6 1935	13·2 1935	40·0 1958	1·1 1893	21·3 1888	43·9 1892	6·1 1905	21·6 1911	44·4 1949	10·0 1903	29·2 1947	47·8 1919	16·1 1907	117·3 1917	45·0 1897	20·0 1913	218·9 1893
Bhaunagar Aerodrome	33·9 1952	6·1 1954	7·6 1953	37·8 1953	6·7 1957	30·0 1961	41·8 1961	11·9 1962	9·9 1954	43·3 1958	14·4 1955	0 ..	45·0 1955	22·2 1957	6·2 1960	43·3 1953	20·0 1954	61·7 1957
Porbander Aerodrome	35·0 1961	4·7 1962	7·2 1961	36·1 1962	8·7 1961	12·0 1961	40·6 1961	12·7 1962	0 ..	41·8 1961	18·3 1962	0 ..	38·9 1962	20·5 1961	0 ..	34·4 1962	23·6 1961	66·6 1966
Porbander**	35·0 1961	7·2 1962	8·1 1954	38·9 1955	8·7 1957	11·1 1961	40·2 1958	13·2 1957	0 ..	42·8 1956	18·9 1955	2·0 1957	45·6 1959	22·7 1957	0·5 1956	35·0 1959	23·4 1961	129·8 1957
Keshod	35·6 1961	3·6 1962	0 ..	38·0 1960	5·2 1961	10·0 1961	42·1 1959	11·5 1960	0 ..	44·0 1961	15·8 1960	0·2 1959	45·1 1959	19·9 1960	0·8 1959	37·7 1959	22·3 1959	56·4 1962

*Observatory started from 12-12-1962.

**Observatory closed on 10-10-1962.

July			August			September			October			November			December			Based on data from		Sub-division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Madhya Pradesh (West) (*contd.*)
37·8 1931	17·8 1941	276·1 1929	35·6 1899	17·2 1917	281·9 1913	35·0 1944	16·1 1942	203·0 1947	36·1 1899	10·6 1910	124·5 1916	33·9 1899	5·0 1912	116·8 1946	31·7 1899	3·3 1936	103·4 1962	1881	1881	Seoni.
35·6 1959	19·3 1959	145·2 1960	32·2 1950	18·9 1951	127·8 1953	32·8 1960	16·9 1960	265·0 1961	33·9 1952	8·3 1952	92·7 1951	32·2 1948	5·6 1956	90·7 1956	31·7 1960	3·3 1955	40·0 1962	1948	1948	Betul.
40·0 1900	18·9 1959	240·5 1927	39·4 1951	17·4 1960	203·2 1957	40·6 1899	17·8 1912	218·6 1959	40·6 1899	9·4 1890	146·6 1924	37·2 1951	6·1 1949	84·8 1936	34·5 1960	2·8 1929	95·8 1886	1881	1881	Khandwa.
																				Madhya Pradesh (East)
45·0 1931	17·8 1929	209·5 1894	36·7 1911	21·1 1954	299·7 1919	37·2 1932	16·7 1912	178·1 1961	38·3 1896	10·0 1890	152·4 1882	35·5 1957	5·0 1941	84·6 1956	32·2 1948	0·4 1961	47·7 1929	1881	1881	Satna.
41·1 1962	21·1 1957	106·0 1961	34·3 1961	18·9 1959	131·0 1961	37·2 1959	19·9 1962	65·4 1961	34·9 1960	12·2 1960	32·4 1959	32·6 1959	5·0 1960	0 ..	31·2 1960	2·5 1959	18·5 1961	1959	1959	Sidhi.
39·6 1958	20·4 1961	179·8 1959	35·0 1945	20·0 1951	302·0 1953	35·6 1958	17·8 1944	126·5 1933	35·2 1957	9·4 1933	85·5 1961	32·9 1957	3·9 1937	79·5 1946	31·7 1941	0·5 1961	41·1 1940	1932	1932	Umaria.
41·7 1902	20·6 1930	342·9 1915	35·0 1954	18·3 1929	320·5 1923	35·6 1913	16·7 1899	251·7 1926	36·7 1941	7·8 1881	121·9 1916	33·9 1956	3·9 1889	93·5 1956	32·8 1941	0·6 1902	68·1 1885	1881	1881	Jabalpur.
37·1 1958	20·6 1951	144·2 1962	34·5 1958	20·7 1958	137·6 1960	33·9 1959	17·2 1962	90·0 1961	33·3 1957	9·4 1954	206·0 1961	29·8 1962	4·4 1952	6·6 1956	29·0 1962	1·7 1955	10·4 1962	1950	1950	Ambikapur.
37·2 1954	18·3 1942	166·6 1953	32·8 1925	18·3 1910	262·1 1953	32·8 1938	16·7 1912	150·4 1926	33·9 1920	11·7 1933	91·4 1915	31·7 1909	6·1 1926	58·4 1924	30·0 1941	3·9 1936	37·1 1906	1906	1906	Pendra.
38·9 1958	20·8 1959	210·4 1959	33·6 1958	19·9 1957	157·8 1957	33·9 1951	17·4 1957	148·1 1955	35·0 1951	7·8 1952	121·4 1951	33·2 1957	3·3 1950	65·8 1956	31·2 1960	1·1 1955	166·4 1962	1950	1950	Mandala.
39·4 1954	21·7 1946	142·0 1955	35·1 1957	22·2 1957	171·5 1953	35·0 1954	20·9 1960	103·0 1961	36·2 1957	15·4 1960	63·5 1955	33·3 1945	9·6 1960	41·1 1946	32·0 1962	7·2 1961	19·6 1962	1945	1945	Champa.
38·4 1958	22·9 1955	261·0 1955	35·1 1956	22·2 1953	193·0 1960	35· 1957	21·1 1950	212·0 1961	36·2 1957	14·6 1960	74·2 1959	33·3 1951	10·0 1950	6·0 1961	33·0 1962	6·4 1959	6·1 1954	1950	1950	Raigarh.
38·9 1931	20·0 1884	213·1 1884	36·7 1883	20·0 1939	370·3 1910	37·2 1899	18·3 1902	148·6 1905	37·8 1899	13·9 1933	148·6 1900	35·6 1935	8·3 1883	70·4 1930	32·2 1941	3·9 1902	52·1 1909	1881	1881	Raipur.
35·7 1962	18·9 1940	289·1 1951	33·9 1947	20·0 1939	195·3 1937	35·5 2959	18·9 1950	257·3 936	34·5 1957	11·7 1954	112·8 1938	32·8 1946	7·2 1939	58·4 1950	31·1 1962	3·9 1934	17·8 1940	1931	1931	Kanker.
35·6 1920	18·3 1958	180·9 1934	33·9 1922	16·7 1920	203·2 1931	35·0 1913	17·8 1950	163·8 1911	34·4 1913	11·1 1941	136·9 1938	33·0 1946	5·6 1912	102·9 1924	32·2 1946	3·9 1945	41·6 1962	1911	1911	Jagdalpur.
																				Gujarat Region
43·9 1902	19·4 1887	252·2 1902	41·1 1902	21·1 1948	306·1 1907	42·2 1951	17·2 1912	349·5 1893	42·8 1925	10·6 1889	92·7 1917	37·6 1957	5·0 1938	28·7 1896	36·1 1935	1·7 1903	14·0 1927	1881	1881	Deesa.
41·0 1962	19·5 1959	152·0 1961	37·0 1962	20·5 1959	66·2 1960	40·5 1960	18·3 1962	207·0 1959	39·8 1950	12·8 1961	31·1 1959	36·0 1960	10·1 1960	0 ..	32·7 1960	5·5 1959	1·5 1960	1959	1959	Radhanpur.
39·4 1962	20·4 1958	307·0 1958	34·7 1957	21·3 1958	91·2 1957	39·0 1960	18·6 1957	132·2 1959	38·9 1960	11·0 1961	39·2 1959	36·7 1957	13·3 1961	1·3 1957	33·1 1960	9·1 1960	2·0 1957	1957	957	Idar.
42·2 1902	2 ·1 1908	414·8 1927	38·9 1911	21·7 1929	50·6 1906	41·7 1951	19·4 1962	257·8 1950	42·8 1920	14·0 1961	52·8 1917	38·9 1901	9·7 1960	53·3 1947	35·6 1899	6·1 1954	14·0 1927	1896	1896	Ahmedabad.
33·5 1962	20·6 1947	230·3 1958	36·1 1932	21·1 1956	295·4 1933	38·9 1951	17·5 1962	265·4 1945	40·0 1951	11·7 1935	177·0 1954	36·4 1960	8·9 1938	65·4 1958	34·5 1962	5·0 1936	7·4 1931	1931	1931	Dohad
38·7 1960	22·2 1952	111·5 1956	35·8 1962	21·7 1956	277·1 1956	41·1 1951	20·7 1962	148·9 1958	41·1 1951	12·8 1960	71·1 1954	37·8 1951	10·6 1956	61·4 1962	35·0 1952	6·7 1954	6·4 1962	1949	1949	Baroda Aerodrome.
40·6 1962	21·1 1943	183·4 1941	37·2 1947	22·8 1953	238·0 1956	41·1 1951	18·9 1938	372·1 1945	41·7 1951	11·7 1955	138·4 1940	38·3 1951	7·2 1938	48·3 1934	36·1 1941	3·3 1937	4·5 1962	1933	1933	Baroda.
38·9 1960	22·7 1959	195·1 1954	35·6 1954	22·8 1952	217·0 1961	41·7 1951	21·0 1962	304·8 1954	41·7 1952	14·4 1954	85·0 1959	38·9 1957	10·9 1960	11·0 1962	37·2 1952	8·0 1959	2·0 1962	1951	1951	Broach.
38·9 1902	20·6 1889	459·2 1941	37·2 1932	21·1 1887	288·9 1933	41·1 1951	20·6 1864	389·4 1945	41·1 1952	14·4 1893	257·1 1894	39·4 1951	10·6 1881	148·3 1946	38·9 1953	6·7 1903	42·2 1933	1981	1981	Surat.
																				Surashtra and Kutch
37·9 1961	23·0 1961	67·5 1960	35·1 1960	23·7 1960	42·0 1960	40·4 1960	22·3 1960	0·2 1960	49·4 1960	17·8 1961	0 ..	36·0 1960	12·5 1960	0 ..	31·9 1960	10·0 1961	0 ..	1960	1960	Bhulakai Bhimasar.
33·2 1962	22·1 1959	262·9 1959	33·4 1962	23·0 1961	68·0 1961	37·2 1960	18·0 1962	240·1 1959	37·8 1962	11·2 1961	13·2 1961	36·6 1960	6·5 1960	6·4 1959	32·7 1959	2·4 1962	0 ..	1959	1959	Naliya.
40·3 1962	20·6 1954	467·9 1959	37·8 1954	22·7 1956	83·8 1961	39·7 1960	17·9 1962	78·0 1958	41·1 1960	12·9 1961	95·4 1959	37·2 1957	8·7 1960	3·0 1962	33·9 1954	4·4 1961	3·8 1962	1954	1954	Bhuj (Rudramata).
38·5 1961	23·1 1962	35·0 1961	36·3 1962	23·4 1962	57·4 1961	37·6 1962	18·3 1962	29·0 1962	37·2 1962	13·7 1961	0·6 1961	35·3 1962	12·1 1961	30·8 1962	30·8 1961	9·0 1961	0 ..	1961	1961	Kandla Aerodrome.
37·2 1958	22·4 1957	147·4 1956	35·8 1958	23·3 1956	185·9 1956	38·3 1957	22·6 1957	64·8 1953	37·8 1955	17·3 1961	24·0 1961	37·2 1957	14·5 1960	55·8 1962	32·8 1958	9·4 1955	0·8 1957	1955	1951	New Kandla.
37·6 1961	21·1 1956	168·0 1959	34·4 1957	22·8 1956	175·3 1956	36·4 1960	57·0 1962	61·0 1961	38·4 1960	17·3 1957	32·8 1956	34·4 1957	13·5 1960	3·0 1959	31·7 1958	8·2 1959	15·0 1958	1954	1954	Mandvi.
39·7 1962	22·8 1956	82·6 1959	36·9 1958	21·7 1956	198·1 1953	39·4 1960	21·7 1962	112·0 1958	39·2 1958	16·1 1960	40·8 1954	37·2 1953	11·1 1956	31·0 1962	34·4 1953	5·0 1955	1·3 1957	1953	1953	Surendranagar.
																				Okha*.
39·9 1958	19·4 1950	335·0 1929	37·8 1954	20·6 1924	248·9 1954	41·7 1951	16·1 1923	133·3 1947	40·6 1952	14·4 1954	37·3 1915	37·2 1901	8·9 1938	48·5 1948	34·4 1955	3·9 1930	42·7 1929	1901	1901	Jamnagar (Aerodrome).
36·4 1956	18·3 1952	273·8 1933	32·8 1954	21·7 1908	302·3 1933	39·4 1929	22·2 1909	135·9 1921	40·0 1951	16·7 1949	138·4 1917	37·2 1901	12·2 1938	355·1 1951	33·9 1932	8·3 1903	28·5 1937	1901	1901	Dwarka.
40·6 1900	19·4 1941	375·2 1950	37·8 1947	20·6 1913	233·2 1900	40·6 1911	16·7 1912	184·7 1945	41·7 1925	12·2 1949	105·6 1939	38·3 1929	7·2 1917	99·8 1888	36·1 1886	—2·8 1903	22·9 1929	1881	1881	Rajkot.
38·3 1952	21·0 1961	195·5 1957	36·8 1958	22·2 1958	117·0 1959	40·6 1951	21·0 1962	102·9 1954	41·7 1951	17·2 1954	141·0 1959	36·7 1951	12·2 1956	4·8 1959	34·6 1957	9·4 1955	3·0 1962	1951	1951	Bhavnagar Aerodroeme.
35·2 1961	24·0 1961	205·4 1962	31·1 1961	23·6 1962	130·4 1962	36·7 1960	21·3 1962	91·5 1962	38·7 1960	15·3 1961	21·7 1961	37·7 1960	14·1 1961	4·0 1962	33·3 1960	10·4 1960	0 ..	1960	1960	Porbander Aerodrome.
33·9 1958	22·0 1959	231·6 1958	32·9 1958	22·8 1956	125·9 1961	36·1 1955	22·8 1962	131·4 1962	39·4 1953	17·2 1952	213·6 1959	38·2 1957	13·3 1952	82·2 1958	36·7 1953	10·0 1954	4·6 1954	1952	1952	Porbander.**
36·4 1961	22·9 1961	312·5 1961	32·2 1962	22·9 1962	68·6 1962	37·6 1960	19·8 1962	166·8 1961	38·5 1960	14·6 1962	39·0 1959	37·0 1960	11·7 1960	12·5 1962	34·4 1960	8·6 1961	0·2 1959	1959	1959	Keshod.

*Observatory started from 12-12-1962.

**Observatory closed on 10-10-1962.

Sub-division and Station	January			February			March			Aprlil			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Saurashtra and Kutch—*contd.*																		
Mahuva	34·3 1961	7·8 1954	2·5 1953	41·1 1953	8·3 1961	2·5 1961	42·8 1956	12·5 1957	11·4 1954	45·0 1954	13·9 1955	1·5 1956	43·9 1956	20·0 1957	0·5 1956	40·6 1953	22·8 1955	179·6 1959
Veraval	36·0 1961	4·4 1905	12·9 1926	38·3 1953	4·4 1893	18·1 1961	42·8 1945	9·4 1892	19·1 1911	42·8 1954	13·9 1903	124·7 1947	44·2 1959	18·9 1909	123·2 1917	37·2 1954	20·0 1951	121·9 1960
Konkan																		
Dahanu	34·4 1957	8·3 1945	8·9 1948	37·8 1949	8·8 1961	3·6 1954	38·9 1946	12·8 1945	1·9 1962	40·6 1955	19·3 1957	59·9 1947	38·3 1944	20·6 1947	27·0 1960	38·3 1951	15·0 1948	378·0 1960
Bombay (Santa Cruz)	36·2 1961	7·4 1962	4·7 1962	39·4 1953	10·0 1950	18·0 1961	41·7 1956	14·1 1957	0·8 1951	42·2 1952	18·3 1951	1·5 1951	38·8 1959	20·6 1951	54·4 1951	36·7 1951	22·2 1954	305·6 1953
Bombay	35·0 1961	11·7 1935	49·3 1926	38·3 1949	11·7 1929	41·7 1917	39·7 1958	16·7 1905	34·3 1918	40·6 1955	20·0 1905	37·3 1947	36·2 1959	22·8 1951	126·2 1893	37·2 1901	21·1 1936	408·9 1886
Alibag	35·3 1958	9·4 1934	9·7 1948	37·8 1943	11·4 1961	34·5 1961	39·4 1945	15·6 1945	2·8 1940	40·0 1955	18·9 1937	8·4 1947	37·5 1960	21·7 1943	103·1 1938	34·4 1932	18·3 1945	225·0 1940
Bhira*	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Harnai	33·4 1958	15·6 1945	8·6 1945	35·0 1962	13·9 1950	1·0 1948	37·2 1946	16·1 1945	0 ..	36·1 1949	17·8 1950	31·5 1955	37·2 1955	20·0 1950	157·0 1956	34·4 1953	16·1 1945	281·8 1960
Ratnagiri	36·7 1912	12·2 1935	23·4 1888	38·3 1920	13·3 1901	22·0 1917	38·9 1922	16·1 1910	31·7 1900	36·1 1938	16·1 1905	25·9 1937	37·8 1883	21·7 1913	91·7 1893	35·0 1913	19·4 1939	309.9 1953
Devgarh	34·4 1952	15·6 1945	12·2 1947	35·9 1961	16·7 1961	1·5 1958	37·2 1948	18·7 1957	12·2 1947	37·2 1956	20·6 1953	23·6 1947	35·0 1954	20·0 1961	181·2 1961	37·2 1948	13·3 1945	276·0 1958
Vengurla	35·6 1955	12·0 1962	0·3 1959	38·9 1952	12·8 1950	2·8 1958	37·4 1958	15·0 1950	0·3 1954	40·0 1956	20·5 1961	17·0 1954	36·1 1949	21·9 1962	299·0 1961	33·9 1958	20·0 1956	333·3 1958
Madhya Maharashtra																		
Nandurbar	35·9 1958	8·9 1954	43·9 1955	40·6 1955	13·2 1959	0 ..	43·3 1956	14·2 1960	2·5 1954	45·6 1958	18·9 1955	41·2 1958	46·1 1955	21·7 1956	76·2 1956	42·8 1953	22·2 1956	80·0 1953
Jalgaon	35·6 1939	1·7 1945	29·6 1958	40·6 1953	3·9 1943	21·8 1941	43·9 1953	47·2 1960	15·6 1938	47·8 1958	19·9 1944	35·1 1951	46·1 1947	21·4 1962	115·1 1956	39·9 1953	21·1 1962	110·7 1956
Malegaon	35·0 1932	0·6 1935	38·1 1888	39·4 1953	—0·6 1929	43·4 1936	45·6 1889	5·6 1898	14·7 1915	44·6 1958	9·4 1905	27·0 1958	46·8 1962	16·7 1881	104·4 1903	44·4 1915	17·8 1932	111·0 1914
Deolali (Aerodrome)	32·9 1961	1·6 1962	3·8 1962	37·6 1953	—0·6 1950	1·5 1954	40·0 1953	7·2 1957	9·7 1962	42·8 1958	11·1 1955	24·6 1958	42·2 1955	17·8 1955	57·7 1951	40·0 1955	20·0 1952	49·5 1957
Ahmadnagar	36·1 1897	2·2 1945	51·6 1941	38·9 1897	2·8 1911	42·9 1894	40·6 1934	7·8 1892	88·4 1938	43·1 1958	10·6 1926	71·9 1937	43·7 1960	16·1 1917	119·8 1915	43·3 1920	18·3 1907	177·3 1931
Khandala	.. ..	.. ..	19·1 1940	.. ..	.. ..	15·2 1937	.. ..	.. ..	1·3 1951	.. ..	.. ..	58·0 1959	.. ..	.. ..	62·4 1960	.. ..	.. ..	312·8 1961
Poona (Aerodrome)	32·8 1952	7·1 1962	0 ..	37·8 1953	6·6 1961	0 ..	40·0 1953	10·6 1961	42·9 1954	42·2 1961	12·2 1955	26·2 1959	41·7 1952	15·0 1955	74·4 1960	39·5 1958	18·9 1953	123·6 1961
Poona	35·0 1938	1·7 1935	22·3 1948	38·9 1953	3·9 1934	16·3 1892	42·8 1892	7·2 1903	35·1 1954	43·3 1897	10·6 1903	51·1 1896	43·3 1889	13·9 1888	82·5 1927	41·7 1897	17·2 1920	131·9 1961
Jeur	33·9 1950	4·9 1962	0·5 1955	38·3 1953	5·0 1950	18·5 1952	41·1 1953	10·4 1957	7·0 1962	43·7 1958	14·4 1960	23·6 1957	43·6 1958	20·1 1960	81·4 1961	43·3 1953	18·9 1951	81·5 1953
Baramati	33·3 1955	6·7 1962	0 ..	37·4 1959	7·7 1961	0 ..	40·5 1959	10·8 1962	6·3 1958	43·2 1958	13·3 1955	22·6 1955	42·8 1958	19·4 1956	35·6 1959	41·9 1958	20·0 1956	74·4 1960
Sholapur	36·7 1897	4·4 1945	48·8 1943	39·4 1886	6·1 1911	34·3 1928	43·9 1892	12·2 1886	39·6 1893	44·4 1889	13·0 1905	48·0 1907	45·6 1938	16·1 1885	56·1 1952	45·6 1923	17·2 1922	143·8 1882
Miraj	33·9 1950	5·0 1945	46·5 1941	37·4 1961	6·7 1944	8·6 1941	40·6 1949	11·2 1957	21·6 1958	42·2 1942	15·0 1944	115·1 1937	42·2 1940	18·9 1937	108·2 1938	42·2 1934	19·3 1962	83·2 1959
Kolhapur	33·6 1959	8·7 1962	14·7 1947	37·4 1961	9·3 1961	4·3 1952	40·4 1959	12·8 1957	48·5 1948	41·7 1956	15·6 1955	34·5 1946	41·2 1959	18·3 1946	163·6 1961	39·4 1953	18·9 1956	101·1 1959
Marathwada																		
Aurangabad	37·2 1924	3·9 1945	51·6 1920	37·8 1953	2·2 1911	36·3 1894	42·2 1892	8·9 1898	23·4 1915	45·0 1896	10·0 1908	24·6 1937	45·6 1905	17·2 1924	75·5 1961	43·9 1923	17·2 1901	182·1 1953
Aurangabad (Chikalthan)	32·2 1955	3·3 1962	3·8 1959	37·2 1954	3·9 1961	5·2 1961	40·0 1955	7·1 1957	20·3 1954	43·6 1958	14·9 1960	8·0 1962	43·1 1960	17·3 1962	58·8 1961	42·2 1953	20·0 1954	94·2 1955
Parbhani	33·3 1955	4·4 1945	43·4 1926	38·3 1953	6·1 1949	34·8 1928	41·7 1953	11·6 1957	46·5 1927	45·0 1958	17·2 1955	39·8 1962	45·6 1954	20·8 1962	56·6 1916	45·6 1953	20·0 1951	87·9 1940
Nander	33·0 1961	7·3 1962	0 ..	38·0 1961	12·4 1962	0 ..	40·4 1962	14·8 1962	25·5 1961	45·0 1961	.. ..	69·7 1962	44·0 1961	.. ..	12·2 1961	40·8 1961	18·1 1961	40·4 1961
Bir	32·9 1961	6·2 1962	3·5 1962	36·9 1961	4·6 1961	0 ..	38·9 1962	12·0 1962	9·0 1962	43·6 1961	18·5 1962	33·0 1962	43·4 1962	20·5 1962	38·4 1962	38·2 1962	22·5 1962	33·2 1962
Vidarbha																		
Gondia	32·0 1961	6·7 1951	42·4 1948	37·2 1951	6·7 1950	48·3 1947	41·7 1953	11·7 1952	34·3 1951	44·6 1961	18·3 1957	25·9 1953	46·1 1954	22·2 1951	23·6 1962	45·6 1953	20·6 1959	216·7 1955
Nagpur (Sonegaon)	35·0 1900	3·9 1937	60·3 1960	38·9 1887	5·0 1950	51·6 1942	45·0 1892	8·3 1898	45·0 1881	46·1 1942	13·9 1905	59·4 1937	47·8 1954	19·4 1917	58·4 1909	47·2 1931	20·0 1919	315·0 1911
Amraoti	35·0 1889	6·1 1934	59·2 1911	38·9 1953	5·0 1887	51·6 1928	43·9 1892	8·9 1898	51·6 1957	46·1 1898	12·8 1905	66·3 1937	46·7 1954	18·3 1917	47·2 1887	46·7 1923	19·4 1916	155·2 1927
Akola	36·2 1958	3·9 1937	49·0 1922	40·0 1953	2·2 1887	42·2 1907	44·4 1892	5·6 1908	38·6 1957	46·1 1942	11·1 1905	58·7 1937	47·8 1947	11·9 1960	44·7 1943	47·2 1923	20·0 1916	188·0 1955
Bramhapuri	31·8 1958	6·5 1962	30·6 1959	36·2 1958	7·8 1957	27·6 1961	40·5 1959	10·3 1962	47·5 1957	44·7 1961	17·6 1960	17·0 1957	46·6 1960	13·4 1962	43·7 1957	46·2 1958	20·5 1957	85·6 1960
Buldana	32·8 1956	9·2 1962	30·7 1955	36·7 1953	4·4 1950	25·4 1961	38·9 953	14·8 1957	36·2 1955	42·2 1958	15·9 1962	31·0 1959	42·2 1962	20·0 1956	44·2 1961	41·7 1953	19·4 1955	89·0 1959
Yeotmal	33·3 1950	9·4 1954	36·0 1960	37·8 1953	7·2 1950	31·2 1950	41·7 1953	14·4 1957	29·7 1957	44·7 1958	17·8 1955	146·7 1952	46·1 1954	20·0 1955	50·0 1961	45·6 1953	17·1 1961	104·4 1953
Chanda	35·6 1900	2·8 1899	39·4 1924	39·4 1951	3·9 1905	94·2 1898	44·2 1892	7·2 1898	68·8 1893	46·1 1942	11·7 1905	65·3 1914	48·4 1912	18·9 1919	44·5 1903	47·8 1929	20·0 1919	182·1 1887
Pusad	33·0 1961	6·4 1962	5·0 1962	38·0 1962	10·1 1961	3·2 1962	39·9 1962	11·5 1961	14·0 1962	46·0 1961	18·2 1961	24·2 1962	46·0 1961	21·0 1961	16·4 1961	41·4 1961	22·1 1961	39·0 1961

*Class II from 10-6-1962.

July			August			September			October			November			December			Based on data from		Sub-division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Saurashtra & Kutch *contd.*
35·6 1955	22·2 *1961*	167·9 *1957*	34·6 *1962*	21·1 *1952*	77·2 *1957*	37·0 1960	19·9 1957	99·9 1962	38·9 1952	*15·6* *1954*	*76·0* *1959*	36·2 *1957*	13·3 1953	12·2 *1958*	35·2 *1962*	9·4 *1961*	17·3 *1954*	1952	1952	Mahuva.
33·9 1902	20·4 *1961*	289·6 *1945*	33·3 *1932*	22·7 *1960*	*170·0* *1933*	36·7 1955	20·6 1946	277·4 1926	*40·0* 1952	*13·3* 1949	*73·7* 1917	*37·8* *1951*	10·0 *1950*	89·9 1896	35·6 1953	7·2 **1950**	25·7 1902	1891	1891	Veraval.
																				Konkan
35·0 1947	18·4 1960	431·0 1956	31·7 1947	20·6 1951	335·0 1945	33·9 1944	*21·1* 1954	*481·0* 1958	*36·1* *1953*	17·2 *1954*	173·4 *1959*	36·7 *1947*	15·6 *1955*	256·5 1948	35·6 1952	11·1 1945	0·5 1954	1944	1944	Dahanu.
34·8 1960	21·8 1957	310·6 1953	31·1 1954	19·4 1950	256·0 1954	*35·6* *1951*	*21·6* 1962	*212·4* 1962	37·0 *1957*	16·7 *1952*	117·1 *1955*	36·3 *1957*	13·3 *1950*	23·1 1957	35·2 1958	10·6 1949	25·9 1962	1949	1949	Bombay (Santa Cruz).
35·6 1902	21·7 1945	304·8 1923	32·2 1948	21·7 1943	237·0 1931	35·0 1929	20·0 1947	548·1 1939	36·6 *1957*	20·6 *1954*	148·6 *1917*	36·2 *1957*	17·8 1881	122·7 1927	35·7 1962	12·8 1929	47·8 1962	1881	1881	Bombay.
32·3 1960	20·0 1959	295·9 1953	32·8 1932	*21·1* 1940	204·0 1954	32·8 1951	21·1 1947	396·2 1949	37·2 1936	*18·3* *1954*	115·8 *1938*	36·7 *1941*	15·6 1950	106·7 1948	34·8 1960	13·9 1949	49·5 1962	1931	1931	Alibag.
32·8 1962	.. ..	328·6 1962	30·2 1962	.. ..	157·8 1962	34·2 1962	20·2 1962	147·4 1962	37·0 1962	16·1 1962	12·2 1962	36·2 1962	16·0 1962	12·2 1962	36·4 1962	13·1 1962	23·3 1962	1962	1962	Bhira*
32·2 1948	17·8 1950	242·6 1948	32·2 1947	20·6 1950	176·0 1937	31·7 1951	21·1 1947	308·6 1949	35·2 1962	19·4 1946	176·5 *1947*	35·6 *1951*	18·3 1946	72·6 1946	33·9 1944	18·9 1949	88·5 1962	1944	1944	Harnai.
32·8 1909	20·5 1919	304·8 1900	31·1 1939	21·1 1931	205·2 1885	34·4 1896	20·6 1962	236·7 1938	37·2 1888	17·8 *1903*	221·0 *1938*	37·2 *1918*	15·6 1955	243·8 1912	36·1 *1896*	14·4 *1954*	74·6 *1962*	1881	1881	Ratnagiri.
31·7 1957	18·2 1961	215·2 1962	31·7 1948	19·4 1945	150·8 1948	32·2 1953	21·1 1945	235·2 1948	35·0 1962	20·4 *1952*	141·0 *1951*	36·1 *1951*	17·2 *1952*	67·1 1946	34·4 1953	16·1 1949	138·8 1962	1945	1945	Devgarh.
32·4 *1960*	21·7 1956	237·7 *1951*	30·6 1950	21·7 1956	177·6 1958	32·8 1952	21·3 1957	128·6 1961	35·3 1960	17·0 1962	122·4 1951	35·6 1962	14·4 1950	49·6 1962	35·4 1961	10·6 1954	74·2 1962	1949	1949	Vengurla.
																				Madhya Maharashtra
38·2 1962	21·1 1952	167·5 1958	38·9 1954	21·1 1956	92·0 1959	36·1 1955	20·6 1962	124·5 1954	38·9 1952	16·2 1958	163·0 1959	37·2 1957	11·7 1956	20·0 1959	35·0 1953	10·6 1954	22·0 1962	1952	1952	Nandurbar.
39·9 1962	21·1 1938	110·7 1941	37·2 1947	20·0 1942	119·1 1942	38·9 1951	15·6 1942	111·8 1937	38·3 1951	10·0 1952	98·8 1943	36·5 1957	5·6 1950	59·9 1946	35·0 1953	1·7 1937	71·2 1962	1937	1937	Jalgaon.
33·9 1960	18·3 1953	158·5 1896	37·2 1889	16·1 1899	115·3 1897	38·3 1899	16·1 1942	132·1 1891	40·0 1899	10·6 1933	109·7 1935	36·7 1908	5·6 1910	105·2 1912	35·0 *1892*	2·8 *1926*	43·0 *1962*	1881	1881	Malegaon.
34·1 1962	20·0 1951	157·0 *1952*	33·3 1950	19·4 1956	115·3 1956	33·9 1960	17·4 *1962*	107·2 1962	35·7 1957	9·4 1954	54·6 1956	33·0 1961	6·7 1955	62·5 1938	33·1 1960	5·0 1954	40·0 1954	1950	1950	Deolali (Aerodrome).
37·2 1955	17·8 1944	174·3 1911	36·7 1899	16·1 1911	147·3 1957	36·7 1912	14·4 1896	148·8 1902	37·6 1960	10·6 1914	89·1 1943	35·6 1898	5·6 1892	124·7 1960	33·3 1953	3·3 1926	69·1 1942	1891	1891	Ahmadnagar.
.. ..	.. ..	516·4 1958	.. ..	.. ..	475·0 1956	.. ..	.. ..	308·4 1942	.. ..	.. ..	263·7 *1938*	.. ..	.. ..	188·7 1948	.. ..	.. ..	16·0 1942	..	1933	Khandala.
34·8 1960	20·0 1959	103·6 1958	32·2 1958	17·2 1956	103·6 1956	37·2 1951	15·6 1952	56·9 1962	36·1 1951	12·8 1950	106·9 1951	33·3 1953	9·4 1955	76·2 1951	33·3 1954	7·8 1954	29·2 *1962*	1950	1950	Poona (Acrodrome).
35·6 1915	18·9 1920	130·4 1958	35·0 1950	17·2 1920	108·7 1956	36·1 1951	16·1 1901	132·3 1938	37·8 1899	11·1 1910	149·1 1892	36·1 1896	7·2 1939	96·8 1934	35·0 1896	4·4 1940	41·1 1942	1881	1881	Poona.
39·9 1959	17·9 1959	88·1 1956	37·2 1950	17·4 1957	94·2 1958	36·1 1951	15·3 1959	90·9 1962	36·3 1957	12·2 1952	58·1 1959	35·0 1959	8·9 1955	63·6 1959	33·1 1958	5·3 1959	43·2 1954	1950	1950	Jeur.
36·2 1960	20·2 1956	37·1 1956	34·5 1958	17·8 1956	106·2 1956	35·6 1955	17·3 1962	110·2 1962	36·2 1957	12·8 1954	75·4 1957	33·4 1961	9·4 1955	46·2 1956	32·2 1954	7·8 1959	14·0 1954	1954	1954	Baramati.
38·9 1912	18·3 1914	160·3 1907	37·8 1899	15·0 1956	191·0 1940	37·2 1899	17·5 1959	169·9 1895	38·3 1896	12·8 1882	125·5 1957	36·1 1915	7·8 1881	127·8 1896	34·4 1896	6·7 1945	97·5 1886	1881	1881	Sholapur.
35·0 1932	17·2 1945	61·0 1913	34·4 1941	17·8 1949	150·9 1932	35·6 1951	15·6 1935	93·7 1946	36·1 1942	12·2 1937	101·3 1956	34·4 1958	8·3 1950	114·1 1955	34·4 1941	7·2 1954	19·8 1933	1931	1931	Miraj.
32·6 1960	18·9 1955	151·6 1953	32·2 1950	18·9 1956	116·3 1956	35·0 1951	17·3 1962	81·8 1960	35·7 1960	13·9 1952	67·6 1953	33·3 1951	11·1 1955	105·7 1962	33·4 1960	8·9 1956	51·7 1962	1946	1946	Kolhapur.
																				Marathwada
37·8 1897	18·3 1904	139·7 1916	36·1 1950	17·2 1935	134·6 1903	36·6 1896	16·1 1901	245·1 1891	37·8 1911	12·2 1903	124·6 1961	35·6 1896	7·2 1910	157·5 1946	34·4 1896	5·0 1902	92·7 1942	1896	1891	Aurangabad.
35·0 1952	18·9 1962	84·1 1953	33·3 1954	18·3 1956	69·3 1956	34·1 1960	15·5 1962	78·8 1958	35·2 1957	8·3 1952	94·5 1961	33·6 1957	5·6 1956	44·4 1958	32·8 1953	3·9 1954	28·4 1962	1952	1952	Aurangabad (Chikalthan)
37·8 1950	20·4 1957	171·5 1923	36·7 1950	20·0 1953	139·7 1944	35·6 1951	18·5 1959	217·2 1923	36·7 1946	10·0 1954	168·9 1955	33·9 1953	8·3 1956	79·0 1936	32·8 1953	6·7 1945	32·3 1937	1944	1916	Parbhani.
37·4 1961	18·3 1961	136·0 1961	33·2 1961	19·1 1961	105·8 1961	33·6 1961	20·0 1962	65·1 1962	35·4 1962	13·8 1962	61·8 1962	32·3 1962	9·4 1962	27·0 1962	31·8 1961	8·5 1962	32·8 1962	1961	1961	Nander.
35·3 1962	21·4 1962	61·6 1961	34·9 1962	20·5 1962	89·0 1962	32·8 1962	18·0 1962	59·6 1962	34·8 1962	13·0 1961	85·3 1961	31·9 1962	9·4 1961	42·3 1962	32·1 1961	8·0 1961	35·0 1962	1961	1961	Bir.
																				Vidarbha
37·7 1962	21·3 1958	164·2 1959	34·4 1947	18·3 1953	179·6 1961	34·4 1951	20·6 1952	281·4 1961	35·3 1957	13·3 1952	106·7 1949	33·9 1957	8·9 1950	54·6 1948	32·7 1960	7·2 1955	104·0 1962	1946	1946	Gondia.
40·6 1897	17·4 1942	219·2 1898	37·8 1899	18·3 1939	200·7 1875	38·9 1899	18·3 1904	184·4 1962	38·3 1899	11·6 1960	164·6 1936	35·6 1899	6·7 1922	81·5 1946	33·9 1941	5·6 1936	61·0 1962	1881	1881	Nagpur (Sonegaon).
39·4 1931	18·9 1890	230·1 1888	36·7 1902	15·6 1944	168·1 1944	38·3 1899	17·2 1893	234·9 1933	39·4 1899	12·8 1889	90·2 1940	35·6 1899	8·9 1884	78·0 1931	33·9 1913	8·3 1937	55·6 1885	1881	1881	Amraoti.
40·6 1900	20·6 1941	188·5 1894	37·8 1950	18·3 1944	224·5 1900	40·0 1899	17·2 1904	365·4 1959	40·0 1899	10·0 1889	110·5 1887	36·1 1899	5·6 1912	112·3 1936	36·7 1896	3·9 1883	65·0 1885	1881	1881	Akola.
36·8 1962	18·7 1957	214·0 1960	33·5 1958	19·6 1957	117·0 1960	34·6 1960	19·4 1957	175·4 1959	35·6 1960	16·2 1960	65·2 1960	33·1 1957	11·3 1960	54·0 1958	37·2 1957	8·6 1958	18·6 1962	1957	1957	Bramhapuri
34·4 1952	18·9 1949	122·9 1953	35·0 1950	16·6 1959	129·8 1959	32·8 1951	17·9 1959	170·4 1958	33·9 1951	14·4 1957	161·5 1961	32·2 1960	11·7 1949	49·4 1962	31·8 1960	10·4 1961	19·6 1950	1948	1948	Buldana
38·3 1950	20·0 1953	123·0 1959	35·6 1950	19·4 1955	165·6 1952	35·1 1960	19·6 1962	210·6 1959	35·4 1957	13·9 1952	85·9 1952	32·8 1957	10·0 1950	63·2 1962	34·0 1960	10·0 1950	29·9 1962	1949	1949	Yeotmal
40·6 1897	17·8 1854	191·3 1887	37·2 1954	18·3 1954	179·6 1951	37·2 1899	18·3 1904	249·4 1959	37·8 1899	11·7 1882	164·1 1936	36·1 1950	7·2 1950	70·9 1881	33·9 1933	3·9 1883	54·6 1884	1881	1881	Chanda
38·1 1962	20·3 1962	64·1 1962	34·8 1962	21·5 1962	67·2 1962	34·1 1962	20·1 1962	61·6 1961	35·0 1962	14·2 1962	95·4 1961	34·0 1961	10·6 1962	33·3 1962	30·4 1962	8·4 1961	27·3 1962	1961	1961	Pusad

*Class II from 10-6-1962.

Sub-division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Vidarbha—*contd.*																		
Sironcha	33·3 1955	7·8 1951	7·1 1959	37·8 1953	10·6 1957	16·6 1961	41·7 1959	13·9 1952	95·0 1951	44·7 1959	20·0 1962	33·0 1962	46·7 1954	21·1 1955	26·4 1955	46·7 1953	20·1 1960	119·0 1959
Coastal Andhra Pradesh																		
Kalingapatam	33·9 1911	12·1 1962	25·4 1908	37·8 1922	12·8 1918	83·1 1923	38·9 1946	16·1 1952	84·3 1940	41·7 1947	18·3 1930	63·5 1956	45·0 1923	20·6 1951	307·3 1914	43·9 1923	19·8 1960	188·2 1935
Vishakhapatnam	33·1 1958	10·5 1962	132·1 1908	36·7 1922	13·3 1956	64·5 1901	38·3 1956	14·4 1952	64·5 1926	39·6 1961	18·3 1930	73·9 1925	43·3 1953	20·0 1904	145·3 1955	44·4 1923	21·1 1953	166·1 1929
Kakinada	32·8 1950	12·0 1962	78·2 1921	37·8 1896	15·6 1918	45·0 1893	38·9 1934	17·2 1906	71·6 1905	42·8 1947	18·9 1942	61·0 1937	46·7 1934	21·1 1917	109·7 1914	47·2 1923	21·7 1940	501·4 1941
Nidadavole	33·2 1958	12·3 1962	4·0 1959	36·6 1959	15·0 1956	28·0 1961	37·9 1962	13·8 1962	35·7 1960	42·8 1956	19·1 1962	27·0 1962	48·9 1962	21·6 1959	57·7 1957	46·2 1958	22·3 1959	59·9 1956
Rentachintala	35·0 1958	10·6 1946	3·8 1948	39·4 1959	12·8 1949	21·3 1956	44·4 1953	15·6 1952	28·5 1950	46·1 1941	18·3 1937	69·1 1948	47·2 1948	18·3 1955	67·3 1940	47·2 1953	21·7 1947	101·6 1947
Gannavaram	34·4 1952	14·2 1962	8·4 1956	37·8 1954	15·5 1960	15·8 1961	43·3 1953	17·2 1952	46·7 1957	44·4 1956	21·6 1960	77·5 1953	46·7 1956	21·1 1955	46·8 1962	46·7 1953	20·6 1951	150·4 1960
Nagarjunakonda	34·1 1961	10·9 1962	2·6 1961	38·1 1961	15·4 1962	31·6 1962	42·6 1961	20·9 1962	0 ..	44·1 1961	21·3 1962	21·4 1962	42·9 1961	22·6 1961	24·0 1962	41·3 1962	23·1 1961	48·6 1961
Masulipatam	33·3 1946	13·9 1945	76·2 1908	37·2 1927	14·4 1889	96·5 1901	42·2 1892	16·7 1906	150·4 1926	41·4 1892	18·3 1926	101·3 1942	47·8 1906	19·4 1893	82·5 1904	46·1 1924	20·0 1961	133·3 1915
Ongole	33·9 1946	14·0 1962	27·9 1953	38·3 1954	14·4 1945	47·8 1959	43·3 1953	18·3 1945	52·3 1951	44·4 1956	20·6 1950	16·8 1956	46·1 1956	16·1 1949	102·6 1949	46·1 1953	22·4 1961	81·4 1961
Nellore	35·6 1936	15·0 1946	94·2 1906	39·4 1927	16·1 1891	116·8 1928	43·9 1892	17·2 1910	59·2 1944	45·6 1895	20·6 1934	73·7 1900	46·7 1892	21·7 1947	185·9 1952	46·7 1894	21·1 1912	83·8 1903
Telangana																		
Ramgundam	33·9 1957	9·4 1953	10·9 1953	38·9 1951	9·4 1949	14·0 1961	42·8 1953	14·4 1952	21·1 1951	44·7 1961	20·0 1956	62·0 1961	47·2 1948	21·1 1949	65·5 1957	47·2 1953	21·7 1959	140·7 1953
Nizamabad	35·6 1928	5·0 1899	59·7 1943	38·3 1954	6·1 1911	72·4 1928	43·3 1923	11·1 1892	43·9 1950	44·4 1942	12·8 1905	76·2 1937	47·2 1923	18·3 1917	71·1 1922	46·1 1931	16·7 1902	246·4 1914
Hanam Konda	35·0 1921	8·9 1945	58·4 1924	37·8 1954	10·6 1911	82·0 1962	42·2 1953	15·0 1906	71·1 1928	44·7 1961	17·8 1957	83·6 1937	46·7 1928	17·2 1917	75·7 1940	46·1 1953	20·6 1927	197·6 1914
Hakimpet (Aerodrome)	30·7 1960	12·0 1962	0 ..	35·3 1959	13·5 1961	50·0 1962	38·3 1959	16·1 1958	31·2 1958	40·6 1956	18·0 1962	25·9 1956	43·3 1956	18·9 1957	32·5 1955	42·2 1953	18·9 1954	106·9 1955
Bhadrachalam	34·5 1958	8·4 1962	32·0 1961	38·3 1954	11·7 1956	18·0 1962	42·8 1953	15·6 1952	25·4 1954	43·9 1956	18·3 1956	30·0 1956	46·7 1956	21·7 1955	46·2 1962	46·8 1958	20·6 1954	78·7 1956
Hyderabad (Begampet)	35·0 1929	6·1 1946	93·2 1922	37·2 1951	8·9 1911	42·9 1912	42·2 1892	13·2 1957	103·1 1928	43·3 1941	16·1 1917	60·7 1937	44·4 1935	19·4 1917	65·0 1905	43·9 1931	17·8 1922	122·7 1914
Khammam	35·0 1950	9·4 1946	11·4 1941	38·9 1954	11·7 1943	39·6 1946	43·3 1953	16·1 1952	47·0 1944	45·0 1941	18·9 1945	63·0 1945	47·2 1947	21·1 1948	46·5 1948	46·7 1953	21·6 1961	92·7 1953
Mahbubnagar	32·6 1960	11·5 1962	0·3 1958	37·0 1961	11·7 1956	8·0 1962	40·0 1953	15·6 1952	43·4 1958	42·2 1956	19·2 1958	65·5 1957	43·3 1956	19·9 1962	79·3 1952	43·3 1953	20·6 1955	82·5 1961
Rayalaseema																		
Kurnool	36·1 1897	8·3 1891	41·1 1915	38·9 1899	11·1 1943	66·8 1928	41·7 1925	12·8 1921	50·0 1893	44·4 1896	16·1 1905	42·2 1957	45·6 1921	19·4 1955	165·6 1952	44·4 1898	20·0 1935	81·3 1901
Nandyal†																		
Anantapur	34·1 1958	11·5 1962	5·1 1947	37·9 1959	13·3 1947	10·9 1947	40·6 1953	15·0 1951	25·9 1951	42·2 1956	18·3 1950	67·1 1956	42·2 1953	18·9 1951	79·6 1961	41·7 1953	20·6 1953	59·9 1957
Cuddapah	37·8 1897	11·7 1912	84·8 1896	40·6 1897	14·4 1948	51·6 1901	43·3 1903	17·2 1923	131·3 1915	45·0 1906	17·8 1907	116·6 1898	46·1 1906	19·4 1896	115·1 1940	45·0 1923	17·8 1944	152·4 1957
Arogyavaram	31·6 1958	10·6 1962	19·3 1947	35·0 1959	11·6 1960	22·6 1950	37·2 1953	10·5 1960	18·0 1957	38·4 1961	18·2 1960	50·0 1956	38·9 1947	15·6 1946	80·5 1951	37·2 1953	18·9 1957	69·6 1958
Madras State																		
Madras	32·8 1894	13·9 1905	212·9 1915	36·7 1927	15·0 1934	123·2 1929	40·6 1953	16·7 1908	64·5 1925	42·8 1908	20·0 1939	96·3 1945	45·0 1910	21·1 1886	214·9 1943	43·3 1948	20·6 1909	59·2 1931
Madras (Minambakkam)	30·8 1958	16·1 1950	62·7 1955	35·0 1950	16·2 1960	27·9 1955	40·0 1953	18·3 1954	2·8 1950	41·1 1956	21·1 1950	100·3 1951	42·2 1953	21·1 1952	244·3 1952	42·2 1953	21·0 1961	52·5 1961
Vellore	34·2 1962	11·7 1946	69·1 1922	37·8 1945	12·8 1922	67·3 1906	40·6 1953	14·4 1934	49·8 1915	43·9 1908	17·8 1950	83·1 1951	44·4 1906	19·4 1902	214·4 1943	42·8 1935	20·6 1922	94·2 1938
Tambaram (Aerodrome)	32·3 1961	18·6 1961	23·3 1960	34·3 1962	16·6 1960	42·2 1961	37·2 1961	20·0 1959	0 ..	41·3 1962	23·2 1959	18·0 1962	43·6 1961	22·8 1961	67·3 1962	41·0 1960	21·9 1961	78·7 1961
Tiruppattur	33·3 1959	11·1 1962	8·4 1961	37·2 1959	11·5 1960	20·3 1960	38·8 1961	14·5 1960	47·0 1960	40·2 1960	19·0 1962	29·4 1962	40·5 1959	21·1 1959	53·4 1962	39·1 1959	20·1 1962	64·4 1962
Mettur Dam R.S.*																		
Cuddalore	31·7 1951	13·3 1894	131·4 1961	36·1 1898	14·4 1918	119·4 1930	38·9 1953	16·1 1898	183·1 1933	42·2 1908	19·4 1939	120·4 1939	43·3 1953	21·1 1950	572·0 1943	42·8 1905	21·1 1898	82·5 1921
Kallakkurichchi	34·3 1959	15·0 1950	29·7 1956	37·7 1959	15·6 1950	52·8 1950	41·7 1953	17·2 1951	51·3 1950	41·7 1956	20·3 1959	75·0 1962	42·8 1956	20·6 1955	165·9 1957	41·4 1958	21·5 1962	66·3 1956
Salem	37·2 1925	12·8 1907	65·8 1943	39·4 1926	11·1 1907	65·8 1893	41·7 1892	14·4 1934	80·8 1884	42·8 1908	18·3 1887	95·5 1929	42·8 1931	18·3 1893	103·6 1930	42·8 1921	20·0 1885	115·6 1902
Coimbatore (Pilamedu)	35·9 1957	12·2 1949	21·3 1961	37·3 1959	13·0 1960	49·0 1950	38·7 1959	15·6 1949	17·0 1951	39·7 1961	18·3 1949	111·0 1958	39·4 1952	15·6 1949	69·3 1957	35·7 1959	18·3 1949	23·7 1959
Coimbatore	35·0 1887	11·7 1912	141·5 1900	36·7 1899	12·8 1910	64·8 1922	39·3 1959	15·6 1930	83·8 1915	40·0 1906	17·8 1899	54·9 1954	39·4 1952	16·7 1962	85·6 1930	38·3 1895	18·3 1893	132·6 1941
Nagapattinam	31·7 1899	16·1 1912	245·1 1923	35·6 1898	15·6 1884	125·0 1938	40·0 1953	16·7 1894	126·5 1923	41·7 1908	20·0 1894	151·6 1931	42·8 1898	20·6 1901	164·1 1930	41·7 1884	20·6 1882	79·3 1935
Tiruchchirappalli	35·6 1925	14·4 1884	114·8 1909	40·0 1906	13·9 1884	137·9 1891	42·2 1892	15·6 1896	80·8 1906	42·8 1896	18·3 1937	160·5 1889	43·3 1896	19·4 1955	188·1 1930	43·9 1888	20·0 1911	73·4 1894
Vedaranniymanalli	30·6 1961	21·0 1961	65·0 1961	32·8 1962	.. ..	15·0 1962	34·7 1962	.. ..	0 ..	36·5 1961	22·8 1961	11·4 1962	39·5 1962	22·5 1961	16·0 1962	37·5 1962	20·9 1961	126·1 1962

*Observatory started from 1-7-1962.

†Registers not received.

July			August			September			October			November			December			Based on date from		Sub-division and Statle
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Vidarbha—*contd.*
38·9 1951	20·1 1960	167·6 1960	36·1 1950	18·9 1954	247·1 1953	35·2 1957	21·7 1959	100·9 1957	36·9 1957	14·4 1954	115·8 1957	33·9 1957	10·6 1950	41·0 1961	33·0 1960	9·7 1961	80·1 1962	1950	1950	Sironcha
																				Coastal Andhra Pradesh
38·9 1911	21·7 1919	205·7 1956	36·7 1923	21·4 1962	192·5 1912	36·7 1920	20·9 1961	310·6 1911	35·6 1961	16·7 1952	264·2 1962	33·9 1914	13·3 1926	280·4 1923	31·7 1951	12·2 1937	221·7 1909	1911	1906	Kalingapatam
38·3 1899	21·3 1960	145·0 1951	38·2 1960	21·1 1907	121·4 1957	37·8 1939	22·2 1953	148·6 1914	36·8 1957	17·8 1952	293·3 1958	33·9 1942	15·0 1929	270·5 1923	32·8 1951	12·8 1959	191·3 1909	1896	1901	Vishakhapatnam
41·7 1897	21·1 1938	127·0 1947	37·8 1902	21·7 1955	146·1 1937	37·2 1920	21·7 1958	285·7 1956	37·2 1907	17·2 1949	281·9 1936	33·9 1951	15·6 1910	276·3 1923	32·2 1899	13·9 1902	130·3 1882	1896	1881	Kakinada
36·4 1962	21·9 1959	119·0 1961	34·5 1960	22·4 1957	66·5 1957	34·9 1957	22·1 1960	64·0 1961	36·5 1957	20·8 1960	146·3 1960	33·2 1958	15·5 1959	47·5 1957	33·1 1960	12·9 1959	17·2 1960	1955	1955	Nidadavole
40·6 1952	21·7 1956	87·6 1953	39·4 1950	21·7 1958	103·0 1958	38·3 1946	21·3 1958	154·9 1954	38·1 1957	16·7 1950	153·2 1945	36·1 1951	12·2 1950	71·6 1956	34·4 1951	10·0 1936	53·3 1952	1936	1936	Rentachintala
39·4 1952	21·5 1957	99·6 1956	36·7 1952	22·0 1959	83·8 1955	36·7 1957	18·2 1957	143·3 1954	36·1 1951	18·3 1952	134·1 1956	35·0 1951	16·2 1960	46·0 1956	33·9 1951	15·0 1961	10·7 1952	1951	1950	Gannavaram
36·3 1962	23·3 1961	60·6 1961	36·3 1962	22·6 1961	42·6 1961	35·9 1961	22·9 1962	82·0 1962	36·3 1962	20·6 1961	135·0 1961	34·2 1962	14·3 1961	76·4 1962	32·2 1961	10·6 1961	10·4 1962	1961	1961	Nagarjuna Konda
41·7 1897	19·4 1893	115·6 1935	38·3 1920	21·7 1952	135·6 1886	37·8 1888	20·6 1895	117·0 1962	37·2 1888	18·9 1895	502·4 1949	34·4 1891	13·9 1934	355·6 1938	32·2 1951	14·4 1937	159·3 1947	1881	1881	Masulipatam
40·0 1952	21·2 1957	80·3 1956	38·5 1960	21·7 1956	66·0 1949	38·9 1952	21·7 1949	232·7 1949	37·8 1951	18·3 1947	184·9 1953	35·2 1959	16·7 1955	258·3 1946	33·9 1951	15·1 1959	87·4 1952	1945	1945	Ongole
45·6 1951	22·2 1943	95·3 1950	40·6 1899	21·7 1912	75·2 1923	41·7 1899	21·7 1945	133·6 1909	39·4 1900	18·9 1895	144·0 1950	36·7 1915	16·7 1939	356·9 1936	35·0 1909	14·4 1895	189·2 1902	1891	1891	Nellore
																				Telangana
40·0 1950	21·1 1950	119·9 1956	36·7 1949	21·7 1959	89·4 1953	37·3 1958	21·4 1959	106·0 1959	38·4 1957	15·6 1954	84·6 1947	35·2 1959	11·1 1952	70·2 1961	33·9 1956	8·5 1959	3·1 1952	1947	1947	Ramgundam
40·0 1904	14·4 1931	293·0 1958	37·8 1899	17·2 1901	157·7 1944	37·2 1920	17·2 1903	251·5 1929	38·9 1951	11·7 1921	196·9 1939	35·6 1926	7·2 1929	80·0 1936	35·0 1920	4·4 1897	49·8 1918	1891	1891	Nizamabad
38·9 1920	17·8 1911	227·8 1903	37·2 1920	19·4 1905	190·5 1924	38·3 1920	19·4 1904	304·8 1908	37·8 1920	15·0 1952	136·4 1957	34·4 1920	9·4 1904	92·7 1916	33·9 1920	8·3 1902	42·4 1929	1901	1901	Hanam Konda
34·1 1960	19·4 1959	84·3 1957	33·2 1960	19·4 1958	141·2 1955	35·6 1956	17·8 1954	121·7 1954	32·2 1962	15·0 1954	67·3 1957	30·6 1962	12·8 1955	82·5 1962	31·2 1957	12·7 1962	51·3 1962	1952	1952	Hakimpet (Aerodrome)
39·4 1952	21·7 1954	73·9 1956	36·0 1960	21·1 1952	119·0 1959	36·6 1959	21·2 1961	90·0 1962	37·6 1957	15·6 1952	68·6 1953	34·1 1957	12·2 1953	44·5 1956	32·8 1958	9·8 1961	40·4 1952	1952	1952	Bhadrachalam
37·2 1918	19·4 1931	109·2 1916	36·1 1950	19·4 1955	190·5 1954	36·1 1927	17·8 1942	153·2 1908	36·7 1896	13·3 1954	117·1 1903	33·9 1909	7·8 1939	95·5 1927	33·3 1930	7·2 1945	44·5 1918	1891	1896	Hyderabad (Begampet)
39·4 1952	20·5 1959	299·7 1954	36·3 1960	20·2 1961	107·2 1950	37·2 1957	20·6 1942	152·4 1947	37·4 1957	16·7 1952	130·8 1941	33·9 1951	11·7 1941	86·4 1946	33·4 1960	10·0 1945	17·8 1947	1941	1941	Khammam
36·8 1957	19·4 1952	104·4 1956	34·4 1953	20·0 1956	78·4 1961	34·4 1952	19·4 1954	79·0 1955	35·1 1957	16·1 1952	68·6 1952	32·7 1957	12·8 1955	32·5 1958	32·5 1960	12·2 1956	44·5 1962	1952	1952	Mahbubnagar
																				Rayalaseema
38·3 1915	20·6 1903	132·1 1893	37·8 1899	20·0 1929	121·9 1955	37·8 1899	19·4 1892	200·1 1888	38·3 1898	13·9 1950	146·3 1916	36·1 1896	10·0 1950	80·5 1903	34·4 1929	6·7 1902	71·1 1906	1891	1886	Kurnool
																				Nandyal†
36·7 1952	21·1 1956	84·4 1960	36·7 1949	21·2 1957	77·5 1949	36·1 1957	19·4 1954	108·0 1959	35·2 1962	15·6 1950	78·5 1946	35·0 1959	12·8 1950	99·3 1948	32·2 1959	12·2 1951	31·0 1962	1946	1946	Anantapur
40·6 1897	17·2 1943	103·9 1894	40·0 1899	19·4 1921	176·0 1910	39·4 1907	19·4 1920	173·5 1906	38·9 1922	16·7 1943	270·4 1958	36·1 1927	13·9 1939	104.7 1943	35·6 1930	10·6 1914	85·1 1883	1891	1881	Cuddapah
34·4 1946	16·7 1952	100·1 1954	33·9 1951	18·1 1958	61·4 1958	33·9 1952	16·1 1949	88·7 1956	32·8 1948	15·0 1947	157·7 1954	31·1 1947	12·2 1950	53·8 1960	29·4 1951	10·6 1960	72·4 1916	1945	1915	Arogyavaram
																				Madras State
41·1 1915	21·5 1959	116·3 1910	40·0 1918	20·6 1935	91·7 1950	38·9 1883	20·6 1884	100·3 1881	39·4 1920	16·7 1889	233·7 1888	34·4 1952	15·0 1901	236·2 1922	32·8 1909	13·9 1895	261·6 1901	1881	1881	Madras
39·4 1951	22·0 1961	68·3 1954	38·9 1953	21·7 1957	92·2 1955	37·8 1952	22·2 1956	104·9 1956	36·7 1951	20·6 1952	142·5 1962	35·0 1951	16·7 1954	209·6 1960	31·7 1952	16·1 1949	113·8 1952	1949	1949	Madras (Minambakkam)
40·6 1902	20·6 1910	125·2 1910	39·4 1901	21·1 1952	106·2 1909	38·3 1908	20·0 1936	122·9 1921	37·8 1954	15·6 1911	170·9 1943	35·0 1952	13·9 1921	299·0 1930	33·9 1909	12·2 1950	152·9 1901	1901	1901	Vellore
36·8 1962	22·5 1962	37·1 1961	37·3 1962	21·9 1962	85·0 1962	36·8 1960	21·9 1960	79·0 1960	36·5 1960	21·0 1962	112·6 1959	34·0 1962	19·4 1962	170·7 1959	32·2 1960	17·9 1962	72·4 1960	1959	1959	Tambaram (Aerodrome)
36·9 1960	20·5 1961	89·0 1960	37·6 1960	20·2 1962	77·0 1962	36·6 1961	19·2 1962	120·0 1960	35·4 1960	18·5 1960	56·2 1959	31·9 1962	13·5 1962	76·0 1959	31·8 1960	13·2 1961	31·0 1962	1959	1959	Tiruppattur
37·4 1962	22.9 1962	3·3 1962	36·6 1962	21·6 1962	.. ..	33·8 1962	22·1 1962	80·3 1962	34·9 1962	21·8 1962	.. ..	33·2 1962	18·2 1962	12·7 1962	31·8 1962	18·8 1962	17·5 1962	1962	1962	Mettur Dam R.S.*
40·6 1895	18·9 1911	100·8 1949	39·4 1923	20·6 1899	134·6 1892	38·3 1891	20·0 1899	135·6 1911	38·9 1899	18·9 1899	208·3 1895	35·0 1915	16·7 1901	309·9 1913	35·0 1895	11·1 1933	426·5 1931	1891	1891	Cuddalore
40·0 1952	21·7 1951	108·7 1955	38·4 1959	21·0 1962	73·9 1951	38·4 1957	19·9 1952	118·0 1961	37·2 1951	18·9 1950	113·0 1955	36·7 1948	16·1 1954	260·9 1959	33·3 1950	16·1 1954	83·3 1952	1948	1948	Kallakkurichchi
40·6 1923	18·9 1887	125·5 1952	38·9 1885	19·4 1909	176·3 1939	38·9 1891	18·9 1887	250·2 1885	37·8 1918	15·6 1911	165·6 1916	35·6 1948	12·8 1901	121·9 1882	35·6 1926	12·8 1945	131·3 1884	1881	1881	Salem
33·5 1958	16·1 1949	39·1 1949	33·6 1962	16·1 1949	52·1 1950	35·6 1955	16·7 ,948	116·8 1950	35·0 1949	16·1 1948	65·2 1960	32·8 1952	14·4 1954	85·5 1960	32·2 1950	12·8 1951	40·0 1962	1948	1948	Coimbatore (Pilamedu)
35·6 1898	16·7 1911	103·6 1924	35·6 1889	17·2 1921	59·4 1916	35·8 1959	17·8 1954	75·7 1912	36·1 1918	15·0 1911	107·4 1891	34·4 1892	13·9 1901	104·7 1957	35·0 1899	12·2 1883	109·7 1930	1881	881	Coimbatore
41·7 1898	21·7 1936	113·0 1916	40·6 1898	20·6 1913	125·7 1900	37·8 1907	20·6 1897	78·7 1921	37·2 1908	20·6 1891	396·2 1930	35·0 1948	16·7 1951	365·5 1918	33·9 1909	16·7 1886	366·8 1931	1881	1881	Nagapattinam
41·1 1921	21·1 1926	94·7 1916	40·6 1888	20·6 1935	110·0 1944	40·6 1929	20·6 1908	84·3 1897	38·9 1906	18·9 1891	319·0 1930	36·7 1923	16·7 1884	298·2 1939	35·6 1926	14·4 1883	35·6 1931	1881	1881	Tiruchchirappalli
37·3 1962	22·1 1962	33·2 1961	35·9 1962	22·2 1962	52·8 1962	35·8 1961	20·2 1961	33·4 1961	34·9 1962	20·7 1961	83·8 1962	32·8 1961	21·6 1962	79·0 1962	31·4 1962	21·1 1962	82·4 1961	1961	1961	Vedaranniyam

*Odservatory starteb from 1-7-1962. †Registers not received.

Sub-division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
MADRAS STATE—*Contd.*																		
Atirampattinam	32·0 1962	17·6 1962	83·2 1961	32·7 1962	19·8 1961	6·8 1962	35·4 1962	20·0 1961	0 ..	35·6 1961	22·0 1962	67·2 1962	40·0 1962	23·5 1962	20·8 1962	37·8 1962	23·0 1962	51·8 1962
Madurai	34·4 1936	15·6 1907	152·4 1921	38·3 1906	16·1 1884	188·0 1929	41·7 1882	17·2 1909	100·3 1947	41·7 1935	19·4 1909	166·4 1891	41·7 1956	17·8 1920	102·4 1961	42·2 1935	17·8 1897	105·4 1927
Madurai Aerodrome	33·3 1959	17·2 1962	54·6 1962	36·1 1959	16·5 1960	6·8 1959	38·0 1959	18·6 1959	22·8 1962	39·5 1961	22·6 1962	51·4 1960	39·9 1959	21·2 1961	66·4 1961	39·1 1960	22·8 1962	55·3 1962
Tondi	31·8 1960	18·9 1962	81·0 1961	32·5 1961	18·6 1960	16·0 1960	33·0 1962	21·6 1962	0·2 1961	34·1 1962	22·5 1961	28·6 1960	39·2 1961	22·7 1962	48·0 1962	38·6 1960	23·2 1960	57·0 1961
Pamban	33·3 1902	20·0 1956	127·5 1902	33·3 1906	19·4 1939	88·9 1902	35·0 1953	20·6 1959	63·0 1938	37·2 1930	20·6 1940	81·3 1954	36·7 1923	21·1 1891	102·6 1930	37·2 1930	20·6 1897	55·6 1940
Tuticorin	33·3 1955	18·4 1962	90·0 1961	31·1 1958	18·3 1956	41·2 1959	34·8 1961	21·1 1956	62·2 1957	38·3 1956	22·2 1961	126·0 1961	41·1 1956	21·6 1962	41·3 1958	38·9 1958	21·7 1960	11·4 1956
Palayankottai	33·9 1960	18·5 1957	125·6 1961	36·2 1957	19·2 1961	61·0 1962	41·7 1953	21·1 1959	83·3 1954	41·7 1956	22·2 1955	74·9 1947	42·2 1953	21·4 1962	83·6 1959	42·2 1953	21·7 1955	20·6 1962
Kanniyakumari	33·5 1962	21·8 1962	53·7 1961	33·4 1961	22·0 1962	27·0 1961	34·2 1962	23·1 1961	55·0 1961	34·6 1961	21·6 1961	59·0 1962	35·6 1961	22·2 1961	53·0 1962	32·8 1962	21·9 1961	31·0 1962
COASTAL MYSORE																		
Karwar	36·1 1954	13·6 1962	0·8 1958	38·1 1962	14·0 1961	0 ..	36·1 1954	15·8 1962	16·8 1954	38·9 1956	21·0 1957	28·7 1954	34·4 1958	21·3 1962	181·2 1962	34·0 1960	20·6 1958	214·1 1960
Honavar	36·5 1961	15·6 1946	18·5 1943	37·2 1943	14·2 1960	1·5 1947	37·8 1948	18·8 1958	19·8 1954	35·0 1956	20·6 1951	62·0 1956	35·0 1941	21·1 1950	238·5 1955	33·9 1948	21·1 1954	292· 1946
Mangalore (Bajpe)	36·6 1957	17·3 1958	0 ..	36·4 1959	17·9 1960	0 ..	37·7 1958	20·1 1957	0 ..	35·0 1961	21·6 1961	43·2 1959	36·1 1960	20·6 1959	155·7 1961	33·9 1958	20·8 1958	251·2 1959
Mangalore	36·3 1961	16·7 1911	40·6 1943	37·8 1920	16·7 1911	73·1 1962	37·3 1958	18·3 1911	82·8 1946	36·1 1916	20·0 1954	117·1 1939	36·7 1921	18·9 1911	360·9 1909	34·4 1923	20·0 1920	252·0 1897
INTERIOR MYSORE NORTH																		
Bidar	33·9 1925	3·9 1901	51·3 1906	37·2 1926	9·4 1950	29·2 1928	41·7 1910	12·8 1925	36·3 1938	42·2 1946	12·2 1918	110·5 1907	43·3 1931	6·7 1918	86·9 1943	42·8 1953	10·0 1918	184·9 1943
Gulbarga	36·1 1897	6·7 1937	42·4 1922	33·3 1903	11·1 1911	57·1 1929	42·8 1892	12·8 1910	76·0 1960	43·9 1923	13·3 1902	79·3 1907	45·0 1912	18·3 1892	124·7 1952	45·0 1923	12·8 1910	144·3 1928
Bijapur	39·4 1948	7·2 1945	89·1 1942	41·1 1943	8·9 1930	23·6 1928	41·1 1910	13·3 1910	39·9 1938	42·2 1931	16·1 1905	66·0 1933	43·3 1912	17·8 1940	90·2 1956	42·2 1923	17·2 1903	69·0 1961
Raichur	35·6 1897	10·0 1899	49·8 1926	38·3 1897	12·8 1929	49·3 1923	42·8 1892	16·7 1936	23·9 1955	43·3 1927	16·1 1936	95·8 1901	45·6 1928	18·3 1927	87·9 1952	43·3 1898	16·1 1896	118·1 1901
Belgaum	32·6 1959	8·1 1962	0 ..	36·3 1961	9·3 1961	40·9 1956	38·2 1959	10·4 1957	38·2 1960	39·4 1956	12·8 1955	69·1 1956	38·6 1959	17·7 1960	129·5 1955	33·0 1959	17·7 1958	132·3 1955
Belgaum (Samra)	32·8 1956	10·6 1956	0 ..	36·0 1957	10·3 1961	15·5 1956	38·3 1953	9·4 1957	32·8 1960	40·0 1956	14·4 1955	50·6 1962	39·4 1953	17·2 1955	69·4 1962	38·3 1953	18·3 1956	94·2 1955
Gadag	34·5 1960	11·1 1951	21·1 1935	37·7 1961	11·1 1950	16·8 1937	40·0 1953	15·0 1940	61·7 1948	41·1 1941	17·2 1935	65·8 1962	41·7 1939	18·9 1952	81·8 1943	40·6 1953	19·4 1956	68·8 1944
INTERIOR MYSORE SOUTH																		
Bellary	36·7 1897	10·6 1891	46·2 1884	39·4 1897	12·2 1891	59·9 1917	42·8 1892	14·4 1885	26·7 1930	43·9 1909	16·1 1905	77·0 1956	43·9 1897	18·3 1890	162·3 1940	42·2 1915	18·9 1956	85·3 1915
Chitradurga	33·9 1900	11·1 1918	104·1 1918	36·1 1931	13·3 1947	88·9 1944	38·9 1925	16·1 1955	17·8 1915	39·4 1941	17·2 1904	105·7 1956	41·7 1931	16·7 1951	181·6 1955	37·8 1935	17·2 1906	118·4 1897
Shimoga	33·3 1962	9·1 1962	1·0 1953	37·2 1953	10·4 1960	3·2 1962	38·9 1953	11·7 1951	29·2 1955	38·7 1962	15·6 1962	114·5 1956	39·2 1959	18·3 1954	89·4 1957	36·1 1953	18·3 1956	114·4 1959
Agumbe	30·3 1962	.. ..	.. ..	33·0 1962	.. ..	.. ..	34·0 1962	.. ..	.. ..	34·0 1962	.. ..	18·0 1962	32·6 1962	.. ..	100·0 1962	27·3 1962	.. ..	50·0 1962
Balehonnur	32·8 1955	10·0 1946	8·4 1947	33·1 1961	11·1 1940	32·3 1952	36·1 1962	12·2 1940	58·7 1936	35·6 1962	13·9 1952	102·6 1956	35·6 1959	15·6 1952	218·4 1955	32·8 1953	15·6 1943	172·7 1941
Hassan	32·2 1955	7·8 1899	59·7 1921	35·0 1906	8·3 1898	50·3 1941	36·7 1934	9·4 1898	57·9 1954	37·2 1942	14·4 1905	72·9 1899	37·8 1906	14·4 1923	143·8 1904	34·4 1953	16·1 1936	94·5 1941
Bangalore	32·2 1925	7·8 1884	65·8 1908	34·4 1926	9·4 1884	67·3 1901	37·2 1925	11·1 1884	50·8 1911	38·3 1931	14·4 1894	90·7 1939	38·9 1931	16·7 1945	153·9 1909	37·8 1926	16·7 1890	101·6 1891
Bangalore Aerodrome	31·2 1959	10·2 1962	13·0 1958	34·4 1959	12·2 1950	28·5 1950	36·6 1959	11·7 1950	18·5 1954	38·3 1960	17·2 1950	58·9 1953	37·1 1960	13·7 1949	68·6 1952	35·6 1953	16·7 1950	70·6 1949
Msyore	32·8 1936	11·1 1953	26·4 1926	36·1 1931	12·2 1946	59·4 1917	37·8 1931	13·3 1933	47·5 1923	39·4 1917	16·1 1918	133·3 1921	37·8 1936	15·6 1904	184·4 1957	37·2 1926	15·0 1936	68.6 1915
KERALA																		
Calicut	35·6 1952	17·2 1913	104·4 1909	35·6 1952	16·1 1925	150·1 1945	35·0 1954	19·4 1896	83·3 1936	37·2 1936	21·1 1938	143·3 1899	37·2 1920	20·0 1937	268·5 1932	34·3 1962	20·6 1956	250·2 1941
Palghat	36·4 1958	15·6 1946	31·5 1948	38·9 1959	18·8 1960	29·7 1952	41·4 1959	20·4 1959	78·7 1948	41·7 1950	20·4 1959	90·4 1954	40·8 1959	20·6 1955	236·2 1957	35·6 1948	20·6 1956	108·8 1961
Fort Cochin	33·6 1962	17·8 1929	133·3 1921	34·9 1960	19·4 1932	105·4 1899	34·3 1962	21·1 1954	125·8 1960	34·4 1962	21·7 1943	160·5 1956	34·6 1959	21·1 1939	253·2 1933	32·7 1958	20·6 1935	185·4 1900
Cochin (Naval Air Station)	34·3 1962	18·5 1962	37·1 1960	34·5 1960	19·8 1962	73·7 1956	34·8 1961	21·6 1959	66·8 1960	34·7 1961	21·1 1962	177·0 1956	34·6 1959	22·2 1958	189·3 1961	32·8 1958	21·0 1962	170·5 1958
Alleppey	35·0 1959	18·3 1957	38·1 1951	35·8 1962	19·9 1962	65·2 1959	36·7 1949	21·1 1955	69·9 1947	36·0 1961	21·1 1948	274·3 1950	35·6 1959	20·6 1955	146·8 1960	34·4 1948	21·1 1956	227·3 1948
Punalur	36·6 1959	15·7 1957	44·5 1958	37·8 1959	15·8 1959	37·2 1962	39·3 1959	17·9 1957	39·9 1958	37·9 1959	20·2 1957	61·2 1959	37·1 1957	21·3 1959	120·2 1961	34·3 1962	21·2 1962	165·0 1961
Trivandrum	35·5 1959	18·9 1950	63·7 1962	35·0 1955	18·9 1946	108·2 1962	36·2 1959	20·6 1956	78·7 1954	35·3 1960	20·3 1962	129·8 1937	35·2 1957	21·2 1960	277·9 1926	34·4 1953	20·0 1956	154·7 1944
Trivandrum Aerodrome	33·9 1953	17·7 1962	60·8 1961	33·4 1959	18·3 1956	83·2 1959	35·0 1956	20·0 1961	43·2 1958	34·4 1956	20·8 1962	82·3 1956	34·5 1959	21·6 1962	100·8 1960	32·9 1959	21·1 1956	146·4 1961

July			August			September			October			November			December			Based on data from		Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				MADRAS STATE—*Contd.*
37·8 1962	23·0 1961	18·2 1961	36·2 1962	23·0 1962	44·4 1962	36·2 1961	22·3 1962	34·6 1962	35·4 1961	21·8 1961	86·0 1962	32·1 1962	19·5 1961	67·0 1962	32·0 1962	19·0 1961	24·2 1961	1961	1961	Atirampattinam
40·6 1884	19·4 1891	124·5 1893	40·0 1891	20·6 1912	112·3 1910	39·4 1923	20·0 1908	154·2 1946	38·3 1934	18·9 1911	128·8 1909	36·1 1948	17·2 1909	169·7 1921	35·0 1951	16·7 1920	165·6 1955	1881	1881	Madurai
38·4 1960	21·7 1960	53·0 1960	38·7 1959	21·9 1962	61·0 1962	37·2 1959	22·2 1962	51·6 1959	37·3 1959	21·0 1961	50·4 1959	32·6 1962	19·7 1962	76·3 1959	31·8 1960	18·3 1961	20·6 1961	1959	1959	Madurai Aerodrome.
38·2 1962	22·1 1960	24·5 1960	37·4 1962	24·1 1962	13·6 1962	33·2 1950	22·5 1962	77·0 1962	37·0 1960	22·0 1961	99·4 1961	31·9 1960	20·6 1961	63·0 1961	31·9 1960	20·1 1961	23·4 1962	1960	1960	Tondi.
35·0 1921	21·7 1957	130·8 1916	34·7 1962	22·2 1954	73·9 1947	35·0 1940	20·6 1930	108·5 1991	35·0 1940	21·1 1891	133·6 1932	33·3 1944	21·6 1957	137·7 1896	33·9 1906	18·9 1953	218·7 1955	1891	1891	Pamban.
37·9 1958	23·0 1962	21·1 1954	37·8 1957	21·2 1959	22·6 1962	37·9 1958	23·9 1955	12·9 1955	37·6 1959	21·6 1961	167·4 1957	34·4 1955	19·7 1959	134·6 1956	31·7 1955	19·4 1955	188·2 1955	1954	1954	Tuticorin
38·3 1954	22·5 1959	34·3 1949	38·9 1953	22·4 1959	57·0 1958	40·0 1952	22·8 1954	40·6 1946	38·3 1955	21·2 1961	79·4 1961	36·4 1959	21·0 1961	95·7 1960	35·6 1952	20·0 1956	20·9 1946	1950	1945	Palayankottai.
33·0 1962	21·7 1961	41·8 1961	33·8 1962	22·1 1962	21·6 1962	32·6 1962	21·6 1962	23·0 1962	31·9 1961	22·5 1962	105·4 1962	31·9 1962	21·7 1962	99·8 1961	32·3 1962	21·4 1962	26·0 1962	1961	1961	Kanniyakumari.
																				COASTAL MYSORE
31·4 1960	21·1 1953	223·6 1961	30·2 1961	21·7 1955	136·7 1955	30·6 1955	21·1 1954	128·4 1950	35·9 1960	18·3 1952	175·3 1954	36·3 1962	15·6 1952	71·6 1055	36·0 1960	14·4 1956	49·2 1962	1952	1952	Karwar.
32·2 1949	21·0 1961	270·0 1959	31·8 1957	19·4 1955	166·3 1962	32·2 1951	20·6 1950	127·5 1951	37·2 1950	18·3 1950	132·1 1944	36·7 1941	15·6 1950	65·3 1957	37·2 1949	16·1 1945	25·1 1947	1939	1939	Honavar.
30·5 1960	21·0 1961	231·2 1959	30·0 1960	20·9 1957	146·2 1962	30·5 1959	20·9 1961	95·5 1959	34·0 1960	20·9 1960	82·0 1962	34·3 1959	19·0 1957	72·2 1960	34·6 1957	16·3 1960	68·4 1959	1957	1957	Mangalore (Bajpe).
35·6 1959	20·6 1931	268·2 1900	32·2 1932	20·6 1911	232·4 1931	31·7 1955	21·1 1950	184·7 1900	34·4 1941	19·6 1961	181·6 1913	35·6 1941	17·2 1909	112·1 1958	35·6 1909	16·7 1950	153·2 1933	1911	1881	Mangalore.
																				INTERIOR MYSORE NORTH
36·1 1924	11·1 1900	245·9 1955	36·1 1924	9·1 1900	144·3 1947	36·7 1924	8·9 1918	203·2 1949	36·7 1901	8·3 1900	128·3 1903	36·1 1918	6·1 1906	138·4 1896	32·8 1923	2·8 1918	81·8 1906	1896	1896	Bidar.
38·3 1918	17·2 1920	108·5 1897	37·8 1899	18·3 1920	100·3 1910	37·2 1926	17·8 1954	147·3 1928	37·8 1899	10·0 1905	117·3 1893	35·6 1940	7·8 1945	64·8 1948	34·4 1920	5·6 1945	66·5 1906	1891	1891	Gulbarga.
36·1 1901	16·1 1902	102·1 1953	35·6 1902	16·7 1906	121·2 1954	36·7 1896	16·1 1901	143·8 1949	37·2 1896	12·2 1897	102·4 1958	35·0 1896	8·3 1904	113·0 1922	33·3 1936	6·7 1897	34·5 1942	1896	1896	Bijapur.
38·3 1915	17·8 1899	137·2 1959	37·8 1915	17·2 1908	107·7 1914	38·3 1897	17·2 1924	130·8 1949	37·2 1920	15·6 1943	158·7 1916	35·0 1920	11·7 1924	87·6 1919	36·1 1899	10·0 1945	52·1 1903	1891	1896	Raichur.
30·3 1962	17·8 1955	162·6 1958	29·9 1958	17·8 1956	110·0 1956	32·3 1962	16·3 1957	74·8 1959	34·0 1962	14·2 1962	82·5 1955	33·0 1958	9·4 1955	44·2 1957	34·6 1960	8·9 1956	19·4 1962	1955	1955	Belgaum.
31·9 1960	18·3 1956	112·0 1958	29·3 1962	15·6 1956	86·4 1956	30·5 1955	16·0 1957	59·8 1959	32·0 1960	13·9 1954	91·4 1957	30·6 1960	10·6 1955	66·9 1962	31·9 1960	7·8 1954	21·7 1962	1952	1952	Belgaum (Samra).
34·9 1960	18·9 1934	54·4 1932	34·4 1948	18·7 1957	80·0 1957	37·8 1951	17·2 1952	136·4 1960	34·7 1959	15·6 1950	171·5 1917	37·2 1947	12·2 1939	82·0 1956	34·1 1959	11·7 1948	56·4 1933	1931	1931	Gadag.
																				INTERIOR MYSORE SOUTH
38·3 1915	19·4 1920	102·9 1953	37·8 1883	19·4 1933	105·7 1950	37·8 1913	19·4 1919	127·5 1956	38·9 1886	15·0 1889	111·3 1904	37·6 1957	11·7 1910	162·1 1903	35·6 1913	10·6 1926	65·0 1962	1881	1881	Bellary.
34·4 1932	19·9 1961	114·8 1910	32·8 1922	18·4 1957	109·2 1939	35·0 1905	15·0 1910	95·5 1933	33·9 1905	15·6 1943	132·[illegible] 1930	32·8 1931	8·3 1945	87·4 1925	32·8 1930	8·2 1945	109·2 1933	1896	1896	Chitradurga.
32·4 1960	19·3 1961	111·0 1953	30·4 1958	16·1 1954	49·8 1953	33·3 1951	16·1 1952	45·7 1950	32·4 1960	11·7 1952	105·6 1960	33·3 1953	8·3 1950	55·1 1956	32·2 1958	8·9 1951	43·4 1952	1950	1950	Shimoga.
27·0 1962	18·2 1962	243·0 1962	26·3 1962	16·2 1962	195·4 1962	27·4 1962	16·2 1962	132·0 1962	30·0 1962	15·2 1962	91·0 1962	29·5 1962	10·7 1962	26·0 1962	28·8 1962	9·7 1962	91·0 1962	1962	1962	Agumbe.
28·9 1945	13·9 1955	219·2 1953	29·4 1947	16·1 1951	179·8 1949	30·6 1936	13·3 1935	83·3 1955	29·4 1959	12·8 1952	111·8 1960	29·4 1951	10·0 1934	55·9 1932	30·3 1945	8·3 1937	56·9 1937	1931	1931	Balehonnur.
31·1 1905	15·0 1918	82·5 1929	31·1 1932	15·6 1925	79·8 1897	32·2 1905	13·9 1906	104·0 1959	32·2 1905	11·7 1960	163·2 1958	31·1 1927	8·3 1904	115·8 1925	31·1 1926	6·7 1907	80·8 1906	1896	1896	Hassan.
33·3 1914	16·1 1882	105·4 1949	33·3 1889	14·4 1882	162·1 1890	33·3 1951	15·0 1883	124·7 1912	32·2 1934	13·3 1889	116·8 1935	31·1 1923	10·6 1889	114·5 1916	31·1 1926	8·9 1883	67·3 1941	1881	1881	Bangalore.
32·3 1960	16·1 1953	66·3 1952	31·1 1958	15·0 1948	79·6 1960	32·8 1951	15·6 1954	95·8 1958	32·1 1958	14·4 1950	169·2 1953	31·7 1953	11·7 1950	83·6 1950	30·1 1957	10·4 1960	20·8 1952	1948	1948	Bangalore Aerodrome.
33·3 1899	15·8 1961	71·6 1918	33·9 1899	16·7 1928	95·3 1910	33·3 1936	15·0 1906	129·3 1940	32·8 1905	13·9 1917	111·5 1902	32·2 1918	11·1 1901	105·2 1915	31·7 1923	10·6 1945	78·5 1952	1896	1896	Mysore.
																				KERALA
32·2 1931	21·1 1956	264·2 1922	32·2 1953	20·6 1950	204·5 1924	33·9 1952	21·1 1954	179·1 1955	34·4 1897	20·0 1917	204·0 1962	34·4 1929	16·1 1901	192·3 1925	34·8 1957	16·1 1895	115·1 1942	1891	1881	Calicut.
32·6 1960	20·6 1962	107·7 1949	31·7 1947	20·6 1946	109·5 1956	35·6 1955	20·6 1954	94·0 1962	35·0 1945	20·6 1954	95·4 1959	35·6 1952	17·2 1954	65·8 1948	34·5 1958	16·7 1945	89·7 1946	1943	1943	Palghat.
32·1 1961	21·1 1943	213·9 1910	32·2 1929	21·1 1946	155·7 1947	31·1 1955	21·1 1950	111·8 1936	32·2 1930	21·1 1943	236·2 1884	32·8 1953	19·4 1944	121·4 1920	34·4 1961	19·4 1945	154·7 1946	1926	1881	Fort Cochin.
32·2 1960	20·6 1956	147·2 1962	30·6 1959	21·6 1958	143·3 1960	30·9 1961	21·6 1961	90·0 1961	34·1 1957	22·2 1956	138·2 1957	32·9 1962	21·2 1962	69·9 1957	34·2 1957	18·8 1959	50·6 1959	1956	1956	Cochin (Naval Air Station.)
31·7 1953	20·6 1950	150·6 1949	31·7 1949	21·1 1948	139·2 1947	32·2 1951	21·7 1961	215·0 1962	32·8 1946	21·1 1950	163·1 1945	34·4 1949	20·6 1954	132·3 1945	35·0 1951	17·8 1944	82·5 1947	1944	1944	Alleppey.
32·9 1958	21·0 1957	88·6 1957	32·8 1962	21·2 1961	84·0 1960	34·3 1957	19·4 1957	87·4 1962	34·9 1959	18·3 1960	164·6 1960	34·5 1961	17·4 1957	129·2 1960	34·4 1962	16·6 1960	49·1 1957	1957	1957	Punalur.
31·7 1956	21·1 1959	151·6 1910	32·8 1953	20·6 1946	102·4 1932	33·3 1946	21·1 1950	125·5 1907	33·3 1940	21·1 1950	215·9 1908	34·3 1961	18·9 1944	162·8 1948	34·4 1955	18·9 1945	148·8 1919	1931	1899	Trivandrum.
32·2 1956	20·2 1959	135·2 1959	32·4 1960	21·1 1955	55·6 1958	32·8 1955	21·6 1962	116·8 1955	31·7 1957	21·7 1955	106·2 1962	33·3 1961	20·6 1954	114·8 1955	32·8 1957	18·3 1955	41·7 1955	1954	1954	Trivandrum Aerodrome.

Sub-division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
ARABIAN SEA ISLANDS																		
Amini	36·7 1950	18·9 1912	74·2 1918	35·7 1959	19·4 1923	18·0 1902	37·2 1950	20·6 1950	32·0 1923	37·7 1960	20·0 1923	121·9 1901	37·5 1959	21·7 1941	161·0 1933	35·9 1958	21·1 1930	211·1 1909
Minicoy	32·8 1948	17·8 1953	126·2 1926	32·2 1948	17·2 1946	83·0 1961	32·6 1941	19·4 1955	54·6 1936	35·6 1942	21·7 1959	121·2 1950	36·7 1932	21·7 1956	238·5 1949	33·9 1935	21·5 1962	148·6 1926
HILL STATIONS EXCLUDING KASHMIR																		
Dalhousie	21·7 1952	—5·0 1953	134·6 1950	29·4 1953	—2·8 1957	134·6 1949	30·7 1959	—0·6 1958	149·6 1959	29·8 1959	1·1 1955	112·3 1951	33·3 1952	6·7 1959	53·9 1955	35·5 1960	8·9 1952	99·5 1960
Dharmsala	21·7 1962	—0·5 1960	76·4 1959	25·0 1953	—1·6 1961	65·0 1954	28·3 1959	3·4 1960	72·4 1956	33·8 1958	7·2 1960	52·8 1957	36·7 1962	11·1 1951	74·9 1956	38·3 1958	14·5 1957	88·2 1959
Simla	18·9 1949	—10·6 1945	78·7 1888	20·6 1953	—8·3 1950	63·5 1908	23·9 1945	—5·6 1933	63·0 1901	28·3 1941	—1·4 1960	39·6 1890	30·0 1944	4·4 1924	97·8 1882	30·6 1922	7·8 1922	122·2 1906
Dharmpur	.. ..	.. ..	105·2 1961	.. ..	.. ..	111·0 1961	.. ..	.. ..	104·1 1955	.. ..	.. ..	78·7 1957	.. ..	.. ..	56·9 1957	.. ..	.. ..	91·4 1953
Lokpal	14·0 1957	—16·1 1955	77·5 1955	0 1956	—13·9 1957	75·0 1959	—0·7 1962	—11·2 1961	60·0 1962	3·4 1961	—11·1 1957	34·3 1957	10·0 1956	—7·8 1955	38·6 1957	11·7 1960	—3·3 1955	37·0 1960
Badrinath	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	22·0 1960	6·1 1960	20·0 1958
Joshimath	18·2 1961	—4·4 1960	5[illegible]·0 1961	21·1 1962	—3·9 1951	54·8 1959	24·9 1959	—2·5 1950	52·6 1962	27·8 1961	3·7 1959	16·2 1962	31·1 1960	9·3 1962	21·5 1961	32·5 1961	11·3 1962	55·8 1960
Mussoorie	21·1 1949	—5·0 1935	90·9 1943	23·3 1953	—0·6 1962	82·0 1949	26·1 1945	—2·5 1960	62·0 1944	28·9 1956	—0·6 1944	43·2 1942	34·3 1949	5·6 1947	50·0 1943	31·7 1935	4·1 1962	139·9 1936
Mukteswar (Kumaun)	19·4 1910	—6·1 1953	81·3 1945	23·9 1953	—7·8 1905	76·5 1905	25·0 1908	—3·3 1907	67·8 1914	27·8 1956	—1·7 1937	49·0 1919	29·4 1956	3·3 1920	71·4 1916	30·2 1961	6·7 1903	220·7 1921
Nainital	18·4 1958	—5·6 1953	77·5 1953	21·7 1953	—3·9 1961	72·0 1961	21·7 1958	—1·7 1960	70·0 1962	26·4 1960	3·9 1957	35·6 1963	27·8 1956	10·0 1952	208·3 1956	28·3 1953	11·1 1957	141·2 1956
Kalimpong	26·2 1961	0·6 1945	40·6 1957	26·2 1961	3·3 1945	45·0 1940	27·8 1923	4·5 1962	50·8 1962	30·6 1939	8·3 1944	69·6 1948	30·9 1960	10·0 1955	122·4 1938	31·1 1960	13·3 1954	302·0 1950
Darjeeling	18·9 1952	—3·9 1953	134·6 1957	17·2 1955	—5·0 1905	42·9 1940	23·3 1935	—0·6 1908	72·9 1951	26·7 1910	1·1 1933	135·1 1916	23·9 1916	5·6 1939	232·9 1887	26·7 1902	8·3 1938	454·1 1950
Kohima	19·6 1959	4·3 1962	1·6 1957	22·2 1954	3·8 1959	19·6 1962	29·1 1959	7·1 1957	36·1 1953	32·2 1956	9·4 1957	33·6 1955	33·9 1959	12·8 1952	74·9 1956	29·5 1959	15·0 1953	105·9 1957
Shillong	21·1 1944	—2·8 1937	52·3 1957	24·4 1952	—2·8 1950	41·1 1914	28·9 1924	—0·6 1906	189·5 1929	30·0 1954	6·7 1946	117·9 1932	30·7 1960	5·7 1941	169·7 1914	29·1 1958	11·7 1930	415·3 1934
Cherrapunji	26·7 1913	0 1913	85·3 1929	28·9 1913	0·6 1950	91·9 1907	30·6 1913	0·6 1912	306·1 1910	28·3 1938	3·9 1911	462·3 1922	30·2 1962	3·3 1917	812·0 1916	29·2 1962	11·7 1910	973·8 1956
Abu	26·3 1961	—1·1 1929	37·9 1888	28·9 1960	0 1950	40·6 1906	33·3 1892	3·9 1945	27·2 1927	36·9 1958	10·0 1926	27·4 1959	38·7 1962	11·1 1892	92·7 1917	38·3 1897	13·9 1940	343·[illegible] 1945
Aijal	25·0 1954	3·9 1945	42·4 1945	27·8 1960	3·9 1950	37·6 1959	31·6 1960	5·6 1947	102·9 1959	33·3 1938	10·6 1933	76·2 1951	33·1 1960	10·0 1961	131·8 1958	31·1 1938	9·4 1944	172·2 1962
Pachmarhi	27·8 1946	—1·1 1935	94·2 1957	31·7 1953	—0·6 1929	52·1 1928	36·1 1892	3·3 1906	55·1 1936	40·0 1942	8·9 1905	38·6 1935	40·6 1954	15·0 1933	35·3 1933	40·6 1889	15·6 1931	201·9 1916
Mahabaleshwar	28·9 1938	6·1 1945	22·1 1943	31·4 1961	3·9 1942	29·0 1938	33·9 1953	9·4 1940	34·2 1962	36·1 1934	11·1 1955	95·0 1937	35·3 1961	13·9 1955	57·9 1956	32·2 1953	12·8 1943	362·7 1961
Mercara	31·7 1954	9·4 1946	30·0 1906	31·7 1911	8·9 1936	31·7 1950	33·3 1921	10·6 1955	55·4 1928	33·9 1896	10·6 1955	87·6 1915	35·0 1902	9·4 1955	174·0 1909	30·0 1939	10·0 1955	266·4 1961
Ootacamund	24·5 1962	—1·7 1921	114·8 1909	26·7 1945	0 1953	51·6 1917	25·6 1949	3·9 1959	96·2 1958	27·2 1942	5·0 1959	84·1 1947	26·7 1941	4·4 1917	184·4 1955	25·0 1944	5·0 1958	133·1 1941
Coonoor	25·6 1942	1·7 1946	196·6 1943	26·7 1945	2·8 1939	207·5 1936	26·7 1943	5·0 1949	157·5 1951	27·8 1956	8·9 1944	179·4 1960	29·4 1931	11·0 1959	193·0 1957	27·8 1953	9·4 1936	97·3 1939
Kodaikanal	24·4 1916	2·8 1950	194·8 1943	24·4 1914	4·4 1955	158·7 1925	26·7 1926	4·4 1955	106·7 1947	26·1 1925	8·2 1958	123·7 1955	27·8 1923	7·8 1955	131·1 1955	25·0 1915	5·0 1912	60·5 1947
Nepal																		
Katmandu	25·0 1946	—2·8 1955	45·9 1962	28·3 1922	—1·1 1931	30·7 1961	33·3 1938	1·1 1948	47·2 1943	37·2 1954	4·4 1945	43·4 1949	37·5 1957	6·7 1960	55·6 1956	37·8 1958	13·2 1958	108·5 1950
Sikkim																		
Lachen	18·9 1958	—9·7 1961	66·0 1957	18·9 1958	—8·3 1961	30·5 1959	18·9 1960	—6·7 1958	43·2 1956	20·6 1962	—5·6 1958	30·5 1955	20·0 1960	0·6 1958	33·0 1956	22·2 1961	5·6 1958	45·7 1957
HYDROMETEOROLOGICAL OBSERVATORIES Damodar Catchment																		
Tilaiya	30·4 1958	3·3 1962	55·4 1957	31·8 1958	6·9 1960	27·0 1961	38·0 1958	10·1 1957	34·0 1960	41·2 1961	17·0 1959	21·8 1962	43·8 1962	20·0 1960	28·4 1961	43·7 1958	20·3 1961	69·6 1957
Hazaribagh	26·9 1961	—2·4 1962	39·1 1959	30·4 1960	4·1 1961	26·6 1961	35·9 1959	9·7 1962	6·9 1962	40·2 1961	15·0 1959	14·8 1962	42·0 1962	18·9 1962	31·2 1961	41·2 1960	18·9 1961	169·6 1961
Konar	.. ..	.. ..	10·4 1962	.. ..	.. ..	38·6 1961	.. ..	.. ..	9·6 1962	.. ..	.. ..	14·2 1962	.. ..	.. ..	43·4 1961	.. ..	.. ..	41·2 1962
Bokaro	31·8 1958	1·8 1962	49·5 1953	35·0 1952	2·2 1950	47·0 1961	41·1 1955	8·2 1957	30·5 1957	43·4 1961	14·3 1957	46·2 1951	45·1 1962	17·2 1951	45·7 1958	45·6 1958	21·1 1959	70·9 1950
Maithon	29·4 1960	5·4 1962	27·2 1961	34·7 1960	8·1 1960	64·3 1961	39·1 1960	12·2 1962	1·4 1957	44·7 1960	18·3 1962	15·0 1962	45·8 1960	20·0 1961	31·6 1962	45·5 1961	20·6 1960	87·9 1957
Ramgarh	33·0 1958	2·2 1955	25·7 1953	35·6 1952	4·8 1957	54·[illegible] 1961	41·1 1955	7·8 1957	23·2 1962	43·9 1956	13·9 1953	41·0 1959	46·1 1956	19·4 1951	76·4 1959	46·1 1955	20·6 1960	140·0 1961
Panchet Hills	32·2 1958	6·7 1955	41·7 1954	34·9 1952	8·9 1956	53·4 1961	41·1 1955	12·2 1954	24·4 1958	48·8 1961	16·4 1957	23·8 1962	46·9 1961	20·6 1956	63·2 1962	46·1 1958	22·2 1953	90·9 1957
Durgapur	31·7 1958	6·1 1962	14·7 1957	35·2 1962	8·4 1961	63·5 1959	40·0 1958	11·7 1962	22·0 1960	45·0 1961	17·8 1962	14·5 1959	45·8 1958	19·4 1962	60·5 1960	46·4 1958	16·1 1961	132·1 1957

July			August			September			October			November			December			Based on data from		Sub-Division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				ARABIAN SEA ISLANDS
33·3 1945	21·7 1910	180·3 1907	33·3 1960	22·2 1925	241·8 1909	35·9 1940	21·7 1950	217·7 1915	35·9 1958	20·6 1928	135·4 1961	35·0 1949	18·3 1910	88·9 1932	35·1 1960	18·9 1908	119·4 1925	1896	1896	Amini.
31·7 1953	21·1 1938	154·9 1929	31·7 1934	21·1 1934	200·7 1930	32·2 1937	21·7 1954	107·7 1916	33·3 1931	19·4 1945	128·3 1910	32·5 1961	17·2 1942	132·1 1907	32·2 1957	18·3 1955	187·5 1898	1896	1896	Minicoy.
																				HILL STATIONS EXCLUDING KASHMIR
32·8 1953	8·4 1959	232·6 1957	27·0 1962	11·7 1957	243·2 1959	26·2 1959	10·0 1962	274·0 1959	27·9 1961	—2·2 1959	237·0 1955	25·7 1958	0·1 1960	97·8 1957	23·9 1952	—8·0 1962	174·2 1960	1947	1947	Dalhousie.
35·3 1957	16·7 1955	262·8 1959	29·5 1957	16·2 1957	316·9 1958	29·4 1951	11·2 1962	257·2 1959	28·3 1953	8·9 1961	196·9 1955	24·7 1958	5·1 1962	38·1 1957	22·2 1953	1·7 1961	60·5 1958	1951	1951	Dharmsala.
28·9 1901	10·0 1932	167·1 1922	27·8 1951	10·6 1957	277·1 1901	25·0 1946	5·0 1940	158·0 1962	23·9 1938	0·2 1961	113·0 1184	21·1 1952	—1·1 1911	68·8 1894	20·4 1960	—6·1 1937	76·5 1923	1896	1881	Simla.
.. ..	.. ..	147·3 1952	.. ..	.. ..	165·1 1954	.. ..	.. ..	213·4 1955	.. ..	.. ..	199·4 1956	.. ..	.. ..	130·8 1951	.. ..	.. ..	31·0 1958	..	1947	Dharmpur.
12·3 1962	1·7 1956	77·4 1958	12·1 1962	2·2 1956	75·2 1962	10·9 1959	—2·2 1951	55·4 1951	8·9 1960	—7·8 1954	66·0 1956	8·9 1952	—10·0 1962	60·4 1962	2·2 1953	—16·7 1952	100·0 1961	1951	1951	Lokpal.
20·0 1958	10·0 1958	121·4 1958	21·7 1959	—7·8 1958	27·0 1959	18·3 1958	6·1 1958	22·7 1958	16·1 1959	1·1 1959	25·0 1960	13·9 1958	.. ..	.. ..	.. ..	.. ..	.. ..	1958	1958	Badrinath.
30·1 1962	15·3 1959	93·1 1962	28·0 1959	15·0 1959	50·4 1960	26·9 1961	11·8 1962	43·0 1959	25·6 1960	1·8 1961	40·4 1961	25·1 1962	1·2 1960	35·0 1962	20·0 1960	—2·4 1961	70·0 1961	1959	1959	Joshimath.
29·4 1949	12·2 1939	196·9 1942	25·6 1957	7·4 1962	302·3 1931	27·2 1946	6·1 1940	199·6 1947	25·6 1951	2·6 1961	198·1 1956	25·0 1952	—2·1 1960	30·5 1928	31·7 1953	—3·9 1954	111·0 1957	1926	1926	Mussoorie
30·6 1901	9·4 1930	159·5 1907	26·1 1928	11·1 1919	203·7 1948	25·6 1946	6·7 1940	254·5 1914	25·0 1909	1·7 1913	182·4 1910	23·1 1962	—1·1 1918	45·2 1927	21·7 1944	—5·0 1954	90·7 1957	1901	1901	Mukteswar (Kumaun)
26·1 1954	14·4 1955	223·5 1957	25·1 1957	12·8 1956	189·7 1954	23·9 1959	—1·1 1962	313·7 1957	22·6 1960	4·4 1961	300·7 1956	21·2 1962	0·6 1962	15·2 1957	21·2 1957	—3·3 1961	153·7 1957	1953	1953	Nainital
30·0 1961	14·5 1960	195·8 1939	30·9 1957	10·0 1955	141·7 1950	30·2 1961	13·4 1962	206·0 1929	31·1 1960	8·9 1944	206·3 1929	26·8 1960	3·9 1962	50·8 1948	26·7 1953	—0·6 1922	29·0 1934	1921	1926	Kalimpong
25·0 1919	3·9 1944	200·0 1959	26·7 1957	8·3 1946	237·5 1915	26·7 1900	10·0 1940	492·8 1899	23·3 1962	4·4 1913	334·5 1929	22·2 1943	—0·6 1951	219·7 1912	20·0 1947	—1·7 1905	31·2 1885	1891	1881	Darjeeling
29·5 1962	15·4 1961	74·9 1954	30·6 1957	17·1 1962	104·6 1962	27·8 1961	15·9 1957	95·3 1953	27·2 1956	11·6 1962	83·8 1954	24·5 1957	7·7 1961	68·8 1955	19·5 1958	4·3 1961	7·6 1961	1952	1952	Kohima
28·3 1932	15·0 1956	205·7 1952	29·2 1957	14·4 1932	118·1 1916	27·8 1946	1·7 1940	256·2 1960	27·2 1938	5·6 1921	296·2 1946	25·6 1943	1·1 1937	96·0 1950	22·8 1918	—1·7 1929	41·1 1926	1906	1906	Shillong
28·4 1962	11·7 1910	838·2 1910	29·2 1957	12·8 1943	682·7 1932	28·9 1906	12·8 1925	632·2 1951	29·9 1962	10·0 1947	590·5 1919	26·7 1915	6·7 1946	332·2 1917	23·2 1951	3·3 1913	189·7 1926	1906	1906	Cherrapunji
32·8 1939	15·0 1962	460·5 1943	31·1 1883	14·3 1962	484·9 1941	31·2 1960	11·1 1962	469·1 1950	31·7 1941	10·6 1947	148·1 1917	28·9 1929	6·1 1938	43·7 1896	27·8 1941	—0·6 1929	25·4 1898	1881	1881	Abu
30·6 1945	14·4 1941	148·6 1946	29·7 1962	12·8 1946	137·4 1943	29·4 1962	15·6 1941	136·1 1938	29·3 1958	8·9 1947	236·0 1959	28·3 1943	7·8 1960	86·0 1960	26·7 1947	5·6 1947	57·9 1945	1938	1938	Aijal
37·4 1960	16·1 1941	338·3 1882	30·0 1899	15·0 1939	458·7 1913	35·6 1931	12·8 1940	376·2 1961	31·7 1920	6·7 1933	164·1 1955	28·3 1957	2·2 1912	99·1 1912	27·8 1941	—1·1 1926	63·0 1885	1881	1881	Pachmarhi
24·2 1962	13·8 1957	381·2 1958	26·7 1950	13·9 1957	339·9 1956	27·8 1951	12·2 1935	327·1 1930	30·6 1957	10·7 1961	277·5 1961	23·9 1950	10·0 1955	148·6 1948	28·3 1953	8·3 1940	40·7 1962	1931	1929	Mahabaleshwar
28·9 1955	11·2 1958	364·5 1924	26·7 1951	12·2 1920	194·6 1884	27·2 1951	12·2 1935	103·4 1938	28·3 1899	10·6 1948	151·6 1887	27·8 1918	10·6 1947	86·4 1925	28·9 1903	9·4 1937	85·9 1902	1891	1881	Mercara
21·1 1949	6·7 1908	102·4 1902	21·7 1948	6·7 1957	60·5 1909	22·8 1951	4·4 1958	65·3 1951	21·8 1960	0 1943	102·4 1916	24·4 1961	—1·1 1949	209·8 1939	24·5 1960	—1·1 1947	152·9 1941	1901	1901	Ootacamund
25·0 1952	11·1 1955	46·0 1960	24·4 1944	8·9 1953	70·6 1933	24·4 1934	8·9 1935	73·1 1955	25·6 1941	6·1 1933	139·9 1938	24·4 1938	3·3 1942	163·1 1948	25·6 1941	2·2 1956	228·6 1952	1931	1931	Coonoor
22·2 1918	8·9 1910	79·3 1924	21·1 1905	8·3 1913	118·9 1935	21·7 1928	8·9 1907	104·1 1914	21·1 1914	6·1 1935	147·1 1930	21·7 1927	3·9 1901	197·1 1948	22·8 1910	2·8 1922	133·1 1903	1901	1901	Kodaikanal
																				Nepal
32·8 1937	16·1 1928	167·4 1954	33·3 1939	16·1 1954	101·6 1945	33·3 1938	13·2 1962	71·4 1936	33·3 1938	5·6 1934	74·9 1961	29·4 1931	0·1 1962	28·5 1948	28·3 1917	—2·8 1954	15·2 1937	1914	1935	Katmandu
																				Sikkim
21·7 1959	6·1 1958	82·0 1959	21·4 1961	6·1 1958	57·9 1952	22·2 1960	—0·6 1958	91·8 1960	19·7 1962	0·3 1962	58·0 1959	15·6 1959	—2·5 1961	32·2 1962	14·4 1960	—6·4 1961	30·5 1954	1958	1951	Lachen
																				HYDROMETIOROLOGICAL OBSERVATORIES Damodar Catchment
38·8 1962	20·0 1958	105·4 1959	34·7 1957	22·4 1957	156·2 1957	36·9 1960	21·3 1960	115·6 1958	33·6 1960	14·0 1957	190·6 1961	30·7 1958	9·4 1960	0 ..	28·8 1957	4·4 1961	4·8 1961	1957	1957	Tilaiya
35·6 1962	21·6 1960	86·2 1962	31·1 1961	21·6 1961	69·0 1961	31·7 1960	9·3 1962	67·6 1960	30·4 1961	12·8 1961	107·2 1959	28·9 1962	7·6 1962	0 ..	26·9 1962	0·3 1961	11·0 1961	1959	1959	Hazaribagh
.. ..	.. ..	46·2 1962	.. ..	.. ..	39·6 1962	.. ..	.. ..	68·8 1962	.. ..	.. ..	77·2 1962	.. ..	.. ..	0·5 1961	.. ..	.. ..	13·6 1962	..	..	Konar
37·9 1962	21·1 1958	216·1 1953	35·2 1957	22·2 1953	106·9 1953	35·2 1958	18·9 1950	148·3 1958	35·2 1957	11·7 1954	122·0 1959	33·9 1950	5·0 1952	23·4 1953	31·7 1950	2·6 1961	14·0 1962	1950	1950	Bokaro
37·8 1962	22·8 1961	53·6 1961	36·3 1961	21·7 1960	86·6 1961	35·5 1960	23·3 1960	131·3 1958	36·8 1961	18·3 1962	41·7 1958	32·7 1962	11·3 1961	4·8 1960	28·9 1962	6·4 1961	2·4 1962	1960	1957	Maithon
46·5 1961	22·2 1959	88·1 1957	36·4 1958	18·2 1960	169·9 1953	37·2 1960	18·3 1950	174·2 1951	37·8 1956	10·8 1957	108·0 1959	34·2 1957	4·4 1952	17·3 1953	31·6 1957	0·6 1961	56·4 1950	1950	1950	Ramgarh
38·3 1961	21·7 1957	129·0 1953	36·1 1957	21·1 1958	82·8 1953	36·4 1958	19·3 1958	195·1 1956	35·8 1953	15·0 1954	181·6 1959	33·3 1957	9·9 1957	43·2 1955	31·7 1953	5·1 1961	12·5 1954	1950	1950	Panchet Hills
37·2 1958	1·1 1961	84·9 1959	36·7 1957	21·7 1962	95·0 1961	35·6 1961	21·9 1962	89·0 1959	35·3 1957	17·2 1961	139·0 1959	33·4 1962	11·1 1962	0·8 1961	31·1 1962	6·0 1962	9·2 1959	1957	1957	Durgapur

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hydrometeorological Observatories—*Contd.* Mahanadi Catchment																		
Ginabahar	31·7 1958	2·2 1962	18·0 1960	35·0 1956	2·2 1959	20·0 1961	40·6 1955	8·9 1957	16·5 1957	43·5 1961	14·4 1957	20·3 1961	45·6 1956	19·9 1962	34·3 1956	45·0 1955	17·7 1959	210·4 1961
Hirakud	32·2 1955	8·7 1962	32·2 1960	36·1 1956	10·0 1956	39·8 1961	42·2 1955	14·9 1957	57·1 1958	45·0 1956	18·7 1957	11·6 1961	46·7 1956	22·2 1955	24·1 1956	46·7 1955	22·7 1960	151·4 1961
Bhimkund	31·3 1958	4·7 1959	13·5 1961	35·3 1960	8·5 1960	40·0 1961	40·1 1959	13·3 1962	55·0 1962	43·9 1959	15·8 1960	44·7 1958	43·8 1962	15·8 1958	45·0 1959	44·9 1958	21·3 1959	73·0 1959
Sonepur	32·2 1955	7·8 1962	15·8 1962	38·3 1955	9·4 1956	38·4 1961	42·2 1955	9·4 1960	26·8 1962	44·7 1961	11·7 1960	19·3 1959	46·1 1956	18·3 1960	49·8 1961	46·7 1955	21·7 1962	142·2 1959
Khijrawan	32·2 1958	5·3 1962	13·4 1960	34·3 1957	5·3 1958	17·0 1962	38·9 1961	11·8 1957	40·9 1957	42·8 1961	17·3 1961	34·3 1957	44·4 1960	20·2 1962	31·7 1957	47·6 1957	21·2 1960	104·0 1959
Narmada Catchment																		
Bagra Tawa	33·3 1961	2·8 1954	31·2 1951	37·8 1953	4·2 1957	15·5 1955	41·7 1953	9·1 1957	25·4 1957	45·3 1958	13·9 1955	14·6 1960	47·2 1954	20·6 1955	29·0 1956	46·1 1953	20·6 1955	88·1 1951
Punasa	40·0 1961	4·2 1962	19·3 1955	40·0 1953	5·9 1961	18·8 1952	43·1 1959	10·7 1957	18·1 1960	47·5 1958	15·0 1954	12·7 1962	48·1 1959	19·4 1954	56·6 1956	47·8 1961	20·6 1960	103·9 1956
Thikri	35·1 1961	5·6 1953	20·3 1953	39·4 1953	2·2 1950	8·4 1949	42·8 1962	10·6 1957	3·5 1960	47·4 1958	15·7 1962	9·0 1959	47·8 1951	22·8 1952	46·0 1960	45·6 1953	20·0 1952	93·5 1953
Sabarmati Catchment																		
Daroi	32·7 1961	3·0 1962	6·9 1958	37·2 1956	4·4 1961	0 ..	41·9 1959	9·6 1957	7·6 1962	46·9 1958	14·4 1956	14·0 1959	46·8 1962	20·2 1961	0 ..	45·4 1962	22·5 1959	104·7 1956
Gandak Catchment																		
Jomosom	19·9 1958	—7·6 1958	45·7 1961	20·0 1958	—8·9 1961	71·1 1961	23·7 1959	—2·7 1962	22·6 1960	25·4 1959	0·3 1962	18·5 1960	26·9 1961	2·8 1962	15·4 1959	27·3 1961	6·5 1958	12·2 1960
Khudi Bazar	.. ..	.. ..	55·4 1962	.. ..	.. ..	31·8 1961	.. ..	.. ..	48·0 1961	.. ..	.. ..	18·8 1962	.. ..	.. ..	89·0 1961	.. ..	.. ..	127·0 1962
Timure	20·1 1961	—0·6 1962	55·1 1962	21·2 1960	0·6 1962	38·1 1961	27·3 1960	0·6 1962	36·0 1962	30·2 1961	5·2 1959	15·0 1962	30·9 1958	10·6 1962	26·7 1959	31·7 1960	13·9 1959	37·3 1961
Pokhara	23·4 1961	3·9 1959	54·9 1957	25·7 1960	4·3 1957	29·5 1961	30·9 1960	7·5 1960	29·7 1960	36·2 1961	10·3 1960	122·2 1958	37·0 1960	13·0 1961	74·2 1959	35·9 1959	15·9 1958	173·7 1959
Gorkha	22·1 1957	5·3 1959	46·2 1957	27·1 1960	4·5 1959	0·6 1960	29·5 1958	8·3 1960	50·0 1960	35·1 1960	7·3 1959	49·5 1959	35·6 1957	13·9 1958	75·4 1950	35·3 1958	17·8 1957	189·7 1959
Nuwakot	23·2 1961	4·7 1962	39·0 1962	27·0 1960	5·4 1961	90·8 1960	32·4 1960	7·7 1960	24·6 1962	36·4 1961	11·4 1960	37·6 1962	38·8 1957	13·8 1958	57·6 1962	38·8 1960	14·3 1957	152·8 1962
Ghaghara Catchment (Trans Himalayan Region)																		
Dailekh	21·1 1958	2·0 1960	36·8 1959	22·7 1960	3·4 1959	15·2 1962	27·3 1958	5·4 1960	52·6 1957	34·3 1960	9·2 1959	72·4 1962	34·3 1957	12·5 1962	27·7 1958	35·1 1958	16·2 1958	43·8 1962
Ghaghara Catchment																		
Dadeldhura	18·9 1959	—2·7 1962	50·3 1958	19·8 1961	—3·4 1961	65·0 1961	24·4 1955	—0·2 1957	49·3 1958	28·8 1959	5·8 1959	18·0 1957	31·6 1958	8·9 1961	33·4 1959	39·5 1961	11·8 1962	59·9 1957
Sallyana	19·7 1957	2·5 1962	99·1 1961	23·9 1961	3·0 1962	20·5 1962	27·0 1962	5·5 1962	45·0 1962	32·5 1961	11·5 1962	32·0 1962	34·4 1961	12·0 1962	9·0 1962	33·2 1961	16·2 1961	32·0 1957
Butwal	27·4 1961	4·6 1958	54·0 1962	30·2 1960	—0·1 1957	33·5 1961	38·1 1960	10·4 1959	50·2 1962	42·2 1961	16·2 1959	40·0 1962	44·7 1960	10·1 1957	72·4 1959	44·4 1958	18·4 1958	171·0 1961
Bagmati Catchment																		
Katmandu*																		
Kosi Catchment																		
Chautara	22·2 1956	2·8 1957	46·5 1957	24·0 1960	1·6 1961	28·4 1961	30·3 1960	5·8 1957	24·1 1953	33·6 1961	8·3 1957	68·6 1962	35·1 1958	11·9 1962	53·2 1960	34·4 1958	14·4 1955	134·8 1962
Chepua	.. ..	.. ..	31·0 1962	.. ..	.. ..	31·0 1961	.. ..	.. ..	31·6 1962	.. ..	.. ..	41·0 1961	.. ..	.. ..	41·0 1962	.. ..	.. ..	46·9 1962
Walungchung Gola	13·3 1961	—7·8 1957	30·5 1956	12·2 1954	—9·6 1961	17·5 1959	16·4 1959	—8·6 1961	30·5 1960	18·6 1961	—2·9 1960	25·3 1960	18·4 1961	1·1 1955	28·5 1955	20·6 1958	1·1 1956	34·4 1961
Taplethok	28·3 1954	0·6 1957	44·7 1957	28·3 1954	3·3 1956	22·9 1957	31·0 1958	5·0 1956	38·3 1953	32·3 1961	8·3 1956	37·6 1958	32·4 1958	11·2 1962	56·4 1956	32·1 1958	15·2 1957	82·0 1959
Bhojpur	18·2 1961	1·4 1957	35·0 1957	21·1 1956	3·9 1959	26·0 1962	27·8 1960	5·9 1957	39·9 1956	29·6 1961	8·7 1957	34·0 1962	29·7 1958	11·2 1959	61·2 1955	28·9 1955	14·8 1957	88·1 1962
Taplejung	19·2 1957	0 1955	34·8 1957	20·6 1956	1·1 1953	14·8 1962	25·6 1953	3·3 1957	37·6 1953	28·9 1961	6·1 1957	71·0 1962	28·3 1957	10·6 1962	55·9 1954	27·7 1961	12·8 1953	67·3 1960
Okhaldhunga	23·9 1953	—0·6 1953	38·2 1962	22·2 1956	—0·8 1959	22·0 1962	25·0 1955	4·1 1962	25·4 1953	28·9 1954	5·8 1957	29·0 1955	29·2 1957	5·6 1953	113·8 1954	29·2 1958	8·9 1953	115·6 1960
Chainpur	22·8 1954	3·1 1957	36·8 1957	26·7 1954	5·0 1953	17·6 1962	30·4 1960	8·4 1960	43·2 1953	33·8 1960	9·3 1957	34·3 1953	34·5 1960	13·3 1955	57·1 1953	32·4 1960	15·6 1957	67·8 1962
Angbung	22·2 1957	1·7 1953	58·0 1959	24·4 1955	3·9 1955	46·4 1962	30·3 1961	5·7 1960	54·0 1959	33·6 1961	8·2 1960	43·2 1953	34·30 1960	8·9 1954	75·7 1953	33·2 1960	7·2 1950	108·0 1962
Barahakshetra	27·3 1961	7·2 1955	48·4 1959	31·6 1954	6·6 1961	39·4 1961	37·1 1960	11·7 1962	126·2 1953	42·2 1954	16·1 1960	102·6 1962	41·9 1957	18·9 1962	72·4 1958	38·9 1958	21·7 1962	155·2 1959
Tista Catchment																		
Gangtok	19·3 1957	—2·2 1956	63·3 1958	20·6 1956	—1·1 1956	24·1 1959	25·8 1960	3·7 1960	61·0 1957	26·0 1962	6·1 1960	178·1 1956	26·5 1960	10·1 1962	109·7 1958	26·8 1960	12·7 1957	125·5 1960
Gezing	21·9 1961	1·1 1957	50·8 1957	21·7 1957	2·1 1961	12·8 1962	28·1 1961	2·1 1957	42·6 1959	30·9 1961	7·3 1957	92·5 1958	30·2 1961	11·6 1962	64·3 1960	30·8 1961	13·6 1957	89·0 1958

*Data included under Nepal.

July			August			September			October			November			December			Based on data from		Sub-division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Hydrometeorological Observatories—*(Contd.)* **Mahanadhi Catchment**
37·2 1958	18·1 1958	96·4 1962	35·0 1957	21·6 1961	198·1 1956	34·5 1957	18·8 1962	131·8 1960	35·6 1957	11·4 1957	178·3 1958	32·6 1957	5·0 1961	9·1 1956	32·2 1959	3·2 1959	12·0 1962	1955	1955	Ginabhahar
38·2 1958	22·2 1955	178·8 1958	35·0 1957	22·6 1962	239·9 1960	34·9 1960	22·8 1955	281·9 1955	36·4 1957	16·8 1960	91·4 1956	32·3 1959	12·4 1960	18·4 1961	31·4 1957	7·2 1955	33·8 1962	1955	1955	Hirakud
35·9 1962	21·3 1960	150·0 1962	36·1 1961	22·6 1962	229·5 1960	34·4 1958	21·6 1962	126·0 1961	33·3 1960	15·9 1960	87·5 1962	31·2 1959	9·3 1959	11·3 1958	30·8 1960	6·1 1961	1·1 1962	1958	1958	Bhimkund
37·1 1958	16·1 1957	166·4 1958	37·1 1961	20·5 1957	200·0 1960	35·6 1956	14·7 1957	287·8 1955	35·8 1957	15·1 1958	109·0 1960	33·3 1959	7·7 1959	2·0 1958	32·2 1957	6·9 1959	10·1 1959	1955	1955	Sonepur
44·9 1957	18·9 1962	153·8 1960	32·5 1958	21·3 1962	102·2 1960	32·4 1957	20·6 1961	100·0 1961	34·4 1957	14·3 1960	114·2 1960	31·1 1962	5·2 1960	16·5 1958	31·4 1960	5·1 1960	14·0 1961	1957	1957	Khijrawan
																				Narmada Catchment
39·4 1962	17·2 1956	281·2 1959	34·4 1954	21·7 1956	141·0 1952	35·1 1960	19·3 1960	259·0 1961	36·3 1957	8·9 1952	48·3 1955	34·4 1953	5·6 1952	42·2 1956	33·4 1960	2·2 1955	21·0 1962	1951	1951	Bagra Tawa
39·7 1962	20·1 1959	183·6 1959	35·6 1956	20·6 1952	207·0 1960	37·2 1951	14·4 1953	168·4 1961	38·9 1951	10·6 1952	46·2 1961	38·8 1958	6·1 1956	15·0 1958	34·5 1959	3·9 1955	44·0 1962	1951	1951	Punasa
39·8 1962	21·1 1955	107·9 1950	36·1 1953	20·6 1950	209·8 1957	38·9 1951	18·9 1952	206·0 1959	40·6 1949	11·1 1955	83·0 1961	37·8 1951	6·7 1956	13·7 1962	34·8 1960	5·0 1952	43·3 1962	1949	1949	Thikri
																				Sabarmati Catchment
42·0 1962	22·8 1958	299·8 1959	36·1 1957	21·1 1956	105·9 1957	39·3 1960	20·8 1959	83·0 1959	39·1 1957	12·2 1961	64·0 1958	37·2 1957	10·6 1956	0 ..	32·5 1959	8·1 1959	0 ..	1956	1956	Daroi
																				Gandak Catchment
27·7 1961	11·9 1962	17·5 1959	30·5 1962	11·1 1960	24·2 1962	26·8 1959	5·6 1958	35·0 1960	24·7 1961	0·6 1960	41·4 1961	23·6 1962	−3·4 1961	2·0 1961	19·8 1960	−10·0 1962	10·3 1962	1958	1958	Jomosom
.. ..	.. ..	89·0 1961	.. ..	.. ..	99·0 1961	.. ..	.. ..	97·2 1962	.. ..	.. ..	72·0 1962	.. ..	.. ..	3·8 1961	.. ..	.. ..	18·6 1961	..	1961	Khudi Bazar
28·4 1962	15·8 1960	35·3 1960	28·4 1959	15·1 1962	33·7 1961	30·0 1959	12·4 1962	28·5 1959	27·3 1961	5·2 1961	30·2 1958	23·8 1958	2·4 1961	2·0 1958	22·3 1960	−0·6 1961	16·3 1961	1958	1958	Timure
32·2 1962	20·4 1961	167·7 1962	34·2 1962	19·4 1959	284·0 1957	31·7 1958	17·9 1962	165·9 1961	30·4 1958	11·6 1960	108·5 1960	27·7 1958	5·8 1962	5·1 1960	27·5 1960	4·0 1961	19·1 1957	1957	1957	Pokhara
30·7 1957	19·8 1958	95·5 1957	30·2 1957	19·5 1957	109·5 1957	29·5 1958	18·4 1958	61·7 1958	27·9 1957	13·9 1958	71·4 1958	25·9 1958	11·2 1958	0·8 1957	22·2 1958	7·8 1957	9·9 1957	1957	1957	Gorkha
32·7 1962	15·6 1958	81·8 1959	33·1 1957	18·5 1962	95·3 1957	31·9 1960	16·8 1957	111·8 1959	31·0 1962	12·0 1960	51·8 1961	28·1 1958	7·3 1961	0 ..	24·5 1962	3·3 1961	8·2 1961	1957	1957	Nuwakot
																				Ghaghare Catchment (Trans Himalayan Region)
30·9 1962	18·6 1962	113·5 1959	28·6 1962	17·4 1958	95·0 1962	30·7 1957	15·6 1962	47·4 1962	26·1 1959	10·1 1962	43·4 1958	23·2 1958	5·6 1962	2·3 1957	20·6 1962	4·0 1959	30·0 1957	1957	1957	Dailekh
																				Ghaghara Catchment
27·1 1962	13·7 1958	107·5 1959	26·8 1957	13·5 1957	130·4 1961	25·8 1959	11·9 1962	122·8 1962	25·8 1960	5·1 1961	162·1 1961	22·4 1958	3·7 1960	18·9 1959	21·3 1957	−0·8 1961	86·6 1957	1957	1957	Dadeldhura
29·3 1962	18·0 1962	61·0 1957	29·4 1957	17·3 1962	62·3 1962	28·5 1961	15·3 1962	48·8 1957	27·0 1961	10·5 1962	41·0 1961	24·4 1957	6·0 1961	0 ..	23·2 1962	3·0 1960	25·5 1961	1957	1957	Sallyana
36·7 1958	21·7 1957	245·4 1960	36·8 1957	22·9 1962	179·0 1962	37·8 1957	22·1 1959	130·0 1958	33·9 1959	17·2 1959	112·0 1958	30·7 1958	9·4 1962	0 ..	28·5 1960	6·2 1958	12·0 1961	1957	1957	Butwal
																				Baghmati Catchment
																				Kathmandu*
																				Kosi Catchment
30·0 1962	15·4 1958	99·1 1954	29·0 1959	16·1 1956	78·7 1954	28·8 1962	15·3 1959	66·0 1954	27·8 1962	11·1 1960	74·3 1959	26·7 1958	6·2 1958	23·4 1956	23·6 1960	3·1 1961	15·5 1955	1955	1955	Chautara
.. ..	.. ..	34·2 1962	.. ..	.. ..	83·8 1962	.. ..	.. ..	57·4 1961	.. ..	.. ..	32·0 1961	.. ..	.. ..	14·0 1961	.. ..	.. ..	46·6 1961	..	1961	Chepura
20·6 1953	4·4 1956	44·5 1954	19·9 1960	4·4 1953	55·1 1954	21·0 1962	3·9 1960	92·0 1960	19·4 1961	−2·9 1962	36·8 1959	15·6 1955	−6·0 1961	15·7 1956	15·9 1960	−8·8 1961	5·3 1956	1953	1953	Walungchung Gola
32·8 1953	14·2 1962	78·2 1953	32·4 1958	15·6 1954	96·4 1961	31·7 1956	15·6 1959	59·6 1960	32·8 1956	9·0 1958	64·8 1960	29·4 1956	4·8 1961	25·4 1956	28·3 1956	3·3 1961	12·5 1957	1953	1953	Taplethok
28·5 1962	16·1 1956	56·6 1956	29·6 1957	15·9 1957	78·0 1955	27·7 1960	15·0 1956	65·3 1961	26·8 1962	10·6 1957	113·0 1960	23·1 1958	7·2 1961	22·9 1956	19·9 1958	3·5 1961	12·0 1961	1955	1955	Bhojpur
27·4 1961	15·0 1956	117·7 1959	28·6 1957	15·4 1962	104·2 1960	28·5 1958	13·2 1960	99·8 1954	26·0 1959	8·3 1955	68·3 1956	22·2 1958	2·4 1961	20·1 1956	19·4 1957	0·6 1954	12·7 1955	1953	1953	Teplejing
27·9 1961	5·6 1953	143·5 1954	29·4 1953	15·0 1955	107·2 1954	28·3 1954	10·6 1953	95·2 1960	27·2 1959	4·7 1960	35·1 1956	22·8 1954	4·1 1961	19·8 1956	21·7 1953	1·1 1961	6·1 1957	1953	1953	Okhaldhunga
30·6 1953	16·7 1954	71·0 1957	31·7 1953	17·2 1955	95·2 1962	31·4 1953	15·0 1953	65·2 1962	28·9 1955	11·7 1955	67·2 1955	26·8 1959	8·3 1953	0·6 1961	25·6 1953	5·8 1961	8·9 1957	1953	1953	Chainpur
32·4 1962	16·1 1953	82·5 1957	32·6 1957	15·0 1954	68·0 1959	31·3 1959	16·2 1961	80·0 1960	30·4 1957	11·9 1962	63·3 1957	25·6 1954	7·1 1961	6·0 1961	24·4 1953	5·1 1961	7·1 1957	1953	1953	Angbung
37·1 1962	22·2 1962	179·8 1957	36·7 1957	22·1 1962	149·1 1958	35·0 1961	20·7 1960	208·6 1962	35·9 1960	14·9 1957	136·1 1953	30·6 1953	9·1 1961	29·5 1956	28·3 1955	7·5 1961	3·3 1957	1953	1953	Barahakshetra
																				Tista Catchment
28·2 1962	14·4 1956	100·8 1961	27·6 1957	15·1 1958	124·8 1962	27·3 1960	11·7 1956	108·8 1960	27·0 1962	8·1 1957	73·0 1959	22·3 1962	4·3 1961	21·5 1958	21·0 1962	1·0 1961	12·5 1957	1956	1956	Gangtok
29·8 1958	14·9 1958	164·3 1957	32·2 1957	16·3 1959	102·0 1962	30·7 1961	13·9 1960	123·2 1960	28·9 1962	9·2 1960	41·0 1960	25·0 1960	4·9 1961	18·2 1959	22·2 1960	2·2 1961	9·5 1961	1957	1957	Gezing

MONTHLY MEANS OF UPPER WINDS

December, 1962 (*Agrahayan* 10–*Pausa* 10, 1884 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n=represents the number of observations;

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

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

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

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

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1, 16·2, 18·0, 21.0, 24·0, 27·0 and 30·0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0830		1730	
21	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
22	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
23	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
24	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39	Minicoy	08°18′	73°00′	15	14th April, 1941	0530		1730	2330
40	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46	Siliguri/Bagbdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47	Srinagar	34°06′	74°48′	1603	1st August, 1962	0530*		1730*	
48	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

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

TABLE IV— MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0.1	015	31	0·7	0·7	307	31	0·2	0·1	350	31	1·9	1·6	055	31	3·1	2·9	093	31	1·6	0·6	019
0·15 a.g.	31	2·8	1·9	023	31	3·1	2·8	321	31	3·5	2·7	335	31	5·3	4·5	072	31	3·1	2·6	085	31	3·1	1·5	013
0·3 a.m.s.l.	31	3·1	2.5	15	31	3·0	2·5	328	31	3·9	3·2	331	31	5·0	4·0	073	31	3·3	2·4	095	31	3.0	1.4	023
0·6 ,,	31	3·1	2·4	012	31	2·5	1·7	328	31	3·4	2·8	324	31	4·1	2·5	079	31	3·4	2·2	108	31	2·9	1·4	027
0·9 ,,	31	3·2	2·3	350	31	2·5	1·3	328	31	2·9	2·1	317	31	3·6	1·4	116	31	3·1	1·4	124	31	3·1	1.1	055
1·5 ,,	31	4·6	3·6	306	31	3·9	3·0	305	31	4·0	2·8	290	31	3·4	1·8	207	31	3·7	1·3	197	31	3·1	0·2	112
2·1 ,,	31	7·7	6.8	290	31	7·4	6·4	295	31	7·2	6·4	285	31	4·3	3·2	244	31	4·3	2·7	230	31	3.9	2·0	250
3·0 ,,	31	11.8	11·3	280	31	12·4	11·5	285	31	11·1	10·3	274	31	8·4	6·8	263	30	7·1	5·8	256	31	7·0	6·1	260
3.6 ,,	29	13·6	12·8	278	31	14·5	14·0	278	7	13·4	13.1	277	31	10·7	9·1	265	29	9·7	8·5	262	31	9.8	8·5	266
4.5 ,,	21	16·7	16·2	270	30	16·8	16·3	274	2	14·3	13·7	272	31	14·6	12·8	270	28	13·1	11·6	269	31	13·1	11.9	272
5·4 ,,	12	17·1	16·6	264	26	19·1	18·7	268					31	18·2	16.0	270	28	16·8	15·1	268	31	17·2	15·9	268
6·0 ,,	9	18.2	16·9	261	25	20·9	20·0	268					31	21·0	18·8	270	27	19·7	18·2	274	31	19·5	17·6	269
7·2 ,,					13	25·7	24·8	267					31	27·8	24·8	272	20	24·1	22·5	280	31	24·3	21·9	269
9·0 ,,					3	25·5	24·5	264					26	36.5	33·2	271	4	41·0	38·8	255	27	33·8	31·6	269

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	0·8	001	31	0·3	0·1	313	31	1·6	0·5	323	31	0·5	0·2	340	31	0·5	0·1	300	31	1·3	0·5	320
0.15 a.g.	31	6·1	4·1	018	31	4·2	1·1	330	31	3·1	0·6	271	31	4·3	2·1	324	31	5·4	2·3	330	27	6·6	4·1	332
0.3 a.m.s.l.	31	5·3	3·4	021	31	4·3	1·2	332	31	3·3	0·7	287	31	4·3	2·1	324	31	5·4	2·3	320	27	2.9	1.9	330
0·6 ,,	31	3·5	2·0	044	31	4·6	2·4	322	31	4·7	1·8	298	31	4·6	2·5	316	30	5·9	3·0	315	27	6·7	4·0	329
0·9 ,,	31	3·1	1·5	068	31	5·4	3·1	300	29	5·7	3·7	300	31	4·8	3·0	303	30	5·9	4.1	285	27	5·6	2·9	329
1·5 ,,	31	3·6	1·1	150	31	6·5	4·8	287	29	6·8	4·5	287	31	5·7	4·9	300	29	6·5	4·0	295	27	4·4	2·3	296
2·1 ,,	31	4·3	2·0	212	31	7·5	6·5	287	28	7·5	7·2	294	31	6·4	5·7	290	29	7·2	4.0	290	27	4·5	2·9	300
3·0 ,,	27	6·3	5·0	254	30	9·5	8·6	281	27	9·6	8·7	280	31	8·2	7·8	283	23	8·8	5·1	285	26	5·2	2·8	271
3.6 ,,	2	7·5	7.1	275	30	11·6	10·6	276	26	11·9	10·9	272	31	11·9	7·1	278	7	9·6	9·5	275	25	6·0	4·3	269
4·5 ,,					30	15.1	14·0	272	24	15·6	15·0	271	31	15·3	13·5	272	1	6·0	6.0	265	21	9·8	7·9	271
5·4 ,,					30	18.8	18·3	272	20	20·3	19·6	271	31	19·1	17·9	273					15	13·4	11·8	266
6·0 ,,					30	21.6	20.7	270	19	22·6	21·6	271	30	21·9	20·4	272					8	14·1	13·2	271
7·2 ,,					29	25·7	24.0	265	12	28·5	27·5	269	30	27·6	25·9	271					2	18.0	18.0	269
9·0 ,,					21	37·9	36·0	269	4	33·4	33·3	257	25	37·5	35·2	271								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	AMBALA												ANANTAPUR											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.8	0·4	313	31	2.1	1.3	311	31	1.7	0.9	323	31	1.6	1.5	075	31	3.4	3.1	081	31	2.8	2.2	089
0.15 a.g.	30	4.7	1.8	338	31	5.4	2.7	309	31	7.9	5.4	332	30	4.2	3.9	086	31	5.4	5.1	075	26	3.6	3.2	088
0.3 a.m.s.l.	30	2.4	0.8	313	31	3.0	1.9	299	31	3.3	2.1	326												
0.6 ,,	30	5.2	2.2	326	31	5.9	3.1	317	31	7.4	4.7	336	30	5.3	4.9	094	31	4.7	4.3	076	26	7.7	7.3	088
0.9 ,,	30	5.6	2.3	318	31	5.2	2.8	322	31	5.7	2.5	338	30	6.5	6.1	099	31	4.6	4.1	081	26	6.8	6.5	087
1.5 ,,	30	4.1	1.0	287	31	4.1	1.3	321	31	4.4	1.0	297	28	5.5	4.5	089	30	4.4	3.6	092	26	4.4	3.4	083
2.1 ,,	30	4.3	1.4	269	31	4.2	1.6	310	31	3·9	1.3	278	26	5.0	2.7	079	29	4.7	2.4	098	26	4.6	1.6	095
3·0 ,,	30	5.2	2.9	248	30	4.3	1.8	282	30	4.7	2.2	249	24	5.1	1.1	129	25	5.8	0.9	087	26	5.4	0.9	051
3.6 ,,	28	5.8	3.2	254	30	5.9	3.7	272	13	6.6	4·7	268	22	5·5	0.7	067	24	5.7	0.2	143	23	5.5	1.0	017
4.5 ,,	26	8.2	6.1	263	26	7.8	6.2	268	7	11·7	9.3	285	21	5.0	1.1	300	23	5·7	0·8	289	18	4.4	1.6	308
5.4 ,,	23	11.6	9.8	279	23	12.7	10·5	277	3	13.0	11.3	285	20	7.0	3.2	289	21	6.3	2·3	286	13	5·6	2·3	286
6.0 ,,	18	16.2	14·2	261	19	16.0	13.6	279					18	7·6	4·7	278	18	7·0	2·4	285	9	7.2	4.6	269
7.2 ,,	8	27.7	25.8	277	4	17.6	17.5	277					16	10·0	7·1	284	16	8.1	5.2	270	1	4.0	4.0	260
9.0 ,,													11	11·6	11·2	265	13	11.3	9.4	263				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.5	0.5	287	31	1.3	1.1	320	31	0.4	0.3	329	31	0.5	0.4	097	31	0.8	0.8	104	31	0·5	0.3	074
0.15 a.g.	31	5.4	4.2	329	30	4.2	3.6	323	31	5.8	4.2	340	31	5.2	5.0	103	31	2.9	1.5	112	31	5.2	4.5	087
0.3 a.m.s.l.	31	5.8	4.5	336	30	4·4	3.8	322	31	5.9	4.5	341												
0.6 ,,	31	7.0	5.7	332	30	4.9	4.2	321	31	6.0	4.8	327												
0.9 ,,	31	7.1	6.1	319	30	5.2	4.5	319	31	5.9	5.3	307	31	6.2	5.8	115	31	2.8	1.6	103	31	6.2	5.4	096
1.5 ,,	29	7.6	7.2	310	30	6.8	6.4	317	31	6.6	6.1	307	29	4.1	2.7	123	30	3.2	0.9	122	29	5.4	3.6	117
2.1 ,,	28	9·1	8·7	308	30	8·9	8.5	304	31	8.5	7.9	297	27	3.9	1.7	226	29	3.8	0.5	199	28	4.5	2.0	174
3.0 ,,	24	11.5	10.7	281	29	12.7	12.0	287	27	10.4	9.6	286	25	5.0	2.8	260	24	5.6	3.6	249	24	4.7	3.3	238
3.6 ,,	18	13.2	12.2	272	26	14.7	14.1	283	11	11.7	11.0	283	3	5.2	2.9	258	22	7.1	5.8	263	16	6.4	5.1	253
4.5 ,,	11	15.0	14.0	276	19	16.9	16.3	275	5	11.2	10.8	262					21	9.7	8.8	264				
5·4 ,,	5	17.5	17.3	277	10	17.8	17·0	273									17	13.2	12.0	267				
6.0 ,,	1	18.0	18.0	290	7	20·4	19·7	273									16	15.6	13.4	268				
7.2 ,,					6	25·9	25·5	270									1	20.0	20.0	320				
9.0 ,,					1	22.0	22.0	260																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0·1	302	31	0·7	0·3	265	31	0·5	0·4	290	31	2·9	2·7	082	31	2·9	2·4	089	31	2·7	2·3	074
0·15 a.g.	31	5·4	4·2	313	31	3·3	1·9	286	31	3·8	2·8	284	25	7·2	6·5	083	30	4·4	3·9	083	30	4·4	3·8	084
0·3 a.m.s.l.	31	5.6	4.3	314	31	3·4	1·6	291	31	3·9	2·9	282												
0·6 ,,	31	6.4	4.7	307	31	5·1	3·0	306	31	4·9	3.9	290												
0·9 ,,	31	6·5	4·9	306	31	5·9	3.7	305	31	5.7	4.6	295												
1·5 ,,	30	7·2	6·5	300	30	6·9	5·9	299	31	7·3	6·0	303	25	6·0	4·2	086	30	4·6	3·4	084	30	4·5	3·8	084
2·1 ,,	30	8·1	7·6	296	30	8·3	7·2	289	30	8·5	7·5	302	25	6·0	3·1	090	28	4·7	2·7	078	30	7·8	3·1	081
3·0 ,,	30	9·2	8·0	291	29	8·7	7·2	288	30	9·7	8·2	295	23	5·7	2·2	107	25	5·1	2·5	084	27	12·8	12·1	067
3·6 ,,	28	10·0	8·4	285	29	10·3	8·2	286	30	10·7	9·5	291	22	5·0	1·6	106	22	6·1	2·1	087	24	5·4	1·8	063
4·5 ,,	22	12·2	11·1	281	29	13·6	11·8	281	28	14·9	13·9	286	22	5·0	1·3	097	16	4·9	1·9	025	24	4·4	0·9	043
5·4 ,,	15	17·8	17·0	275	26	18·1	17·7	278	27	19·2	18·6	281	20	5·1	1·0	039	15	5·2	1·0	008	25	5·2	1·5	291
6·0 ,,	8	19·4	18·6	278	25	22·0	21·2	277	24	24·3	23·6	279	20	5·3	0·3	351	16	5·5	0·8	021	23	5·4	1·6	315
7·2 ,,	4	25·5	24·8	258	22	33·7	29·0	273	15	30·3	29·8	276	19	6·9	3·0	304	15	7·5	1·0	040	22	6·6	2·6	297
9.0 ,,	1	20.0	20.0	260	12	38·8	35.2	272	10	36·5	34·7	275	14	10·2	7·8	247	13	7·0	4·7	260	16	8·6	5·5	243

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·3	2·9	080	31	1·4	0 9	286	31	1·2	1·0	291	31	0·9	0·7	093	31	1·6	1·1	085	31	1·1	0·8	105
0·15 a.g.	29	9·1	7·9	088	31	6·0	4·4	318	30	4·1	3·3	295	27	5·2	4·2	100	31	3·8	2·8	096	30	6·5	5·0	095
0·3 a.m.s.l.					31	5·6	4·0	319	30	3·9	3·1	295												
0·6 ,,					31	6·4	4·9	308	31	5·1	4·2	296	27	4·0	3·2	089	31	3·8	2·7	084	30	4·7	3·6	090
0·9 ,,					31	6·0	4·9	305	31	5.2	4.9	298	27	5·5	4·5	105	31	4·3	3·1	087	30	6·1	4·8	096
1·5 ,,	29	6·4	5·3	098	31	5·8	5·0	302	31	6·0	5·1	302	27	5·2	2·7	083	29	4·5	2·7	085	30	5·5	3·6	099
2·1 ,,	29	4 6	2·2	101	31	6·2	4·9	289	31	6·6	5·1	292	25	4·7	1·7	059	27	4·0	1·5	071	30	5·2	1·4	126
3·0 ,,	26	5·1	1·2	089	30	7·8	5·9	285	29	8·2	5·9	284	24	4·6	0·5	272	26	4·7	1·4	238	25	4·3	0·5	221
3·6 ,,	25	5·4	1·4	091	23	8·2	6·8	292	27	9·6	7·5	288	24	5·5	2·7	273	25	5·1	2·3	255	20	4·7	2·2	276
4·5 ,,	21	4·1	0·5	064	19	11·1	10·5	280	27	12·6	11·4	279	23	6·8	4·5	282	24	7·2	4·5	265	8	4·7	2·1	274
5·4 ,,	16	4·6	0·5	309	13	13·3	12·4	277	26	16·7	15·8	274	21	9·5	7·6	269	22	9·6	7·2	265	5	7·8	5·4	243
6·0 ,,	8	4·1	0·5	075	10	16·0	15·5	270	23	19·6	18·8	272	19	11·8	8·8	269	22	10·8	8·6	264	4	11·4	11·1	248
7.2 ,,	1	4 5	4·5	180	2	9·3	8·9	256	17	25·9	24·7	271	18	13·7	11·9	273	19	14·5	12·3	272				
9·0 ,,					1	48·0	48·0	255	5	32·7	31·6	269	15	20·0	18·0	277	16	21·8	19·2	271				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.3	1.0	243	31	1·8	1.6	275	31	2.0	1.3	090	31	2.0	1.0	051	31	2.3	1.4	096	31	1.9	1.4	356
0.15 a.g. .	30	4.4	3·3	284	31	4·2	3·9	288	30	5.9	3.9	118	29	3.2	1.0	061	30	6.2	3.7	100	31	3.8	2.8	012
0.3 a.m.s. l. .	30	5·0	4·1	298	31	4·6	4·3	287													31	3.8	2·3	048
0.6 ,, .	30	4.5	4.0	317	31	5.0	4·6	290	30	5.2	3.5	107	29	2.9	0.8	056	30	6.1	3.4	103	31	4.2	2.8	044
0.9 ,, .	30	4.9	4·0	312	31	5 4	5.0	290	28	4.8	2.8	145	29	3.0	1.3	036	30	5.0	3.1	098	31	4.8	3.3	036
1.5 ,, .	30	6·9	6·4	304	31	6.9	6·3	297	28	3·7	0.3	175	29	2.7	0.6	347	29	3.8	9.7	090	31	4.5	2.9	012
2.1 ,, .	29	8.7	8.1	301	30	9.5	9.1	303	28	4.4	3.0	276	29	3.7	2.4	281	29	4.3	2.1	267	31	3.9	2.3	322
3.0 ,, .	24	11.2	10·6	290	29	12.9	12.6	293	26	7.4	6.4	280	27	8.2	7.1	272	28	7.6	6.8	268	31	6.6	5.0	287
3.6 ,, .	19	13·4	12.8	279	27	14.7	14.3	285	20	8·7	7·6	269	24	11.1	9.7	273	3	11.2	10.9	256	28	7.3	6.4	275
4.5 ,, .	12	14·7	13 8	271	16	18.3	17.9	277	14	12·7	11·7	266	20	15·1	14·2	269					23	10.2	9.1	272
5.4 ,, .	3	14·3	14·3	269	11	19.8	19.3	270	11	15·6	14·5	265	15	18.1	17.4	269					18	13.2	12·0	268
6.0 ,, .					7	23·3	22.9	271	8	19·0	17·5	264	13	20.1	18.9	265					9	13·9	12·9	262
7.2 ,, .					1	39.5	39.5	275	2	20·7	20·0	253	6	26.5	24.6	268					1	14·5	14.5	270
9.0 ,, .																								

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.9	1.3	051	31	1.4	0.7	096	31	0.8	0.6	337	31	2.9	2.2	015	31	1.7	1.5	345	31	0.5	0.5	180
0.15 a.g. .	31	3.0	1.9	0'4	31	4.1	3.1	110	31	5.5	4.4	011	31	4.2	3.2	009	31	6.2	4.9	354	26	5.8	3.5	101
0.3 a.m . l.	31	3·1	1·7	040	31	3.8	2.1	097	31	6.2	5.4	027	31	4.5	3.1	013	31	6.4	5.4	358	26	4.8	3.5	107
0.6 ,, .	31	3.2	2 1	028	31	3.3	1.3	050	31	6.3	5·0	032	31	4.3	3.2	015	31	6.1	5.4	017	26	3.2	2.0	067
0 9 ,, .	31	3.3	2.5	018	31	4.0	2.2	007	31	4.6	3·0	020	31	3.7	2.6	016	31	5.1	4.3	030	26	2.7	0.8	082
1.5 ,, .	31	4 1	3.4	353	31	4.0	2.5	002	31	3.9	1.5	260	31	3.6	0.7	325	31	4.0	0.9	233	26	2.7	1.2	262
2.1 ,, .	30	5.5	4.5	321	30	3.9	2.4	318	30	4.8	3.3	246	31	4.8	1.9	271	31	4.6	1.7	228	25	4.9	3.1	270
3.0 ,, .	30	7.6	6.3	291	30	6 5	5.1	291	30	8·6	6.4	267	30	7.6	5.7	270	29	6.3	4.8	269	24	7.2	5.0	263
3.6 ,, .	29	8.3	7.1	275	10	7.8	6 9	269	9	10.9	8.7	269	28	9.6	8.0	273	8	8.1	7.3	290	24	9.3	7.9	266
4.5 ,, .	28	10 6	9.5	271					2	11·3	11·1	290	28	12.8	11.1	270	2	11.7	11.7	288	16	13·4	10·9	268
5 4 ,, .	28	13·8	12.8	266					2	16·0	15·9	289	28	15.9	14.2	267	2	14·0	13.6	286	4	17·2	14.7	266
6.0 ,, .	27	15·4	14·2	265									28	18.6	16.5	270	1	14.0	14.0	305	1	14.0	14·0	275
7·2 ,, .	13	17·8	16·5	275									8	27.7	25.0	256								
9·0 ,, .	6	17·3	15·9	255									5	31.0	25.9	250								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	BIKANER								BOMBAY/SANTA CRUZ															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·4	351	31	0·7	0·3	015	31	2·0	1·8	105	31	1·9	1·6	098	31	3·3	2·6	304	31	1·3	0·7	073
0·15 a. g.	31	3·2	0·8	013	31	6·7	3·9	085	31	4·8	4·1	060	31	3·1	2·6	093	31	5·2	4·2	311	31	5·0	3·5	003
0·3 a.m.s.l.	31	2·8	1·7	020	31	5·4	3·8	047	31	4·5	3·6	063	31	4·0	3·4	103	31	4·3	3·0	317	31	5·2	3·8	357
0·6 ,,	31	3·5	1·9	032	31	6·2	2·1	039	31	4·2	2·6	080	31	4·2	3·3	118	31	3·1	0·5	315	31	4·3	2·4	004
0·9 ,,	30	3·4	1·6	042	31	4·8	2·3	097	31	3·7	2·2	102	30	4·1	3·3	126	31	2·8	0·9	110	30	3·5	1·5	054
1·5 ,,	30	3·6	0·5	255	31	4·4	1·8	216	31	3·7	2·7	142	29	3·5	2·5	168	31	3·5	2·2	109	30	4·4	3·7	117
2·1 ,,	30	5·4	2·6	258	31	5·6	3·5	242	31	4·7	3·5	189	28	3·8	1·9	185	31	4·1	2·0	150	28	5·0	3·9	139
3·0 ,,	29	7·4	5·5	262	30	7·2	5·1	268	31	5·3	3·3	249	28	5·3	1·7	232	31	4·5	1·9	239	26	5·0	2.9	219
3·6 ,,	28	9·7	8·1	274	6	7·7	6·8	296	31	7·0	4·9	266	28	6·4	3·3	256	31	6·2	3·8	256	18	6·1	4·5	261
4·5 ,,	26	13·7	12·3	273					31	9·7	7·3	271	28	8·4	6·1	262	31	8·6	7·0	264	7	8·6	7·1	282
5·4 ,,	22	17·1	15·5	275					31	12·9	10·6	263	28	11·5	9·4	270	31	11·2	9·7	263	4	10·3	10·3	289
6·0 ,,	18	19·0	17·2	272					31	14·8	12·6	267	27	13·8	11·3	267	31	12·5	10·4	266	4	11·6	11·3	284
7·2 ,,	2	18·0	17·0	280					31	18·6	16·2	267	24	17·9	15·9	266	31	17·4	15·2	270	1	18.0	18·0	305
9·0 ,,									30	23·0	21·4	265	10	23·5	20·0	267	28	23.1	21.6	263				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·4	360	31	1·8	1·5	345	31	0·1	0·1	360	31	0·6	0·3	353	31	0·7	0·6	064	31	2·4	2.1	259
0·15 a.g.	31	4·9	4·4	005	31	3·5	3·1	348	31	3·9	3·5	329	31	4·3	3·0	353	31	3·4	2·8	095	29	3·9	3·8	265
0·3 a.m.s.l.	31	5·0	4·6	360	31	3·6	3·2	346	31	3·9	3·5	330	31	4·3	3·4	351	31	2·9	2·2	089	29	3·7	3·3	275
0·6 ,,	31	5·3	4·8	353	31	4·4	4·1	340	31	4·6	3·9	333	31	4·5	4.0	342	31	2·6	1·8	086	29	2·6	1·4	318
0·9 ,,	31	5·7	5·2	341	31	5·6	5·2	340	31	4·8	4·5	327	31	5·1	4·7	333	31	2·7	1·9	085	29	2·9	1·6	030
1·5 ,,	31	6·3	5·8	319	31	7·0	6·5	325	31	6·4	5·8	325	31	6·3	6·0	324	31	3·1	1·8	066	29	4·6	3·4	272
2·1 ,,	31	6·8	5·8	301	31	7·6	6·8	306	31	7·3	6·4	304	31	7·1	6.2	307	30	4·3	1·7	081	28	4·2	2·5	062
3·0 ,,	31	10·0	9·0	280	30	10·6	9·9	287	31	9·6	8·9	283	23	9·6	8·9	286	29	3·6	1·4	138	28	3·7	1·6	047
3·6 ,,	31	11·7	10·6	273	28	12·7	11·9	278	30	11·5	11·0	279	8	12·0	11·6	266	25	3·7	1·7	101	28	4·1	1·2	068
4·5 ,,	31	13·9	13·3	272	24	15·8	14·8	272	30	14·4	13·8	273	2	13·3	12·6	264	14	3·9	1·3	111	25	4.9	2·5	047
5·4 ,,	31	17·1	16·2	267	22	19·1	18·0	272	30	17·3	16·5	266									12	7·3	4·9	083
6·0 ,,	31	19·0	18·2	265	18	20·6	19·8	267	30	19·4	18·7	264									7	6·3	3·7	057
7·2 ,,	31	24·5	23·2	265	9	26·3	25·2	260	30	24·0	23·2	261									1	6·5	6·5	045
9·0 ,,	30	30·3	29·0	262	2	31·7	31.7	255	30	28·9	28·4	260												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	COCHIN/ WILLINGDON†				DARJEELING								DEHRADUN								DIBRUGARH/ MOHANBARI			
Time in I. S. T.	2330				0830				1730				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.6	0.2	090	31	0·1	0·1	225	31	0·5	0·5	225	30	0·3	0·2	048	31	0·9	0.5	267	31	0.6	0·5	044
0·15 a.g.	25	2.3	0.8	085	23	1·3	0.6	133	16	2·7	2·2	225	29	1·5	1·1	060	30	2.8	2·1	275	29	3·4	2·9	038
0·3 a.m.s.l.	25	2.2	0.6	063																	29	3·4	2.9	042
0·6 ,,	25	2.4	0.7	036																	29	2.6	2.2	036
0·9 ,,	25	2.7	1.5	059									29	1·4	0.9	086	30	2.7	1.7	278	29	2.6	2.6	038
1·5 ,,	25	3.1	2.0	087									29	1·9	0·3	191	30	1.7	0.7	302	29	2·5	1·6	013
2·1 ,,	22	3.5	2.0	081									29	2·5	0·7	290	29	2.4	0.6	290	28	2.4	1·0	097
3·0 ,,	16	4·1	2·1	077	23	4.7	3.1	271	16	4.4	3·8	278	28	4.0	1.5	259	24	4·8	1·2	272	22	3·7	1.9	259
3·6 ,,	4	5.9	3·1	082	18	11·4	10.9	278	15	8·3	7·9	284	27	4.7	3·0	280	22	4·7	2·2	282	19	5·1	3·3	232
4·5 ,,					15	16·4	16.2	275	12	15.5	15.3	277	25	8·5	7·1	274	21	7.6	5·2	279	8	11·0	7·5	254
5·4 ,,					10	16.7	16.1	261	8	20.1	18.4	274	20	14.0	13.0	272	20	11.9	10.3	271	5	13·2	10.9	282
6·0 ,,					9	20·0	18.8	267	7	25.6	24.9	269	9	16.4	13.7	285	19	16·5	14·9	270	3	23·8	23.5	283
7·2 ,,					5	29.0	27.4	271	2	19.5	19.5	253	2	22.0	21.6	261	14	23.1	21.0	267				
9·0 ,,									1	18·0	18·0	255					2	23.5	23.5	283				

Station	DIBRUGARH/MOHANBARI												GADAG											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0·1	045	31	0·1	0.1	060	31	0·3	0·3	034	31	3·1	2·7	098	31	2·7	2.3	092	31	3.9	3·2	019
0·15 a.g.	31	1·9	1·6	041	31	1·8	1·4	035	30	2·3	2·1	029	30	7·7	7·1	110	29	4·3	3·5	089	29	8·1	7·2	093
0·3 a.m.s.l.	31	1.9	1.6	046	31	1.7	1.4	037	30	2.1	1.9	030												
0·6 ,,	31	2.0	1.7	058	31	1.8	1.4	047	30	1.9	1.5	053												
0·9 ,,	31	2·0	1·8	057	31	2.0	1·6	048	30	1.9	1.5	062	29	8·4	7·6	107	29	4·6	3.7	088	29	8.7	7·5	095
1·5 ,,	30	2·1	1·1	051	31	2.0	0.6	146	30	2.0	0.5	097	27	5·6	3·8	106	29	4·4	3·1	092	29	6.9	5.2	102
2·1 ,,	29	2.9	1·1	145	31	3.2	2.4	187	29	2.1	1.0	175	26	4·5	2·3	115	28	4.7	2.3	112	29	4.8	1.8	122
3·0 ,,	27	4.9	1·7	219	30	4·7	3·5	193	26	3·4	2.0	217	26	5·2	0·6	130	26	5.6	0·5	210	28	4.8	0·8	114
3·6 ,,	25	7·2	4.1	254	29	5·2	2·8	226	13	4·4	2·6	230	24	5.0	0·5	037	24	6.0	0·5	231	24	4.8	0.3	027
4.5 ,,	24	13.7	11·6	267	25	12.3	10.3	257					21	5·0	1·4	319	18	5.5	1·6	261	18	5·7	1.2	313
5·4 ,,	22	19.0	17·4	270	25	19.0	18.0	259					19	6·8	3·2	270	18	6·4	2·2	269	9	7.1	2.0	302
6·0 ,,	19	18.8	17·5	270	24	21.6	20·6	263					17	7·8	4·2	273	19	7.0	4·1	273	5	7.4	6.3	246
7·2 ,,	8	22.8	20.5	277	11	24.4	23.1	272					14	10·5	7.0	286	16	11·7	7·3	283	2	7.0	5.7	204
9·0 ,,	1	43.0	43·0	250	2	37.3	37.0	272					10	13.5	12.0	277	13	12.5	11.0	276				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	CALM			31	1.1	1.0	032	31	0.2	0.2	036	31	0.5	0.2	126	31	0.8	0.5	202	31	2.1	1.6	314
0·15 a. g. .	31	1.7	0.7	084	31	2.3	2.0	029	31	3.2	2.5	033	31	1.9	0.5	110	28	4.1	2.5	262	31	4.7	3·5	308
0·3 a.m.s.l. .	31	1·9	1·0	077	31	2·3	1·9	054	31	3·2	2.5	035	31	2.1	0.9	098	28	4.0	2.4	281	31	4.7	3.5	308
0·6 ,, .	31	2·7	1·9	076	31	2·8	2·5	081	31	2·5	1·4	058	31	2.8	1.6	080	28	5.3	4.3	310	31	4·6	3.7	295
0·9 ,, .	31	3.0	2.0	066	31	3.4	3.1	095	31	2.1	0.8	119	31	2.6	0.4	053	28	6.2	5.9	305	31	5·2	4.3	289
1·5 ,, .	31	3.5	2.1	080	31	3.5	2.0	112	31	2.4	1.1	210	31	2.8	0.2	331	27	7.8	7.5	300	31	7.2	6.3	300
2·1 ,, .	31	3.6	1.1	104	29	4.8	0.7	170	31	3.8	2.5	221	28	4.1	0.5	224	27	9.0	8.7	303	30	8.5	8.2	297
3·0 ,, .	31	7.9	7.1	275	28	8.7	7.0	275	31	7.4	5.6	271	25	7.5	6.0	273	24	11.1	10.7	291	26	11·8	11.1	290
3·6 ,, .	31	13.4	12.9	275	29	14.5	14.2	272	30	12.9	12.4	279	11	12.1	11.1	265	16	12.1	11.3	280	18	13.5	12.9	278
4·5 ,, .	31	18.9	18.4	270	27	19.7	19.1	267	30	18.2	17.1	270	6	17.1	17.1	271	7	12.9	12.2	276	10	15.3	14.9	279
5·4 ,, .	31	21.9	21.3	271	25	22.1	21.6	266	30	21.1	20.6	270	2	17·5	17.5	263	2	13.3	12.9	273	5	18.6	18.0	274
6·0 ,, .	31	24.7	24.1	272	24	25·0	24.6	265	30	23.7	23.2	270	1	21.5	21.5	255					4	24.4	24.0	263
7·2 ,, .	31	31.3	30.7	271	14	32·4	31·8	262	30	32.0	29.9	269									1	27.0	27.0	255
9·0 ,, .	17	35.6	35.0	264	7	39·6	38·0	257	16	38.8	37.7	266									1	31.5	31.5	260

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.9	0·2	246	31	3.8	3.7	316	31	4.7	4.2	085	31	2.3	1.9	318	31	0.8	0.5	254	31	0·9	0.7	265
0·15 a.g. . .	30	5.1	3.0	313	31	5.3	5.0	348	31	4.9	4.7	081	31	3.0	1.9	064	30	4.4	3.1	295	31	3.5	2.9	276
0·3 a.m.s.l. .	30	5.1	3.2	313	31	3.8	3.0	038	31	4·9	4.5	072	31	3.3	2.5	074	30	5.4	4.3	299	31	3.9	3.1	272
0·6 ,, .	30	6.0	4.9	302	31	4.1	3.2	049	31	4.1	3.4	040	31	3.7	3.1	064	30	5.3	4.2	296	31	4.5	3.7	275
0·9 ,, .	30	6.0	5.5	291	31	4.9	3.9	049	31	4.5	3.5	009	31	4.0	3.1	039	29	5.9	4.8	300	31	5.4	4·6	284
1·5 ,, .	30	7.4	7.0	292	31	4.3	2.6	037	31	5.2	4.0	347	30	4.6	3.6	017	29	7.2	6.3	296	29	7.9	7.1	299
2·1 ,, .	25	7·9	7·6	296	30	3.5	1.6	326	30	5.1	3.3	325	28	3.9	2.3	351	28	9.0	8.1	291	29	9.7	8.5	295
3·0 ,, .	18	9.3	8.9	287	29	5.6	3.6	292	30	6.2	4·5	290	27	5.8	3.7	285	27	11.3	10.3	284	29	10.7	10.1	290
3·6 ,, .	1	13.5	13·5	280	27	6.2	5.0	269	30	7·3	5·4	278	6	9.4	6.7	284	19	10.8	10.1	282	29	12.2	11.9	785
4·5 ,, .					26	9.0	7.7	265	30	9·2	8·4	267	1	12.0	12.0	230	12	13.3	12.3	282	27	15.9	15.5	285
5·4 ,, .					24	12.0	10.8	260	29	12·2	11·0	264	1	14.0	14.0	235	6	15·7	15·7	261	23	20.0	19.5	282
6·0 ,, .					20	13.9	12.1	260	27	13·9	12·7	261	1	14.0	14.0	230	4	16·3	16·2	265	21	24·4	23·7	280
7·2 ,, .					5	16.7	13.0	280	20	17·9	16·4	266					4	18·0	17·2	264	12	30.8	29·9	276
9.0 ,, .									3	22·0	22·0	242									3	27·5	21·7	267

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.4	0.3	337	31	1.3	0.5	015	31	1.1	0.7	008	31	0.5	0·1	355	31	0.4	0.3	061	31	0.1	0.1	225
0·15 a.g.	31	4.3	1.8	313	31	2.5	0.6	041	30	3·4	2.2	012	31	4.6	3.6	043	21	1.6	1.5	056	31	1.0	0.5	183
0.3 a.m.s.l.	31	3.4	1.1	070	31	2.3	0.7	038	30	3.2	2.2	014	31	4.0	2.3	041								
0.6 ,,	31	4.4	1.1	331	31	3.5	0.5	104	30	3.4	1.7	007	31	4.4	1.2	041								
0.9 ,,	31	4.3	1.3	296	31	4.5	0.9	275	30	3.3	1.6	311	31	4.5	1.0	290	21	1.6	1.4	061	31	1.0	0.5	175
1.5 ,,	31	5.4	3.4	288	31	5.3	3.0	288	30	4.8	3.4	288	30	5.1	3.7	272	20	2.8	0.7	114	31	2.4	1.2	161
2.1 ,,	29	6.2	2.1	315	31	6.3	3.8	279	30	6.5	5.0	280	30	6.3	4.7	273	16	4.9	3.2	247	31	5.0	3.5	245
3.0 ,,	29	8.1	6.8	275	30	8.1	6.4	272	29	9.0	7.5	276	29	8.7	7.5	278	8	11.4	11.0	277	18	10.4	9.5	271
3.6 ,,	28	10.0	9.2	273	28	10.4	8.8	271	28	11.6	10.4	273	18	10.4	9.6	274	4	15.4	15.3	276	6	13.1	12.7	270
4.5 ,,	28	14.2	13.5	271	28	14.6	13.9	269	28	15.5	14.5	274												
5.4 ,,	28	18.2	17.3	274	28	18.7	17.8	271	26	19.2	18.4	273												
6.0 ,,	27	21.8	20.5	275	28	21.3	20.1	269	26	22.0	21.1	273												
7.2 ,,	20	27.6	26.0	272	27	27.5	26.2	269	24	27.4	26.4	272												
9.0 ,,	3	24.8	24.0	272	11	35.0	33.1	267	7	40.4	39.2	271												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.4	0.9	235	31	1.5	1.3	053	31	0·5	0.1	112	31	0.6	0.3	035	31	0.4	0.2	087	31	0.0	0.0	090
0.15 a.g.	31	1.9	1.2	239	31	1.5	0.5	020	29	3.6	1.6	127	29	2.5	1.5	030	30	4.9	2.3	093	27	2.8	1.6	065
0.3 a. m.s.l.																								
0·6 ,,									29	3.6	1.5	116	29	2.6	1.5	026	30	5.1	2.5	087	27	1.1	0.5	071
0·9 ,,	31	1.9	1.3	242	31	1.6	1.1	033	29	3.1	0.6	113	29	2.7	1.5	006	29	4.4	2.1	073	26	4.0	2.5	074
1·5 ,,	31	2.2	1.3	227	31	2.3	1.3	231	29	3.9	1.8	333	28	3.5	2.3	332	28	4.1	1.6	354	24	3.6	1.6	042
2·1 ,,	31	4.5	3.7	252	20	7.5	4.8	234	29	4.8	3.9	300	28	4.8	4.0	292	28	4.6	3.4	289	24	4.3	0.3	322
3·0 ,,	31	11.5	10.4	270	19	10.7	10.0	267	27	7.5	6.3	282	28	8.4	7.7	276	27	8.3	7.0	276	22	4.4	1.8	274
3·6 ,,	21	15.8	15.1	273	11	12.9	12.7	269	25	9.8	8.7	278	27	11.0	10.3	273	23	9.8	8.3	279	22	5.3	2.9	267
4·5 ,,	15	18.2	17.6	271	1	16.5	16.5	275	18	12.7	10.7	268	25	14.6	13.8	272	2	11.3	11.2	258	19	8.4	6.2	271
5·4 ,,	8	23.2	22.7	263					14	13.2	12.2	267	21	19.2	18.2	276					17	13.0	11.9	269
6·0 ,,	5	25.9	25.5	262					6	17.5	16.4	266	18	22.7	21.6	275					15	14.7	14.0	268
7·2 ,,	1	28.0	28.0	275					1	13.0	13.0	260	8	26.4	24.6	282					7	17.7	16.6	263
9·0 ,,																					1	12.5	12.5	265

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10. 1884 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.0	0.6	002	31	0.1	0.0	346	31	1.4	1.2	089	31	1.8	0.4	063	31	1.6	1.3	080	31	1.3	0.9	298
0.15 a.g.	31	3.3	2.1	018	31	4.6	3.7	066	31	4.9	3.2	092	31	3.4	0.5	054	31	5.9	4.5	080	31	3.4	2.8	310
0.3 a.m.s.l.																					31	3.4	2·5	317
0.6 ,,	31	2.3	1.3	020	31	2.9	2.4	066	31	5.0	1·7	108	31	3.4	0.4	035	31	5.6	4.1	080	31	4·7	2.8	337
0.9 ,,	31	3.3	2.2	018	31	4.8	3.8	066	31	5.0	2.0	156	31	3.5	0.4	018	31	4.3	2.1	106	31	5.4	3.3	327
1.5 ,,	31	3.2	1·8	017	31	3.2	1.7	053	31	5.2	3.1	257	31	3.7	1.3	279	31	4.5	2.6	236	30	6.4	5.1	317
2.1 ,,	30	3.5	1.1	009	30	3.6	0.6	336	31	6.2	4.6	261	31	5.8	3·5	263	31	6.2	4.6	253	29	7.2	6.3	315
3.0 ,,	26	5.7	2.8	276	28	5.4	2.5	273	28	9.1	8.7	265	26	8.7	7.2	265	29	8.9	7.1	266	26	11.2	10.1	283
3.6 ,,	24	6.6	4.5	271	10	6.1	4.9	287	18	9.4	8.1	275	26	11.4	10.0	264	27	10.0	8.9	276	20	11.9	10.7	276
4.5 ,,	22	9·5	8·2	266					1	13.0	13.0	330	25	15·6	14.5	269	9	9.8	9.4	288	9	15.0	13.1	266
5.4 ,,	19	12·9	11·0	268									22	19.2	17.7	269	3	10·5	9.8	294	2	15.7	15·7	275
6.0 ,,	17	14·8	12·7	271									18	21.7	20.3	267	1	13.0	13.0	280				
7.2 ,,	10	20·9	18·8	272									7	21.4	20.4	281								
9.0 ,,	3	27·2	25·9	278									1	13.0	13.0	300								

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.3	0.9	002	31	1.2	1.0	032	31	1.2	0.4	054	31	1.1	0.6	018	31	3.6	2.8	034	31	1.8	1·4	057
0.15 a.g.	31	3.0	2.3	359	31	4.5	3.7	045	31	2.8	0.9	027	31	4.0	1.4	039	30	6.5	4.7	052	30	3.3	2.4	070
0.3 a.m.s.l	31	3.0	2.2	351	31	3.9	3·3	042	31	2.7	0.9	028	31	3.2	1·2	036	31	5.7	4.2	048	30	2.9	1.9	064
0.6 ,,	31	3.5	2.3	334	31	4.1	1.7	051	31	2.6	0.8	003	31	4.5	1.5	035	29	5.3	3.1	060	30	3.9	1.8	106
0.9 ,,	31	3.8	2.5	322	31	4.1	1.4	020	31	2.7	1.0	358	31	3.7	1.0	023	29	3.4	0.5	048	30	3.6	1.5	140
1.5 ,,	30	6.1	3.7	275	31	4.5	2.3	340	31	3.9	2.2	338	31	3.3	1.4	001	30	4.2	2.3	241	31	4.1	2.3	213
2.1 ,,	30	8.2	7.6	301	30	5.0	4.0	315	31	5.0	4.0	314	31	4.5	2.9	305	30	6.0	4.0	240	31	5.6	4.3	235
3.0 ,,	28	11.4	10.7	286	28	8·1	6.8	286	31	8.6	7·7	385	30	8.5	7.2	278	30	8.0	6.8	257	31	8.3	6.6	265
3.6 ,,	27	13.2	12.6	278	27	9.7	8.4	282	28	10.3	9.8	282	17	10.5	9.4	274	25	10.2	9.0	262	31	10.5	8.9	265
4.5 ,,	20	16.5	15.7	276	22	12.4	11.3	278	26	13.5	12.3	279					23	14.8	12.8	264	31	14.0	11.5	263
5.4 ,,	11	19.5	19.2	273	12	15.5	14.6	274	17	19.0	18.4	277					21	19.4	18.3	267	31	17·0	15.8	266
6.0 ,,	5	19.6	19.2	070	6	15·3	15.0	253	13	23.0	22.2	274					21	22.9	21.9	267	28	19.0	17·2	266
7.2 ,,					1	28.0	28.0	260	6	30.2	29.5	269					21	29.7	27.7	265	20	23.4	21.7	274
9.0 ,,																	18	38.2	30.0	263	4	29.0	26.1	278

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.1	1.2	017	31	2.5	2.4	026	31	1.7	1.0	302	31	2.0	1.3	295	31	1.7	0.9	285	31	1.1	0.9	019
0.15 a.g. . .	30	4.8	3.4	021	30	8.7	6.4	048	29	6.7	4.4	323	31	4.2	2.6	305	31	6.1	3.8	317	31	6.5	6.0	031
0.3 a.m.s.l. .	30	3.9	2.7	019	30	7.0	5.8	036	29	6.6	4.7	321	31	4.3	2.6	300	31	6·0	3.9	314	31	6.8	6.1	037
0.6 ,, .	30	4.0	2.5	015	30	7.3	5.0	056	29	6.2	4.1	318	31	4.9	3.3	301	31	5.5	3.7	312	31	7.0	6.3	046
0.9 ,, .	30	3.4	1.3	356	30	5.0	2.3	080	29	6.7	5.3	301	30	5.5	3.9	300	31	5.5	3.7	306	31	6.9	6.1	050
1.5 ,, .	30	3.3	0.9	235	30	3.8	1.5	200	29	7.5	6.4	296	30	7.0	5.9	304	30	6.2	4.6	287	31	6.0	4.8	055
2.1 ,, .	30	4.7	3.3	239	29	5.6	4.0	230	27	7.7	6.3	290	30	7.4	6.0	299	29	6.9	5.7	288	31	5·0	3.0	070
3.0 ,, .	30	8.6	7.1	265	29	6.6	5.3	258	24	9.5	7.7	288	28	9.3	7.5	281	24	7.7	5.9	283	31	5.3	2.5	095
3.6 ,, .	29	10.0	8.5	264	15	8.2	6.7	278	11	8.4	5.9	304	27	11.0	9.8	280	12	8.3	5.4	268	30	5.3	3.0	111
4.5 ,, .	29	14.2	12.3	264	3	9.0	8.5	252	2	7·3	6.9	259	27	15.0	13.8	280	3	5.7	5.3	278	30	5.7	1.8	101
5.4 ,, .	29	17.9	16.2	266					1	10.5	10.5	270	24	18.0	17.5	273	1	8.5	8.5	265	30	5.3	1.0	109
6.0 ,, .	29	19.7	18.4	264					1	16.0	16.0	260	17	20.6	19.9	271	1	10.5	10.5	240	30	5.4	0.6	068
7.2 ,, .	28	26.7	25.3	262									7	26.9	26.6	285					30	6.5	1.8	300
9·0 ,, .	22	37.7	35.0	262									3	29.5	29.3	287					30	8.1	4.7	263

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5.0	4.5	028	31	4.1	3.6	034	31	3.0	2.5	018	31	2.3	2.2	089	31	3.0	2.7	294	31	1.9	1.1	016
0.15 a.g. . .	31	5.8	5.0	033	31	7.1	6.7	038	31	7.0	6.4	041	31	5.5	4.2	110	29	4.3	3.9	295	30	5.1	3.3	352
0.3 a.m.s.l. .	31	5.7	5.0	037	31	7.1	6.7	038	31	7.8	7.3	044	31	6.0	4.6	108	29	4.1	3.6	299	30	5.2	3.4	350
0.6 ,, .	30	6.0	5.5	039	31	6.7	6.0	040	31	8.4	7.9	046	31	5.4	4.0	108	29	2.4	0.7	340	29	4.8	2.8	358
0.9 ,, .	29	6.1	5.6	040	31	6.5	5.7	040	31	8.4	7.9	045	31	4.5	2.8	114	29	2.5	1.4	071	29	4.3	1.9	039
1.5 ,, .	21	5.9	4.7	050	31	5.4	3.8	049	28	6.3	5.1	048	30	4.3	2.8	131	29	4.0	2.9	085	29	4.9	3.7	092
2.1 ,, .	12	5.5	2.9	077	31	5.3	3.2	062	28	5.7	3.5	061	28	4.3	2.0	159	29	4.9	2.7	088	29	6.4	4.9	108
3.0 ,, .	7	5.6	2.8	067	31	5.0	3.1	068	25	5.4	3.4	065	27	5.5	0.4	157	27	4.5	1.1	082	28	5.0	1.2	174
3.6 ,, .	6	5.4	1.9	109	31	5.0	1.9	070	20	5.0	1.6	055	26	5.5	0.8	099	27	4.7	0.5	018	23	4.6	0.6	227
4.5 ,, .	4	5·5	2.7	078	31	5.0	1.1	076	15	4.7	1.4	108	26	5.1	1.2	119	25	4.7	0.9	065	10	5.1	1.3	097
5.4 ,, .	4	4.9	2.2	038	30	5.2	1.0	063	12	4.1	1.1	133	25	5.0	0.7	016	23	6.5	1.0	027	1	3·0	3.0	140
6.0 ,, .	4	5.7	2.7	023	30	5.4	1.3	330	11	4.6	0.9	066	22	5.7	1.5	281	23	6.1	1.6	317				
7.2 ,, .	4	6.1	4.0	005	29	6.7	2.5	287	6	4.2	0.4	015	18	7.1	4.0	261	19	7.6	3.5	286				
9.0 ,, .	1	3.0	3.0	265	28	8.7	5.7	254	1	1.0	1.0	045	9	10.1	6.4	220	12	9.5	7.4	246				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

December, 1692 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	MINICOY												NAGPUR/SONEGAON											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.1	0.5	054	31	1.5	0.5	039	31	1.4	0.6	071	31	0.6	0.5	044	31	0.9	0.5	113	31	0.5	0.4	026
0.15 a.g. . .	30	3.8	1.4	051	30	4.0	1.7	036	31	4.0	2.1	057	31	3.9	3.0	065	29	2.1	0.7	081	31	2.4	1.5	039
0.3 a.m.s.l. .	30	3.7	1.4	058	30	3.8	1.7	040	31	3.9	2.0	058												
0.6 ,, .	30	3.9	1.8	066	30	4.3	1.6	057	31	4.1	2.1	061	31	4.1	3.2	073	29	2.6	1.4	102	31	2.5	1.5	052
0.9 ,, .	30	4.1	2.0	071	30	4.1	1.8	065	31	3.8	1.7	071	31	3.9	2.6	119	29	3.2	1.6	105	31	2.7	1.3	053
1.5 ,, .	29	4.0	2.4	077	29	3.8	1.3	093	30	4.0	1.7	104	31	3.7	0.3	090	25	3.2	1.3	022	31	3.6	1.4	348
2.1 ,, .	27	3.6	1.6	086	28	3.7	1.1	150	29	3.9	1.6	099	31	5.2	1.7	263	25	4.0	1.8	315	31	4.5	2.1	297
3.0 ,, .	25	3.4	1.5	130	26	4.7	1.0	138	28	3.9	1.5	110	31	7.0	4.9	269	26	6.2	4.6	266	31	6.6	5.2	270
3.6 ,, .	20	3.7	2.1	114	22	3.8	1.1	083	21	4.3	3.1	097	31	8.1	6.7	271	23	8.9	7.7	274	31	8.1	6.9	263
4.5 ,, .	19	4.3	2.5	094	17	5.3	2.9	071	11	3.9	2.1	071	31	10.2	7.4	267	23	12.6	11.6	275	31	11.4	10.5	266
5.4 ,, .	15	5.7	3.3	079	17	5.6	2.9	062	6	4.7	2.5	108	31	14.4	13.0	267	21	17.6	15.7	274	31	15.3	13.2	270
6.0 ,, .	13	5.5	2.7	121	15	7.4	2.5	055	5	5.1	3.5	094	31	16.1	14.4	265	21	19.2	17.6	273	31	16.8	15.2	267
7.2 ,, .	11	3.6	1.2	124	7	6.8	0.9	055					30	21.3	20.0	266	20	24.9	23.1	276	31	20.3	18.2	278
9.0 ,, .	7	5.2	0.6	190	6	6.7	0.6	205					30	26.7	25.7	263	11	29.4	27.0	274	31	24.7	23.1	262

Station	NAGPUR/SONEGAON				NEW DELHI/SAFDARJUNG																POONA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.7	0.5	017	31	1.5	1.1	321	31	2.5	1.4	324	31	1.6	0.9	330	31	1.6	1.2	314	31	0.1	0.1	107
0.15 a.g. . .	30	4.6	3.5	089	31	5.6	3.4	334	31	4.0	1.6	338	31	4.5	2.5	339	31	5.9	3.1	330	30	3.4	2.6	100
0.3 a.m.s.l. .					31	5.1	2.9	336	31	3.6	1.7	348	31	4.3	2.4	341	31	4.9	2.3	328				
0.6 ,, .	30	4.4	3.4	086	31	5.4	3.1	320	31	5.2	2.3	314	31	4.2	2.3	335	31	5.9	2.7	320	30	1.3	0.5	073
0.9 ,, .	30	3.8	2.6	080	31	5.4	3.4	305	31	5.9	2.9	307	31	4.4	2.6	319	31	5.9	3.0	299	30	5.2	4.3	115
1.5 ,, .	29	3.6	1.4	031	31	5.7	3.8	303	31	6.2	3.8	281	31	4.7	3.1	291	31	5.3	3.5	287	27	5.9	5.2	126
2.1 ,, .	29	4.4	1.9	310	31	6.0	4.7	282	31	6.3	4.0	271	31	5.1	4.1	285	30	5.4	3.4	277	25	3.9	2.4	106
3.0 ,, .	28	6.2	4.9	274	30	7.0	5.2	273	30	7.3	5.7	269	31	7.1	5.8	272	25	6.2	4.6	253	23	4.6	2.4	244
3.6 ,, .	21	7.9	6.7	267	30	8.4	6.8	265	29	9.1	7.4	269	31	8.1	6.6	271	3	8.0	7.9	242	22	6.4	3.9	265
4.5 ,, .	4	10.6	10.3	264	30	10.8	9.8	273	29	12.7	11.0	269	31	16.9	9.4	270					14	8.5	7.1	281
5.4 ,, .	1	15.5	15.5	270	30	14.1	13.2	272	27	16.2	15.5	273	31	15.2	13.2	274					5	8.6	5.9	313
6.0 ,, .					29	15.7	14.7	269	25	19.6	18.2	274	31	17.4	16.0	277					1	12.0	12.0	220
7.2 ,, .					29	22.0	19.5	270	14	24.4	21.9	271	31	24.0	21.1	267								
9.0 ,, .					29	30.5	28.4	264	6	28.2	26.9	273	30	34.5	31.9	267								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	POONA								PORT BLAIR															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·3	0·1	148	31	0·1	0·0	293	31	2·6	2·5	065	31	4·8	4·4	057	31	4·1	3·6	060	31	4·5	3·8	064
0·15 a. g.	31	2·8	1·5	109	30	3·9	1·5	102	30	7·3	6·5	060	28	6·3	5·9	054	31	8·0	6·9	060	29	7·2	6·4	056
0·3 a.m.s.l.									30	7·3	6·5	060	28	6·8	6·3	055	31	8·0	6·8	060	29	6·9	6·1	058
0·6 ,,	31	1·8	0·9	111	30	1·5	0·4	110	30	8·0	7·0	068	28	7·7	6·9	064	31	8·6	6·9	068	29	7·3	6·5	065
0·9 ,,	31	3·0	1·6	108	30	4·9	2·3	094	30	8·5	7·2	078	28	7·9	7·0	072	31	8·4	6·9	076	25	6·9	6·4	073
1·5 ,,	31	3·1	1·7	136	30	5·2	4·3	111	30	9·1	7·8	091	23	7·7	6·4	085	30	7·5	6·0	083	17	6·4	5.0	090
2·1 ,,	31	3·5	1·8	175	30	4·7	3·6	138	30	7·6	6·1	097	14	5·6	4·5	074	29	5·9	3·6	081	13	4·5	3·8	081
3·0 ,,	29	4·2	2·4	234	27	5·3	3·3	232	30	5·8	3·5	099	10	4·3	3·1	071	29	6·9	4·2	085	9	5·1	3·9	073
3·6 ,,	29	6·1	4·1	260	24	6·5	4·3	256	30	6·5	3·7	100	10	5·9	4·0	090	29	7·1	3·8	088	1	4·5	4·5	085
4·5 ,,	25	9·3	7·7	284	12	9·2	7·1	255	30	7·7	4·7	099	9	5·9	3·5	090	29	8·8	5·8	097				
5·4 ,,	25	12·2	10·3	272	5	13·8	12·0	250	28	9·1	5·9	095	7	7·1	3·4	090	28	9·7	6·2	092				
6·0 ,,	25	13·1	11·6	268	4	15·3	14·2	280	28	9·0	5·2	100	7	8·3	2·5	096	28	9·7	5·7	101				
7·2 ,,	14	17·7	16·1	271					27	8·9	3·8	120	4	8·3	0·7	267	26	9·2	5·4	115				
9·0 ,,	10	21·9	20·8	268					20	9·0	3·3	176	1	17·5	17·5	270	20	7·7	4·9	150				

Station	RAIPUR												RAXAUL								SILIGURI BAGHDOGRA			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·2	070	31	1·2	0·8	022	31	0·9	0·5	058	31	0·1	0·1	120	31	1·1	1·0	238	31	0·9	0·6	039
0·15 a. g.	30	3·4	2·3	053	31	2·8	2·0	026	30	4·0	3·0	070	25	3·6	0·7	321	31	4·3	3·8	249	29	2·8	2·1	046
0·3 a.m.s.l.													25	3·9	1·0	312	31	4·3	3·7	250	29	2·9	2·3	060
0·6 ,,	30	3·8	2·4	080	31	2·7	2·1	028	30	4·1	3·3	071	25	3·3	0·6	267	31	3·8	3·2	256	29	2·7	2·1	082
0·9 ,,	30	3·8	2·1	081	31	3·2	2·0	033	30	3·7	2·8	065	25	3·3	0·4	254	31	3·4	2·2	275	29	2·3	1·9	088
1·5 ,,	29	4·0	1·7	032	31	4·0	1·6	008	30	3·1	1·7	025	24	5·1	1·9	289	31	4.9	2·1	301	29	3·1	2·5	085
2·1 ,,	27	4·2	2·4	309	29	4·0	2·3	305	28	3·5	2·4	322	23	6·8	5·5	289	30	8·1	5·6	296	28	3·9	1·8	092
3·0 ,,	25	6.1	4·1	341	27	6·5	5·6	281	27	6·1	4·4	282	20	9·0	8·1	282	27	9·3	8·1	288	21	9·0	6·7	281
3.6 ,,	24	7·5	6·1	274	26	8·9	8·0	276	13	8·5	7·5	283	19	10·2	9·5	281	24	10·4	9·6	282	15	13·9	12·7	271
4·5 ,,	21	9·7	8·7	273	23	12·5	11·4	275	2	13·3	2·3	071	15	12·8	12·6	279	17	14·9	14·4	279	12	16·3	16·0	283
5·4 ,,	13	15·7	14·4	181	21	16·7	15·1	269	1	13·0	13·0	085	9	17·4	17·1	269	12	19·3	18·9	269	6	19 5	19·0	272
6·0 ,,	9	18·2	15·7	276	16	20·0	18·3	276					3	12·5	12·3	258	8	19·6	18·9	274	1	28·5	28·5	280
7·2 ,,	1	27·5	27·5	240	10	26·1	24·1	274					1	8·0	8·0	240	2	15·0	12·7	270				
9·0 ,,					1	37·0	37·0	250					1	14·0	14·0	240	2	22·0	18·1	284				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	SILIGURI/BAGHDOGRA								SRINAGAR								TIRUCHCHIRAPPALLI							
Time in I.S.T.	1730				2330				0530*				1730*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·8	221	31	1·0	0·7	348	27	0·3	0·3	128	31	0·5	0·2	060	31	2·8	2·6	018	31	3·7	3·3	061
0.15 a.g.	31	2·9	2·1	227	31	2·5	0·9	336	26	1·7	0·4	140	31	1·6	0·3	078	31	6·9	6·7	027	31	5·5	5·1	063
0.3 a.m.s.l.	31	2·9	2·1	229	31	2.6	0.9	301									31	8·1	7·9	033	31	5·6	5·3	062
0.6 ,,	31	2·5	1·8	234	31	2·1	0·7	275									31	8·8	8·4	045	31	6·5	6·1	053
0.9 ,,	31	1·9	1·4	236	31	1·9	0·3	332									29	8·2	8·0	043	31	6·9	6·5	047
1.5 ,,	31	2·2	0·6	192	31	2·7	1·0	078									29	5·0	4·4	045	29	6·3	5·6	040
2.1 ,,	30	3·4	0·3	146	30	3·5	0·8	142	26	1·0	0·3	220	31	1·3	0·4	135	26	5·4	3·6	068	28	6·0	3·6	044
3·0 ,,	24	7·5	6·2	246	23	8·6	6·7	284	26	2·6	1·3	138	31	2·9	1·2	144	23	4·4	3·0	084	25	5·6	2·8	063
3.6 ,,	19	12·3	11·9	287	7	14·8	14·0	281	26	4·8	3·5	152	31	5.0	4.1	159	21	4·5	2·8	088	25	4·8	2·4	077
4.5 ,,	14	18·2	18·1	282					26	6·1	3·8	201	31	6·3	4·7	183	20	5·8	4·1	073	21	5·5	3·5	047
5.4 ,,	11	21 6	21·2	279					26	9·9	6·9	237	31	9.6	6.2	232	18	6·6	3·7	084	20	5·9	3·5	060
6.0 ,,	9	24·3	22·5	279					26	12·2	9·0	253	30	12.7	8.7	257	18	5·7	3·4	071	20	6·1	3·7	051
7.2 ,,	5	29·2	28·7	275					26	19·0	14·6	263	30	17.7	14.6	268	10	6·3	2·6	067	17	7.1	3·8	031
9.0 ,,									21	26·0	21·2	269	26	25.4	22.0	270	6	7·2	4·4	221	12	7.3	1·9	253

Station	TIRUCHCHIRAPPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	2.8	047	31	0.9	0.8	034	31	1.4	0.3	336	31	1.7	1.1	253	31	1.2	0.7	035	31	0.2	0.2	360
0.15 a.g.	31	7·3	7.1	053	31	2.7	1.6	033	29	2.0	0.4	292	31	4.0	3.0	262	30	2.5	1.0	325	31	2.5	1.2	022
0.3 a.m.s.l.	31	8·5	8.2	054	31	2.7	1.6	044	29	2.0	0.3	306	31	4.0	3.0	262	30	2·3	1·2	293				
0.6 ,,	31	9·9	9.6	052	31	2.4	1.3	067	29	2.0	0.7	048	31	3·3	1·0	287	30	2.6	0.6	278				
0.9 ,,	31	8.9	8.5	048	31	3.3	2.1	072	26	2.3	1.4	042	31	3.5	1.7	044	30	2.5	1.1	043	31	2.9	1.3	115
1.5 ,,	31	6.0	5.1	035	31	4.1	1.7	071	22	3.5	2.3	052	31	5.1	3.8	054	26	3.8	3.0	055	29	4.1	1.3	198
2.1 ,,	30	5.6	3.1	056	31	5.2	2.4	056	21	4.8	2.7	057	31	5.2	2.9	050	25	4.3	2.2	051	29	5.5	4.3	253
3.0 ,,	27	4.9	2.6	069	31	4.4	1.6	078	15	5·2	3.3	075	31	5.1	1.4	036	20	4.5	2.5	087	29	8.2	7.1	269
3.6 ,,	22	4.4	3.1	098	31	4.7	2.0	103	12	4.3	3.1	066	31	5.0	2.0	060	16	4.1	2.5	108	28	10.6	5.9	269
4.5 ,,	10	5.5	4.1	070	31	5.9	3.5	087	10	5.8	4.3	068	31	6.2	3.1	067	13	5·3	3·5	100	26	13.8	12.7	271
5.4 ,,	7	4.3	3.6	081	31	6·9	3·9	081	9	6.1	3.6	092	31	7·6	3·7	062	9	4·7	2·2	104	16	16.3	14.4	278
6.0 ,,	5	4.8	3.6	102	31	7·4	3.3	051	8	6.6	4.0	070	31	8·3	4.3	047	6	4·8	4·4	054	7	19.2	15.7	268
7.2 ,,	1	5.5	5.5	100	31	7·2	1.9	064	7	7.0	5.3	056	31	8.6	4.0	065	2	2·5	0·6	238				
9·0 ,,					27	9.6	2.6	171	6	8.7	1.2	200	26	8.5	3.6	171	1	2·0	2·0	085				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	1·0	270	31	0·2	0·1	165	31	0·6	0·5	008	31	1·7	1·4	262	31	0·9	0·7	023	31	3·6	3·3	027
0·15 a. g.	31	2·5	1·4	126	31	2·9	1·4	067	29	4·6	3·6	064	31	3·1	1·8	274	30	5·3	3·9	024	31	9·8	9.1	031
0·3 a. m. s. l.									29	5·2	3·7	077	31	3·3	1·5	275	30	6·3	3·8	021	31	8·5	7·2	034
0·6 ,,									29	5·0	3·4	094	31	3·0	0·2	032	30	4·7	2.1	323	31	5·5	4·1	039
0·9 ,,	31	2·6	1·1	141	31	3·5	1·1	097	29	5·0	3·5	109	31	3·6	1·3	075	30	4·1	1·9	080	31	3·9	2·2	053
1·5 ,,	31	2·7	0·9	227	30	3·3	1·5	164	29	4·3	3·3	132	29	5·2	3·1	073	29	5·3	3·6	111	30	3·9	0·9	113
2·1 ,,	31	4·0	2·9	253	30	4·3	3·0	233	26	4·0	2·6	165	27	4·9	3·2	094	29	5·4	3·8	121	30	3·9	1·6	201
3·0 ,,	29	7·7	6·9	268	28	7·4	2·7	259	23	4·1	1·4	230	26	4.5	0·9	148	26	4·7	1·2	191	30	5·6	3·6	255
3·6 ,,	28	10·4	9·5	266	18	10·0	8·8	275	1	9·0	9·0	265	25	5·3	1·5	225	9	6·1	2·3	246	15	7·7	6·0	267
4·5 ,,	27	14·4	13·0	268	3	13·5	12·8	260					24	5·5	2·6	273	1	4·0	4·0	120	6	13·1	12·3	254
5·4 ,,	25	19·1	18·1	267									24	7·6	4·6	277					1	15·0	15·0	295
6·0 ,,	23	20·8	19·6	271									24	8·3	5·8	264								
7·2 ,,	11	25·9	24·9	274									14	11·1	9·1	267								
9·0 ,,	2	30·5	30·5	287									2	14·7	14·7	302								

Station	VERAVAL								VIJAYWADA/GANNAVARAM												VISHAKHAPATNAM			
Time in I. S. T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·3	2·9	260	31	2·3	1·9	008	31	2·2	2.0	028	31	2·8	2·1	075	31	1·9	1·7	070	31	3·6	3·3	026
0·15 a. g.	31	5·2	3·0	260	31	6·9	5·7	015	31	5·1	4·8	063	31	3·8	2·7	082	31	6·1	5.3	097	31	7·6	7·4	020
0·3 a. m. s. l.	31	4·9	2·2	270	31	7·7	6·0	015	31	5·2	4·8	081	31	3·5	2·8	082	31	6.5	5·7	096	31	6·7	6·4	031
0·6 ,,	31	3·8	2·0	334	31	6·5	4·7	020	31	4 4	3·8	089	31	3·6	2·9	077	31	5·8	4·9	089	31	5·5	5·0	050
0·9 ,,	31	3·8	2·5	358	31	5·0	2·9	034	31	4·2	3·1	077	31	3·3	2·4	056	31	4·6	3·7	076	31	5·1	4·4	057
1·5 ,,	31	4·0	3·1	025	31	3·9	2·5	073	29	4·8	2·3	071	31	3·7	2·4	040	31	4·6	3·2	063	31	4·7	3·5	049
2·1 ,,	31	3·9	1·8	019	31	4·3	2·0	115	28	5·3	1·1	089	31	4·7	0·7	052	30	4·9	1·7	066	31	4·8	0·8	004
3·0 ,,	31	6·4	3·9	263	30	5·8	2·5	261	27	5·3	0·7	211	30	5·5	1·6	257	30	5·2	0·9	172	31	5·8	1·5	297
3·6 ,,	29	7.9	6·1	270	22	6·9	1·5	266	26	6·0	1·7	274	30	5·5	1·6	265	27	5·3	1·3	257	31	6·2	2·9	290
4·5 ,,	28	11·1	9·5	274	15	10·8	9·0	266	25	6·6	3·1	247	30	6·6	3·6	260	25	6·7	3·1	264	31	7·7	4·8	272
5·4 ,,	28	14·4	12·6	267	4	15·9	14·5	268	25	7·4	5·0	262	29	7·7	5·5	263	17	7·9	5·3	265	31	8·5	6·1	260
6·0 ,,	28	16.4	14.5	269	2	14·7	14·5	255	25	8·7	6·5	284	29	9·0	7·3	263	13	9·7	7·4	265	30	9·9	8 4	255
7·2 ,,	26	21.3	20.0	268					22	13·7	10·3	269	27	12·5	10·7	265	4	11·6	11·0	270	30	14.3	11·8	267
9·0 ,,	17	30·6	29.4	264					12	18.0	16·6	256	22	17·0	15·9	259					26	18·0	17·0	258

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

December, 1962 (Agrahayana 10— Pausa 10, 1884 Saka)

tation	VISHAKHAPATNAM																							
Time in I.S.T.	1130				1730*				2330															
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·3	1·5	048	31	4·2	4·1	045	31	0·7	0·5	050												
0.15 a. g. .	30	3·2	2·5	065	31	7·9	3·7	051	31	3·6	3·4	065												
0·3 a. m. s. l. .	30	3·1	2·6	066	31	7·1	6·9	055	31	4·4	4·3	075												
0·6 ,, .	29	3·1	2·6	061	31	5·5	5·2	061	31	5·0	4·9	074												
0·9 ,, .	28	3·5	2·9	050	31	5·3	4·7	041	31	5·0	4·6	059												
1·5 ,, .	28	4·4	2·2	055	31	5·4	4·4	011	30	5·0	4·1	037												
2·1 ,, .	24	5·1	0·5	327	31	5·8	3·2	002	28	4·9	2·3	064												
3·0 ,, .	22	5·9	1·1	289	31	5·6	2·4	284	28	5·0	1·1	266												
3·6 ,, .	20	6·0	2·9	285	31	6·7	3·7	285	21	4·7	1·8	276												
4·5 ,, .	20	8·0	6·2	259	31	8·2	6·0	268	15	6·3	4·3	277												
5·4 ,, .	18	9·6	7·9	266	31	9·7	7·7	261	14	8·3	6·4	262												
6·0 ,, .	18	11·1	9.4	276	30	11·4	9·6	263	11	9·8	8·8	251												
7.2 ,, .	16	16.6	14.1	281	30	15·3	13·1	269	3	16·0	15·9	249												
9·0 ,, .	11	20.3	19·7	261	30	18·3	17·1	260																

Station																								
Time in I.S.T.																								
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface																								
0·15 a. g. .																								
0.3 a. m. s. l. .																								
0·6 ,, .																								
0·9 ,, .																								
1·5 ,, .																								
2·1 ,, .																								
3·0 ,, .																								
3·6 ,, .																								
4·5 ,, .																								
5·4 ,, .																								
6·0 ,, .																								
7·2 ,, .																								
9·0 ,, .																								

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 Km. above mean sea level

December, 1962 (Agrahayana 10, —Pausa 10, 1884 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	0530 hr.			
10.5	1	49.5	49.5	245
	AHMEDABAD			
	0530 hr.*			
10.5	21	42.8	39.0	270
12.0	10	43.9	39.0	265
14.1	4	42.0	40.0	259
16.2	1	35.0	35.0	255
	1730 hr.*			
10.5	22	36.8	34.0	264
12.0	17	41.5	37.7	267
14.1	7	38.6	37.3	272
16.2	2	19.5	19.4	277
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10.5	8	40.2	38.1	271
12.0	3	40.3	39.7	255
	1130 hr.*			
10.5	2	32.5	32.1	244
	1730 hr.			
10.5	14	34.0	32.5	268
12.0	6	40.6	39.1	277
	ANANTAPUR			
	0530 hr.*			
10.5	9	11.4	10.3	229
12.0	6	11.7	11.2	237
	1730 hr.			
10.5	11	13.6	11.7	256
12.0	7	12.5	11.1	237
14.1	6	12.6	10.1	240
16.2	3	8.2	7.8	250
	BAHRAICH			
	1130 hr.			
10.5	9	50.0	46.4	265
12.0	3	43.5	38.0	268
	1730 hr.			
10.5	2	36.3	36.1	252

Ht. in Km.	n	V	v	D
	BANGALORE			
	0530 hr. @			
10.5	11	12.8	11.1	222
12.0	8	16.1	14.4	227
14.1	6	21.6	19.0	252
16.2	3	25.2	17.3	229
18.0	3	14.5	11.3	255
	1130 hr.			
10.5	11	10.6	8.1	200
12.0	5	9.5	6.6	221
14.1	2	19.5	9.0	254
16.2	1	20.5	20.5	240
	1730 hr.@			
10.5	13	10.9	8.9	242
12.0	11	11.6	10.0	228
14.1	7	13.8	12.5	237
16.2	5	9.4	8.2	265
18.0	4	6.3	4.8	107
	BAREILLY			
	1730 hr.			
10.5	1	72.5	72.5	125
	BEGAMPET			
	0530 hr.			
10.5	13	22.5	21.8	265
12.0	12	22.7	21.5	260
14.1	5	20.5	19.6	250
16.2	4	18.6	16.5	264
18.0	4	13.1	7.7	272
21.0	2	4.7	4.0	010
24.0	1	14.0	14.0	085
	1730 hr.			
10.5	11	21.5	20.3	260
12.0	6	26.1	25.4	249
14.1	1	23.5	23.5	240
16.2	1	20.0	20.0	235
	BHUBANESHWAR			
	1730 hr.			
10.5	2	12.5	12.5	254
12.0	1	13.0	13.0	225
14.1	1	14.5	14.5	250
16.2	1	12.0	12.0	230
18.0	1	13.0	13.0	250
21.0	1	4.0	4.0	075

Ht. in Km.	n	V	v	D
	BHUJ/ RUDRAMATA			
	1730 hr.			
10.5	3	40.3	30.3	250
12.0	3	59.8	43.6	264
	CALCUTTA/ DUM DUM			
	0530 hr.*			
10.5	29	31.9	30.9	253
12.0	28	31.9	30.9	250
14.1	13	29.7	28.9	250
16.2	4	21.9	21.3	263
18.0	1	31.0	31.0	275
21.0	1	33.0	33.0	260
	1730 hr.*			
10.5	30	31.3	31.1	256
12.0	28	34.4	33.4	261
14.1	10	36.1	34.2	252
	DARJEELING			
	1730 hr.			
10.5	1	30.5	30.5	245
	GADAG			
	0530 hr.			
10.5	6	14.7	13.7	255
12.0	5	13.8	11.1	268
14.1	3	18.5	14.9	233
16.2	1	28.0	28.0	240
18.0	1	25.0	25.0	235
	1730 hr.			
10.5	10	15.0	13.5	265
12.0	9	16.2	14.3	245
14.1	7	14.6	12.7	250
16.2	6	14.2	11.3	240
18.0	5	11.0	5.4	265
21.0	2	4.5	3.5	106
24.0	1	19.5	19.5	095
	GAUHATI			
	0530 hr.*			
10.5	13	41.7	40.2	265
12.0	8	44.3	42.9	261
14.1	1	34.0	34.0	250
	1130 hr.			
10.5	4	50.6	50.5	246

Ht. in Km.	n	V	v	D
	1730 hr.*			
10.5	9	39.0	38.2	255
12.0	7	43.9	43.0	257
14.1	2	42.7	42.5	263
16.2	1	72.0	72.0	255
	GORAKHPUR			
	1730 hr.			
10.5	1	26.5	26.5	300
12.0	1	22.5	22.5	260
	GWALIOR			
	0530 hr.			
10.5	1	32.0	32.0	275
	1130 hr.			
10.5	2	33.5	33.1	274
	1730 hr.			
10.5	1	29.0	29.0	265
	JAGDALPUR			
	0530 hr.			
10.5	1	9.5	9.5	245
12.0	1	10.0	10.0	230
	1730 hr.			
10.5	2	33.0	32.4	248
12.0	1	30.0	30.0	235
14.1	1	29.0	29.0	260
	JAIPUR/SANGANER			
	0530 hr.			
10.5	1	23.5	23.5	310
	JODHPUR			
	0530 hr.*			
10.5	10	49.1	44.0	257
12.0	9	46.8	42.4	255
14.1	3	41.8	41.3	241
16.2	1	16.5	16.5	245
18.0	1	24.0	24.0	235
	1130 hr.			
10.5	1	51.5	51.5	250
	1730 hr.*			
10.5	15	41.4	38.3	261
12.0	9	42.5	40.0	268
14.1	3	36.2	35.7	277
16.2	1	42.0	42.0	275
18.0	1	55.0	55.0	275

Ht. in Km.	n	V	v	D
	MADRAS/ MINAMBAKKAM			
	0530 hr.*			
10.5	29	11.2	8.2	230
12.0	30	13.2	10.1	223
14.1	21	14.9	9.1	222
16.2	14	16.0	8.0	238
18.0	3	8.2	5.0	249
	1130 hr.			
10.5	1	9.0	9.0	220
12.0	1	9.0	9.0	230
14.1	1	11.0	11.0	140
16.2	1	9.5	9.5	040
18.0	1	3.0	3.0	085
	1730 hr.*			
10.5	27	11.7	9.1	228
12.0	26	14.7	11.0	219
14.1	15	17.0	13.5	243
16.2	8	12.1	9.6	240
	MANGALORE			
	BAJPE			
	0530 hr.			
10.5	4	14.7	12.5	216
	1730 hr.			
10.5	7	12.8	10.7	258
12.0	5	15.7	14.7	242
14.1	1	26.0	26.0	215
	MINICOY			
	0530 hr.			
10.5	4	9.5	3.3	172
	1730 hr.*			
10.5	5	7.7	5.8	220
12.0	4	9.0	6.5	182
14.1	2	9.0	4.7	248
16.2	2	10.3	5.8	210
	NAGPUR/ SONEGAON			
	0530 hr.*			
10.5	29	31.5	29.3	257
12.0	28	30.5	29.7	249
14.1	26	29.1	25.0	249
16.2	17	19.1	17.7	257
18.0	10	16.1	14.8	250
21.0	4	9.7	2.5	240

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Ht. in Km.	n	V	v	D
	1730 hr *			
10·5	30	28·7	28·0	253
12·0	30	31·2	29·3	249
14·1	27	27·5	26·7	250
16·2	18	23·1	22·4	251
18·0	7	10·6	9·9	268
21·0	4	10·7	5·7	292
24·0	1	3·0	3·0	040
	NEW DELHI/ SAFDARJUNG			
	0530 hr.*			
10·5	27	37·0	34·8	262
12·0	20	40·3	38·5	259
14·1	11	40.5	39.0	263
16·2	6	31·5	30·3	262
18·0	4	21·9	21·6	263
	1130 hr.			
10·5	2	41.5	41.1	255
12·0	1	36.0	36.0	250
14·1	1	56.0	56.0	230
	1730 hr.*			
10·5	25	39·1	36·8	266
12·0	18	42 8	40·6	265
14·1	11	38·8	37·2	269
16·2	2	24·3	24·0	255
18·0	2	13·5	11·7	241
21·0	2	9.7	8.9	219
	POONA			
	1730 hr.			
10·5	8	27·9	26·5	253
12·0	4	29·9	28·9	249
14·1	3	24·0	24·0	264
16·2	1	12·5	12·5	255
	PORT BLAIR			
	0530 hr.*			
10·5	14	9·0	5·0	221
12·0	12	14·1	9·5	227
14·1	7	17·1	14·5	227
16·2	2	8·7	2·7	225

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	13	8·7	5·6	178
12·0	11	10·4	7·2	185
14·1	6	11·7	7·0	162
16 2	5	15·9	11.0	139
18·0	2	6·0	6·0	179
21·0	1	8·0	8·0	135
	RAIPUR			
	1730 hr.			
10·5	1	28·0	28·0	240
	RAXAUL			
	1730 hr.			
10·5	2	25·7	24·3	258
	SRINAGAR			
	0530 hr.*			
10·5	18	33·6	28·2	270
12·0	12	40·1	35·9	267
14·1	4	27·5	27·5	260
16·2	2	24·0	23·7	250
18·0	1	19·0	19·0	270
	1730 hr.*			
10·5	19	31·6	28·2	270
12·0	11	38·5	38·0	266
14·1	3	41·5	41·5	269
16·2	1	57·5	57·5	260
	TIRUCHCHIRAPPALLI			
	0530 hr.			
10·5	3	10·5	10·0	226
12·0	2	13·5	12·5	240
	1730 hr.			
10·5	10	10·3	5·7	218
12·0	8	12·4	8·2	227
14·1	5	13·1	12·6	232
16·2	2	20·3	20·2	232
	TRIVANDRUM			
	0530 hr.*			
10·5	24	10·0	4·8	168
12·0	21	12·9	8·1	180
14·1	18	15·2	3·8	204
16·2	14	11·5	2·1	263
18·0	11	8·5	4·4	065
21·0	1	7·5	7·5	060
	1130 hr.			
10·5	3	9·0	8·9	262

Ht in Km	n	V	v	D
12·0	2	9·7	9·7	242
14·1	1	12·5	12·5	240
16·2	1	12·0	12·0	255
18·0	1	8·0	8·0	215
21·0	1	22·0	22·0	250
	1730 hr.*			
10·5	25	11·6	6·4	177
12·0	23	15·7	9·4	189
14·1	21	16·1	6·2	189
16·2	17	10·5	3·7	224
18·0	10	5·4	0·7	043
21·0	1	10·0	10·0	125
	VERAVAL			
	1730 hr			
10·5	11	33·0	31·0	266
12·0	5	38·4	38·0	269
	VIJAYWADA/ GANNAVARAM			
	0530 hr.			
10·5	10	23·8	22·8	241
12·0	5	20·1	18·8	246
14·1	2	7·5	7·3	208
16·2	1	9·0	9·0	085
	1730 hr.			
10·5	19	18·9	18·1	249
12·0	11	20·6	19·8	256
14·1	6	18·6	18·0	256
16·2	1	9·0	9·0	020
	VISHAKHAPATNAM			
	0530 hr.*			
10·5	26	22·5	20·8	243
12·0	24	26·1	24·6	240
14·1	24	25·6	23·3	247
16·2	21	19·1	16·0	248
18·0	11	13·6	12·1	258
21·0	3	14·7	10·1	250
24·0	1	6·0	6·0	145
	1130 hr.			
10·5	8	24·1	23·3	248
12·0	7	20·0	18·8	232
14·1	4	12·3	11·1	227
16·2	2	11·7	7·3	161
18·0	1	9·5	9·5	105

Ht in Km	n	V	V	D
	1730 hr.*			
10·5	29	22·4	21·3	247
12·0	28	23·3	20·9	235
14·1	22	24·4	22·5	245
16·2	17	14·9	12·9	248
18·0	13	10·4	3·6	255
21·0	3	7·7	2·1	042

Ht in Km	n	V	v	D

RADIOSONDE DATA

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 14 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

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

RADIOSONDE DATA

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

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

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1008 mb.)						ALLAHABAD/BAMHRAULI (1005 mb.)						BANGALORE (911 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	288.0	292	285	282.5	31	098	284.1	290	278	282·1	30	921	289.8	293	286	288.8
1000	31	124	..	..	..	..	30	139	..	..	..	..	30	132	..	..	..	..
900	31	1033	290.5	294	287	281.5	30	1035	288.3	293	285	275.4	29	1034	289.3	293	285	288.2
850	31	1519	286.5	290	283	278.9	30	1517	285.4	291	282	272.2	29	1521	288.5	291	285	284.0
800	31	2028	283.0	288	280	273.8	30	2024	282.9	287	279	269.0	29	2034	287.3	289	285	278.4
700	31	3130	278.3	285	274	265.0	30	3122	277.0	281	272	260.1	29	3155	283.0	285	279	269.6
600	31	4375	271.1	277	267	257.1	30	4359	270.3	274	267	..	29	4419	275.5	280	271	263.4
500	31	5801	262.1	268	256	..	30	5781	261.4	265	258	..	28	5873	268.0	270	265	..
400	31	7482	252.7	257	245	..	29	7455	250.5	257	246	..	28	7568	256.2	261	251	..
300	31	9540	236.3	241	228	..	23	9501	237.4	245	231	..	27	9674	240.5	245	232	..
250	31	10777	226.2	234	219	..	16	10738	228.4	234	221	..	26	10935	230.0	236	223	..
200	30	12554	215.5	223	207	..	12	12201	220.1	227	211	..	24	12406	218.9	227	211	..
175	30	13056	210.9	217	199	..	10	13058	215.9	224	206	..	20	13245	212.7	220	207	..
150	30	13998	206.3	213	197	..	6	14060	214.8	219	211	..	19	14194	206.5	212	198	..
125	28	15093	202.2	209	194	..	5	15189	211.6	214	209	..	15	15273	201.3	209	194	..
100	27	16409	199.7	211	183	..							13	16591	197.5	202	191	..
80	23	17740	202.4	215	183	..							10	17928	199.5	209	194	..
70	20	18534	209.9	220	193	..							7	18694	201.4	209	194	..
60	14	19454	206.6	216	191	..												
50	10	20639	210.7	217	195	..												

	BOMBAY/SANTA CRUZ (1011 mb.)						CALCUTTA/DUM DUM (1015 mb.)						GAUHATI (1010 mb.)					
Surface	31	013	293.2	298	290	289.6	31	006	286.3	293	281	284.8	31	049	286.1	292	283	284·6
1000	31	107	..	..	..	..	31	131	..	..	..	..	31	134	..	..	..	..
900	31	1023	292.3	296	288	281.4	31	1023	285.5	291	281	274.7	31	1029	286.3	292	283	281.2
850	31	1512	288.7	293	285	278.6	31	1502	283.8	290	277	269.8	31	1508	283.3	288	280	277.5
800	31	2024	285.5	290	281	273.8	31	2006	281.4	285	275	266.0	31	2010	280.2	284	277	273.5
700	31	3130	280.7	286	276	261.4	31	3103	277.1	281	270	261.6	31	3097	274.7	279	270	262.8
600	31	4394	273.7	277	270	272.4	31	4346	270.0	274	262	..	31	4329	269.9	277	265	255.0
500	31	5833	265.0	268	262	..	31	5768	261.9	267	256	..	31	5750	262.0	268	257	..
400	31	7533	254.1	259	248	..	31	7447	251.7	260	246	..	31	7429	251.4	258	245	..
300	29	9615	239.4	245	234	..	30	9518	238.0	245	231	..	16	9537	239.8	247	234	..
250	24	10901	230.4	239	225	..	28	10773	230.1	238	224	..	13	10821	233.1	243	225	..
200	21	12362	219.8	224	215	..	28	12222	220.5	228	215	..	12	12316	223.0	231	216	..
175	18	13205	214.0	218	207	..	16	13187	215·6	223	211	..	9	13159	217.4	225	212	..
150	12	14173	208.0	212	198	..	13	14248	209·9	217	204	..						
125							13	15196	206.0	211	198	..						
100							7	16559	201.3	207	193	..						
80							5	17913	199.6	204	190	..						
70																		
60																		

RADIOSONDE DATA

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

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

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR. Surf. Pr. (990 mb.)						MADRAS/MINAMBAKKAM (1011 mb.)						NAGPUR/SONEGAON (979 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	285·9	290	282	277.7	31	015	295.2	299	292	293.7	31	311	287.1	293	284	285·7
1000	31	138	..	..	..	..	31	115	..	..	..	..	*31*	*136*	..	..	..	..
900	31	1029	288.8	295	284	273.8	31	1026	290.7	294	287	287.1	31	1035	289.9	293	287	280·8
850	31	1511	285.9	291	282	270.5	31	1514	288.0	292	284	282.5	31	1520	287.2	291	284	276·8
800	31	2017	282.9	287	280	266.9	31	2027	286.8	289	282	278.5	31	2030	284.4	289	280	272·5
700	31	3109	277.0	281	270	259.0	31	3145	282.4	285	279	269.8	31	3137	279.5	283	273	267·5
600	29	4344	269.6	274	263	..	31	4403	275.5	279	271	264.9	31	4385	272.4	276	267	259·5
500	28	5711	259.9	263	256	..	31	5856	266.9	271	263	..	31	5818	264.1	267	257	..
400	28	7425	248.1	253	240	..	31	7564	255.6	259	251	..	31	7509	252.5	260	242	..
300	27	9465	235.5	242	231	..	30	9655	240.0	245	233	..	31	9582	238.8	246	232	..
250	23	10701	227.4	233	223	..	30	10910	229.7	237	221	..	31	10829	228.0	236	220	..
200	20	12158	217·6	225	211	..	30	12375	218.0	225	209	..	30	12298	217.7	226	212	..
175	20	13004	214.4	220	209	..	27	13202	208.2	217	205	..	29	13162	212·2	219	207	..
150	17	13969	211.7	218	206	..	26	14164	205.2	213	197	..	29	14092	206.5	211	201	..
125	16	15055	208.6	218	200	..	23	15250	200.0	211	193	..	25	15208	201.9	208	195	..
100	13	16445	206.6	215	194	..	22	16547	194.3	202	190	..	20	16503	198.0	205	190	..
80	6	17649	207.8	214	203	..	11	17776	195.8	209	191	..	16	17824	200·0	208	190	..
70							9	18560	195.9	200	193	..	12	18724	201·7	213	190	..
60							8	19454	198.5	208	193	..	11	19557	204·4	215	194	..
50							8	20524	202.4	212	191	..	11	20645	208·5	214	197	..
40							5	21782	205·0	209	203	..						

	NEW DELHI/SAFDARJUNG (992 mb.)						PORT BLAIR (1002 mb.)						SRINAGAR (847 mb.)					
Surface	31	209	282.9	287	279	278.5	31	079	296.6	299	294	294.7	28	1588	272·6	275	271	272.6
1000	30	144	..	..	..	..	31	100	..	..	..	..	26	236	..	..	..	..
900	30	1031	286.9	292	281	267.9	30	1018	292.4	296	289	290.8	26	1097	..	..	..	..
850	30	1510	284.4	289	280	265.1	30	1511	290.2	293	286	286.8	26	1556	..	..	..	..
800	30	2014	281.5	285	277	263.6	30	2028	288.0	291	282	283.2	26	2040	270.7	274	267	276.1
700	30	3105	274.7	281	269	257.3	30	3149	284.4	289	277	276.7	26	3092	266.8	271	261	..
600	30	4331	267.4	273	263	..	30	4419	276.5	283	273	269.0	26	4286	261.2	266	254	..
500	29	5740	258.1	263	253	..	30	5844	268.0	274	265	..	26	5656	251.8	256	248	..
400	29	7392	246.9	252	242	..	29	7597	257.5	266	253	..	26	7269	240.6	247	236	..
300	29	9421	234.5	244	230	..	29	9712	243.5	255	239	..	22	9237	227.3	237	223	..
250	26	10647	226.5	235	223	..	29	10981	233.6	237	229	..	19	10434	220.5	230	215	..
200	22	12106	219.5	226	212	..	29	12464	221.5	229	213	..	13	11854	216·3	226	211	..
175	21	12959	216.6	221	207	..	27	13314	214.2	224	203	..	9	12663	214·4	218	212	..
150	20	13930	212.9	219	204	..	22	14285	207.8	214	198	..	6	13637	213·3	218	212	..
125	12	15098	210.4	216	203	..	17	15395	202.9	214	190	..						
100	10	16507	210.8	218	202	..	15	16733	196.9	206	193	..						
80	5	17832	211·8	223	202	..	11	18051	197.5	207	193	..						
70							10	18835	199.2	209	190	..						
60							6	19841	203.6	212	194	..						
50																		

RADIOSONDE DATA

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

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

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1004 mb.)						VISHAKHAPATNAM Surf, Pr. (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean.	Max.	Min.	Dew point
Surface	31	064	297.4	299	296	294.6	31	041	294.8	297	292	288.4
1000	31	092	..	..	..	..	31	127	..	..	..	..
900	31	1014	292.1	294	289	288.2	31	1037	290·0	294	287	283.2
850	31	1504	289.4	292	287	285.5	31	1524	288.1	291	285	276.7
800	31	2019	286.9	291	285	282.0	31	2039	286.6	291	282	271.2
700	31	3135	281.5	285	278	274.6	31	3153	281.9	285	277	262.5
600	31	4394	274.3	278	271	266.4	31	4413	275.1	279	271	255.7
500	31	5840	266.7	270	263	..	31	5863	266.5	272	258	..
400	31	7550	256.1	263	251	..	31	7576	256.2	264	251	..
300	28	9637	239.1	245	235	..	29	9677	240.9	247	236	..
250	26	10891	228.9	234	221	..	26	10924	230.6	236	225	..
200	23	12361	217.5	221	213	..	24	12392	220.8	227	212	..
175	20	13127	211.0	218	206	..	24	13226	212.2	222	200	..
150	20	14132	204.3	211	198	..	24	14191	206.5	217	197	..
125	20	15185	199.0	204	194	..	22	15273	201.7	208	194	..
100	16	16502	194.6	200	189	..	22	16593	196.1	203	183	..
80	14	17845	194.9	200	189	..	17	17950	197.2	202	193	..
70	12	18536	197.0	203	190	..	12	18683	198.3	203	193	..
60	8	19408	200.3	207	197	..	9	19564	201.9	208	197	..
50							8	20751	207.5	215	201	..

RADIOSONDE DATA

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

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

December, 1962 (Agrahayana 10— Pausa 10, 1884 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1007 mb.)						ALLAHABAD/BAMHRAULI (1004 mb.)						BANGALORE (910 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	302.0	304	299	288.1	31	098	294.5	298	288	285.4	31	921	296.6	299	293	288.6
1000	31	114	..	..	..	..	31	132	..	..	..	..	31	095	..	..	..	..
900	31	1036	292.7	296	290	281.9	31	1037	288.9	294	285	275.0	31	1019	295.8	297	291	287.5
850	31	1526	288.5	292	285	278.7	31	1520	286.3	291	284	270 0	31	1514	292.0	296	287	285.3
800	31	2038	285.1	289	281	274.0	31	2028	283.2	287	279	266.7	31	2032	287.5	291	284	282.4
700	31	3144	278.7	283	275	264.6	31	3127	277.2	282	272	258.7	31	3151	282.3	287	278	271.5
600	31	4392	272.1	277	268	258.3	31	4365	270.3	275	267	..	31	4418	275.8	280	270	264.0
500	31	5829	263.2	269	259	..	31	5787	261.3	266	258	..	31	5873	267 9	271	263	..
400	31	7511	251.1	257	246	..	30	7463	250.6	257	244	..	30	7588	255.9	262	251	..
300	31	9575	237.6	245	230	.	26	9517	237.6	245	231	..	25	9680	240.5	245	233	..
250	31	10812	227.2	235	221	..	23	10760	228.9	235	222	..	21	10931	230.0	238	221	..
200	30	12254	217.1	223	209	..	18	12200	219.5	226	214	..	18	12395	218.2	224	213	..
175	27	13101	211.5	220	201	..	16	13048	215.0	223	206	..	17	13227	213.2	218	207	..
150	27	14050	206.4	215	196	..	13	14019	211.1	219	207	..	14	14186	206.1	213	201	..
125	27	15147	203.4	211	196	..	10	15129	206.1	210	200	..	13	15282	200.6	206	194	..
100	26	16476	202.5	215	195	..	6	16483	205.0	208	199	..	8	16564	195.5	200	191	..
80	20	17808	205.4	216	194	..							6	17727	197.2	202	192	..
70	15	18580	209.2	214	196	..							6	18598	198.0	206	195	..
60	9	19510	206.9	219	204	..												
50	8	20595	209.9	221	208	..												

Standard Pressure Surface mb.	BOMBAY/SANTA CRUZ (1010 mb.)						CALCUTTA/DUM DUM (1014 mb.)						GAUHATI (1008 mb.)					
Surface	31	013	301.5	304	299	291.5	31	006	295.7	301	292	287.5	31	049	294.1	297	290	289.1
1000	31	102	..	..	..	..	31	122	..	..	..	..	31	117	..	..	..	..
900	31	1027	294.3	298	291	294.3	31	1030	289.5	296	285	276.5	31	1024	289.0	293	286	282.2
850	31	1519	290.2	294	287	278.2	31	1515	287.6	293	283	270.0	31	1507	285.3	289	283	278.3
800	31	2033	285.5	290	283	274.0	31	2027	285.3	289	281	267.0	31	2013	281.9	287	279	274.2
700	31	3148	281.5	286	278	263.7	31	3135	280.3	284	275	260.4	31	3107	275.9	281	272	264.3
600	31	4406	274.7	276	271	259.9	31	4388	273.5	278	269	253.9	30	4348	270.9	275	265	257.0
500	31	5855	266.5	270	263	..	31	5828	265.1	271	259	..	30	5770	262.2	272	255	--
400	31	7561	254.8	260	251	..	31	7527	254.0	261	248	..	30	7454	251.4	261	249	--
300	29	9648	240.1	245	235	..	31	9616	240.8	248	235	..	14	9526	238.8	249	229	--
250	29	10909	231.2	237	227	..	30	10881	232.5	239	226	..	10	10815	231.6	238	222	--
200	24	12384	220.2	229	214	..	28	12377	222.8	230	215	..	9	12302	221.5	229	215	..
175	17	13229	215.0	219	210	..	16	13236	215.6	224	207	..	7	13201	215.6	223	207	..
150	15	14182	209.1	212	205	..	13	14220	211.1	220	201	..						
125	8	15276	204.1	208	201	..	6	15352	209.0	215	202	..						
100	6	16608	200.5	204	199	..	5	16754	205.0	209	201	..						
80																		
70																		
60																		
50																		
40																		

RADIOSONDE DATA

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

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

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (989 mb.)						MADRAS/MINAMBAKKAM (1011 mb.)						NAGPUR/SONEGAON (978 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	297.3	302	291	280.2	31	015	299.4	301	298	294.0	31	311	296.7	299	292	286.1
1000	31	126	..	..	..	..	31	108	..	..	..	..	31	121	..	..	..	..
900	31	1036	291.4	296	287	275.4	31	1024	291.1	296	282	288.6	31	1036	291.6	297	290	282.2
850	31	1519	287.4	291	282	271.9	31	1512	288.5	295	285	284·4	31	1524	288.7	294	286	277.7
800	31	2023	283.8	287	279	269.0	31	2025	286.5	292	282	278.1	31	2036	285.8	289	283	272.9
700	31	3122	277.3	282	272	260.4	31	3142	281.6	286	272	271.2	31	3147	280.3	284	274	263.8
600	31	4363	270.4	275	266	..	31	4403	275.4	279	272	264.7	31	4400	273.6	278	271	260.6
500	31	5785	261.2	264	255	..	31	5855	267.0	271	261	..	31	5843	265.3	269	261	..
400	30	7461	250.2	256	247	..	31	7565	255.6	262	251	..	31	7540	253.4	258	250	..
300	23	9523	237.0	242	233	..	31	9656	239.7	248	234	..	31	9621	238.5	246	231	..
250	20	10782	229.2	235	223	..	29	10922	230.4	238	224	..	31	10870	228.7	236	222	..
200	19	12257	220.9	230	215	..	29	12338	218.7	227	213	..	31	12333	217.1	225	211	..
175	18	13104	216.7	221	209	..	24	13223	211.2	219	202	..	29	13197	211.7	219	207	..
150	15	14072	213.3	219	207	..	21	14206	205.5	215	194	..	28	14086	205.8	215	198	..
125	15	15203	209.0	216	201	..	18	15241	200.3	208	189	..	26	15194	201.4	208	198	..
100	13	16572	208.0	213	197	..	16	16534	196.8	202	191	..	22	16516	197.8	206	192	..
80	10	17936	210.8	219	202	..	13	17808	197.2	204	193	..	17	17848	199.6	207	193	..
70	10	18775	213.0	223	207	..	7	18587	198·0	206	193	..	17	18635	201.5	210	197	..
60	5	19703	214.6	218	211	..	5	19455	203.0	210	194	..	14	19573	205.2	211	199	..
50												..	12	20647	208.5	215	201	..
40													7	22071	212.5	216	210	..

	NEW DELHI/SAFDARJUNG (991 mb.)						PORT BLAIR (1002 mb.)						SRINAGAR (846 mb.)					
Surface	31	207	292.3	295	287	282.5	31	079	298.2	299	296	295.1	31	1588	275.5	281	273	273.4
1000	31	136	..	..	..	..	31	092	..	..	..	..	31	210	..	..	..	..
900	31	1033	287.0	291	282	273.5	31	1011	292.8	295	289	291.5	31	1083	..	..	..	..
850	31	1514	284.3	287	282	266.9	31	1502	289.6	293	281	287.1	31	1550	..	..	..	..
800	31	2018	281.6	285	279	265.1	31	2019	288.0	292	283	282.1	31	1940	272.6	278	268	268.9
700	31	3107	274.3	278	271	260.2	31	3140	282.5	286	279	275.6	31	3095	268.7	273	262	..
600	31	4332	267.0	271	262	..	30	4405	275.9	279	273	269.7	31	4297	261.7	266	256	..
500	31	5735	257.8	262	253	..	29	5861	267.7	271	263	..	30	5671	252.4	258	247	..
400	31	7391	246.9	253	239	..	29	7576	256.8	262	251	..	29	7287	241.4	250	238	..
300	27	9422	234.7	243	230	..	29	9678	240.6	245	236	..	28	9270	227.8	233	223	..
250	26	10634	227.6	236	221	..	28	10935	230.5	236	223	..	22	10482	221.6	232	215	..
200	23	12111	220.4	226	213	..	27	12406	218.1	227	211	..	13	11876	217.0	227	210	..
175	22	12972	217.1	223	211	..	22	13219	210.3	220	207	..	10	12746	217.0	223	213	..
150	20	13939	213.5	222	207	..	19	14187	209.7	215	197	..	7	13692	219.6	220	213	..
125	16	15059	210.4	216	204	..	16	15288	199.1	211	195	..	5	14832	213.6	217	208	..
100	12	16442	209.8	216	201	..	13	16605	194.8	206	190	..						
80	8	17841	210·4	216	207	..	7	17822	193.9	197	190	..						
70	7	18637	212·0	219	201	..												
60	5	19632	215·8	221	210	..												

RADIOSONDE DATA

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

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

December, 1962 (Agrahayana 10—Pausa 10, 1884 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1002 mb.)						VISHAKHAPATNAM Surf. Pr. (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	301.6	303	299	295.7	31	041	298.5	300	297	290.9
1000	31	083	..	..	..	..	31	119	..	..	..	..
900	31	1008	294.2	297	291	290.0	31	1035	291.2	295	288	283.3
850	31	1505	290.8	294	288	287.3	31	1524	289.1	292	285	277.1
800	31	2021	288.2	291	286	283.1	31	2039	287.1	289	282	272.1
700	31	3143	282.3	285	280	275.2	31	3156	281.5	285	277	267.3
600	31	4407	275.7	280	271	267.4	31	4418	275.3	279	271	257.3
500	31	5861	267.9	272	263	..	31	5867	266.3	271	261	..
400	31	7581	257.3	262	251	..	31	7593	255.0	260	251	..
300	27	9682	241.2	246	236	..	30	9666	240.0	246	233	..
250	25	10940	230.4	235	225	..	29	19024	230.2	240	221	..
200	24	12405	217.6	226	211	3.	28	12395	219.5	228	214	..
175	24	13234	211.3	221	205	..	25	13244	213.8	222	207	..
150	22	14193	204.7	212	198	..	24	14207	208.2	215	202	..
125	21	15249	199.8	208	191	..	23	15292	202.4	208	196	..
100	19	16568	196.6	204	191	..	20	16627	196.8	203	192	..
80	15	17875	199.9	210	191	..	16	17950	199·9	204	189	..
70	9	18712	199.0	209	197	..	16	18737	200.9	208	190	..
60	5	19585	199.0	202	197	3.	14	19664	205.3	216	197	..
50							12	20751	211·0	225	200	..
40												

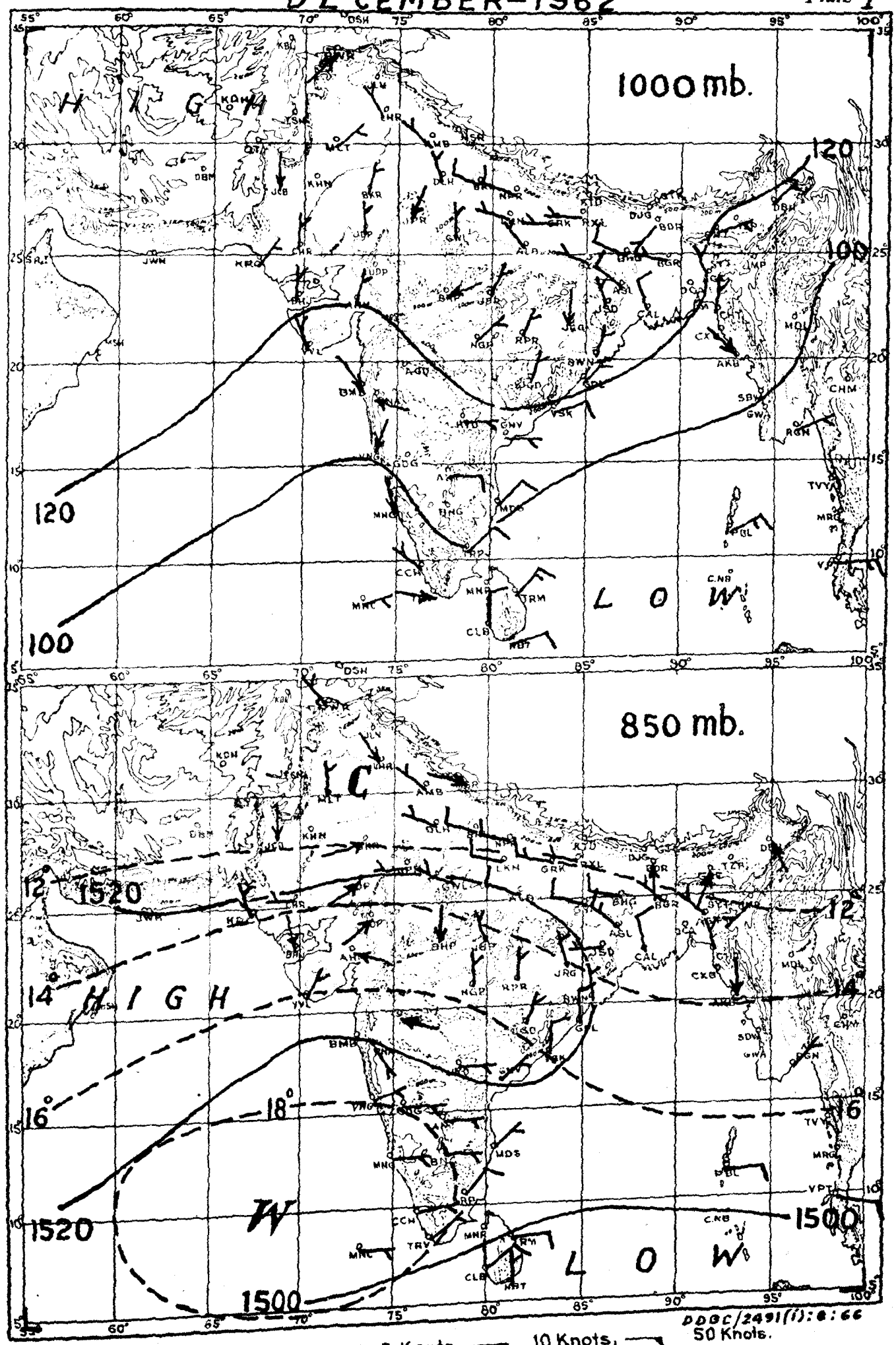
NOTE : Number of observation refer to those of dynamic height. Means are not worked out for temperature and dew point for the 1000 mb. Surface and for dew point for standard peressure surfaces with temperature less than 273° A.

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

GIPN—N5—26 D. D. G. Obs. (P)/67—31-10-67—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **DECEMBER-1962** Plate I



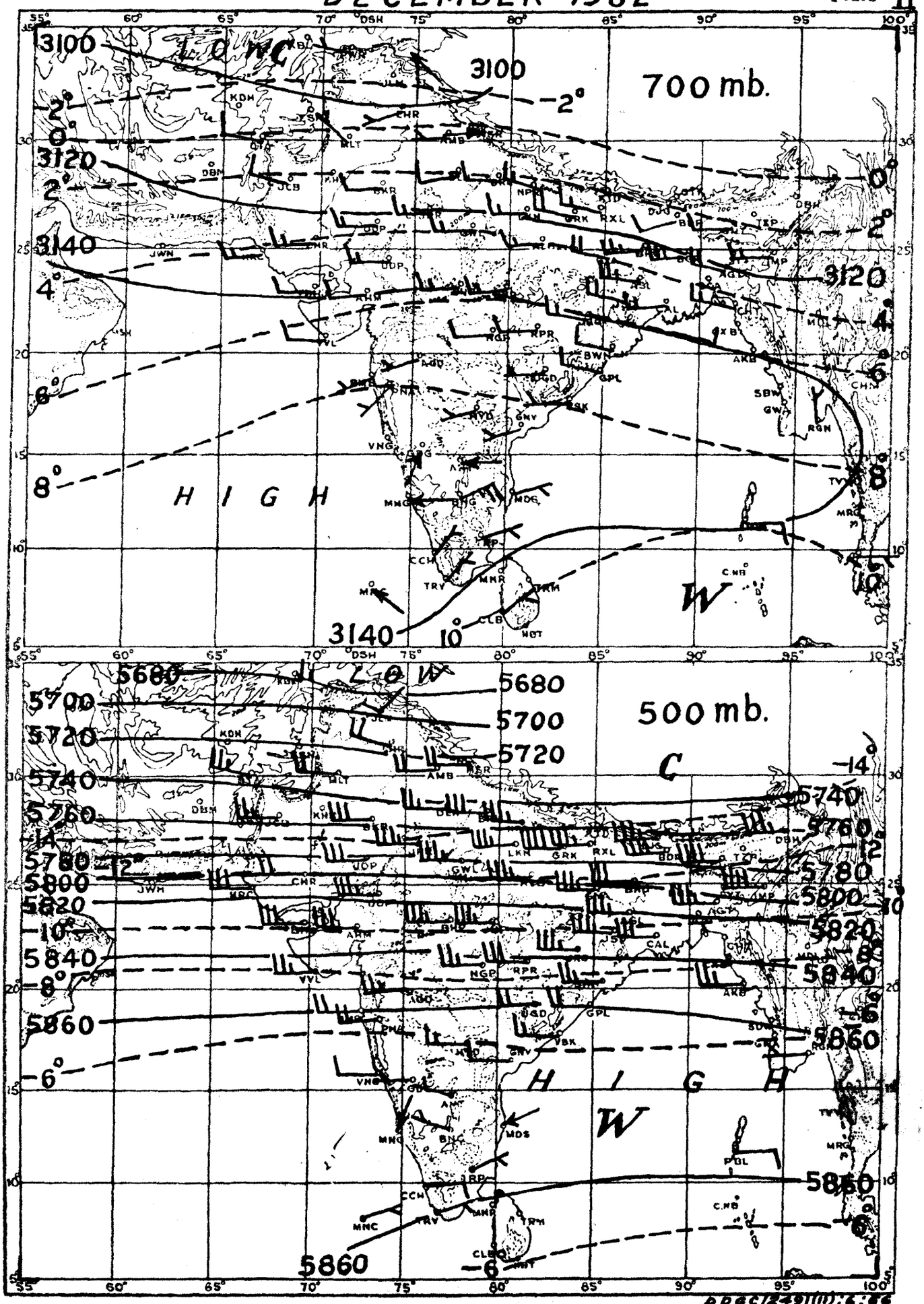
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

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

G.P.I.P. POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **DECEMBER-1962** Plate II



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

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

D.P.E.D. POONA, 1966