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India

(MONTHLY) WEATHER REVIEW

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CALCUTTA, JANUARY, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of January, 1916, is based on observations taken daily at 8 hrs. at 211 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

In the remaining monthly reviews of the present year the brief statements of the methods of recording and tabulating the data, for each of the elements of observation, given in the present number at the commencement of each section, will not be repeated.

New normals of pressure, temperature, humidity and cloud derived from the records of the years prior to 1911 have been used from January 1915 in Tables B and C of the review.

Summary of the chief features of the weather in India during the month.

2. A number of cold weather depressions were transmitted from Persia into north-west India, but only one of these was important. This occurred towards the end of the month and was the cause of nearly general precipitation in Baluchistan, the North-West Frontier Province and Kashmir, with local rain in the east and north Punjab and the adjoining districts of the United Provinces.

The only divisions which obtained effective rainfall, *i. e.*, a total fall of a tenth of an inch or over during the month, were Assam, Kashmir, the North-West Frontier Province and Baluchistan; of these Baluchistan had 34 per cent. more than its normal supply and Assam an average fall, while Kashmir and the North-West Frontier Province obtained less than 40 per cent. of the normal amount. In the regions of little or no rainfall the defect was below half an inch except in the case of the Bay Islands, Bihar and Orissa, the United Provinces, the Punjab East and North, Central India East and Madras South-east, where it ranged between 0·5″ and 1·2″.

Owing to the absence of rain-producing winter depressions temperature was appreciably high in north-west India and relative humidity was largely below the average in the United Provinces, the Punjab, Rajputana, Central India and the Central Provinces. The amount of cloud was decidedly less than usual in Bihar, the United Provinces, Mysore and south Madras.

Barometric pressure averaged over the plains of India was higher than usual by ·024″.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The weather was very favourable for solar observations and the sun was examined for spots, faculæ and prominences on every day of the month.

Sunspots.—Twenty new groups of spots were observed as against 15 in December and 19 in November. The mean daily number was 3·4 and the average life of a spot was 4·8

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September 14, 1999

days, as compared with 3·1 and 6 days respectively in the preceding month. The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North . .	1	6	4	1	18°·8	7° & 32°
South . .	...	7	1	...	17°·5	12° & 21°

Prominences.—One hundred and twenty-nine large, ten eruptive, and six metallic prominences were observed in the month. The highest was an eruptive prominence recorded on the 18th at latitude +24° west which reached to a height of 280″.

Magnetic disturbances.—There was one prolonged disturbance from the 10th to 13th. The large and active spot No. 2317 crossed the central meridian on the 12th.

T. ROYDS,
for *Director*,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2343$m. *Subsoil* Rock.
Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	17·9	1	2·3
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Jan. 1st	P	... ...	...	...	...	...	...	No P. Ts.
	i L	13 32 36	...	...	...	...	...	
Jan. 1st	M	14 13 12	...	...	830	...	...	
	F	17 28 00	...	...	...	...	...	
„ 13th	e P	6 27 48	...	...	...	...	...	Overlapping.
	i L	6 48 06	...	...	...	...	...	
	M	6 49 42	...	...	50	...	...	
	F	?	...	...	...	...	...	
„ 13th	e P	8 30 42	...	...	...	...	...	
	i L	8 38 42	...	...	...	...	...	
	M	8 55 00	...	...	650	...	...	
	F	12 21 48	...	...	...	...	...	
„ 19th	e P	19 18 42	...	...	...	...	...	Widening of line.
	F	20 29 30	...	...	...	...	...	
„ 24th	i P	7 09 36	...	...	...	...	...	
	i L	7 13 48	...	...	...	...	...	
	M	7 35 54	...	...	490	...	...	
	F	8 55 30	...	...	...	...	...	
„ 26th	e P	8 13 18	...	...	...	...	...	Widening of line.
	F	8 38 12	...	...	...	...	...	
„ 26th	e P	13 23 00	...	...	...	...	...	Widening of line.
	F	14 09 54	...	...	...	...	...	
„ 30th	e P	21 39 48	...	...	...	...	...	Widening of line.
	F	22 04 00	...	...	...	...	...	
„ 31st	e P	18 40 18	...	...	...	...	...	
	L	...	...	...	...	...	...	
	M	19 29 12	...	...	50	...	...	
	F	20 10 54	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of January 1916 the traces showed 15 calm days, 14 days of small and 2 days of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 1st, 8th, 18th, 19th, and 30th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	C	9	S	17	C	25	S
2	C	10	S	18	C	26	S
3	C	11	M	19	C	27	C
4	S	12	M	20	S	28	C
5	C	13	S	21	S	29	S
6	C	14	S	22	S	30	C
7	S	15	C	23	S	31	C
8	C	16	C	24	S		

C = calm ; S = small; M = moderate ; G = great ; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follow :—

Easterly declination . . .	0° 38′ 33″
Horizontal force	0·36872 C. G. S. unit.
Vertical force	0·16746 C. G. S. unit.
Inclination	24° 25′·5.
Horizontal force range . . .	0·00029 C. G. S. unit.
Horizontal force summed range .	0·00183 C. G. S. unit.
Declination range . . .	2′·3.
Declination summed range . .	9′·7.

(NOTE.—Summed range means sum without regard to signs of the twenty-four ordinates of the diurnal inequality).

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m. *Subsoil* Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ε	r / To²
AN :				
AE :	9	21	1	
AZ :				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (u) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Jan. 1st	P	13 33 10	...	...	...	...	...	
	M	14 14 3	...	...	400	...	...	
	F	17 43 16	...	...	...	...	...	
" 7th		13 43 to 47m.	...	...	...	...	...	Thickening of line.
" 9th		11 44 00	...	...	...	...	...	"
" 10th		19 6 to 10m.	...	...	...	...	...	"
" 13th	P	6 27 31	...	...	...	...	...	
	M	6 58 47	...	...	67	...	...	
	F	8 22 47	...	...	...	...	...	
" 13th	P	8 31 39	...	...	...	...	...	
	M	8 54 2	...	...	389	...	...	
	F	12 4 54	...	...	...	...	...	
" 17th		13 23 00	...	...	...	...	...	Thickening of line.
" 24th	P	7 3 47	...	...	...	...	...	
	M	7 20 35	...	...	322	...	...	
	F	8 43 59	...	...	...	...	...	
" 26th	P	7 48 12	...	...	...	...	...	
	M	8 11 50	...	...	56	...	...	
	F	8 28 30	...	...	...	...	...	
" 26th	P	13 1 6	...	...	...	...	...	
	M	13 34 45	...	...	56	...	...	
	F	13 59 20	...	...	...	...	...	
" 31st	P	18 41 37	...	...	...	...	...	
	M	19 24 9	...	...	44	...	...	
	F	19 58 29	...	...	...	...	...	

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·29.″

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories

5 —CALCUTTA (ALIPORE) OBSERVATORY.

Seismograph dismantled.

The barometers are in all cases situated in masonry buildings to protect them as much as possible from rapid changes of temperature.

Those heights above mean sea-level of the barometers of all stations given in Table B or Table A, which have been obtained accurately by actual measurement, are given in Roman figures. In the great majority of cases they have been referred to datum levels determined by the Great Trigonometrical Survey of India; of the remaining stations those heights which have been determined barometrically are printed in italics, and those which are only approximate are indicated by notes of interrogation.

The readings of the barometers are reduced to 32°F., and from 1st January 1905, have been corrected to constant gravity in all cases. They are reduced to sea-level in the cases of stations the elevations of which are accurately known and are below 3,200 feet. Each reading is separately corrected and the means of the month are the means of the daily corrected readings.

In table B(2), columns 4 to 11, under the general heading "Pressure, 8 hrs. in inches," are given for each station the 8 hrs. barometric data of the month, including—

(1) The mean 8 hrs. pressure reduced to 32°F., and its departure from the normal mean pressure (reduced to 32°F.) of the month.

(2) The mean 8 hrs. pressure corrected to sea-level and to constant gravity, or to constant gravity only in cases of stations the elevations of which are above 3,200 feet.

(3) The highest and lowest pressures (reduced to 32°F.) recorded during the month with their respective dates of occurrence.

(4) The total range of 8 hrs. pressure during the month, *i.e.*, the difference between the highest and lowest readings.

In Table A, columns 4 to 9, under the general heading "Pressure," are given for all stations recording observations at 10 hrs. and 16 hrs.—

(1) The monthly means of the two hours of observation at 10 hrs. and 16 hrs. reduced to 32°F.

(2) The mean daily range.

(3) The mean of daily mean pressure reduced to 32°F. and its departure from the normal.

(4) The mean of daily mean pressures reduced to 32°F., and corrected to constant gravity and to sea-level, or to constant gravity only in cases of stations the elevations of which are above 3,200 feet.

The means of daily pressures in Table A have been obtained by taking the means of the 10 hrs. and 16 hrs. observations and applying corrections for each month, derived from a series of hourly observations recorded at the same or neighbouring stations, to give true daily means.

The distribution of the mean 8 hrs. pressure of the month is shown on two charts. The first chart (Plate I) gives the distribution of the mean pressure of the month reduced to sea-level and to constant gravity (that of lat. 45) by means of isobars drawn for differences of pressure of 0·05 or $\frac{1}{20}$ of an inch. The second chart (Plate II) gives the departures from the normal of the actual mean 8 hrs. pressure reduced to 32°F.

The greater part of the normal 8 hrs. daily and monthly means of pressure utilised in Table B of the review have been deduced from the barometric observations of the whole of the twenty-two years' period 1889-1910, and in all except 24 cases the periods employed equalled or exceeded five years.

The monthly means employed in the determination of the departures of the mean actual from the mean normal pressures of the month given in Table A are derived from all the available trustworthy pressure data down to 1899 for each station. These normal means are given in the "Indian Meteorological Memoirs," Vol. XVII, pages 66 to 69.

The more important barometric changes and movements during the month are described in the statement of depressions and cyclonic storms of the month. The data that are chiefly used in that discussion are the 8 hrs. reduced observations and the departures derived from comparison of these observations with the normal daily 8 hrs. values.

Barometric pressure was above normal at all the recording stations in the plains with the solitary exception of Dera Ismail Khan; the excess was least in the Indus valley (about ·01″) and greatest in southern Burma, Madras and Mysore (·035″).

The vertical gradient was somewhat steeper than usual in the Sind-Baluchistan area as well as in the Central Provinces and southern India, of average value in north-east India and Rajputana and weak over the Punjab.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	+·026
Assam	+·015
Bengal	+·019
Bihar and Orissa	+·024
United Provinces	+·024
Punjab	+·021
North-West Frontier Province	—·001
Sind	+·010
Rajputana	+·017
Bombay	+·026
Central India	+·026
Central Provinces	+·030
Hyderabad	+·032
Mysore	+·035
Madras	+·035

TABLE 9.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A
	"		"	"
Quetta . . .	0	Jacobabad . .	+·019	+·019
Leh . . .	+·060	Lahore . . .	+·020	—·040
Murree . . .	+·052	Peshawar . .	+·004	—·048
Simla . . .	+·043	Ludhiana . .	+·028	—·015
Darjiling . .	+·007	Dhubri . .	+·015	+·008
Mount Abu . .	+·035	Deesa . . .	+·033	—·002
Pachmarhi . .	+·020	Khandwa . .	+·037	+·017
Kodaikanal . .	+·014	Madura . .	+·034	+·020

Temperature.

11. The mean temperature data are given in Tables A and B under the heading "Temperature of Air." In Table B they are based upon observations of the dry bulb thermometers recorded at 8 hrs., and of the maximum and minimum thermometers. In the great majority of cases the normals of maximum and minimum temperature for the stations in Table B are derived from the data of the 33 years, 1878—1910; in the case of some of the most recently started observatories the period is shorter, but it is never less than five years. The normals are given in the "Indian Meteorological Memoirs," Volume XXII, Part III, pages 426-457. The monthly mean of the mean between maximum and minimum, as given in this table, differs from the true mean of the day by a small amount which varies from month to month.

It should be noted for the purposes of Table B that the mean temperature of the day really denotes the mean temperature of the 24 hours preceding 8 hrs. of the day in question and that therefore the month for which the means are given in this table terminates at 8 hrs. of the last day of the month. In the case of Table A, however, the day or 24 hrs. period terminates at midnight (and not at 8 hrs. as in Table B) and the monthly means apply therefore to monthly periods ending at midnight of the last day of the month in question.

In Table A the mean of daily mean temperatures for each month is obtained by taking the mean of the maximum and minimum temperatures and applying a correction given on pages XV to XXI of Volume XVII of the "Indian Meteorological Memoirs." This correction was determined from the hourly observation data given in Volumes V, IX and X of the "Indian Meteorological Memoirs." The data at once furnish the necessary corrections for the stations at which these observations were recorded. At the remaining stations the corrections were determined from the values at the nearest stations with similar condition of exposure, etc., at which the hourly observations were recorded.

The departures from normal of the mean daily mean temperature of the month given in Table A have been obtained by a comparison of the actual means with normal means given in the "Indian Meteorological Memoirs," Volume XVII, pages 16 to 20.

The methods of exposing thermometers will be found fully described in the Hand-book of instructions to observers in India, or briefly in the Annual Report on the Meteorology of India for the year 1887, page 37. All thermometers in use have been verified by comparison with Kew standard thermometers at Calcutta and are re-standardised from time to time: all thermometer readings are corrected to their true values, and hence are strictly comparable.

The mean distribution of temperature in India in each month is exhibited by the help of three charts, which show the departures of the mean maximum, mean minimum and mean daily temperatures from their normal values for the month. These charts are given in Plates III and IV. In them equal departures of temperature are indicated by lines, the lines being drawn for differences of 2 degrees of departure. A continuous line indicates that the temperature was in excess by the amount shown by the number given near the line, and a broken line that it was in defect by the amount indicated by the number similarly placed. The line of no departure, separating areas of excessive from areas of deficient temperature, consists of a continuous and of a broken line placed parallel and near to each other, the broken line being on the side of deficient temperature, and the continuous line on that of excessive temperature. The departures of the temperature of the month from the normal at the hill-stations are given in figures with a positive or negative sign to indicate excess or defect; they are not taken into account when the lines are drawn.

Maximum temperature was low by about 4° on the south coast of Burma, and in excess between 2° and 7° in north-west India; while minimum temperature was in defect by 3° in the Bay Islands, Tenasserim and Central India East, and above normal by 4° in the south-west Punjab and the hill districts of the North-West Frontier Province, and by 3° in Sind and Gujarat. Over the rest of the country the temperature conditions of the month were very nearly normal.

Temperatures much above the normal occurred over north-west India from the 27th onwards in connection with the last disturbance of the month, but owing to the feebleness of the depressions and their failure to advance eastwards beyond north-west India no marked hot and cool waves were experienced over northern India.

TABLE 10.

Sub-division.	Actual temperature.					Departure from normal on		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
1. Bay Islands	84·5	72·8	78·6	11·7	18·7	—1·9	—2·8	+0·9
2. Lower Burma	83·3	63·3	73·3	20·0	28·1	—2·7	—1·7	—1·0
3. Upper Burma	79·3	53·5	66·4	25·8	33·6	—0·9	+0·7	—1·6
4. Assam	73·5	52·3	62·9	21·1	29·8	+0·3	+1·5	—1·2
5. Bengal	77·2	53·4	65·3	23·8	33·6	—0·1	—0·7	+0·6
6. Orissa	80·5	56·4	68·4	24·1	35·3	—0·2	—1·3	+1·1
7. Chota Nagpur	77·0	48·9	62·9	28·1	41·7	—0·3	—2·6	+2·3
8. Bihar	74·5	48·8	61·7	25·7	35·7	+0·4	—1·6	+2·0
9. United Provinces, East	74·1	46·5	60·3	27·7	40·5	+1·0	—1·3	+2·3
10. Do., West	74·4	45·3	59·9	29·1	43·4	+2·8	—1·7	+4·5
11. Punjab, East and North	71·7	42·5	57·1	29·1	44·3	+4·5	—0·1	+4·6
12. Do., South-west	72·1	44·1	58·1	28·0	39·9	+3·9	+3·6	+0·3
13. Kashmir	42·3	20·5	31·5	21·8	37·5	+3·7	+2·1	+1·6
14. North-West Frontier Province	68·6	40·7	54·7	27·9	42·8	+2·8	+0·7	+2·1
15. Baluchistan	62·2	37·0	49·6	25·2	43·1	+4·3	+2·2	+2·1
16. Sind	77·4	53·3	65·4	24·1	37·5	+2·4	+2·6	—0·2
17. Rajputana, West	78·1	50·7	64·4	27·4	45·9	+4·3	+1·7	+2·6
18. Do., East	77·5	49·1	63·3	28·4	46·4	+3·3	+1·1	+2·2
19. Gujarat	84·6	57·3	71·0	27·3	41·8	+2·6	+2·8	—0·2
20. Central India, West	80·3	50·0	65·1	30·3	46·1	+2·0	+0·9	+1·1
21. Do., East	74·9	44·5	59·7	30·4	47·0	+0·5	—3·0	+3·5
22. Berar	84·1	57·1	70·6	27·1	38·6	+0·2	+0·1	+0·1
23. Central Provinces, West	80·5	50·7	65·6	29·8	44·0	+0·3	—1·3	+1·6
24. Do., East	81·0	52·3	66·7	28·7	40·2	—0·3	—0·6	+0·3
25. Konkan	85·4	68·5	77·0	16·8	24·9	+0·2	+1·1	—0·9
26. Bombay Deccan	85·9	56·0	71·0	29·9	41·0	—0·3	+0·9	—1·2
27. Hyderabad, North	84·3	58·3	71·3	26·1	37·7	—0·4	+0·8	—1·2
28. Do., South	86·2	62·5	74·3	23·7	34·0	—0·1	+1·1	—1·2
29. Mysore	81·9	57·7	69·8	24·2	31·9	—0·7	—0·7	0
30. Malabar	88·2	69·8	79·0	18·4	24·3	+0·8	—1·0	+1·8
31. Madras, South-east	85·1	66·5	75·8	18·6	24·7	—0·3	—1·3	+1·0
32. Do. Deccan	87·7	63·0	75·3	24·7	34·6	—0·9	+0·6	—1·5
33. Do. Coast, North	82·1	65·3	73·7	16·8	26·2	—0·2	—0·2	0

TABLE 11.

DIVISION.	DEPARTURE FROM NORMAL OF		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—1·9	—0·6	—1·2
Assam	+0·3	+1·5	+0·9
Bengal	—0·1	—0·7	—0·4
Bihar and Orissa	+0·1	—1·8	—0·9
United Provinces	+1·7	—1·5	+0·1
Punjab	+4·3	+0·7	+2·5
North-West Frontier Province	+2·8	+0·7	+1·8
Sind	+2·4	+2·6	+2·5
Rajputana	+3·8	+1·4	+2·6
Bombay	+1·2	+1·8	+1·5
Central India	+1·3	—1·0	+0·1
Central Provinces	+0·1	—0·8	—0·3
Hyderabad	—0·3	+1·0	+0·4
Mysore	—0·7	—0·7	—0·7
Madras	—0·1	—0·7	—0·4

Winds.

12. The 8 hrs. wind data, consisting of observations of the direction of the wind and of the air movement as registered by Robinson anemometers, are given in Table B under the heading "Wind direction," "Wind velocity" and "Wind steadiness." In these columns are shown the number of days the wind at 8 hrs. blew from each of eight points, and the resultant direction of the wind, the mean hourly air movement and the steadiness derived from these observations. The wind resultant is calculated in all cases by the use of Lambert's formula, in which equal values are given to each wind observation irrespective of velocity. The mean wind directions are shown in Plate I by means of arrows in the usual manner.

The wind data for 10 hrs. and 16 hrs. are given in a similar form in Table A. Under the heading "Wind direction" are shown the number of times that each of eight wind directions was observed at the hours of record, and the directions of the resultant of winds of unit strength in these directions. The ratio of the magnitude of the resultant so obtained to that which it would have if the wind always blew from the same direction (*i.e.*, throughout the whole of the observations), is called the wind steadiness and is given as a percentage, with a table of normals, under the heading "Wind steadiness." The mean diurnal movement of the air at each station and the average monthly value are to be found under the heading "Wind velocity."

The figures of the normal values for wind used in Tables A and B are computed from all available data previous to 1899, or in some cases 1902, and have been published in Volume XVII of the "Indian Meteorological Memoirs."

All anemometers used in India are compared before issue with the standard Beckley anemograph at Calcutta Observatory, but as only the instruments with small corrections are issued no correction has been applied to the values given in Tables B and C.

(*a*) As might be expected from the absence of cold weather storms the winds were lighter than usual in most part of northern and central India as well as in the north of the Peninsula. In the south of the Peninsula, on the other hand, the velocity was above normal.

(*b*) The steadiness was much above normal in Assam, the United Provinces, the Punjab and the Central Provinces, and decidedly low in Bengal.

(*c*) The normal northerly element in the mean wind direction was appreciably weak in Burma, Bengal, the United Provinces, Central India and Rajputana. It is noteworthy that at the level of Leh southerly winds were entirely absent, the mean direction for the month being N. 23° E., as compared with the normal of S 13° W.

TABLE 12.

DIVISION.	DEPARTURE FROM NORMAL OF	
	Hourly wind velocity.	Wind steadiness.
Burma	0	+1
Assam	+0·4	+17
Bengal	—0·4	—11
Bihar and Orissa	—0·3	—6
United Provinces	—0·5	+7
Punjab	+0·1	+7
North-West Frontier Province	—0·5	—7
Sind	—0·9	—3
Rajputana	—0·7	—3
Bombay	—0·6	—4
Central India	—0·8	0
Central Provinces	—0·2	+10
Hyderabad	—0·9	+5
Mysore	+1·1	+
Madras	+0·1	0

Humidity and cloud.

13. The hygrometric data of the month registered at certain stations are given in Table A. In that table appear columns giving the means of the wet bulb readings at 10 hrs. and at 16 hrs., of the minimum wet bulb readings, of the vapour tension and humidity at the same hours, and also the mean of daily means of these elements and of its departure from the normal mean. The hygrometric data are taken from the departmental 'Tables for the reduction of meteorological observations.' The means of daily means are obtained by taking the means of the minimum, 10 hrs. and 16 hrs. observations and reducing them to true means, by applying, in case of vapour tension, the corrections given on pages XXXVIII to XLII, and in case of humidity the corrections given on pages XLIV to XLVIII of Volume XVII of the "Indian Meteorological Memoirs." These corrections were determined from the hourly observation data given in Volumes V, IX and X of the "Indian Meteorological Memoirs." The normal values, which have been used for obtaining the departures, are the means calculated in the same way.

The distribution of humidity in each month in India is exhibited by means of two charts in Plate V. The first chart shows the departure from normal of 8 hrs. absolute humidity, and the second that of the relative humidity.

The proportion of cloud is estimated in tenths of the sky expanse, an overcast sky being denoted by 10 and a cloudless sky by 0. The monthly means in Table A are the arithmetical means of the cloud amounts at 10 hrs. and 16 hrs., and the normal means, with which the actual monthly means are compared, are derived from the available cloud data for the same hours.

The departure from normal of the mean distribution of cloud amount at 8 hrs. in each month in India is shown in chart No. 1 of Plate VI, and the discussion of this and of the hygrometric features is based on the data given in Table B.

Normal values for most of the stations in Table B have been derived from the 8 hrs. records of the period 1889-1910.

The amount of water vapour in the air was below normal in all parts of the country with the exception of east Burma, Assam, north and east Bengal, the Indus valley, Baluchistan, the Bombay Presidency and north Madras. The greatest defect occurred over south Malabar, Ceylon, the Andamans and the extreme south of Burma. Departures of relative humidity were in general parallel with those of aqueous vapour, but while the largest defect in aqueous vapour was shown in the extreme south of the Indian region the maximum defect in relative humidity occurred over Rajputana, the south-east Punjab and the central parts of the United Provinces.

The cloud proportion was well below normal in the Andamans, Tenasserim, Bihar, Chota Nagpur, the United Provinces, the east of Central India, the Central Provinces, Mysore and Madras, and about the average or in excess elsewhere.

TABLE 13.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma . .	83	— 1	·502	—·032	3·3	+0·7
Assam . .	93	— 1	·418	+·017	4·5	0
Bengal . .	84	— 2	·407	—·027	1·3	—0·4
Bihar and Orissa .	74	— 6	·342	—·048	1·3	—0·8
United Provinces .	71	— 9	·271	—·040	0·9	—1·5
Punjab . .	67	—11	·219	—·032	3·2	—0·1
North-West Frontier Province.	71	— 1	·206	0	4·6	+0·7
Sind . . .	61	0	·291	+·015	3·6	+0·8
Rajputana . .	44	—14	·187	—·046	2·8	+0·1
Bombay . .	61	— 1	·396	+·001	1·2	—0·2
Central India .	58	— 8	·243	—·046	1·5	—0·7
Central Provinces .	57	— 6	·287	—·044	1·3	—0·8
Hyderabad . .	61	0	·427	—·007	1·5	—0·5
Mysore . .	68	— 4	·427	—·047	1·6	—1·4
Madras . .	76	— 3	·592	—·043	2·0	—1·0

Rainfall.

14. Rainfall observations are made at about 2,850 stations in India. The time of observation is 8 hrs. The rainfall data for each province are tabulated in the office of the Meteorologist, Director of Land Records, or other officer in the province, and are published in the provincial gazettes.

The charts illustrating the distribution of rainfall in the month under discussion are based in part upon the rainfall data of the meteorological observatories throughout India, and in part upon the rainfall statements of the month published by the Local Governments.

Plate VII is based on all the rainfall data available at the time of publication and shows the normal average rainfall and the departure of the rainfall from the normal of the month in the 33 meteorological or rainfall divisions.

The distribution of the total number of rainy days in each month is exhibited in chart No. 2 of Plate VI, and is based entirely on the data furnished by the meteorological observatories. A "rainy day" is one on which 0·10 inch or more of rain is received within 24 hours.

The normal figures of rainfall, and of the number of "rainy days," in Table B are based on observations which

extend in most cases over a period of 40 or 50 years ending in 1910.

The month's total rainfall was above normal by 34 per cent. in Baluchistan, up to the average in Assam, and in defect by upwards of 2″ or 61 per cent. in Kashmir and by 1″ or 69 per cent. in the North-West Frontier Province. Outside of these areas the month was rainless or almost so, whereas with ordinary conditions about an inch is received in the Bay Islands, Chota Nagpur, the United Provinces and the Punjab and about half an inch in Bengal, Bihar and Orissa, Central India, the Central Provinces and Madras, and a third of an inch in Sind and Rajputana.

On the average of the whole of the plains there was a defect of ·4″ or 89 per cent.

TABLE 14.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	0	1·7	0	1·01	—1·01	—100
2. Lower Burma	0	0·2	0	0·09	—0·09	—100
3. Upper Burma	0·2	0·3	0·05	0·11	—0·06	— 55
4. Assam	2·1	1·9	0·77	0·76	+0·01	+ 1
5. Bengal	0·2	0·9	0·05	0·44	—0·39	— 89
6 Orissa	0	0·9	0	0·51	—0·51	—100
7. Chota Nagpur	0	1·8	0	0·92	—0·92	—100
8. Bihar	0	1·2	0·01	0·59	—0·58	— 98
9. United Provinces, East	0	1·4	0	0·68	—0·68	—100
10. Do., West	0·1	2·0	0·02	0·94	—0·92	— 98
11. Punjab, East and North	0·3	2·2	0·07	1·23	—1·16	— 94
12. Punjab, South-west	0·1	1·2	0·06	0·48	—0·42	— 87
13. Kashmir	2·8	5·0	1·45	3·76	—2·31	— 61
14. North-West Frontier Province	1·9	2·6	0·47	1·50	—1·03	— 69
15. Baluchistan	3·3	2·7	1·68	1·25	+0·43	+ 34
16. Sind	0·3	0·7	0·08	0·27	—0·19	— 70
17. Rajputana, West	0·2	0·4	0·05	0·14	—0·09	— 64
18. Do., East	0	0·9	0·01	0·35	—0·34	— 97
19. Gujarat	0	0·1	0	0·04	—0·04	—100
20. Central India, West	0	0·7	0	0·30	—0·30	—100
21. Do., East	0	1·1	0	0·51	—0·51	—100
22. Berar	0	0·6	0	0·31	—0·31	—100
23. Central Provinces, West	0	1·0	0	0·48	—0·48	—100
24. Do., East	0	0·8	0	0·35	—0·35	—100
25. Konkan	0	0·2	0	0·10	—0·10	—100
26. Bombay Deccan	0	0·3	0	0·12	—0·12	—100
27. Hyderabad, North	0	0·2	0	0·11	—0·11	—100
28. Do., South	0	0·3	0	0·16	—0·16	—100
29. Mysore	0	0·2	0	0·12	—0·12	—100

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
30. Malabar	0	0·5	0	0·39	—0·39	—100
31. Madras, South-east	0	1·2	0	0·89	—0·89	—100
32. Do. Deccan	0	0·2	0	0·16	—0·16	—100
33. Do. Coast, North	0	0·3	0·01	0·35	—0·34	— 97

TABLE 15.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·03	0·10	—0·07	— 70
Assam	0·77	0·76	+0·01	+ 1
Bengal	0·05	0·44	—0·39	— 89
Bihar and Orissa	0·01	0·65	—0·64	— 98
United Provinces	0·01	0·82	—0·81	— 99
Panjab	0·07	1·04	—0·97	— 93
North-West Frontier Province	0·47	1·50	—1·03	— 69
Sind	0·08	0·27	—0·19	— 70
Rajputana	0·02	0·29	—0·27	— 93
Bombay	0	0·09	—0·09	—100
Central India	0	0·40	—0·40	—100
Central Provinces	0	0·38	—0·38	—100
Hyderabad	0	0·14	—0·14	—100
Mysore	0	0·12	—0·12	—100
Madras	0·01	0·60	—0·59	— 98
Mean of India	0·05	0·46	—0·41	— 89

Snowfall.

I.—AFGHANISTAN.

15. The statement below shows the character of snowfall in this area :—

TABLE 16.

Date of occurrence.	Locality.	Amount.
1st	Peaks of the Shakardara, Koh Urgan and Hindu Kush.	About an inch.
6th	Peaks of the Shakardara, Paghman and Hindu Kush.	About a foot.
11th	Kabul and all the surrounding hills.	About half an inch.
20th	Ditto ditto	About an inch.
23rd	Ditto ditto	About 6 inches.
30th	On the Paghman, Kila Qazi, Shakardara and Hindu Kush ranges.	About 2 feet.

At the close of the month snow to a depth of about 2 feet was reported to be still lying on the peaks of the Khak Jabbar, Paghman, Shakardara, Kila Qazi and Hindu Kush ranges.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—The character of snowfall in this region is illustrated by the following statement :—

TABLE 17.

Locality.	Elevation in feet.	Number of falls.	Total amount.
Pirghal and Marwatti	11,000	6	2 feet.
Bosh and Drenashtar	11,000	2	1 foot.

The snow had almost entirely melted away by the end of the month.

(*b*) *Tochi* (*North Waziristan*).—Moderate falls occurred on the hills on the 11th and 23rd; on the former date the snow line descended to the level of the Vezhda range.

(*c*) *Dera Ismail Khan.*—Slight falls occurred on the Takht-i-Suleman, Tur Ghar and Khaisar Ghar on the 10th, 23rd and 30th.

(*d*) *Kurram.*—Snow fell on eleven days (2nd, 6th, 7th, 9th, 11th, 12th, 20th, 24th, 28th, 30th and 31st) on all the peaks of the Sufed Koh, and on two days in Parachinar

(12th and 24th). At the close of the month the unmelted residue measured 3½ feet in depth on the Agam pass (elevation 11,730 feet) and 1½ feet on the Paiwar Kotal (elevation 8,450 feet).

(*e*) *Kohat.*—On the Samana range snow fell on the 21st and 23rd to a total depth of about 2 feet.

III.—KASHMIR.

The character of the snowfall in this area is indicated by the statement below :—

TABLE 18.

Locality.	Number of falls.	Aggregate amount.	REMARKS.
Srinagar . . .	4	About 3 inches .	Frequent falls occurred on the surrounding mountains.
Skardu . . .	8	About 3 inches .	Snowfall was heavy on the higher passes.
Dras . . .	14	Nearly 2 feet .	...
Kargil and the surrounding hills.	11	About 1½ feet in Kargil itself.	At the end of the month the unmelted residue on the hills varied between 3 inches and 1½ feet.

IV.—PUNJAB.

(*a*) *Murree and the hills adjacent to Kahuta.*—No snow fell.

(*b*) *Chamba.*—Snow storms occurred on the 6th, 7th, 11th, 12th, 17th, 20th, 23rd, 24th, 28th, 30th and 31st. On the 6th and 7th the fall extended over the whole state and descended to an elevation of 6,000 feet, 6 inches being measured at Kalatop (near Dalhousie) elevation 7,800 feet, 3 inches at Bharmaur on the upper Ravi elevation 7,000 feet, and 1 foot 2 inches at Khangu (elevation 6,500 feet) on the range between the Ravi and Chenab rivers. On the 11th and 12th the fall was confined to the northern part of the state, descending to an elevation of 7,000 feet, 3 inches being measured at Langera (elevation 7,500 feet) near the Kashmir border and 2 inches at Khangu. On the 17th, 20th and 28th the falls were confined to the eastern half of the state and snow only fell at elevations above 10,000 feet. The fall of the 23rd and 24th occurred in the northern portion of the state descending to an elevation of 7,000 feet, 5 inches being measured at Langera and 5 inches at Khangu. The storm of the 30th and 31st was also confined to the northern parts of the state, the lowest descent being to 5,000 feet; 11 inches were measured at Khangu.

The depth of snow accumulation at the end of the month was as follows :—

Bharmaur Forest Bangalow, elevation 8,000 feet, 3 inches.

Kothi, elevation 7,000 feet, 1½ inches.

Kalatop and the Chawari pass (elevation about 8,000 feet) were bare of snow.

The depth of snow on the higher passes is not known.

(*c*) *Kilba (Simla Hills).*—On the ranges near Kilba snowfall occurred on the 6th, 11th, 21st, 30th and 31st. The snowline descended to a level of 7,000 feet on the 11th. The accumulations at the close of the month measured 8 feet deep on the Shatul pass, 7 feet on the Rupin and Brua and 2 feet on the Harang.

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—Snow fell on the higher peaks in the north of the district on the 7th, 17th and 31st.

(*b*) *Almora.*—The total fall of the month was estimated at 8½ feet in Byans, 5¾ feet in Malla Darma, 4 feet in Malla Danpur and 2¾ feet in Chaudas. The snowline descended from the perpetual snows to a distance of nearly 3 miles in Chaudas and about a mile in Byans.

No snow fell in Malla Johar.

TABLE 19.

Name of pass or peak.		DEPTH OF ACCUMULATION AT THE END OF THE MONTH.	
		Reported.	Normal.
		Feet.	Feet.
Nuwe	pass	12	31
Binkaru	„	7½	27½
Lampia	„	7	7½
Lipulekh	„	5	17½
Pindari	peak	6	8½
Kaphini	„	6	8
Kuntala	„	6	8
Untadhura	. . . . .	6	18½

SUMMARY.

16. There was on the whole appreciably less snowfall than usual, and at the end of the month the unmelted residue of the accumulations was in general distinctly below the average in depth.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in January, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 11

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Pressure. Mean of 16 hrs.	Pressure. Mean daily range.	Pressure. Mean of daily mean pressures.	Pressure. Departure from normal.	Pressure. Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Temperature of air. Mean minimum.	Temperature of air. Mean daily range.	Temperature of air. Highest maximum.	Temperature of air. Lowest minimum.	Temperature of air. Absolute range.	Temperature of air. Mean 10 hrs.	Temperature of air. Mean 16 hrs.	Temperature of air. Mean of daily means.	Temperature of air. Departure from normal.	Temperature, Wet-bulb. Mean minimum.	Temperature, Wet-bulb. Mean 10 hrs.	Temperature, Wet-bulb. Mean 16 hrs.	Temperature, Wet-bulb. Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta	21	30·098	29·968	·130	30·023	+·005	29·991	77·6	54·9	22·7	82·9	49·4	33·5	69·4	76·1	65·2	0	53·3	60·4	61·8	58·5
	VI.—Punjab.																					
11	Lahore	702	29·399	29·298	·101	29·340	+·014	30·047	70·9	42·9	28·0	76·2	34·2	42·0	57·2	70·0	55·0	+2·0	40·7	49·4	55·6	48·6
	IX.—Rajputana.																					
18	Jaipur	1,421	28·653	28·548	·105	28·591	+·007	30·008	77·4	48·3	29·1	86·5	39·8	46·7	68·2	75·2	61·4	+1·5	41·5	52·1	55·3	49·6
	X.—Bombay.																					
	Bombay	37	30·045	29·925	·120	29·978	+·023	29·955	84·2	69·3	14·9	88·7	64·5	24·2	75·6	80·8	75·9	+1·4	62·2	68·3	71·1	67·2
	XIV.—Mysore.																					
29	Bangalore	3,021	27·085	26·964	·121	27·023	+·037	29·896	80·8	55·9	24·9	87·3	51·2	36·1	72·1	78·9	67·3	−0·2	54·6	60·6	61·8	59·0
	XV.—Madras.																					
31	Pudukkottai	318	29·765	29·632	·133	29·699		29·949	85·8	66·3	19·5	88·9	63·4	25·5	78·4	84·0	76·1			68·9	68·9	
	Madras	22	30·083	29·972	·111	30·024	+·028	29·978	85·1	66·4	18·7	86·5	62·6	23·9	81·0	81·9	74·9	−0·4	64·9	71·6	71·8	69·3
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sanain		23·215	23·144	·069	23·167		23·129	48·8	28·6	20·2	54·8	22·6	32·2	39·3*	40·7	48·8					
	Kalatagh																					
	Katmandu	4,388	25·809	25·710	·099	25·753	+·066†	25·708	63·7	37·6	26·1	70·2	33·8	36·4	48·2	60·5	50·0	+0·4†	36·0	45·1	50·9	44·0
	Kodaikanal	7,088	22·896	22·832	·064	22·864		22·799	67·5	45·5	22·0	76·3	40·4	35·9	62·7	60·3	56·5		36·6	47·2	51·3	45·0
	Extra India.																					
	Seychelles	15	29·973	29·885	·088	29·940	+·015†	29·879	83·2	78·5	4·7	85·8	75·2	10·6	81·5	82·1	79·7	+1·2†	72·7	76·9	76·9	75·5
	Mauritius	191																				

N.B.—Elevations in italics indicate barometric determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 30 days. † Departure from old normals.

A.

stations in India, etc., in January, 1916.

Vapour tension, in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall.			
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month	Station.	Number of sub-division.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·387	·408	·362	·403	—·028	89	56	40	64	— 6	0·8	1·4	1·1	—0·4	1	7	4	1	3	4	9	7	26	N 59° W	N 30° W	49	44	60	45	0	0	Calcutta	
																															VI.—Punjab.	
·227	·252	·253	·243	—·021	82	54	35	60	—10	3·4	3·5	3·5	—0·2	24	3	1	2	2	0	1	7	22	N 48° W	N 30° W	42	21	21	30	0·02	0·02	Lahore	11
																															IX.—Rajputana.	
·182	·193	·197	·197	—·071	53	28	22	38	—18	2·6	3·6	3·1	—0·2	8	6	6	6	4	5	4	10	13	N 85° W	N	19	18	56	58	0	0	Jaipur	18
																															X.—Bombay.	
·465	·596	·636	·584	—·007	65	67	60	68	— 4	0·7	0·8	0·7	—0·4	0	3	10	15	1	1	0	10	22	N 7° W	N 6° E	39	58	145	174	0	0	Bombay	2
																															XIV.—Mysore.	
·408	·397	·352	·390	—·018	92	51	36	62	0	1·7	1·0	1·3		0	0	17	33	11	1	0	0	0	N 87° E	N 88° E	85	73	147	93	0	0	Bangalore	3
																															XV.—Madras.	
	·578	·504				60	43			4·2	4·4	4·3		5	7	38	9	1	0	0	0	2	N 46° E		79		118		0	0	Pudukkottai	3
·594	·649	·628	·641	—·044	92	62	58	73	— 6	2·7	2·1	2·4	—1·7	0	6	25	24	7	0	0	0	0	N 50° E	N 51° E	47	76	82	100	0·04	0·04	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·136†	·161†				55†	62†			5·3	5·5	5·4																	2·01*	1·35	Sarain.	
																															Kalabagh.	
·194	·266	·264	·249	—·014	86	79	51	76	— 1	3·5	4·9	4·2	+0·8	0	0	0	17	0	0	0	45	0	W	N 78° W	45	46	12	15	0·54	0·54	Katmandu.	
·125	·164	·287	·192		42	32	57	44		1·0	1·9	1·5		1	5	19	16	12	1	0	1	7	N 66° E		56		234		0	0	Kodaikanal.	
																															Extra India.	
·729	·865	·859	·836	+·003	75	80	78	81	— 3	6·4	6·8	6·6	—0·4‡	6	13	8	1	0	0	0	5	29	N 25° W	N 39° W	69	61	99	107	9·30	2·33	Seychelles.	
																															Mauritius.	

* Snow water. † Mean of 27 days. ‡ Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 211 stations in India, etc., in January, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.								Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Absolute range during month.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°	°									"	"	"
Burma	+·026	81·7	−1·9	59·3	−0·6	70·5	−1·2	22·4	30·4	0	+ 1	83	− 1	·502	−·032	3·3	+0·7	0·03	0·10	−0·07
Assam	+·015	73·5	+0·3	52·3	+1·5	62·9	+0·9	21·1	29·8	+0·4	+17	93	− 1	·418	+·017	4·5	0	0·77	0·76	+0·01
Bengal	+·019	77·2	−0·1	53·4	−0·7	65·3	−0·4	23·8	33·6	−0·4	−11	84	− 2	·407	−·027	1·3	−0·4	0·05	0·44	−0·39
Bihar and Orissa	+·024	77·0	+0·1	51·2	−1·8	64·1	−0·9	25·8	37·1	−0·3	− 6	74	− 6	·342	−·048	1·3	−0·8	0·01	0·65	−0·64
United Provinces of Agra and Oudh	+·024	74·3	+1·7	46·0	−1·5	60·1	+0·1	28·3	41·8	−0·5	+ 7	71	− 9	·271	−·040	0·9	−1·5	0·01	0·82	−0·81
Punjab	+·021	71·8	+4·3	42·9	+0·7	57·4	+2·5	28·8	43·1	+0·1	+ 7	67	−11	·219	−·032	3·2	−0·1	0·07	1·04	−0·97
North-West Frontier Province	−·001	68·6	+2·8	40·7	+0·7	54·7	+1·8	27·9	42·8	−0·5	− 5	71	− 1	·206	0	4·6	+0·7	0·47	1·50	−1·03
Sind	+·010	77·4	+2·4	53·3	+2·6	65·4	+2·5	24·1	37·5	−0·9	− 3	61	0	·291	+·015	3·6	+0·8	0·08	0·27	−0·19
Rajputana	+·017	77·7	+3·8	49·7	+1·4	63·7	+2·6	28·0	46·2	−0·7	− 3	44	−14	·187	−·046	2·8	+0·1	0·02	0·29	−0·27
Bombay	+·023	85·1	+1·2	59·4	+1·8	72·3	+1·5	25·7	37·8	−0·6	− 4	61	− 1	·396	+·001	1·2	−0·2	0	0·09	−0·09
Central India	+·026	77·7	+1·3	47·3	−1·0	62·5	+0·1	30·4	46·5	−0·8	0	58	− 8	·243	−·046	1·5	−0·7	0	0·40	−0·40
Central Provinces	+·030	81·5	+0·1	52·7	−0·8	67·1	−0·3	28·8	41·6	−0·2	+10	57	− 6	·287	−·044	1·3	−0·8	0	0·38	−0·38
Hyderabad	+·032	85·4	−0·3	60·7	+1·0	73·0	+0·4	24·7	35·6	−0·9	+ 5	61	0	·427	−·007	1·5	−0·5	0	0·14	−0·14
Mysore	+·035	81·9	−0·7	57·7	−0·7	69·8	−0·7	24·2	31·9	+1·1	+ 5	68	− 4	·427	−·047	1·6	−1·4	0	0·12	−0·12
Madras	+·035	85·2	−0·1	66·3	−0·7	75·8	−0·4	18·9	26·9	+0·4	0	76	− 3	·592	−·043	2·0	−1·0	0·01	0·60	−0·59

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	I.—Burma.																						
2	Victoria Point	147	29·865		29·945	29·936	11th	29·797	31st	·139	74·4	85·6		70·7		78·2		14·9	89·7	11th	67·4	17th	22·3
	Mergui	66	29·968	+·030	29·965	30·048	15th	29·878	31st	·170	70·7	84·7	−3·5	64·8	−3·2	74·8	−3·3	19·9	87·9	13th & 14th.	59·2	18th	28·7
	Tavoy	19	30·027	+·027	29·978	30·109	15th	29·940	31st	·169	67·9	86·2	−3·6	61·2	−4·0	73·7	−3·8	25·0	90·4	12th	53·8	19th	36·6
	Moulmein	94	29·973	+·043	30·007	30·071	15th	29·887	31st	·184	67·1	85·4	−3·5	62·5	−3·0	73·9	−3·3	22·9	89·9	13th	57·0	17th & 18th.	32·9
	Rangoon	18	30·047	+·043	30·003	30·158	15th	29·951	31st	·207	66·9	85·0	−4·0	63·3	−1·4	74·2	−2·7	21·7	88·4	14th	58·2	20th	30·2
	Bassein	27	30·043	+·039	30·007	30·148	11th	29·946	31st	·202	66·9	83·5	−2·3	62·8	+0·3	73·1	−1·0	20·7	85·5	14th, 16th & 29th.	58·4	20th	27·1
	Diamond Island	41	30·005	+·023	29·981	30·103	15th	29·907	31st	·196	75·8	82·2	−1·5	71·4	−0·2	76·8	−0·9	10·8	85·0	14th	69·0	18th, 19th & 20th.	16·0
	Toungoo	104	29·903	+·039	30·017	30·029	15th	29·801	31st	·228	62·6	82·7	−2·1	56·5	−1·0	69·6	−1·5	26·2	86·1	29th	52·1	11th	33·0
	Kyaukpyu	18	30·048		30·005	30·162	11th	29·942	31st	·220	68·1	78·2		61·6		69·9		16·6	82·8	16th	56·3	27th	26·5
	Akyab	20	30·047	+·026	30·008	30·164	11th	29·935	31st	·229	62·4	79·6	−1·5	58·1	−1·2	68·9	−1·4	21·5	82·7	16th	54·5	4th	28·2
3	Minbu	*165*	29·895	+·007	30·011	30·031	15th	29·795	22nd	·236	63·2	83·0	−1·6	56·8	−0·6	69·9	−1·1	26·2	89·1	21st	51·0	10th	38·1
	Yamethin	657	29·384	+·020	30·020	29·515	15th	29·285	22nd	·230	61·7	83·1	−2·9	57·7	+2·1	70·4	−0·4	25·4	85·7	25th	53·0	11th	32·7
	Mandalay	250	29·822	+·031	30·032	29·957	15th	29·706	22nd	·251	62·0	85·2	+1·0	58·9	+0·5	71·1	+0·7	28·3	86·9	31st	53·4	13th	33·5
	Monywa	*980*	29·779	−·006?	30·022	29·914	15th	29·664	22nd	·250	60·8	83·7	+2·0	58·3	+1·8	71·0	+1·9	25·4	85·2	26th	53·6	8th & 9th.	31·6
	Lashio	*2,820*	27·210	−·002	27·156	27·363	15th	27·086	22nd	·277	51·0	71·5	−3·1	46·7	+1·1	59·1	−1·0	24·8	74·1	31st	43·0	11th	31·1
	Bhamo	*361*	29·713	+·041?	30·053	29·865	11th	29·588	22nd	·277	52·7	75·2	−0·7	48·3	−0·4	61·8	−0·5	26·9	79·2	9th & 17th.	44·1	5th & 31st.	35·1
	Myitkyina	458	29·599	+·009	30·045	29·755	11th	29·469	22nd	·286	54·0	73·3	−1·1	49·8	+0·2	61·6	−0·1	23·5	76·4	17th, 20th & 21st.	43·6	11th	32·8
	II.—Assam.																						
4	Dibrugarh	352	29·736	+·006	30·075	29·911	11th	29·598	22nd	·313	54·3	70·3	−0·3	51·8	+2·5	61·0	+1·1	18·5	75·2	18th	47·1	12th	28·1
	Sibsagar	233	29·774	+·012	30·086	29·952	11th	29·628	22nd	·324	54·8	70·5	+0·5	51·0	+1·3	60·7	+0·9	19·5	73·5	9th, 18th & 31st.	44·0	12th	29·5
	Tezpur	252	29·845	+·020	30·072	30·008	11th	29·706	22nd	·302	54·8	73·3	+0·3	52·9	+1·2	63·1	+0·7	20·4	77·0	31st	48·1	13th	28·9
	Gauhati	196	29·918	+·023	30·080	30·046	15th	29·772	22nd	·274	57·9	74·6	+0·5	51·3	+1·6	63·0	+1·1	23·3	78·4	31st	45·3	12th	33·1
	Dhubri	115	29·974	+·015	30·048	30·141	11th	29·834	22nd	·307	57·7	73·6	−0·1	53·8	+1·3	63·7	+0·6	19·8	76·5	18th	50·3	4 days.	26·2
	Silchar	104	29·994	+·017	30·057	30·121	11th	29·880	22nd	·241	57·9	78·5	+0·8	53·1	+0·8	65·8	+0·8	25·4	82·6	31st	49·5	12th	33·1
	Srimangal	66	30·014		30·034	30·145	11th	29·892	31st	·253	55·2	80·6	+0·7	47·7?	−1·0?	64·2?	−0·1?	32·9	84·7	17th	41·6	11th	43·1
	III.—Bengal.																						
5	Cox's Bazar	36	30·035		30·017	30·154	11th	29·919	31st	·235	60·2	79·1		54·5		66·8		24·6	82·7	27th	48·7	5th	34·0
	Chittagong	87	29·998	+·028	30·036	30·125	11th	29·866	31st	·259	59·0	77·6	−0·7	53·7	−1·6	65·7	−1·1	23·9	81·1	17th	47·9	5th	33·2
	Noakhali	43	30·049	+·034	30·041	30·179	11th	29·928	31st	·251	60·4	77·8	+0·1	53·7	+0·9	65·7	+0·5	24·1	80·4	1st	47·8	5th	32·6
	Barisal	12	30·072	+·023	30·031	30·210	11th	29·946	23rd	·264	60·6	76·8	−0·8	54·5	−0·5	65·6	−0·7	22·3	81·2	23rd	48·9	5th	32·3
	Narayanganj	26	30·053	+·012	30·029	30·187	11th	29·924	31st	·263	59·6	77·5	−0·1	55·7	+0·4	66·6	+0·1	21·8	81·1	23rd & 24th.	50·0	5th	31·1
	Mymensingh	63	30·018	+·014	30·036	30·163	11th	29·894	22nd	·269	56·8	77·0	+1·9	53·8	+0·8	65·4	+1·3	23·2	80·2	31st	48·5	4th	31·7
	Bogra	75	30·010	+·011	30·041	30·158	11th	29·867	22nd	·291	55·1	75·9	+0·2	52·0	+0·1	64·0	+0·1	23·9	79·4	22nd	46·3	4th	33·1
	Dinajpur	123	29·962	+·018	30·048	30·140	11th	29·809	22nd	·331	54·2	75·3	0	49·5	+0·6	62·4	+0·2	25·8	77·6	20th	45·0	4th	32·6
	Jalpaiguri	283	29·795	+·015	30·055	29·979	11th	29·639	22nd	·340	54·6	75·0*	+2·4?	51·3	+0·4	63·2*	+1·4?	23·7	77·6	18th	48·0	5th	29·6

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B.

stations in India, etc., in January, 1916.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1915 to 31st Jan. 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																I.—Burma.
2	2	19	7	1	0	0	0	0	N 55° E		6·0			86		74		·627		3·0		0			0			1·87			0	Victoria Point
26	1	2	2	0	0	0	0	0	N 54° E	S 40° W	2·9	1·5	+1·4	10	−1	81	−1	·609	−·112	0·7	−2·1	0	1·6	−1·6	0	1·02	−1·02	0·84	1·39	−0·55	0	Mergui.
22	3	5	1	0	0	0	0	0	N 35° E	N 9° W	1·5	0·9	+0·6	30	+23	82	−7	·560	−·103	0·8	−0·1	0	0·4	−0·4	0	0·15	−0·15	0·41	0·36	+0·05	0	Tavoy.
2	1	9	17	1	1	0	0	0	N 77° E	N 48° E	4·0	1·8	+2·0	82	+21	84	−1	·564	−·050	1·1	−0·6	0	0·2	−0·2	0	0·25	−0·25	5·77	0·32	+3·45	0	Moulmein.
2	6	14	7	0	0	0	1	1	N 42° E	N 29° E	2·8	2·8	0	72	+40	84	+2	·554	−·021	8·3	+6·5?	0	0·2	−0·2	0	0·09	−0·09	4·53	0·24	+4·29	0	Rangoon.
29	0	1	1	0	0	0	0	0	N 66° E	N 2° W	2·3	2·6	−0·3	7	−25	84	−4	·559	−·027	4·9	+3·5	0	0·1	−0·1	0	0·10	−0·10	3·15	0·39	+2·76	0	Bassein.
0	9	16	5	0	0	0	0	1	N 37° E	N 14° E	6·4	5·8	+0·6	82	+1	70	−3	·625	−·037	2·3	+0·1	0	0·2	−0·2	0	0·18	−0·18	6·10	0·93	+5·17	0	Diamond Island.
3	14	11	0	0	0	0	0	3	N 14° E	N 9° W	1·4	1·2	+0·2	82	+17	92	+4	·520	+·004	1·5	+0·1	0	0·3	−0·3	0	0·13	−0·13	4·02	0·37	+3·65	0	Toungoo.
30	0	1	0	0	0	0	0	0	N 45° E		0·1			3		87		·599		4·1		0			0			0·69			0	Kyaukpyu.
10	13	5	1	1	0	0	0	1	N 15° E	N 21° E	2·6	2·0	+0·6	59	−28	85	−4	·481	−·029	1·1	0	0	0·2	−0·2	0	0·07	−0·07	0·02	0·80	−0·78	0	Akyab.
11	0	0	0	2	1	3	0	14	N 63° W	N 52° W	3·0	4·2	−1·2	43	−5	71	−4	·407	−·033	2·3	+1·0	0	0·1	−0·1	0	0·03	−0·03	2·00	0·49	+1·51	0	Minbu.
26	1	0	0	1	1	0	0	2	N 45° W	N 11° W	0·7	1·8	−1·1	3	−23	82	+2	·418	+·003	1·5	+0·2	0	0·2	−0·2	0	0·09	−0·09	3·68	0·44	+3·24	0	Yamethin.
31	0	0	0	0	0	0	0	0	Calm	N 13° E	0·2	1·5	−1·3	(a)		79	−4	·438	−·024	3·5	+2·2	0	0	0	0	0·04	−0·04	0·75	0·37	+0·38	0	Mandalay.
9	9	5	0	0	0	0	0	8	N 6° W		1·5			50		81	−5	·432	−·029	3·3	+1·6	0	0	0	0	0	0	0·50	0·37	+0·13	0	Monywa.
29	0	0	0	0	0	0	0	2	N 45° W		2·0			3		93	+2	·348	+·005	4·2	+0·8	0	0·5	−0·5	0	0·24	−0·24	1·34	1·00	+0·34	0	Lashio.
28	1	2	0	0	0	0	0	0	N 31° E	N 18° W	0·7	1·9	−1·2	7	−9	98	+3	·389	+·004	8·3	+5·8?	0	1·3	−1·3	0·12	0·61	−0·49	0·12	1·17	−1·05	0·09	Bhamo.
30	0	0	0	0	0	0	0	1	N 45° W		1·1			3		91	+1	·381	−·026	5·2	+1·8	1	1·4	−0·4	0·35	0·48	−0·13	0·35	0·99	−0·64	0·32	Myitkyina.
																																II.—Assam.
28	0	2	1	0	0	0	0	0	N 59° E		0·4			7		97	+1	·408	+·032	6·1	+1·4	5	3·9	+1·1	2·02	1·76	+0·26	2·48	2·12	+0·36	0·62	Dibrugarh.
9	6	6	1	2	3	3	1	1	N 40° E	N 82° E	1·4	1·3	+0·1	13	−10	95	−3	·410	+·012	6·8	−0·3	4	3·6	+0·2	1·42	1·33	+0·09	1·65	1·82	−0·17	0·46	Sibsagar.
18	0	4	8	1	0	0	0	0	N 80° E		2·0			37		96	+3	·411	+·023	3·2	+0·4	3	1·7	+1·3	1·81	0·49	+1·32	2·31	0·74	+1·57	0·99	Tezpur.
29	0	1	0	0	0	0	0	1	N		1·0			5		91	−5	·437	+·038	4·2	−2·5?	0	1·4	−1·4	0·04	0·38	−0·34	0·04	0·47	−0·43	0·04	Gauhati.
2	3	14	11	1	0	0	0	0	N 60° E	N 55° E	4·7	2·8	+1·9	79	+40	88	−4	·422	+·010	6·4	+4·5?	1	0·9	+0·1	0·16	0·36	−0·20	0·16	0·41	−0·25	0·14	Dhubri.
23	1	7	0	0	0	0	0	0	N 40° E	S 72° E	0·5	1·2	−0·7	27	+21	91	0	·436	+·007	1·3	−1·4	2	1·8	+0·2	0·55	0·63	−0·28	0·55	1·26	−0·71	0·43	Silchar.
																91	0	·402	−·004	3·4		1	1·6	−0·6	0·41	0·65	−0·24	0·41	1·0[illegible]	−0·[illegible]9	0·23	Srimangal.
																																III.—Bengal.
14	0	9	6	2	0	0	0	0	N 70° E		1·2			49		88		·456		1·3		0			0			0·01			0	Cox's Bazar.
25	0	6	0	0	0	0	0	0	N 45° E	N 28° E	1·1	2·3	−1·2	20	−35	92	+4	·461	−·001	0·8	−0·7	0	0·5	−0·5	0·01	0·34	−0·33	0·01	1·13	−1·12	0·01	Chittagong.
10	14	3	0	2	0	0	0	2	N 7° E		1·0			52		87	−2	·459	−·001	2·1	+0·6	0	0·8	−0·8	0·02	0·35	−0·35	0·02	0·66	−0·61	0·02	Noakhali.
28	2	0	0	0	0	1	0	0	N 30° W	N 4° E	0·7	1·2	−0·5	3	−8	82	−5	·434	−·044	1·3	0	0	0·9	−0·9	0·02	0·55	−0·53	0·03	1·02	−0·99	0·01	Barisal.
18	3	0	0	0	1	1	3	5	N 56° W	N 10° W	0·9	1·7	−0·8	27	−12	84	−4	·428	−·022	0·8	−1·4	0	0·9	−0·9	0	0·34	−0·34	0	0·51	−0·51	0	Narayanganj.
26	0	0	5	0	0	0	0	0	E	N 54° E	0·5	0·9	−0·4	16	−13	88	−2	·405	−·017	2·5	+1·1	0	1·1	−1·1	0	0·42	−0·42	0	0·49	−0·49	0	Mymensingh.
22	2	1	0	0	0	2	3	1	N 65° W	N 18° W	0·8	1·2	−0·4	13	−21	89	+5	·388	−·004	1·7	+0·5	0	1·2	−1·2	0	0·47	−0·47	0	0·50	−0·50	0	Bogra.
15	2	0	2	1	2	2	3	4	N 81° W	N 61° W	1·3	1·7	−0·4	17	−19	90	+2	·380	+·003	0·6	−1·2	0	1·0	−1·0	0·02	0·39	−0·37	0·05	0·42	−0·37	0·02	Dinajpur.
31	0	0	0	0	0	0	0	0	Calm	N 13° E	0·8			(a)		92	+1	·395	0	1·1	−0·6	0	0·8	−0·8	0	0·34	−0·34	0·17	0·42	−0·25	0	Jalpaiguri.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 211 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	III.—Bengal—*concld.*																						
	Saugor Island	10	30·087	+·025	30·043	30·246	11th	29·955	22nd	·291	61·9	77·0	+0·1	55·9	−3·3	66·5	−1·6	21·1	82·8	25th	49·7	6th	33·1
	Midnapore	149	29·939	+·014	30·045	30·104	11th	29·793	22nd	·311	59·7	79·7	−1·1	54·1	−1·8	66·9	−1·5	25·6	88·0	23rd	47·9	6th & 7th	40·1
	Calcutta	21	30·073	+·015	30·041	30·231	11th	29·930	22nd	·301	57·5	77·4	+0·1	54·5	−1·0	66·0	−0·5	22·9	82·9	23rd	49·4	6th & 7th	33·5
	Jessore	30	30·070	+·026	30·049	30·223	11th	29·912	23rd	·311	58·2	76·8	−0·5	52·4	−0·8	64·6	−0·7	24·4	81·7	23rd	44·4	5th	37·3
	Burdwan	99	29·999	+·019	30·052	30·173	11th	29·842	22nd	·331	57·9	78·8	+0·2	52·7	−2·3	65·7	−1·1	26·1	85·6	23rd	48·0	7th	37·6
	Berhampore	67	30·027	+·016	30·048	30·203	11th	29·868	22nd	·335	55·3	76·2	−0·3	52·8	−0·7	64·5	−0·5	23·4	80·2	27th	48·5	5th	31·7
	IV.—Bihar and Orissa.																						
6	Balasore	50	30·059	+·028	30·056	30·212	11th	29·917	22nd	·295	59·2	79·9	−0·8	54·5	−1·7	67·2	−1·3	25·4	86·5	23rd	49·2	17th	37·3
	Hukitala (False Point).	29	30·076	+·030	30·046	30·212	11th	29·950	31st	·262													
	Cuttack	80	30·033	+·037	30·058	30·173	11th	29·911	31st	·262	62·1	80·5	−3·3?	58·4	−1·8	69·4	−2·5?	22·1	85·7	31st	52·2	18th	33·5
	Puri	24	30·081	+·029	30·046	30·218	11th	29·961	31st	·257	65·7	81·3	+1·3	63·3	−0·3	72·3	+0·5	18·0	85·3	31st	57·7	18th	27·6
	Angul	455	29·638	+·043	30·064	29·763	11th	29·516	22nd	·247	60·7	80·7	−1·2	54·0	−1·9	67·3	−1·5	26·7	86·5	31st	48·0	18th	38·5
	Sambalpur	486	29·617	+·032	30·081	29·752	11th	29·492	22nd	·260	58·5	80·0	−2·0?	51·6	−3·7	65·8	−2·9?	28·4	85·5	31st	45·7	18th & 19th	39·8
7	Chaibassa	*733*	29·331	+·013	30·065	29·491	11th	29·186	22nd	·305	54·0	78·7	−1·2	50·1	−2·4	64·4	−1·8	28·6	85·0	23rd & 31st.	45·2	6th	39·8
	Ranchi	2,128	27·906	+·028	30·064	28·050	11th	27·761	22nd	·289	55·3	72·9	−0·9	49·8	−1·6	61·4	−1·3	23·1	80·5	23rd	44·8	6th	35·7
	Purulia	*816*	29·261	+·027	30·077	29·385	11th & 15th.	29·115	22nd	·270	57·3	79·7*	+2·2?	52·7	−1·2	66·2*	+0·5?	27·0	91·5	31st	48·3	6th & 7th	43·2
	Daltonganj	*730*	29·347	+·006	30·089	29·513	11th	29·169	22nd	·344	48·7	76·6	+1·2	43·0	−3·9	59·8	−1·3	33·6	85·0	31st	37·0	6th	48·0
8	Purnea	124	29·966	+·013	30·054	30·147	11th	29·817	22nd	·330	52·0	74·8	+0·5	47·3	−0·7	61·0	−0·1	27·5	78·2	31st	41·3	4th	36·9
	Monghyr	155	29·928†		30·045†	30·113	11th	29·753	22nd	·360	56·4	74·0		51·5		62·8		22·5	78·2	27th & 31st.	46·9	5th & 6th	31·3
	Darbhanga	165	29·937	+·031	30·067	30·119	11th	29·783	22nd	·336	56·9	73·7	+0·9	48·0	−3·3	60·8	−1·2	25·7	77·4	31st	42·6	4th	34·8
	Pusa	188	29·905		30·062	30·094	11th	29·733	22nd	·361	51·5	75·0		45·4		60·2		29·6	78·5	31st	40·7	5th	37·8
	Patna	183	29·901	+·004	30·051	30·087	11th	29·726	22nd	·361	56·5	72·0	−0·7	50·1	−0·6	61·1	−0·7	21·9	77·3	31st	45·2	6th	32·1
	Buxar	239	29·848	+·010	30·060	30·037	11th	29·656	22nd	·381	52·4	75·9	+2·0	46·8‡	−3·5	60·5‡	−0·7	29·1	81·8	31st	42·4	6th	39·4
	Gaya	372	29·729	+·027	30·079	29·909	11th	29·543	22nd	·366	55·6	75·2	−0·2	50·2	−1·3	62·7	−0·7	25·0	81·7	31st	44·5	6th	37·2
	Naya Dumka	489	29·594	+·024	30·067	29·757	11th	29·431	22nd	·326	57·0	77·1	+1·7	49·1	−2·1	63·1	−0·2	28·0	82·8	23rd	43·2	6th	39·6
	V.—United Provinces of Agra and Oudh.																						
9	Gorakhpur	257	29·821	+·020	30·055	30·002	11th	29·658	22nd	·344	51·2	73·7	+1·1	47·4	−1·6	60·5	−0·3	26·3	77·6	26th & 31st.	42·8	11th	34·8
	Benares	267	29·837	+·030	30·077	30·010	11th	29·647	22nd	·363	53·6	75·0	+1·0	45·6	−2·4	60·3	−0·7	29·4	81·8	31st	39·7	5th	42·1
	Allahabad	309	29·781	+·014	30·070	29·950	11th	29·587	22nd	·363	51·5	75·2	+1·0	45·5	−2·4	60·4	−0·7	29·7	84·3	31st	40·1	5th	44·2
	Cawnpore	416	29·678	+·031	30·085	29·840	11th	29·522	22nd	·318	50·1	74·4	+1·9	46·5	−1·4	60·5	+0·3	27·9	84·8	31st	40·9	6th	43·9
	Lucknow	368	29·725	+·028	30·077	29·896	11th	29·565	22nd	·331	55·4	73·2	−0·2	47·1	+0·4	60·2	+0·1	26·1	82·0	31st	40·0	5th	42·0
	Bahraich	407	29·661	+·018	30·060	29·841	11th	29·509	22nd	·332	50·5	73·2	+1·1	46·8	−0·5	60·1	+0·3	26·5	78·0	26th	42·3	10th	35·7
10	Jhansi	824	29·263	+·014	30·101	29·422	15th	29·094	22nd	·328	53·3	78·5	+2·6	47·6	−3·9	63·0	−0·7	30·9	90·6	31st	41·8	5th	48·8
	Agra	556	29·543	+·030	30·096	29·700	11th	29·387	22nd	·313	55·8	75·3	+2·5	48·3	−0·3	61·8	+1·1	27·0	86·7	31st	41·2	6th	45·5
	Mainpuri	516	29·570	+·026	30·086	29·707	11th	29·408	22nd	·299	50·0	74·8	+3·1	45·0	−1·2	59·9	+0·9	29·8	81·4	30th	39·5	6th	41·9
	Bareilly	568	29·492	+·021	30·065	29·664	11th	29·142	22nd	·322	50·6	73·1	+2·9	44·7	−1·4	58·9	+0·7	28·4	79·4	30th	40·0	3rd & 6th	39·4
	Roorkee	899	29·156	+·032	30·097	29·323	11th	29·029	22nd	·294	46·4	70·4	+1·5	41·0	−2·9?	55·7	−0·7?	29·4	76·3	25th	34·8	10th	41·5

N. B.—Elevations in italics indicate barometrical determinati ons.

* Mean of 28 days.
† " 30 "
‡ " 15 "

B—*continued.*

in India, etc., in January, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1915 to 31st Jan. 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																III.—Bengal—*concld.*
4	15	6	1	0	2	2	0	1	N 11° E		4·9			56	− 8	88	− 2	·489	−·039	2·3	0	1	0·9	+0·1	0·46	0·34	+0·12	0·46	0·67	−0·21	0·44	Saugor Island.
18	6	1	0	0	0	0	0	6	N 15° W		1·6			36		65	− 6	·337	−·056	1·7	+0·2	0	1·1	−1·1	0	0·57	−0·57	0	0·82	−0·82	0	Midnapore.
3	4	2	1	2	0	3	2	14	N 41° W	N 6° W	2·6	1·9	+0·7	53	+21	84	− 1	·295	−·051	1·3	−0·5	0	0·8	−0·8	0	0·41	−0·41	0	0·62	−0·62	0	Calcutta.
31	0	0	0	0	0	0	0	0	Calm	N 14° W	1·2	1·2	0	*a*		78	− 8	·384	−·048	1·3	−0·3	1	0·9	+0·1	0·12	0·43	−0·31	0·12	0·62	−0·50	0·12	Jessore.
19	[illegible]	7	1	0	1	0	0	1	N 39° E	N 23° W	1·1	1·2	−0·1	30	+ 4	69	− 6	·334	−·052	0·8	−1·4	0	0·8	−0·8	0	0·41	−0·41	0	0·57	−0·57	0	Burdwan.
28	[illegible]	0	0	0	0	3	0	0	S 45° W	N 67° W	0·6	1·2	−0·6	10	−16	83	− 3	·366	−·044	0·5	−1·6	0	1·1	−1·1	0	0·42	−0·42	0	0·53	−0·53	0	Berhampore.
																																IV.—Bihar and Orissa.
21	3	0	0	0	1	1	1	4	N 47° W	N 27° W	0·5	2·0	−1·5	23	−27	77	− 4	·390	−·053	1·4	−0·1	0	1·1	−1·1	0·02	0·60	−0·58	0·02	0·86	−0·84	0·02	Balasore.
3	15	2	0	0	1	4	0	6	N 19° W		4·9			59	− 9					2·6	0	0	0·9	−0·9	0	0·55	−0·55	0	1·32	−1·32	0	Hukitola (False Point).
24	0	2	2	0	0	1	2	0	N 45° E	N 8° W	1·1	1·0	+0·1	3	− 7	78	− 3	·436	−·047	2·0	−0·1	0	0·6	−0·6	0	0·25	−0·25	0	0·60	−0·60	0	Cuttack.
1	13	1	0	0	0	1	1	14	N 26° W		6·2			84		82	0	·523	−·034	2·3	+0·8	0	0·7	−0·7	0	0·37	−0·37	0	0·80	−0·80	0	Puri.
6	0	0	0	0	0	0	6	19	N 56° W		2·3			74		72	− 8	·387	−·054	1·3	−0·8	0	1·2	−1·2	0	0·71	−0·71	0	1·24	−1·24	0	Angul.
0	16	10	0	0	0	0	0	3	N 11° E†	N 32° E	2·8‡	1·9	+0·9	92	+18	73	0	·360	−·065	1·7	−0·4	0	0·9	−0·9	0	0·38	−0·38	0	0·66	−0·66	0	Sambalpur.
18	0	0	0	0	3	8	2	0	S 42° W	S 68° W	1·9	0·9	+1·0	40	0	73	−12	·307	−·076	1·5	−0·2	0	1·5	−1·5	0	0·81	−0·81	0	1·05	−1·05	0	Chaibasa.
13	1	0	0	0	0	2	8	7	N 72° W	N 73° W	3·2	3·8	−0·6	49	+13	55§	−10	·251§	−·057	1·1	−1·2	0	1·5	−1·5	0	0·78	−0·78	0	1·00	−1·00	0	Ranchi.
4	1	0	0	0	0	0	6	20	N 53° W		1·3			81		59	−14	·279	−·060	0·8	−1·4	0	2·2	−2·2	0	1·05	−1·05	0	1·22	−1·22	0	Purulia.
21	1	2	2	3	2	0	0	0	S 68° E		2·2			16		80	− 1	·277	−·062	0·6	−1·4	0	2·1	−2·1	0	0·97	−0·97	0	1·21	−1·21	0	Daltonganj.
8	1	2	0	1	1	8	10	0	S 70° W	S 74° W	1·4	1·5	−0·1	46	+17	94	+ 3	·369	+·013	1·0	−0·6	0	0·8	−0·8	0	0·45	−0·45	0	0·55	−0·55	0	Purnea.
2	0	0	0	1	1	14	10	3	S 67° W		2·5			74		71		·326		0·6		0			0			0			0	Monghyr.
21	0	1	1	0	0	5	3	0	S 59° W	S 84° W	1·1	1·9	−0·8	20	−11	81	− 7	·374	−·004	0·3	−1·5	0	1·2	−1·2	0	0·55	−0·55	0	0·61	−0·61	0	Darbhanga.
17	0	1	0	1	2	5	2	3	S 63° W		1·2			23		91		·344		2·9		0			0			0·02			0	Pusa.
24	0	0	0	0	2	3	2	0	S 45° W	S 70° W	1·2*	1·8	−0·6	20	−28	70	− 8	·320	−·041	0·5	−1·6	0	1·2	−1·2	0	0·61	−0·61	0	0·70	−0·70	0	Patna.
6	1	0	1	0	1	12	8	2	S 68° W		2·5			58		74	0	·290	−·048	1·6	−0·2	0	1·4	−1·4	0	0·72	−0·72	0·06	0·93	−0·87	0	Buxar.
30	0	0	0	0	1	0	0	0	S	S 16° W	1·2	2·2	−1·0	3	−29	62	−13	·275	−·074	0·4	−1·9	0	1·4	−1·4	0	0·72	−0·72	0	0·86	−0·86	0	Gaya.
18	3	0	0	0	1	0	1	8	N 41° W		1·3			33		67	− 8	·310	−·042	0·3	−1·4	0	1·2	−1·2	0	0·58	−0·58	0	0·66	−0·66	0	Naya Dumka.
																																V.—United Provinces of Agra and Oudh.
20	0	0	1	0	0	2	7	1	S 85° W	N 84° W	1·1	1·2	−0·2	27	− 9	86	+ 4	·326	−·021	0·3	−1·7	0	1·5	−1·5	0	0·76	−0·76	0·07	0·91	−0·84	0	Gorakhpur.
16	0	0	0	0	1	13	0	1	S 46° W	S 49° W	1·1	2·1	−1·0	46	+10	78	− 5	·317	−·029	0·8	−1·4	0	1·6	−1·6	0	0·72	−0·72	0	0·97	−0·97	0	Benares.
21	0	0	0	0	0	2	7	1	S 86° W	N 74° W	1·3	2·8	−1·5	30	+ 4	73	− 6	·277	−·053	1·0	−1·5	0	1·8	−1·8	0	0·82	−0·82	0·14	1·09	−0·95	0	Allahabad.
13	0	0	1	0	1	4	12	0	S 75° W	N 79° W	1·6	2·2	−0·6	49	+17	76	−17	·271	−·040	0·2	−1·7	0	1·5	−1·5	0	0·59	−0·59	0·02	0·83	−0·81	0	Cawnpore.
22	0	0	1	0	0	0	8	0	W	N 84° W	1·2	1·6	−0·4	23	− 6	61	−20	·271	−·042	0·8	−1·7	0	1·5	−1·5	0	0·84	−0·84	0	1·19	−1·19	0	Lucknow.
19	0	0	1	0	2	2	4	3	S 79° W	N 45° W	1·5	1·6	−0·1	23	0	80	− 7	·294	−·046	0·7	−1·2	0	2·1	−2·1	0	0·89	−0·89	0·37	1·21	−0·84	0	Bahraich.
2	0	1	0	0	0	15	12	1	S 68° W	N 68° W	2·2	1·5	+0·7	79	+61	53	−12	·212	−·090	0·7	−1·0	0	1·4	−1·4	0	0·68	−0·68	0·23	0·85	−0·62	0	Jhansi.
18	0	0	0	2	1	5	3	2	S 55° W	N 56° W	1·8	2·6	−0·8	27	− 5	51	−20	·228	−·049	1·2	−1·4	0	1·4	−1·4	0	0·54	−0·54	0	0·87	−0·87	0	Agra.
13	2	0	1	0	1	2	7	5	N 74° W	N 56° W	1·4	1·2	+0·2	37	+ 9	67	−10	·241	−·040	1·5	−1·6	0	1·7	−1·7	0	0·66	−0·66	0·01	1·12	−1·11	0	Mainpuri.
31	0	0	0	0	0	0	0	0	Calm	N 45° W	0·3	1·6	−1·3	*a*		79	− 4	·289	−·010	1·1	−1·7	0	2·4	−2·4	0	1·05	−1·05	0·04	1·13	−1·39	0	Bareilly.
24	0	0	0	2	0	0	0	5	N 45° W	N 53° W	1·2	1·5	−0·3	10	− 6	82	− 3	·260	−·016	2·0	−1·1	0	2·9	−2·9	0	1·59	−1·59	0·20	2·22	−2·02	0	Roorkee.

* Mean of 18 days. ‡ Mean of 28 days. *a* Indeterminate. § Mean of 22 days.

Table

(2) Abstract of observations taken at 8 hrs. at 211 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	VI.—Punjab.																						
11	Delhi	718	29·356	+·024	30·090	29·522	11th	29·218	22nd	·304	52·5	73·4	+3·4	48·1	+0·4	60·8	+1·9	25·3	83·5	31st	37·2	6th	46·3
	Hissar	725	29·354	+·023	30·104	29·514	11th	29·196	21st	·318	47·4	75·0	+4·9	42·3	−0·4	58·6	+2·3	32·7	87·0	31st	33·9	6th	53·1
	Patiala	*818*	29·220	+·001	30·073	29·395	11th	29·038	25rd	·357	46·5	71·7	+4·1	43·8	+0·3	57·7	+2·2	27·9	78·4	31st	36·0	11th	42·4
	Ambala	892	29·159	+·026	30·095	29·330	11th	29·020	22nd	·310	46·2	73·0	+5·0	41·4	−1·7	57·2	+1·7	31·6	79·7	31st	34·1	11th	45·6
	Ludhiana	812	29·250	+·028	30·100	29·409	11th	29·116	22nd	·293	46·3	70·9	+4·5	44·1	−0·1	57·5	+2·2	26·8	77·5	25th	38·4	11th	39·1
	Lahore	702	29·364	+·020	30·102	29·527	11th	29·198	31st	·329	44·8	71·0	+2·6	42·2	+1·1	56·6	+1·9	28·8	76·2	24th	34·2	4th	42·0
	Sialkot	830	29·238	+·031	30·112	29·407	11th	29·092	31st	·315	46·9	69·3	+3·5	40·5	−2·5P	54·9	+0·5P	28·8	76·1	25th	33·7	3rd	42·4
	Rawalpindi	1,674	28·367	+·017	30·144	28·546	12th	28·212	31st	·334	42·9	69·1	+6·7	37·8	−0·2	53·4	+3·3	31·3	73·2	4th	30·1	4th	42·1
12	Khushab	612	29·480	+·027	30·117	29·652	12th	29·338	31st	·314	47·8	71·7	+4·2						76·1	23rd			
	Lyallpur	605	29·470		30·099	29·647	12th	29·283	31st	·364	44·7	70·4		40·4		55·4		30·0	75·0	24th	33·6	8th	41·4
	Montgomery	558	29·529	+·022	30·103	29·697	12th	29·346	31st	·351	48·3	72·3	+3·9	44·9	+3·6	58·6	+3·7	27·4	76·5	24th	36·6	8th	39·9
	Multan	426	29·674	+·014	30·099	29·880	12th	29·522	31st	·358	51·2	73·5	+3·8	46·9	+3·6	60·2	+3·7	26·6	78·3	15th	40·0	8th	38·3
	VII.—North-West Frontier Province.																						
14	Peshawar	1,113	28·967	+·004	30·154	29·151	12th	28·796	31st	·355	43·1	66·6	+3·6	39·4	−0·2	53·0	+1·7	27·2	75·9	29th	32·1	4th	43·8
	D. I. Khan	590	29·497	−·006	30·113	29·684	12th	29·333	31st	·351	44·8	70·6	+2·0	41·9	+1·7	56·3	+1·9	28·7	75·6	23rd	34·8	3rd	41·8
	VIII.—Sind.																						
16	Jacobabad	186	29·934	+·019	30·095	30·140	12th	29·758	31st	·382	50·2	75·5	+2·5	46·3	+3·1	60·9	+2·8	29·2	83·1	24th	38·8	4days	44·3
	Hyderabad	96	30·008	+·002	30·062	30·168	12th	29·880	20th	·288	56·9	79·1	+2·9	53·0	+2·4	66·1	+2·7	26·1	84·8	28th	46·5	5th	38·3
	Karachi	13	30·104	+·009	30·067	30·250	15th	29·972	30th	·278	63·5	77·6	+1·9	60·7	+2·2	69·1	+2·1	16·9	86·2	30th	56·4	9th	29·8
	IX.—Rajputana.																						
17	Bikaner	*771*	29·367	+·017	30·095	29·487	12th	29·149	21st	·338	52·8	76·6	+5·2	48·0	−0·5	62·3	+2·3	28·6	86·0	30th	39·9	4th & 6th	46·1
	Jodhpur	780	29·293	+·012	30·077	29·428	15th	29·145	21st	·283	57·6	79·6	+3·5	53·4	+3·8	66·5	+3·7	26·2	91·0	30th	45·3	10th	45·7
18	Jaipur	1,431	28·626	+·013	30·100	28·769	15th	28·471	21st	·298	53·8	77·1	+3·1	48·2	+0·4	62·7	+1·7	28·9	86·5	31st	39·9	4th	46·6
	Ajmer	1,611	28·454	+·019	30·128	28·586	15th	28·299	21st	·287	48·6	75·2	+1·8P	46·3	+0·7	60·7	+1·3P	28·9	85·6	30th	39·6	4th	46·0
	Kotah	832	29·252	+·022	30·087	29·384	11th	29·111	21st	·273	53·7	80·2	+3·4	52·7	+1·8	66·5	+2·6	27·5	93·0	31st	46·4	4th	46·6
	X.—Bombay.																						
19	Deesa	466	29·621	+·033	30·065	29·733	15th	29·523	20th	·210	60·6	87·5	+4·5	53·8	+2·6	70·7	+3·5	33·7	94·0	30th	47·3	5th	46·7
	Bhuj	334	29·749	+·012	30·050	29·880	15th	29·659	29th	·221	63·0	82·6	+3·0	52·8	−1·6P	67·7	+0·7P	29·8	90·0	30th	42·7	5th	47·3
	Jamnagar	61	30·040	+·010	30·049	30·146	15th	29·937	20th	·209	63·2	81·7	+3·1	54·8	+1·5P	68·2	+2·3P	26·9	87·9	30th	45·7	5th	42·2
	Dwarka	37	30·064	+·014	30·037	30·164	16th	29·968	29th	·195	67·5	80·8	+3·5	63·2	+3·9	72·0	+3·7	17·6	87·3	14th	55·2	5th	32·1
	Rajkot	429	29·643	+·013	30·042	29·735	15th	29·560	20th	·175	62·0	85·7	+2·2	53·6	+2·9	69·6	+2·5	32·1	93·4	30th	43·8	3rd	49·6
	Veraval	*18*	30·061	+·020	30·022	30·140	15th	29·991	28th	·149	66·7	81·7	+0·5	62·4	+3·6	72·1	+2·1	19·3	86·9	14th	56·6	6th	30·3
	Bhavnagar Para	55	30·035	+·018	30·038	30·134	15th	29·943	20th	·191	63·0	85·9	+2·4	56·3	+1·9	71·1	+2·1	29·6	93·0	30th	47·8	5th	45·2
	Surat	39	30·042	+·025	30·025	30·147	15th	29·973	29th	·174	64·9	88·6	+2·0	59·1	+2·2	73·8	+2·1	29·5	93·9	29th	53·3	3rd & 4th	40·6
	Ahmadabad	163	29·943	+·036	30·062	30·052	15th	29·852	20th	·200	67·7	87·1	+3·1	59·7	+2·6	73·4	+2·9	27·4	95·2	30th	52·9	7th	42·3
25	Bombay	37	30·027	+·024	30·005	30·106	15th	29·973	7th	·133	71·6	84·2	+1·7	69·2	+1·3	76·7	+1·5	15·0	88·7	14th	64·5	3rd	24·2
	Ratnagiri	207	29·829	+·018	29·978	29·904	11th & 15th.	29·771	21st	·133	75·3	86·9	0	68·5	+2·1	77·7	+1·1	18·4	93·5	11th	65·9	19th, 20th & 23rd.	27·6
	Marmagao	*60*	29·977	+·018	29·973	30·058	11th	29·928	21st	·130	72·4	83·9	−1·0	70·3	+0·6	77·1	−0·2	13·6	86·2	30th	67·7	18th & 20th.	18·5
	Karwar	44	30·012	+·039	29·991	30·093	11th	29·948	21st	·145	68·2	86·5	+0·1	66·2	+0·4	76·4	+0·3	20·3	90·7	14th	61·4	21st	29·3

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in January, 1916—*continued.*

Wind Direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1915 to 31st Jan. 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																VI.—Punjab.
7	0	0	1	1	0	1	13	8	N 76° W	S 87° W	1·9	2·1	−0·2	59	+24	51	−17	·203	−·054	1·5	−1·9	0	2·2	−2·2	0	1·07	−1·07	0·02	1·55	−1·53	0	Delhi.
8	2	1	2	2	5	4	7	0	S 41° W	N 36° W	2·7	2·5	+0·2	30	+19	58	−18	·192	−·054	4·4	+1·0	0	1·5	−1·5	0·08	0·67	−0·59	0·10	0·98	−0·88	0·08	Hissar.
6	3	1	3	1	0	0	7	10	N 45° W		3·3			45		72	−7	·231	−·044	2·3	−1·0	1	2·5	−1·5	0·12	1·31	−1·19	0·22	1·71	−1·49	0·12	Patiala.
12	11	0	1	0	0	0	4	3	N 21° W	N 48° W	2·4	1·4	+1·0	46	+28	75	−10	·240	−·038	2·9	−0·6	0	3·4	−3·4	0·08	1·57	−1·49	0·36	2·26	−1·90	0·08	Ambala.
28	1	1	0	0	0	0	0	1	N	N 59° W	0·9	1·2	−0·3	8	−11	72	−10	·227	−·042	1·2	−2·6?	1	3·1	−2·1	0·10	1·72	−1·62	0·17	2·47	−2·30	0·10	Ludhiana.
26	0	1	0	2	0	0	2	0	S 8° E	N 88° W	0·8	1·2	−0·4	2	−1	79	−5	·236	−·018	4·6	+0·9	0	2·2	−2·2	0·02	1·06	−1·04	0·17	1·46	−1·29	0·02	Lahore.
15	4	2	5	0	2	0	2	1	N 42° E	N 49° E	0·9	0·9	0	20	+12	79	−2	·251	−·011	3·5	+0·3	0	3·0	−3·0	0·09	2·29	−2·20	0·30	2·98	−2·68	0·09	Sialkot.
12	2	1	1	2	1	2	5	5	N 70° W	N 40° W	2·3	1·5	+0·8	23	+9	67	−15	·188	−·037	4·4	−0·1	1	3·9	−2·9	0·18	2·67	−2·49	0·37	3·64	−3·27	0·13	Rawalpindi.
21	2	3	2	0	1	1	1	0	N 45° E	N 18° E	2·0	2·1	−0·1	10	−1	51	−17	·175	−·038	3·6	+0·6	0	1·7	−1·7	0·12	0·79	−0·67	0·16	1·22	−1·06	0·07	Khushab.
19	0	2	1	0	1	5	2	1	S 57° W		0·8			13		79		·234		4·2		0	1·2	−1·2	0	0·42	−0·42	0·42	0·62	−0·20	0	Lyallpur.
6	4	3	2	5	3	1	1	6	N 29° E	N 18° E	2·8	2·5	+0·3	13	−1	64	−7	·216	−·011	2·8	−0·5	1	1·7	−0·7	0·11	0·57	−0·46	0·12	0·95	−0·83	0·11	Montgomery.
20	4	0	1	5	1	0	0	0	S 83° E	N 45° E	0·5	0·9	−0·4	17	−6	62	−9	·233	−·006	3·3	+0·4	0	1·2	−1·2	0·05	0·39	−0·34	0·13	0·64	−0·51	0·05	Multan.
																																VII.—North-West Frontier Province.
20	0	0	0	0	10	1	0	0	S 4° W	S 18° W	1·1	1·8	−0·7	37	−2	70	−2	·199	−·003	4·3	−0·3	2	3·0	−1·0	0·89	1·64	−0·75	0·95	2·13	−1·18	0·64	Peshawar.
25	1	1	0	0	0	1	1	2	N 45° W	N 37° W	0·6	1·0	−0·4	10	−8	71	0	·213	+·003	4·9	+1·7	2	1·4	+0·6	0·31	0·52	−0·21	0·31	0·73	−0·42	0·19	D. I. Khan.
																																VIII.—Sind.
22	1	0	3	0	1	0	0	4	N 4° E	N 22° E	1·5	1·6	−0·1	9	−9	64	0	·238	+·019	3·9	+0·8	0	0·8	−0·8	0	0·31	−0·31	0	0·42	−0·42	0	Jacobabad.
5	17	0	0	2	1	2	0	4	N 10° W	N 7° E	3·5	5·1	−1·6	53	+2	57	0	·266	+·013	2·8	+0·1	0	0·6	−0·6	0	0·23	−0·23	0	0·29	−0·29	0	Hyderabad.
1	6	18	3	0	1	0	1	1	N 37° E	N 50° E	5·8	6·7	−0·9	72	−2	62	−1	·368	+·012	4·1	+1·6	1	1·2	−0·2	0·18	0·62	−0·44	0·18	0·75	−0·57	0·13	Karachi.
																																IX.—Rajputana.
21	0	1	2	3	2	2	0	0	S 35° E	N 22° W	1·2	2·7	−1·5	20	−2	44	−12	·179	−·037	2·4	−0·7	0	0·9	−0·9	0·05	0·32	−0·27	0·05	0·51	−0·46	0·05	Bikaner.
8	4	17	1	0	0	1	0	0	N 39° E		2·6			62		30	−16	·146	−·019	4·5	+1·5	0	0·5	−0·5	0	0·17	−0·17	0	0·31	−0·31	0	Jodhpur.
13	2	6	5	1	0	0	1	3	N 42° E	N 6° E	2·4	2·4	0	33	+4	45	−17	·187	−·062	2·3	−0·7	0	1·2	−1·2	0	0·49	−0·49	0·11	0·71	−0·60	0	Jaipur.
29	0	0	0	0	0	0	2	0	W	N 9° W	0·8	1·6	−0·8	6	−12	54	−17	·187	−·070	2·8	+0·1	0	1·2	−1·2	0	0·39	−0·39	0·05	0·67	−0·62	0	Ajmer.
29	0	0	0	0	0	0	0	2	N 45° W		0·3			3		47	−10	·238	−·013	1·8	+0·4	0	0·7	−0·7	0	0·23	−0·23	0	0·52	−0·52	0	Kotah.
																																X.—Bombay.
2	0	11	13	1	2	0	0	2	N 72° E	N 56° E	5·5	6·2	−0·7	69	+11	43	−4	·233	+·010	2·4	+0·8	0	0·3	−0·3	0	0·13	−0·13	0	0·19	−0·19	0	Deesa.
24	0	2	1	0	0	0	4	0	N 49° W	N 45° W	2·9	4·7	−1·8	7	−11	53	−7	·314	−·016	0·9	−0·6	0	0·2	−0·2	0	0·07	−0·07	0	0·12	−0·12	0	Bhuj.
4	0	7	9	2	3	5	0	1	S 78° E		3·7			37		82	+22?	·480	+·159?	1·7	+0·9	0	0·2	−0·2	0	0·03	−0·03	0	0·10	−0·10	0	Jamnagar.
2	8	13	3	0	0	1	1	3	N 21° E		3·0			69		71	+2	·492	+·044	2·2	+0·7	0	0·2	−0·2	0	0·05	−0·05	0·19	0·11	+0·08	0	Dwarka.
11	2	4	8	3	1	0	1	0	N 33° E	N 55° E	4·2	3·8	+0·4	43	+1	52	0	·288	+·008	4·0	+2·3?	0	0·2	−0·2	0	0·04	−0·04	0	0·09	−0·09	0	Rajkot.
4	13	10	0	0	0	0	0	4	N 11° E	N 20° E	5·2	4·3	+0·9	79	+4	57	+4	·337	+·038	0·9	−0·4	0	0·1	−0·1	0	0·01	−0·01	0	0·13	−0·13	0	Veraval.
11	0	1	1	0	0	1	7	10	N 62° W	N 85° W	2·2	5·0	−2·8	48	−17	64	+11?	·381	+·097?	1·4	+0·1	0	0·1	−0·1	0	0·03	−0·03	0	0·13	−0·13	0	Bhavnagar Para.
14	3	6	5	2	0	0	0	1	N 57° E	N 5° E	1·5	3·6	−2·1	40	−2	58	−6	·363	−·012	1·2	+0·3	0	0·2	−0·2	0	0·07	−0·07	0	0·12	−0·12	0	Surat.
4	1	15	4	1	0	0	0	6	N 36° E	N 48° E	3·2	3·1	+0·1	62	−9	36	−11	·249	−·018	1·5	0	0	0·1	−0·1	0	0·02	−0·02	0	0·06	−0·06	0	Ahmadabad.
1	3	15	11	1	0	0	0	0	N 60° E	N 56° E	6·0	7·2	−1·2	82	+1	76	+4	·590	+·039	0·5	−0·8	0	0·2	−0·2	0	0·09	−0·09	0	0·16	−0·16	0	Bombay.
2	3	8	8	9	1	0	0	0	N 83° E	S 88° E	6·1	5·6	+0·5	66	+11	53	−10?	·463	−·035	0·8	−0·4	0	0·2	−0·2	0	0·12	−0·12	0	0·21	−0·21	0	Ratnagiri.
0	4	5	20	1	1	0	0	0	N 77° E	S 84° E	5·7	6·0	−0·3	82	+5	83	+1	·651	+·002	1·5	+0·2	0	0·1	−0·1	0	0·03	−0·03	0	0·21	−0·21	0	Marmagao.
19	3	2	0	0	0	0	0	6	N 16° W	N 62° E	1·3	2·6	−1·3	33	−54	85	+4	·585	+·025	0·8	−0·1	0	0·1	−0·1	0	0·07	−0·07	0	0·25	−0·25	0	Karwar.

Table

(2) Abstract of observations taken at 8 hrs. at 211 stations

Number of sub-division.	Station.	Height of bar cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	X.—Bombay—*concld.*																						
26	Malegaon	1,430	28·638	+·037	30·078	28·757	15th	28·551	22nd	·206	60·4	87·9	+2·1	52·6	+0·6	70·3	+1·3	35·3	95·0	31st	46·1	4th	48·9
	Ahmadnagar	2,154	27·906	+·021	30·048	28·056	15th	27·822	7th	·234	63·0	83·4	−1·1	53·3	+1·0	68·4	−0·1	30·1	87·2	28th	46·3	17th	40·9
	Poona	1,846	28·211	+·027	30·066?	28·333	15th	28·145	21st	·194	60·6	86·1	−0·1	53·7	−0·5?	69·9	−0·3?	32·4	91·2	31st	46·7	18th	44·5
	Sholapur	1,590	28·452	+·014	30·019	28·547	15th	28·379	22nd	·168	67·6	86·7	−1·0	59·8	+1·0	73·2	0	26·9	90·3	29th	53·2	18th	37·1
	Bijapur	*1,948*	28·094	+·020	30·009	28·183	15th	28·030	8th	·153	68·1	85·4	−1·0	60·7	+0·8	73·1	−0·1	24·7	89·4	31st	55·7	16th	33·7
	Belgaum	2,562	27·504	+·031	30·022	27·610	15th	27·438	22nd	·172	66·0	82·6	−0·9	57·1?	−0·5?	69·8?	−0·7?	25·5	85·6	31st	53·8	21st	31·8
	XI.—Central India.																						
20	Neemuch	1,626	28·446	+·027	30·099	28·570	15th	28·315	7th	·255	57·5	79·4	+2·1	49·9	+1·4	64·6	+1·7	29·5	89·3	31st	41·9	9th	47·4
	Indore	1,823	28·234	+·026	30·082	28·354	15th	28·131	7th	·223	58·3	81·3	+1·9	50·1	+0·5	65·7	+1·2	31·2	88·7	30th & 31st.	43·9	5th	44·8
21	Nowgong	754	29·328	+·021	30·095	29·480	11th	29·177	22nd	·303	49·8	75·0	+0·8	44·2	−2·9	59·6	−1·1	30·8	86·7	31st	38·0	5th	48·7
	Sutna	1,041	29·032	+·029	30·100	29·175	15th	28·866	22nd	·309	51·5	74·9	+0·3	44·9	−3·1	59·9	−1·4	30·0	83·8	31st	38·5	6th	45·3
	XII.—Central Provinces.																						
22	Buldana	2,134									65·7	80·7	−0·6	58·8	+0·1	69·8	−0·3	21·9	87·2	29th	54·8	17th	32·4
	Akola	925	29·145	+·028	30·061	29·260	11th & 15th.	29·052	7th	·208	62·2	86·5	+0·8	53·4	−0·5	70·0	+0·1	33·1	93·2	31st	48·5	8th	44·7
	Amraoti	1,215	28·846	+·027	30·051	28·972	11th	28·753	22nd	·219	65·8	85·2	+0·3	59·0	+0·8	72·1	+0·5	26·2	90·8	31st	52·2	16th	38·6
23	Khandwa	1,014	29·032	+·037	30·086	29·158	15th	28·958	20th	·200	57·1	85·1	+0·8	51·0	−1·2	68·0	−0·2	34·1	94·6	31st	42·1	5th	51·9
	Hoshangabad	1,006	29·090	+·041	30·106?	29·231	15th	28·980	7th	·251	57·0	80·6	+0·7	50·2	−1·9	65·4	−0·6	30·4	88·5	31st	45·0	11th	43·5
	Saugor	1,807	28·253	+·022	30·078	28·391	11th	28·125	22nd	·266	59·3	78·1	+1·4	53·0	+0·9	65·5	+1·1	25·1	87·3	31st	45·3	5th	42·0
	Jubbulpore	1,327	28·734	+·027	30·095	28·873	11th	28·610	22nd	·263	52·6	77·2	−0·3	46·5	−1·8	61·8	−1·1	30·7	84·9	31st	40·8	6th	44·1
	Seoni	2,033	28·038	+·042	30·090	28·165	15th	27·941	22nd	·224	59·3	78·3	−1·0	49·5	−1·9	63·9	−1·5	28·8	85·7	31st	44·6	11th	41·1
	Nagpur	1,017	29·055	+·032	30·067	29·188	15th	28·948	22nd	·240	61·1	83·7	0	53·9	−1·8	68·8	−0·9	29·8	90·3	31st	48·9	17th	41·4
24	Pendra	2,040	28·017	+·032	30·089	28·155	11th	27·889	22nd	·266	56·4	75·6	−0·4	50·4	−0·4	63·1	−0·4	25·2	82·0	31st	44·7	5th	37·3
	Raipur	970	29·096	+·022	30·065	29·227	11th	28·976	22nd	·251	58·6	80·8	−0·8	54·0	−1·4	67·4	−1·1	26·8	85·7	27th & 31st.	49·1	11th	36·6
	Chanda	*634*	29·439	+·022	30·047	29·569	11th	29·346	22nd	·223	63·6	85·9	+0·4	54·9	0	70·4	+0·2	31·0	91·3	1st	48·4	18th	42·9
	Jagdalpur	1,813	28·231		30·070	28·344	11th	28·134	22nd	·210	55·6	81·7		50·0		65·8		31·7	86·2	31st.	42·1	17th	44·1
	XIII.—Hyderabad.																						
27	Aurangabad	1,905	28·156	+·018	30·040	28·254	12th	28·085	7th	·169	67·0	83·4	−1·8	56·0	+0·7	69·7	−0·5	27·4	89·7	31st	50·1	18th	39·6
	Nizamabad	1,248	28·806		30·037	28·917	15th	28·723	7th	·194	66·4	86·7	+1·1	57·6	+1·2	72·1	+1·1	29·1	90·9	27th	50·7	18th	40·2
	Bidar	*2,165*									70·8	82·9	−0·6	61·4	+0·8	72·1	+0·1	21·5	88·0	31st	58·4	18th	29·6
28	Gulbarga	1,503	28·555	+·026	30·037	28·648	15th	28·501	22nd	·147	67·2	87·4	0	59·4	−0·6?	73·4	−0·3?	28·0	91·4	31st	52·7	17th	38·7
	Raichur	*1,311*	28·747	+·047	30·025	28·837	11th	28·677	22nd	·160	70·8	87·3	+0·3	65·2	+0·7	76·2	+0·5	22·1	91·1	24th	60·7	19th	30·4
	Hyderabad (Deccan)	1,738	28·315	+·022	30·029	28·411	11th	28·243	22nd	·168	67·3	84·3	−0·6	61·6	+1·9	73·0	+0·7	22·7	89·5	31st	55·8	19th	33·2
	Hanamkonda	877	29·201	+·045	30·048	29·315	15th	29·135	22nd	·180	70·6	85·7	0	63·6	+0·8	74·6	+0·4	22·1	89·8	31st	56·2	17th	33·6
	XIV.—Mysore.																						
29	Chitaldrug	2,405	27·654	+·038	29·997	27·751	15th	27·595	28th	·156	69·3	84·2	−0·5	62·1	0	73·1	−0·3	22·1	87·4	23rd	57·3	18th	30·1
	Hassan	3,149	26·945	+·042	30·021	27·021	15th	26·883	21st	·138	63·8	80·8	−1·5	54·8	−0·7	67·8	−1·1	26·0	84·2	23rd	51·6	19th	32·6
	Bangalore	3,021	27·070	+·032	30·033	27·148	15th	27·010	21st	·138	62·8	80·6	−0·1	55·9	−1·5	68·3	−0·8	24·7	85·3	24th	51·2	19th	34·1
	Mysore	2,518	27·549	+·030	30·010	27·617	15th	27·491	21st	·126	67·0	82·0	−2·4?	58·0	−2·4	70·0	−2·4?	24·0	85·4	31st	54·8	4th	30·6

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in January, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1915 to 31st January, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																X.—Bombay—*concld.*
8	0	0	0	0	0	13	7	3	S 69° W	N 68° W	2·8	3·7	−0·9	62	− 3	47	− 6	·252	−·029	1·3	+0·1	0	0·3	−0·3	0	0·14	−0·14	0·01	0·36	−0·35	0	Malegaon.
6	0	0	0	4	2	1	10	8	W	N 5° W	3·1	4·3	−1·2	44	+37	54	− 3 p	·316	−·013	0·4	−0·7	0	0·2	−0·2	0	0·13	−0·13	2·70	0·58	+2·12	0	Ahmadnagar.
0	0	0	0	0	0	31	0	0	S 45° W	S 70° W	6·1	4·5	+1·6	100	+22	72	+13	·381	+·064?	0·1	−1·1	0	0·2	−0·2	0	0·06	−0·06	0	0·25	−0·25	0	Poona.
5	1	5	4	12	0	1	0	3	S 79° E	S 66° E	5·5	5·7	−0·2	43	−12	50	+ 3 p	·341	+·018	0·8	−0·7	0	0·2	−0·2	0	0·13	−0·13	0·38	0·59	−0·21	0	Sholapur.
12	0	1	1	10	1	0	1	5	S 48° E	S 59° E	2·2	3·1	−0·9	20	−24	52	−13	·358	−·080	0·4	−1·4	0	0·1	−0·1	0	0·01	−0·01	0·04	0·31	−0·27	0	Bijapur.
27	0	0	3	1	0	0	0	0	S 79° E	S 81° E	7·6	7·3	+0·3	13	−30	67	+ 8	·425	+·043	1·1	−0·5	0	0·2	−0·2	0	0·10	−0·10	0·76	0·44	+0·32	0	Belgaum.
																																XI.—Central India.
10	2	0	19	0	0	0	0	0	N 84° E	N 48° E	3·7	4·7	−1·0	62	+12	49	− 7	·234	−·016	2·0	+0·3	0	0·4	−0·4	0	0·19	−0·19	0·06	0·40	−0·34	0	Neemuch.
21	0	2	3	3	0	0	1	1	E	N 36° E	1·9	1·8	+0·1	15	+ 4	52	− 9	·258	−·036	1·2	−0·8	0	0·4	−0·4	0	0·14	−0·14	0·55	0·39	+0·16	0	Indore.
15	3	3	1	1	6	0	2	0	S 49° E	N 56° W	0·8	1·0	−0·2	10	−16	71	− 5	·254	−·050	2·0	−0·6	0	1·7	−1·7	0	0·67	−0·67	0·04	1·17	−1·13	0	Nowgong.
16	0	1	0	0	2	5	7	0	S 64° W	N 20° W	1·8	3·0	−2·2	37	+ 1	59	−12	·228	−·093	1·0	−1·5	0	2·0	−2·0	0	0·95	−0·95	0·02	1·38	−1·36	0	Sutna.
																																XII.—Central Provinces.
7	0	1	6	8	1	0	4	4	S 59° E		1·0	4·2	−3·2	19		43		·276		1·2		0	0·5	−0·5	0	0·23	−0·23	2·60	0·82	+1·78	0	Buldana.
16	1	2	6	4	0	2	0	0	S 78° E	S 84° E	1·9	2·7	−0·8	30	− 5	50	− 4	·281	−·020	0·9	−0·9	0	0·5	−0·5	0	0·31	−0·31	1·26	1·02	+0·24	0	Akola.
3	0	12	11	3	0	2	0	0	N 76° E	N 87° E	3·5	3·1	+0·4	66	+ 5	44	− 7	·278	−·042	1·0	−0·5	0	0·7	−0·7	0	0·35	−0·35	0·45	0·92	−0·47	0	Amraoti.
31	0	0	0	0	0	0	0	0	Calm	N 39° E	2·4	2·4	0	*a*		59	+4?	·275	+·002?	0·2	−1·3	0	0·5	−0·5	0	0·24	−0·24	0·63	0·55	+0·08	0	Khandwa.
4	0	20	2	3	1	0	0	1	N 57° E	N 63° E	1·5	2·0	−0·5	66	+ 9	54	−11	·252	−·056	0·6	−1·3	0	0·8	−0·8	0	0·27	−0·27	0·12	0·78	−0·66	0	Hoshangabad
3	0	3	6	11	6	2	0	0	S 48° E	S 84° E	3·5	2·6	+0·9	62	+33	34	−21 p	·170	−·093	1·8	0	0	1·2	−1·2	0	0·60	−0·60	0	1·13	−1·13	0	Saugor.
6	1	0	3	16	5	0	0	0	S 43° E	S 63° E	1·1	1·5	−0·4	69	+33	66	—	·264	−·059	1·2	−0·8	0	1·5	−1·5	0	0·75	−0·75	0·10	1·06	−0·96	0	Jubbulpore.
20	4	4	1	0	0	1	1	0	N 19° E	N 39° E	1·9	1·9	0	20	−12	53	−12	·270	−·056	1·0	−0·8	0	1·2	−1·2	0	0·50	−0·50	0·18	1·05	−0·87	0	Seoni.
10	13	5	1	0	0	0	0	2	N 9° E	N 13° E	2·5	2·6	−0·1	59	+27	51	− 6	·252	−·050	1·7	−0·1	0	0·8	−0·8	0	0·34	−0·34	0·16	0·90	−0·74	0	Nagpur.
30	0	0	0	0	0	0	0	1	N 45° W		0·6			3		54	−10	·245	−·050	1·4	−0·6	0	1·9	−1·9	0	0·85	−0·85	0	1·23	−1·23	0	Pendra.
9	4	2	4	1	1	1	4	5	N 18° W	N 13° E	1·5	2·0	−0·5	23	+13	65	+ 1	·321	−·023	0·7	−1·1	0	0·7	−0·7	0	0·21	−0·21	0	0·47	−0·47	0	Raipur.
27	1	3	0	0	0	0	0	0	N 34° E	N 68° E	3·8	1·5	+2·3	13	−15	71	+ 1	·419	+·016	0·8	−0·9	0	0·4	−0·4	0	0·23	−0·23	0	0·51	−0·51	0	Chanda.
7	4	1	3	2	1	5	6	2	S 72° W.		1·5			10		88		·390		4·1		0			0			0			0	Jagdalpur.
																																XIII.—Hyderabad.
6	1	8	11	4	0	0	1	0	N 78° E		4·1			59		47	− 1	·318	+·002	1·0	0	0	0·4	−0·4	0	0·27	−0·27	1·18	0·58	+0·60	0	Aurangabad.
14	2	2	2	4	2	2	1	2	S 59° E		1·6			7		64	+ 1	·410	−·022	0·9	−0·6	0	0·3	−0·3	0	0·10	−0·10	0·10	0·21	−0·11	0	Nizamabad.
1	0	4	3	6	8	7	1	1	S 12° E		4·5			45		54	−9?	·412	−·048	2·9	+2·0?	0	0·5	−0·5	0	0·21	−0·21	0·02	0·51	−0·49	0	Bidar.
10	1	4	11	0	3	2	0	0	S 87° E	S 86° E	2·6	5·2	−2·6	40	+ 8	54*	− 4	·348*	−·050	0·6	−0·7	0	0·2	−0·2	0	0·12	−0·12	0·04	0·34	−0·30	0	Gulbarga.
1	0	2	7	17	2	2	0	0	S 54° E	S 55° E	6·3	5·9	+0·4	76	+23	63	+ 1	·472	+·008	2·1	+0·2	0	0·1	−0·1	0	0·08	−0·08	0	0·23	−0·23	0	Raichur.
26	0	1	0	3	0	1	0	0	S 45° E	S 51° E	2·1	2·6	−0·5	10	−15	76	+ 3	·506	+·049	2·0	−0·1	0	0·4	−0·4	0	0·23	−0·23	0	0·46	−0·46	0	Hyderabad (Deccan).
2	1	0	0	14	14	0	0	0	S 23° E		2·9			82		70	− 2	·522	+·012	1·3	−1·9	0	0·6	−0·6	0	0·45	−0·45	0·01	0·57	−0·56	0	Hanamkonda.
																																XIV.—Mysore.
2	0	1	11	14	3	0	0	0	S 60° E	S 69° E	5·7	4·9	+0·8	79	+24	57	− 5	·405	−·050	1·5	−0·5	0	0·2	−0·2	0	0·15	−0·15	0·29	0·57	−0·28	0	Chitaldrug.
6	0	0	14	11	0	0	0	0	S 70° E	S 80° E	3·7	2·1	+1·6	74	+ 5	70	− 4	·415	−·058	1·5	−1·8	0	0·2	−0·2	0	0·03	−0·03	0·10	0·86	−0·76	0	Hassan.
0	0	6	17	7	1	0	0	0	S 87° E	N 87° E	6·2	3·9	+2·3	86	+ 4	78	− 1	·446	−·027	2·5	−0·8	0	0·4	−0·4	0	0·27	−0·27	0·24	0·76	−0·52	0	Bangalore.
3	2	11	8	4	2	1	0	0	N 76° E	N 72° E	6·2	6·4	−0·2	59	−11	67	− 6	·442	−·054	1·0	−2·5	0	0·2	−0·2	0	0·15	−0·15	0·38	0·53	−0·24	0	Mysore.

* Mean of 21 days.

a Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 211 stations

Number of sub-division.	Station.	Height of cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced and to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	XV.—Madras.																						
30	Mangalore	72	29·974	+·028	29·978	30·028	10th	29·927	21st	·101	75·7	88·8	−0·3	69·5	+0·9	79·1	+0·3	19·3	91·5	11th	66·3	20th	25·2
	Calicut	27	30·010	+·033	29·966	30·056	9th	29·958	22nd	·098	73·5	86·8	−0·6	69·0*	−1·3*	77·9*	−0·9	17·8	88·9	1st	65·8	20th	23·1
	Cochin	9	30·023	+·034	29·958	30·066	9th & 10th.	29·972	21st & 22nd.	·094	73·8	90·3	+1·0	70·1	−1·7	80·2	−0·3	20·2	93·7	15th	67·5	4th	26·2
	Trivandrum	198	29·824	+·045	29·955	29·874	10th	29·775	22nd & 28th.	·099	74·5	86·9	+3·2	70·7	−1·8	78·8	+0·7	16·2	90·0	15th	67·2	31st	22·8
31	Pamban	37	30·017	+·029	29·982	30·036	10th	29·947	21st	·139	77·0	83·9	+1·2	73·8	−0·7	78·9	+0·3	10·1	85·4	26th	72·7	8th	12·7
	Madura	447	29·617	+·034	30·006	29·689	15th	29·541	21st	·148	74·1	86·5	−0·9	70·0	+1·2?	78·3	+0·1?	16·5	85·0	31st	67·4	28th	21·6
	Pudukkottai	318	29·748	+·033	30·006	29·797	10th	29·689	22nd	·108	71·7	85·7	−1·1	66·3	−1·4	76·0	−1·3	19·4	88·1	22nd & 31st.	63·4	4th	24·7
	Negapatam	31	30·036	+·038	29·996	30·097	10th	29·980	22nd	·117	75·7	83·0†	+0·7†	70·7	−0·7	77·0†	0	12·3	84·6	6th	65·8	23rd	18·8
	Trichinopoly	255	29·824	+·040	30·018	29·897	15th	29·761	21st & 22nd.	·136	73·1	87·2	−0·3	65·3	−2·2	76·3	−1·3	21·9	90·1	31st	61·8	26th	28·3
	Coimbatore	1,341	28·739	+·055	30·043	28·822	15th	28·672	21st	·150	69·6	85·4	−1·3	62·2	−2·2	73·8	−1·7	23·2	88·5	31st	56·2	4th	32·3
	Salem	913	29·163	+·048	30·030	29·241	15th	29·097	21st	·144	71·5	87·3	−1·3	62·7	−1·7	75·0	−1·5	24·6	91·0	24th	57·8	4th	33·2
	Cuddalore	27	30·044	+·038	30·012	30·120	15th	29·977	21st	·143	71·8	83·0	−0·3	67·4	−0·6	75·2	−0·5	15·6	84·1	9th	64·0	24th	20·1
	Vellore	707	29·385	+·047	30·055?	29·465	15th	29·318	31st	·147	66·9	83·9	−0·8	60·5	−4·5?	72·2	−2·7?	23·4	87·2	31st	55·4	19th	31·8
	Madras	22	30·065	+·033	30·017	30·146	15th	29·995	31st	·151	73·3	85·0	+0·3	66·4	−1·2	75·7	−0·5	18·6	86·5	31st	62·6	19th	23·9
32	Cuddapah	423	29·645	+·028	30·022	29·733	11th	29·576	21st	·157	73·0	88·5	0·4	65·6	+0·2	77·1	−0·1	22·9	92·3	24th	59·7	19th	32·6
	Bellary	1,475	28·570	+·020	30·012	28·669	15th	28·503	22nd	·166	70·1	87·2	−1·0	62·0	+0·4	74·6	−0·3	25·2	91·3	31st	57·5	19th	33·8
	Kurnool	923	29·149	+·042	30·040	29·238	14th & 15th.	29·078	7th	·160	68·1	87·3	−1·4	61·3	+1·1	74·3	−0·1	26·0	91·9	31st	54·4	19th	37·5
33	Nellore	66	30·017	+·023	30·019	30·110	15th	29·942	31st	·168	71·7	85·6	−0·3	67·1	+0·1	76·4	−0·1	18·5	88·6	31st	62·1	19th	26·5
	Masulipatam	15	30·087	+·027	30·035	30·177	11th	30·011	23rd	·166	71·2	82·7	−0·8	65·7	−0·2	74·2	−0·5	17·0	85·3	31st	59·4	18th	25·9
	Coconada	26	30·089	+·043	30·051	30·180	11th & 15th.	30·008	31t	·172	70·8	81·3	−0·3	66·2	−0·1	73·8	−0·2	15·1	86·1	30th	59·5	18th	26·6
	Waltair (Vizagapatam).	*296*	29·875	+·032	30·049	29·984	15th	29·786	31st	·198	71·5	81·3	+0·5	66·9	−1·0	74·1	−0·3	14·4	83·4	31st	60·3	18th	23·1
	Calingapatam	19	30·085		30·042	30·195	11th	29·977	31st	·218	67·2	81·8		63·3		72·5		18·5	89·0	31st	55·9	18th	23·1
	Gopalpur	33	30·063	+·026	30·038	30·200	11th	29·946	31st	·254	66·0	80·1	−0·1	62·6	+0·4	71·4	+0·1	17·5	88·9	31st	54·9	18th	34·0
	Bay Islands.																						
1	P. V. Fraser	8	30·084		30·045	30·197	11th	30·000	23rd	·197	73·2												
	Port Blair	58	29·969	+·030	29·957	30·044	10th	29·903	22nd	·141	77·1	84·5	−1·9	72·8	−2·8	78·6	−2·3	11·7	87·6	17th	68·9	24th	18·7
	Kashmir.																						
13	Muzaffarabad		27·683			27·833	12th	27·537	31st	·296	44·0	65·0		39·7		52·4		25·3	71·0	30th	31·9	4th	39·1
	Srinagar	5,202	25·018	+·030	24·989	25·185	13th	24·869	7th	·316	31·0	46·9	+6·3	27·8	+1·3	37·4	+3·8	19·1	53·4	26th	18·4	4th	35·0
	Dras	*10,050*	20·842	+·071	20·810	21·032	16th	20·606	7th	·426	1·5	20·9	+1·7	−8·8	+1·8	6·1	+1·7	29·7	29·9	22nd	−20·7	24th	50·6
	Leh	*11,503*	19·709	+·060	19·677	19·912	16th	19·472	7th	·440	13·4	33·0	+2·7	9·4	+0·9	21·2	+1·8	23·6	46·7	29th	2·7	10th	44·0
	Skardu	*7,505*	23·005	+·053	22·975	23·221	11th	22·774	31st	·447	24·1	37·1	+2·6	21·6	+5·0	29·4	+3·8	15·5	42·5	2nd	15·7	16th	26·8
	Gilgit	4,890	25·343	+·071	25·316	25·571	10th	25·044	31st	·527	36·6	50·9	+5·3	33·5	+1·5	42·2	+3·4	17·4	57·2	30th	27·7	5th	29·5

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
* Mean of 29 day
† " " 28 "

B—*continued.*

in India, etc., in January, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1915 to 31st Jan. 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																XV.—Madras.
0	0	3	25	3	0	0	0	0	E	S 85° E	5·0	2·3	+2·7	94	+16	63	− 3	·556	−·023	1·4	−0·8	0	0·2	− 0·2	0	0·08	− 0·08	0·02	0·56	− 0·54	0	Mangalore.
1	0	4	21	5	0	0	0	0	S 89° E	N 80° E	3·8	6·1	−2·3	89	+ 6	77	− 1	·633	−·046	1·0	−0·7	0	0·5	− 0·5	0	0·42	− 0·42	0·27	1·52	− 1·25	0	Calicut.
0	0	9	21	1	0	0	0	0	N 79° E	N 42° E	4·0	3·7	+0·3	96	+15	66	− 7	·545	−·108	0·7	−1·1	0	0·8	− 0·8	0	0·64	− 0·64	0·64	2·25	− 1·61	0	Cochin.
4	3	16	8	0	0	0	0	0	N 54° E	N 44° E	3·5	2·9	+0·6	76	+26	66	−11	·559	−·122	1·1	−2·0	0	1·4	− 1·4	0·01	0·66	− 0·65	2·22	2·86	− 0·64	0·01	Trivandrum.
0	5	26	0	0	0	0	0	0	N 38° E	N 15° E	7·9	3·3	−0·4	96	+52	85	0	·790	−·010	3·5	−0·2	0	3·1	− 3·1	0	1·97	− 1·97	7·92	9·52	− 1·60	0	Pamban.
0	8	8	4	0	0	0	4	7	N 2° E	N 3° E	4·8	3·7	+1·1	62	−17	72	− 5	·609	−·052	4·0	+1·1P	0	1·0	− 1·0	0	0·51	− 0·51	1·46	2·29	− 0·83	0	Madura.
6	10	13	0	0	0	0	0	2	N 21° E		5·0			71		77	− 6	·600	−·089	2·6	−2·4	0	1·6	− 1·6	0	1·23	− 1·23	4·38	2·28	+ 2·10	0	Pudukkottai.
0	1	18	0	0	0	0	3	9	N 10° E	N 1° W	10·8	5·7	+5·1	62	+ 1	80	− 1	·709	−·021	4·5	−0·7	0	2·4	− 2·4	0	1·76	− 1·76	10·93	13·04	− 2·11	0	Negapatam.
7	13	2	0	0	0	1	4	4	N 20° W	N 18° E	3·3	3·2	+0·1	59	+11	75	− 4	·614	−·047	2·0	−1·1	0	1·1	− 1·1	0	0·59	− 0·59	2·87	3·27	− 0·40	0	Trichinopoly.
6	5	15	5	0	0	0	0	0	N 45° E	N 67° E	2·5	2·1	+0·4	69	− 3	76	− 8	·552	−·074	2·4	−1·9	0	1·0	− 1·0	0	0·60	− 0·60	0·67	1·75	− 1·08	0	Coimbatore.
20	0	1	6	0	0	0	4	0	N 75° E	N 50° E	3·0	3·5	−0·5	10	−32	78	+ 1	·598	−·016	0·8	−2·1	0	0·6	− 0·6	0	0·34	− 0·34	0·42	1·44	− 1·02	0	Salem.
5	4	2	0	0	0	0	1	19	N 34° W	N 21° W	2·9	1·9	+1·0	76	− 3	81	− 7	·631	−·091	3·4	0	0	1·8	− 1·8	0	1·23	− 1·23	2·74	8·44	− 5·70	0	Cuddalore.
31	0	0	0	0	0	0	0	0	Calm		2·2			(a)		86	+ 1	·562	−·058	1·2	−1·7	0	1·7	− 1·7	0	1·62	− 1·62	0·87	5·14	− 4·27	0	Vellore.
7	4	3	0	0	0	1	7	9	N 45° W	N 16° E	3·4	4·2	−0·8	56	− 2	82	− 2	·652	−·057	2·3	−1·0	0	1·5	− 1·5	0·04	0·91	− 0·87	0·47	7·15	− 6·68	0·04	Madras.
1	3	2	7	8	2	1	1	6	N 88° E	S 65° E				26	−28	68	− 7	·546	−·052	1·3	−0·8	0	0·4	− 0·4	0	0·36	− 0·36	0·12	1·40	− 1·28	0	Cuddapah.
4	0	2	5	9	6	3	2	0	S 34° E	S 36° E	2·7	2·6	+0·1	53	+11	64	0	·465	+·014	1·4	−1·0	0	0·2	− 0·2	0	0·11	− 0·11	0·01	0·23	− 0·22	0	Bellary.
20	0	3	6	2	0	0	0	0	N 86° E	S 80° E	2·4			30	+26	68	− 3	·468	−·022	1·4	+0·1	0	0·4	− 0·4	0	0·11	− 0·11	0	0·41	− 0·41	0	Kurnool.
16	3	0	1	0	4	3	0	4	S 86° W	N 51° W	2·3	2·7	−0·4	12	−39	85	− 2	·642	−·044	1·8	−2·5	0	1·1	− 1·1	0	1·43	− 1·43	0·42	4·50	− 4·08	0	Nellore.
5	16	9	0	0	0	0	0	1	N 14° E	N 14° E	3·2	3·4	−0·2	79	+ 4	83	− 3	·636	−·027	2·2	0	0	0·2	− 0·2	0	0·17	− 0·17	0	1·21	− 1·21	0	Masulipatam.
3	18	4	1	0	0	0	0	5	N 1° E	N 7° W	5·0	5·7	−0·7	77	− 4	80	+ 3	·607	+·020	1·7	−0·8	0	0·3	− 0·3	0	0·16	− 0·16	0	1·24	− 1·24	0	Cocanada.
10	2	4	4	1	3	3	2	2	N 79° E	N 78° W	3·1			5	−44	77	+ 5	·595	+·022	2·4	−0·1	0	0·7	− 0·7	0	0·71	− 0·71	0	1·76	− 1·76	0	Waltair (Vizag.).
4	3	2	0	0	0	0	9	13	N 51° W		4·5			71		82		·555		1·9		1	1·3	− 0·3	0·74	0·39	+ 0·35	0·74	3·17	− 2·43	0·74	Calingapatam.
0	15	0	0	1	0	0	0	15	N 22° W	N 21° W	6·1	6·1	0	89	+ 8	77	− 3	·493	−·034	1·5	+0·8	0	0·4	− 0·4	0	0·23	− 0·23	0	1·20	− 1·20	0	Gopalpur.
																																Bay Islands.
4	7	6	0	1	4	4	1	4	N 16° W					23		71		·589		2·3		0			0			0			0	P. V. Fraser.
1	12	7	4	1	0	0	0	6	N 27° E	N 23° E	4·9	4·7	+0·2	62	− 4	72	− 9	·662	−·127	2·3	−1·8	0	1·7	− 1·7	0	1·01	− 1·01	12·52	7·82	+ 4·70	0	Port Blair.
																																Kashmir.
28	0	1	0	0	1	0	0	0	S 75° E		0·9			4		71*		·208*		3·8		2			1·99			2·57			1·62	Muzaffarabad
13	2	0	1	4	2	2	3	4	S 67° W	S 26° E	2·0	2·3	−0·3	10	− 8	78†	−11	·161†	+·015	6·8	−0·9	4	6·3	− 2·3	0·79	2·98	− 2·19	1·01	4·39	− 3·38	0·25	Srinagar.
29	1	0	0	0	0	0	0	1	N 24° W		0·2			7						6·8	+0·7	6	8·2	− 2·2	2·17	2·73	− 0·56	3·06	4·44	− 1·38	0·71	Dras.
21	5	5	0	0	0	0	0	0	N 23° E	S 13° W	1·7	0·7	+1·0	30	− 8					6·8	+0·1	0	1·1	− 1·1	0·15	0·37	− 0·22	0·23	0·54	− 0·31	0·04	Leh.
30	0	0	0	0	0	0	1	0	W		0·5			3		91‡		·133‡		7·5	+0·8	1	2·2	− 1·2	0·28	0·78	− 0·50	0·29	1·10	− 0·81	0·10	Skardu.
31	0	0	0	0	0	0	0	0	Calm		0			(a)		65§	0	·146§	+·006	6·3	−1·0	0	0·7	− 0·7	0·08	0·21	− 0·13	0·03	0·32	− 0·29	0·03	Gilgit.

(a) Indeterminate.
* Mean of 30 days.
† Mean of 17 days.
‡ " " 13 "
§ Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs. at 211 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Baluchistan.																						
15	Fort Sandeman	4,614	25·501		25·470	25·655	15th	25·352	31st	·303	35·8	59·7		32·7		46·2		27·0	65·7	8th	22·9	4th	42·8
	Quetta	5,502	24·694	0	24·654	24·883	15th	24·550	30th	·333	32·8	55·5	+4·6	29·0	+0·3	42·2	+2·5	26·5	62·3	19th	10·6	3rd	45·7
	Chaman	4,311	25·767	—·012	25·729	25·963	15th	25·504	30th	·459	41·3	57·2	+4·7	37·1	+1·5	47·1	+3·1	20·1	63·7	19th	25·7	3rd	38·0
	Kalat	6,630	23·783		23·745	23·961	15th	23·636	30th	·325	30·7	54·2	+3·5	26·3	+4·8	40·3	+4·1	27·9	64·0	17th	13·5	3rd	50·5
	Dalbandin	2,772	27·229		27·192	27·455	15th	26·948	30th	·507	41·3	65·3		37·1		51·2		28·2	74·6	7th	24·1	3rd	50·5
	Pasni		30·086		30·046	30·253	15th	29·954	30th	·299	60·1	77·1		55·2		66·1		21·9	81·5	5th	45·2	3rd	36·3
	Panjgur		26·850		26·808	27·045	15th	26·623	30th	·422	44·3	66·7		41·7		54·2		25·0	71·6	18th	33·5	3rd & 4th	38·1
	Robat		26·962		26·920	27·191	2nd	26·657	30th	·534	43·9	64·2							73·3	20th			
	Hill stations, excluding Kashmir and Baluchistan.																						
	Para Chinar	6,000	24·515	+·024	24·491	24·627	15th	24·387	31st	·240	36·3	53·9	+4·2	31·3	+2·6	42·6	+3·4	22·6	60·2	17th	25·1	3rd & 4th.	35·1
	Cherat	*4,956*	25·834	+·066	25·862	25·993	12th	25·690	31st	·303	45·6	53·5	+4·1	41·5	+2·9	47·5	+3·5	12·0	57·9	17th	36·2	16th	21·7
	Drosh*		25·247			25·425	13th	25·050	31st	·375	37·7	49·6	+0·8	35·2	+4·6	42·4	+2·7	14·4	55·5		31·8	3rd, 4th & 31st.	23·7
	Murree	6,333	23·904	+·052	23·872	24·025	15th	23·801	31st	·224	41·0	49·0	+2·6	38·2	+3·8	43·6	+3·2	10·8	54·8	14th	31·4	24th	23·4
	Simla	7,232	23·138	+·046	23·100	23·260	12th	23·042	23rd	·218	40·6	48·0	+2·3	37·5	+2·4	42·7	+2·3	10·5	53·4	31st	31·5	10th	21·9
	Sarain		23·186	+·021	23·147	23·315	12th	23·082	7th	·233	31·6	49·0	+3·7	28·4	+1·1	38·7	+2·4	20·6	54·8	31st	22·6	10th	32·2
	Kalabagh																						
	Chakrata	7,072	23·448		23·408	23·569	12th	23·344	23rd	·225													
	Mukteswar	7,592	22·872	+·027	22·831	22·980	11th, 12th & 14th.	22·756	23rd	·224	40·5	52·2	+2·4	37·0	+1·7	44·6	+2·1	15·2	59·3	31st	29·8	8th	29·5
	Darjiling ‡	7,432	22·968	+·007	22·923	23·123	15th	22·837	22nd	·286	37·4	46·6	0	34·8	+0·1	40·7	+0·1	11·8	54·4	31st	31·1	10th	23·3
	Shillong	4,920	25·208	+·018	25·160	25·327	11th & 15th.	25·089	22nd	·238	45·5	58·6	—2·0	39·9	+1·4	49·3	—0·3	18·7	62·7	16th	35·4	26th	27·3
	Cherrapunji	4,309	25·771	+·021	25·722	25·886	11th	25·668	22nd	·218	51·6	60·0	+0·6	45·6	-0·1	52·8	+0·3	14·4	64·7	17th	42·1	3rd	22·6
	Maymyo	3,516	26·537	+·037	26·482	26·668	15th	26·432	22nd	·236	47·5	68·9	—1·9	41·6	+2·9	55·3	+0·5	27·3	72·5	17th	37·8	10th	34·7
	Pachmarhi	3,528	26·577	+·020	26·524	26·728	15th	26·462	7th	·266	51·7	72·2	+0·5	45·0	-2·5	53·6	—1·0	27·2	80·0	31st	38·1	5th	41·9
	Mount Abu	3,945	26·162	+·035	26·112	26·272	15th	26·060	7th	·212	59·4	68·2	+2·3	53·3	+2·3	60·7	+2·3	14·9	77·0	26th	47·2	4th	29·8
	Mercara	3,781	26·311	+·021	26·244	26·362	10th	26·257	28th	·105	60·7	76·5	—1·3	54·0	—3·0	65·3	—2·1	22·5	80·0	23rd	51·5	2nd	28·5
	Ootacamund	*7,327*	23·108	+·023	23·044	23·170	15th	23·072	7th	·098	55·6	68·2	+3·3	39·9	—3·3	54·1	0	28·3	74·5	27th & 29th.	33·7	9th	40·8
	Kodaikanal	7,688	22·879	+·014	22·814	22·925	15th	22·844	7th & 8th.	·081	55·7	67·2	+4·2	45·5	-1·6	56·3	+1·3	21·7	76·3	26th	40·4	11th	35·9
	Extra India.																						
	Singapore (a)	10	29·898	—·062	29·829	29·977	10th	29·835	23rd	·142	81·1	86·8	—0·1	72·4	—0·6	79·6	—0·8	14·4	90·0	31st	70·0	5 days	20·0
	Penang (a)	17	29·891	—·034	29·833	29·985	16th	29·802	30th	·183	80·6	89·2	—0·1	71·0	—2·3	80·1	—1·2	18·2	92·0	11th	66·0	30th & 31st.	26·0
	Trincomalee	99	29·957	+·027	29·956	29·992	10th	29·871	22nd	·111	76·4	83·4	0	74·3	0	78·9	0	9·1	88·6	26th	70·3	31st	18·3
	Colombo	24	29·988	+·028	29·938	30·054	10th	29·941	21st	·113	71·4	87·0	—0·6	69·4	—2·8	78·2	—1·7	17·6	90·5	22nd	64·3	8th	26·2
	Hambantota	64	29·944		29·934	30·014	10th	29·895	21st	·119	72·2	86·0		71·2		78·6		14·8	89·2	20th & 31st.	67·3	9th	21·9
	Minicoy	7	30·063	+·078		30·095	16th	30·026	20th	·069													
	Amini Divi	*13*	30·020	+·021	29·961	30·069	16th	29·963	28th	·106	83·2	88·0	+2·6	72·7	—1·5	80·4	+0·5	15·3	89·8	7th & 30th.	68·3	18th	21·5
	Gyantse †	13,110	18·460		18·361	18·522	14th	18·315	7th	·207	19·5	45·1		1·0		23·0		44·1	51·3	30th	0·3	1st, 2nd & 3rd.	51·5
	Phari Jong	14,400																					
	Gangtok	5,167	24·499	—·013	24·454	24·594	20th	24·355	11th	·239	44·7	57·0	—0·5	39·9	+7·7	48·4	+3·6	17·1	65·7	31st	35·2	21st	30·5
	Gartok *	15,100																					

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations. † Mean of 29 days. ‡ Mean of 28 days.
* Aneroid.

B—*continued.*

in India, etc., in January, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N. E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1915 to 31st Jan., 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Baluchistan.
25	1	0	0	0	0	0	0	0	N 45° W		0·3			3		60*		·142*		3·2		2			0·77			0·77			0·47	Fort Sandeman.
21	0	0	3	4	3	0	0	0	S 45° E	N 13° W	2·6	2·1	+0·5	27	+22	82‡	0	·195‡	+·047	5·6	+1·8	5	4·5	+0·5	2·65	1·92	+0·73	2·65	2·96	−0·21	1·84	Quetta.
4	0	0	12	12	2	0	1	0	S 62° E	S 58° E	3·7	5·0	−1·3	69	+ 9	62†	− 9	·168†	−·010	5·2	+0·2	7	3·8	+3·2	2·62	1·38	+1·24	2·62	2·50	+0·12	0·55	Chaman.
30	0	0	0	0	1	0	0	0	S	S 30° W	4·0			3	−46	78‡	+ 7	·169‡	+·028	5·8		4	3·1	+0·9	1·82	1·17	+0·65	2·24	2·35	−0·11	0·96	Kalat.
10	4	9	3	2	1	1	0	1	N 49° E		3·5			40		66‖		·199‖		4·5		3			2·51			2·51			1·21	Dalbandin.
7	4	1	2	1	0	1	0	9	N 45° W		5·6			46		83		·437		2·6		4			2·06			2·24			0·65	Pasni.
5	1	15	7	1	1	1	0	0	N 62° E		4·4			62		76		·230		4·4		5			2·58			4·34			1·62	Panjgur.
2	0	0	0	0	4	20	5	0	S 47° W		4·3			86		51		·148		3·0		2			0·90			0·90			0·50	Robat.
																																Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		0·6§			(a)		62‖	−11	·141‖	−·008	3·7	−0·3	5	4·4	+0·6	2·00	2·14	−0·14	2·07	3·39	−1·32	1·17	Para Chinar.
6	22	0	0	0	1	0	0	2	N 3° W	N 12° W	9·4	9·8	−0·4	72	+ 2	36	−21	·108	−·038	4·7	+0·5	2	3·9	−1·9	0·54	2·66	−2·12	0·67	4·15	−3·48	0·34	Cherat.
28	0	1	2	0	0	0	0	0	N 75° E		1·9			10		61	−15	·136	−·015	5·9	+1·7	2	2·6	−0·6	1·58	0·84	+0·74	1·61	1·86	−0·25	1·14	Drosh.
10	0	2	2	4	7	6	0	0	S 9° E	S 62° E	6·6	6·6	0	43	− 6	47	−15	·120	−·016	3·4	−1·5	2	6·0	−4·0	1·26	4·08	−2·82	1·81	5·53	−3·72	1·10	Murree.
																46	− 7	·114	−·006	4·5	−0·3	1	4·9	−3·9	0·27	2·64	−2·37	1·33	3·88	−2·55	0·21	Simla.
																72¶		·165¶		4·6	+0·1	2	7·3	−5·3	2·01	5·92	−3·91	2·09	8·02	−5·93	1·35	Sarain.
																																Kalabagh.
																				2·2	−1·7	1	5·3	−4·3	0·22	4·19	−3·97	0·63	5·53	−4·70	0·15	Chakrata.
11	0	0	4	2	0	1	12	1	S 80° W		5·7			27		51	− 4	·125	−·001	3·7	−0·1	0	4·1	−4·1	0	2·38	−2·38	0·61	3·21	−2·60	0	Mukteswar.
28	0	0	0	0	0	0	0	0	Calm	S 57° E	0·4§	2·7	−2·3	(a)		84	+ 3	·186	−·001	5·4	+1·3	1	1·5	−0·5	0·36	0·64	−0·28	0·41	0·86	−0·45	0·15	Darjiling.
24	0	0	1	0	2	4	0	0	S 22° W		1·6			20		79	+ 9	·242	+·024	1·9	+0·5	0	0·7	−0·7	0	0·26	−0·26	0	0·45	−0·45	0	Shillong.
15	2	6	4	0	0	2	2	0	N 45° E		2·5			27		72	0	·270	−·001	4·0	+2·1	1	1·3	−0·3	0·22	0·38	−0·16	0·22	0·62	−0·40	0·22	Cherrapunji.
31	0	0	0	0	0	0	0	0	Calm		1·0			(a)		96	+ 8	·318	+·003	2·0	+0·2	0	0·3	−0·3	0	0·07	−0·07	2·34	0·53	+1·81	0	Maymyo.
21	0	1	1	1	0	4	2	1	S 56° W	S 3° E	2·5	2·6	−0·1	10	− 8	70	+ 9	·266	−·022	0·3	−1·6	0	1·3	−1·3	0	0·62	−0·62	0·50	1·18	−0·68	0	Pachmarhi.
16	1	6	0	0	1	6	0	1	N 45° W	N 2° W	3·0	3·8	−0·8	3	−15	41	− 2	·213	+·017	2·2	+0·3	0	0·7	−0·7	0	0·29	−0·29	0	0·45	−0·45	0	Mount Abu.
4	0	6	21	0	0	0	0	0	N 81° E	N 74° E	2·7	3·6	−0·9	32	+ 8	76	− 3	·403	−·039	3·0	−1·1	0	0·3	−0·3	0	0·17	−0·17	0·32	1·02	−0·70	0	Mercara.
12	0	0	4	9	4	1	0	0	S 41° E		2·5			49		35	−21	·148	−·079	1·3	−1·1	0	1·8	−1·8	0	2·07	−2·07	1·58	4·35	−2·77	0	Ootacamund.
1	3	10	11	4	0	0	0	2	N 66° E		9·8			69		31	−27	·123	−·113	1·6	−1·4	0	4·4	−4·4	0	3·22	−3·22	5·32	7·31	−1·99	0	Kodaikanal.
																																Extra India.
3	6	22	0	0	0	0	0	0	N 36° E					82						5·7	+0·7	7	13·3	−6·3	2·40	10·96	−8·56	15·68	21·65	−5·97	0·46	Singapore.
0	9	3	7	0	0	2	8	2	N 8° W					37						7·7	+6·8	4	7·0	−3·0	1·72	4·22	−2·50	4·97	11·37	−6·40	1·02	Penang.
0	5	20	3	1	0	0	1	1	N 40° E	N 30° E	6·7	5·6	+1·1	79	+14	76	− 9	·692	−·108	5·5	+1·5	0	7·0	−7·0	0·08	5·48	−5·40	9·08	19·73	−10·65	0·04	Trincomalee.
5	12	14	0	0	0	0	0	0	N 24° E	N 37° E	5·0	6·3	−1·3	79	− 2	80	0	·615	−·158	7·5	+3·9	1	4·8	−3·8	0·31	3·52	−3·21	1·83	8·94	−7·11	0·30	Colombo.
0	13	18	0	0	0	0	0	0	N 26° E		13·0	6·3	+6·7	96		83		·660		2·4		1			0·32	3·12	−2·80	8·89	8·54	+0·35	0·27	Hambantota.
0	6	12	7	2	1	0	0	3	N 47° E	N 42° E	2·4	4·7	−2·3	65	0					3·9	+0·7	0	2·8	−2·8	0·01	1·90	−1·89	3·09	4·96	−1·87	0·01	Minicoy.
2	12	12	0	0	0	0	0	4	N 15° E		3·6			78		76	+ 3	·779	−·005	3·0	−1·0	0	1·0	−1·0	0	0·60	−0·60	0·45	1·44	−0·99	0	Amini Divi.
15	0	0	0	13	0	1	0	0	S 42° E		7·0§			48								0			0·02						0·02	Gyantse.
																																Pharijong.
26	1	3	1	0	0	0	0	1	N 14° E		1·1			13		86	+ 8	·253	+·018	2·8	−0·3	11	2·9	+8·1	2·62	1·00	+1·62	2·75	1·89	+0·86	0·47	Gangtok.
																																Gartok.

(a) Indeterminate.

* Mean of 24 days.
† " " 29 "
‡ " " 17 "

§ Mean of 27 days.
‖ " " 26 "
¶ " " 9 "

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Extra India—*concld.*																						
	Kashgar (c) . .	4,255	25·654	−·076		25·910	10th	25·310	6th	·600	16·8	39·4	+6·0	14·0	+2·2	26·7	+4·1	25·4	46·8	23rd	6·5	11th	40·3
	Kabul (c) . .		24·275	−·060		24·420	14th	24·100	31st	·320	29·0	56·4	+10·7	25·1	+7·3	40·7	+9·0	31·3	65·6	17th	17·2	24th	48·4
	Meshed . . .	3,104	26·008		29·382	26·290	2nd	25·624	19th	·666	29·4	48·8	+5·2	24·8	+2·5	36·8	+3·9	24·0	60·4	18th	10·0	25th	50·4
	Jask . . .	13	30·083	−·006	30·049	30·291	15th	29·811	29th	·480	64·3	76·2	+2·4	62·0	+1·4	69·1	+1·9	14·2	84·5	9th	58·7	12th&13th	25·8
	Muscat . . .	20	30·115	+·001	30·083	30·296	15th	29·798	29th	·498	68·5	78·5	+5·0	66·5	−0·6	72·5	+2·2	12·0	84·2	7th	57·9	30th	26·4
	Bahrein . . .	18																					
	Bushire . . .	14	30·090	−·018	30·066	30·249	13th	29·753	29th	·496	53·7	63·7	−0·7	50·4	−1·0	57·0	−0·9	13·3	74·7	6th	43·6	23rd	31·1
	Busrah . . .	25	P	P	P	P	P	P	P	P	50·4	62·4	+2·5	43·4	−0·3	52·9	+1·1	19·0	71·3	6th	32·1	31st	39·2
	Kerman . . .																						
	Ispahan (c) . .	*5,817*																					
	Tehran (c) . .	*4,002*																					
	Baghdad . .	127																					
	Aden . . .	94	29·963	−·021	29·991	30·071	16th	29·850	29th	·221	74·8	79·9	−0·2	73·1	+0·6	76·5	+0·2	6·8	83·0	30th & 31st	68·7	5th	14·3
	Zanzibar . .	72	29·921	+·005	29·919	30·040	16th	29·820	22nd	·220	82·4	87·6	+1·5	80·1	+0·7	83·9	+1·1	7·5	92·7	21st	71·9	21st	20·8

N. B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(c) Aneroid.

B—*concluded.*

stations in India, etc., in January, 1916—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 31st Jan., 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Extra India —*concld.*
30	0	0	1	0	0	0	0	0	E	N 56° W	0·4	0·4	0	3	0					4·2	−0·9	0	0·9	−0·9	0	0·20	−0·20	0	0·29	−0·29	0	Kashgar.
0	0	2	0	2	0	8	15	4	S 82° W	N 82° W				68	+63	86*		·184*		4·8	+1·4	2	2·9	−0·9	1·26	1·36	−0·10	1·26	1·87	−0·61	1·01	Kabul.
28	1	0	1	1	0	0	0	0	N 82° E		0·9			6		80*		·179*		6·0	+1·4	6	1·9	+4·1	1·34	0·76	+0·58	1·69	1·54	+0·15	0·39	Meshed.
0	11	14	3	1	0	0	0	2	N 30° E	N 18° E	8·6	8·8	−0·2	79	+ 8	75	+ 1	·451	−·003	3·5	−0·2	4	2·2	+1·8	2·60	0·79	+1·81	2·60	2·06	+0·54	1·70	Jask.
14	0	0	4	0	1	1	3	8	N 53° W	S 59° W	1·3	3·5	−2·2	23	−10	66	− 2	·460	−·025	3·9	+1·1	4	1·8	+2·2	3·85	1·08	+2·77	4·12	1·70	+2·42	3·10	Muscat.
																							0·9			0·27			1·18			Bahrein.
7	4	8	1	5	0	0	2	4	N 31° E	N 58° E	5·7	5·8	−0·1	33	−21	83	+ 5	·350	+·003	7·2	+3·3	8	4·2	+3·8	3·85	2·68	+1·17	4·05	5·93	−1·88	1·73	Bushire.
7	1	0	2	9	1	8	3	0	S 2° W		4·8			38		80		·298				6	2·6	+3·4	3·47	1·17	+2·30	3·68	1·99	+1·69	1·10	Busrah.
																																Kerman.
										S 79° W		2·3											1·8			0·67			1·46			Ispahan.
										N 16° E		2·1											4·0			1·69			2·97			Tehran.
										N 8° W		2·3											2·2			1·04			2·21			Baghdad.
7	4	19	1	0	0	0	0	0	N 39° E	N 80° E	10·0	9·9	+0·1	69	− 5	79	+ 3	·674	+·023	6·6	+0·7	0	1·0	−1·0	0	0·38	−0·38	0	0·51	−0·51	0	Aden.
5	12	13	0	0	0	0	0	0	N 21° E	N 28° E	5·6	5·7	−0·1	78	+ 1	78	− 3	·862	−·013	6·8	+0·2	1	5·4	−4·4	1·63	3·37	−1·74	2·24	8·91	−6·67	1·56	Zanzibar.

* Mean of 8 days.

Table C.—Abstract of observations taken at 8 hrs. at 56 fourth and fifth class stations in India, etc., in January, 1916.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	55·4	73·0	+0·2	49·2	+4·3	61·1	+2·3	23·8	78·7	17th	42·7	13th & 17th.	36·0	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	55·7	74·9	+0·1	46·9	+1·0	61·9	+0·5	26·0	81·0	17th	41·6	13th	39·4	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	54·4	80·8	+2·9	45·5	−3·8	63·1	−0·5	35·3	83·6	16th	45·0	14th	38·6	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	50·0	73·9	+9·8	47·5	+2·4	60·7	+6·1	26·4	80·6	16th	40·5	11th & 12th.	40·1	...	...	...	...	...	...	...	...	...	...	...
	Dikom	52·5	72·8	+1·3	47·6	+2·2	60·2	+1·7	25·2	79·4	19th	40·8	11th	38·6	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	53·8	71·3	−0·8	48·2	...	60·3	...	22·1	76·9	18th	43·4	13th	33·5	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	56·2	78·2	+0·9	50·3	−0·4	64·3	+0·3	27·9	82·0	16th & 31st.	43·4	27th	38·6	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	54·1	72·6	+0·2	51·0	+1·8	61·8	+1·0	21·6	77·3	17th	44·6	12th	32·7	...	...	...	...	...	...	...	...	...	...	...
	Lumding *	55·1	73·7	...	51·4†	...	62·5†	...	22·3	78·3	18th	43·8	30th	34·5	...	...	...	...	...	...	...	...	...	...	...
	Messa	57·6	78·1	−1·2	46·3	+1·7	62·2	+0·3	31·8	81·6	22nd	42·1	11th, 12th & 19th.	39·5	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	50·6	74·5	+0·1	49·8	+3·6	62·1	+1·9	24·7	79·1	17th	43·3	13th	35·8	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	60·5	79·4	+1·7	52·6	−0·3	66·0	+0·7	26·8	81·8	31st	48·4	5th	32·4	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	59·9	78·9	+1·6	49·6	−0·7	64·3	+0·5	29·3	84·1	28th & 30th.	44·1	3rd & 5th.	40·0	...	...	...	...	...	...	...	...	...	...	...
	Pabna	58·2	79·1	−0·1	53·0	+2·0	66·1	+0·9	26·1	83·0	28th	45·7	5th	37·3	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	52·8b	88·5	+7·8	53·0a	+9·1	70·7	+8·5	35·5	93·4	30th	44·6	12th & 15th.	48·8	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	60·4	74·9	−0·2	45·7	+0·1	60·3	−0·1	29·2	79·1	18th	40·2	5 days	37·1	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	64·2	75·6	+1·3	51·0	−0·8	63·3	+0·3	24·6	80·1	19th	47·0	10th & 12th.	33·1	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 30 days. † Mean of 14 days.
b " " 18 "
a " " 25 "

C.

and fifth class stations in India, etc., in January, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 31st Jan., 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					II.—Assam.
...	...	...	...	...	91	− 3	·401	+0·38	...	...	4	2·8	+1·2	1·28	1·11	+0·17	1·65	1·36	+0·49	0·45	Bishnath.
...	...	...	...	...	84	− 7	·375	+0·18	...	...	4	1·8	+2·2	1·02	0·79	+0·23	1·06	0·85	+0·21	0·42	Borjuli.
...	...	...	...	...	95	+ 1	·402	−·014	...	...	1	2·6	−1·6	0·42	1·32	−0·90	0·42	1·86	−1·44	0·40	Chandkhira.
...	...	...	...	...	88	− 7	·321	−·030	...	...	4	4·2	−0·2	0·90	1·68	−0·78	1·20	2·09	−0·89	0·35	Doom Dooma.
...	...	...	...	...	94	− 2	·371	+·028	...	...	5	4·5	+0·5	1·41	1·48	−0·07	1·98	2·03	−0·05	0·41	Dikom.
...	...	...	...	...	94	+ 2	·392	+·001	...	...	4	3·5	+0·5	1·78	1·07	+0·71	1·89	1·46	+0·43	0·59	Golaghat.
...	...	...	...	...	91	− 3	·412	+·004	...	...	2	1·8	+0·2	0·81	2·14	−1·33	0·81	2·65	−1·84	0·70	Hailakandi.
...	...	...	...	...	97	+ 2	·408	[illegible]09	...	...	4	2·5	+1·5	1·26	0·85	+0·41	1·72	1·27	+0·45	0·32	Jorehat.
...	...	...	...	...	97	...	·416	...	...	...	2	0·9	+1·1	1·33	0·34	+0·99	1·33	0·55	+0·78	1·14	Lumding.
...	...	...	...	...	74	− 4	·353	−·023	...	...	3	1·4	+1·6	1·08	0·56	+0·52	1·78	0·89	+0·89	0·53	Messa.
...	...	...	...	...	96	+ 1	·357	+·025	...	...	2	1·5	+0·5	0·94	0·41	+0·53	1·19	0·67	+0·52	0·67	Pancrihat.
																					III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	0	1·0	−1·0	0	0·32	−0·32	0	0·54	−0·54	0	Comilla.
...	...	...	...	...	77	−10	·407	−·058	...	...	0	1·3	−1·3	0	0·37	−0·37	0	0·87	−0·87	0	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	0	1·1	−1·1	0	0·55	−0·55	0	0·63	−0·63	0	Faridpur.
...	...	...	...	...	77	− 9	·398	−·008	...	...	0	1·3	−1·3	0	0·43	−0·43	0	0·66	−0·66	0	Goalundo.
...	...	...	...	...	80	− 1	·393	−0·17	...	...	0	1·2	−1·2	0	0·56	−0·56	0	0·75	−0·75	0	Pabna.
...	...	...	...	...	...	...	...	...	...	...	0	0·9	−0·9	0	0·41	−0·41	0	0·50	−0·50	0	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	1·0	−1·0	0	0·40	−0·40	0	0·43	−0·43	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	1·2	−1·2	0	0·70	−0·70	0	0·72	−0·72	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	1·1	−1·1	0	0·44	−0·44	0	0·48	−0·48	0	Rangpur.
...	...	...	...	...	856	11	·339a	+0·10	...	...	1	1·0	0	0·26	0·32	−0·06	0·28	0·51	−0·23	0·20	Dam Dim.
...	...	...	...	...	68	−12	·364	−·031	...	...	4	1·3	+2·7	0·87	0·48	+0·39	0·98	0·81	+0·17	0·28	Kalchini.
...	...	...	...	...	65	−16	·389	+·014	...	...	2	1·5	+0·5	0·40	0·74	−0·34	0·40	1·12	−0·72	0·13	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	0·6	−0·6	0	0·16	−0·16	0	0·23	−0·23	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	1·2	−1·2	0	0·57	−0·57	0	0·63	−0·63	0	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	1·3	−1·3	0	0·50	−0·50	0	0·59	−0·59	0	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	1·3	−1·3	0	0·56	−0·56	0	0·65	−0·65	0	Raniganj (Asansol).
																					IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	1·6	−1·6	0	0·77	−0·77	0	0·99	−0·99	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	1·2	−1·2	0	0·60	−0·60	0·01	0·64	−0·63	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	1·3	−1·3	0	0·65	−0·65	0	0·70	−0·70	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	1·3	−1·3	0	0·57	−0·57	0·02	0·73	−0·71	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	1·4	−1·4	0	0·68	−0·68	0·03	0·81	−0·78	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	1·3	−1·3	0	0·74	−0·74	0·03	0·91	−0·88	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	1·4	−1·4	0	0·63	−0·63	0·03	0·86	−0·83	0	Dehri.

a Mean of 18 days.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	53·2	79·2	...	48·3	...	63·8	...	30·9	87·2	31st	43·0	6th	44·2	25	3	0	0	0	0	0	0	3	N 22° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	69·5	86·8	...	60·5	...	73·6	...	26·3	90·8	31st	54·8	19th	36·0	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	70·9	84·0	...	64·6	...	74·3	...	19·4	91·2	31st	56·7	18th	34·5	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	53·1	68·7	...	49·2	...	58·9	...	19·5	74·1	25th	41·8	10th	32·3	0	11	19	1	0	0	0	0	0	N 30° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	18·8	33·8	...	4·7	...	19·2	...	29·1	40·9	19th	2·6	10th	43·5	0	2	3	6	13	6	0	0	1	S 60° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	59·2	72·2	0	53·5	+1·4	63·4	+0·7	19·8	77·3	17th	49·0	9th	28·3	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	51·6	57·0	+0·7	44·6	—0·2	50·8	+0·3	12·4	62·3	19th	40·2	20th	23·1	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	46·4	+6·3	26·1	+3·3	36·2	+4·8	20·3	52·8	30th	20·2	8th	32·6	20	1	0	5	2	0	0	3	0	S 83° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	56·6	+5·4	27·3	+3·0	42·0	+4·2	29·3	62·3	4 days	12·0	3rd	50·3	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in January, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 31st Jan., 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	2·3	−2·3	0	1·17	−1·17	0·04	1·66	−1·62	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	2	3·8	−1·8	0·61	2·27	−1·66	0·82	3·14	−2·32	0·47	Dehra Dun.
																					IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	0·3	−0·3	0	0·06	−0·06	0·07	0·17	−0·10	0	Udaipur.
																					XII.—Central Provinces.
2·2	...	...	19	...	65	...	·266	...	0·6	...	0	...	...	0	...	...	0·63	...	...	0	Chhindwara.
																					XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	..	0	0·2	−0·2	0	0·05	−0·05	2·52	0·29	+2·23	0	Parbhani.
																					XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	0	2·2	−2·2	0	1·35	−1·35	3·20	4·68	−1·48	0	Tinnevelly.
...	...	...	...	...	81	...	·563	...	1·2	...	0	0·1	−0·1	0	0·04	−0·04	0	0·20	−0·20	0	Anantapur.
...	...	...	...	...	85	...	·646	...	...	...	0	0·4	−0·04	0	0·32	−0·32	0	0·34	−0·34	0	Guntur.
																					Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	4·5	...	...	3·80	...	...	10·71	...	...	Car Nicobar.
																					Kashmir.
...	...	...	90	...	54	...	·221	...	1·5	...	0	4·2	−4·2	0	3·01	−3·01	0·20	4·21	−4·01	0	Jammu.
...	...	...	...	...	...	...	...	...	...	...	9	12·2	−3·2	8·31	11·50	−3·19	9·65	17·37	−7·72	2·75	Sonamarg.
...	...	...	65	...	...	...	...	...	7·7	...	1	3·9	−2·9	0·32	1·26	−0·94	0·60	1·90	−1·30	0·12	Kargil.
																					Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	2·3	−1·3	0·89	1·03	−0·14	0·89	1·77	−0·88	0·80	Harnai.
																					Hill stations, exclusive of Kashmir.
...	...	...	...	...	64	− 5	·318	−·020	...	...	0	0·8	−0·8	0·12	0·35	−0·23	0·29	0·79	−0·50	0·05	Panighatta.
...	...	...	...	...	93	+17	·361	+·114	...	...	1	1·5	−0·5	0·31	0·49	−0·18	0·43	1·11	−0·68	0·21	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	9	...	...	9·25	...	...	9·51	...	...	3·30	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	4	...	...	0·96	...	...	0·96*	...	...	0·14	Lachung.
...	...	...	...	...	...	...	...	...	...	...	8	...	...	3·70	...	...	3·70*	...	...	1·42	Ringim.
...	...	...	...	...	...	...	...	...	...	...	1	4·2	−3·3	0·39	2·73	−2·34	1·45	3·73	−2·28	0·32	Mussooree.
...	...	...	10	...	...	...	...	...	5·0	−0·3	1	5·3	−4·3	0·31	1·95	−1·64	0·61	2·78	−2·17	0·29	Poo.
...	...	...	...	...	...	...	...	...	...	...	...	5·3	...	...	2·81	...	...	3·81	...	...	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	5·0	...	6	3·6	+2·4	2·94	1·56	+1·38	2·94	2·83	+0·11	1·62	Pishin.

* Rainfall since 1st January 1916.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

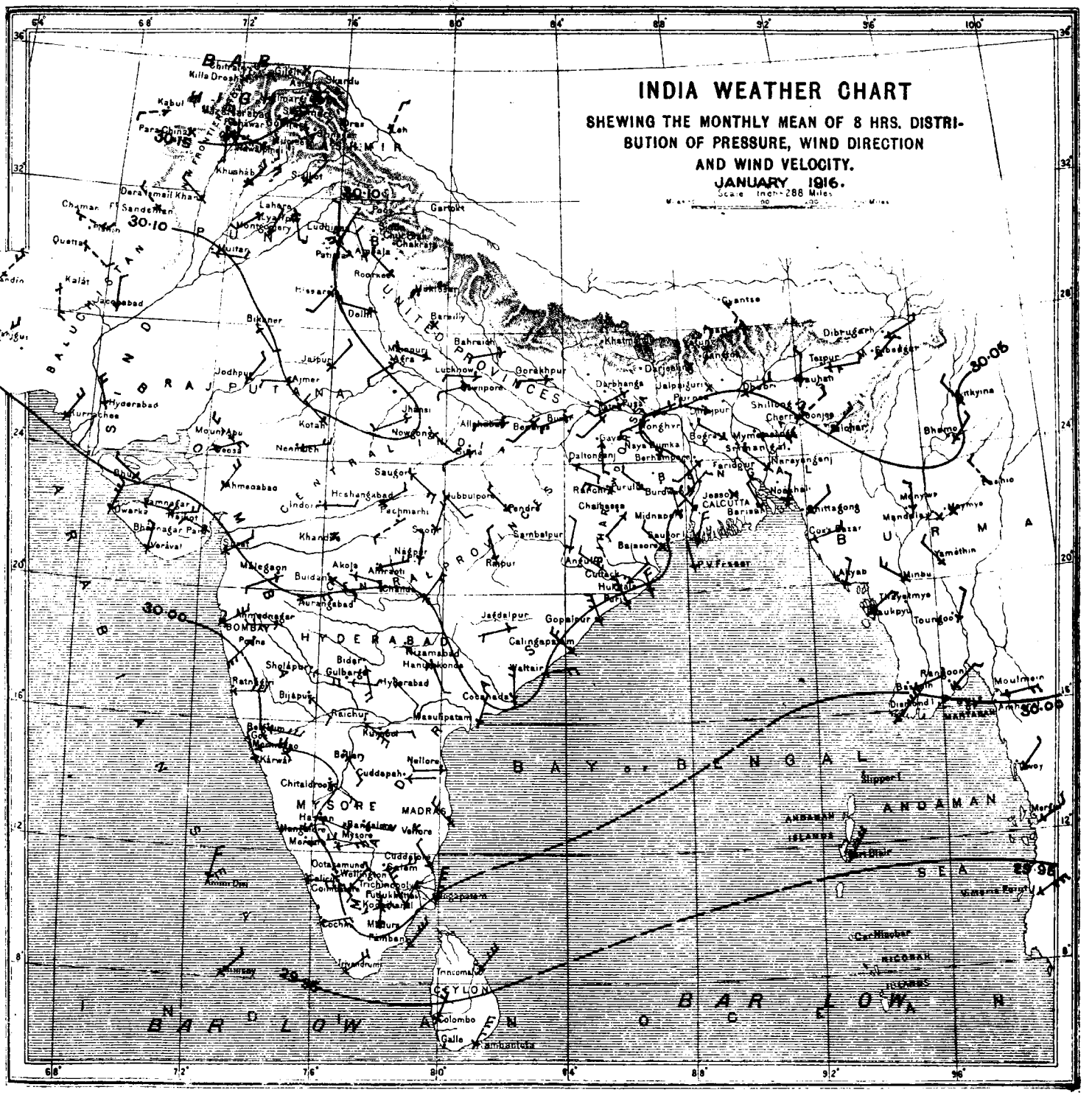
Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi	24·6	26·4	...	18·4	...	22·4	...	8·0	32·0	8th	14·0	22nd	18·0	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Prison Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

and fifth class stations in India, etc., in January, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 31st Jan., 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					Extra India.
...	...	...	...	...	...	...	...	...	...	...	0	...	...	0·05	...	...	0·05	...	...	0·05	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	2	5·4	−3·4	1·50	2·93	−1·43	3·30	10·29	−6·99	1·15	Pamba.
...	...	...	...	...	...	...	...	...	...	...	...	5·0	...	...	2·53	...	...	8·20	...	...	Prison Island.

CALCUTTA
SUPERINTENDENT, GOVERNMENT PRINTING, INDIA
8 HASTINGS STREET

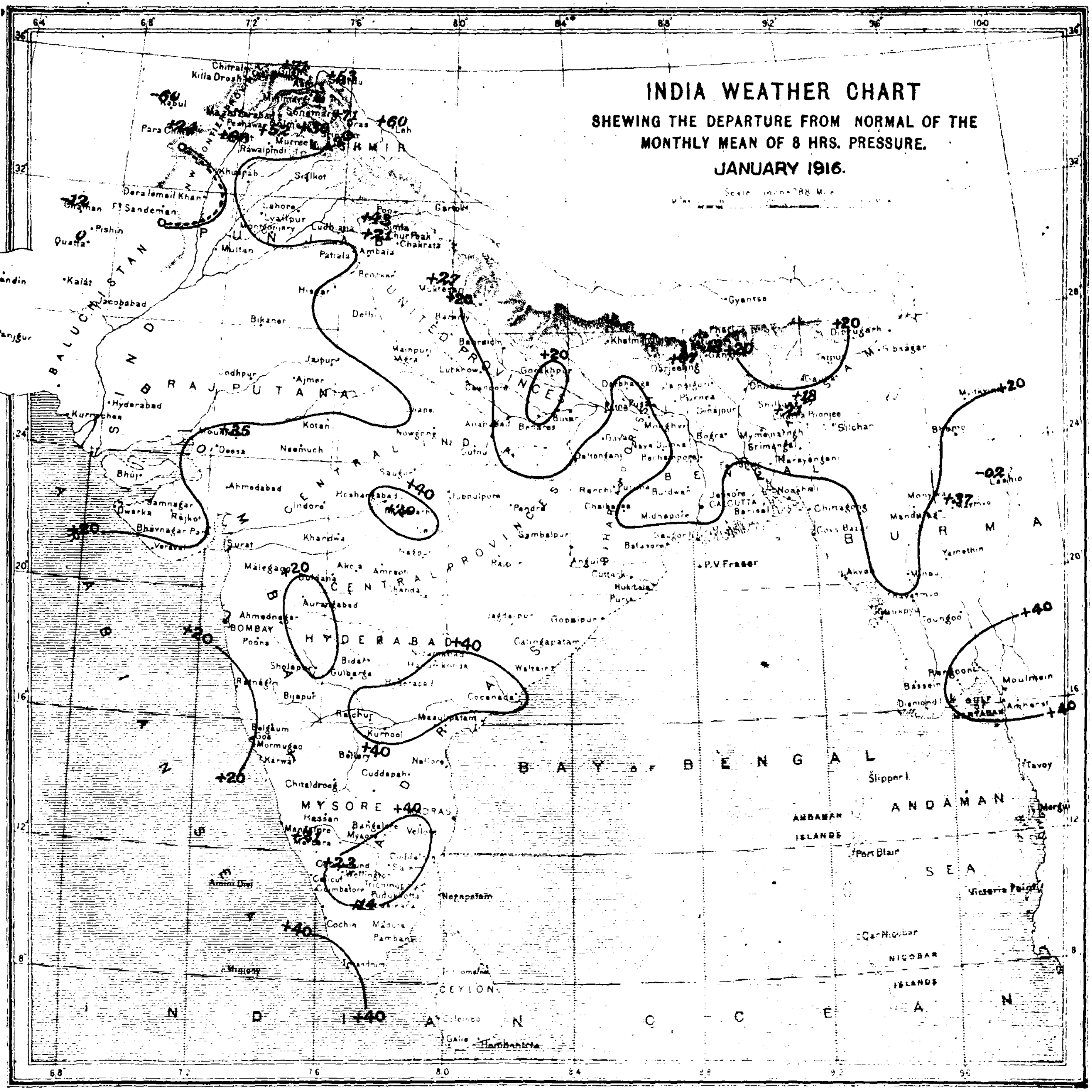


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	..	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	..	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

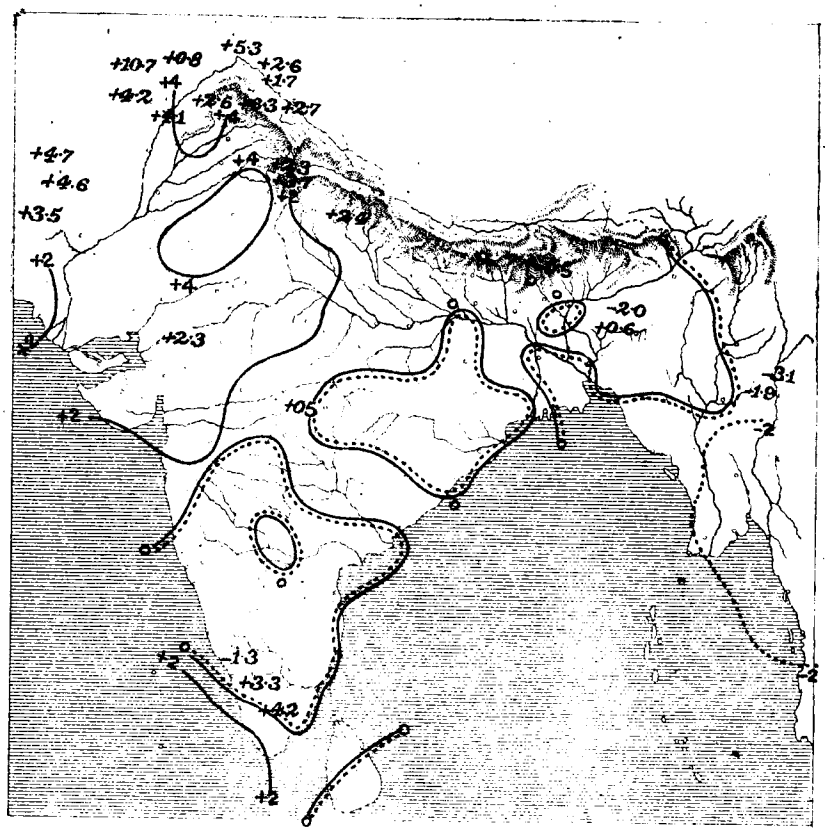


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

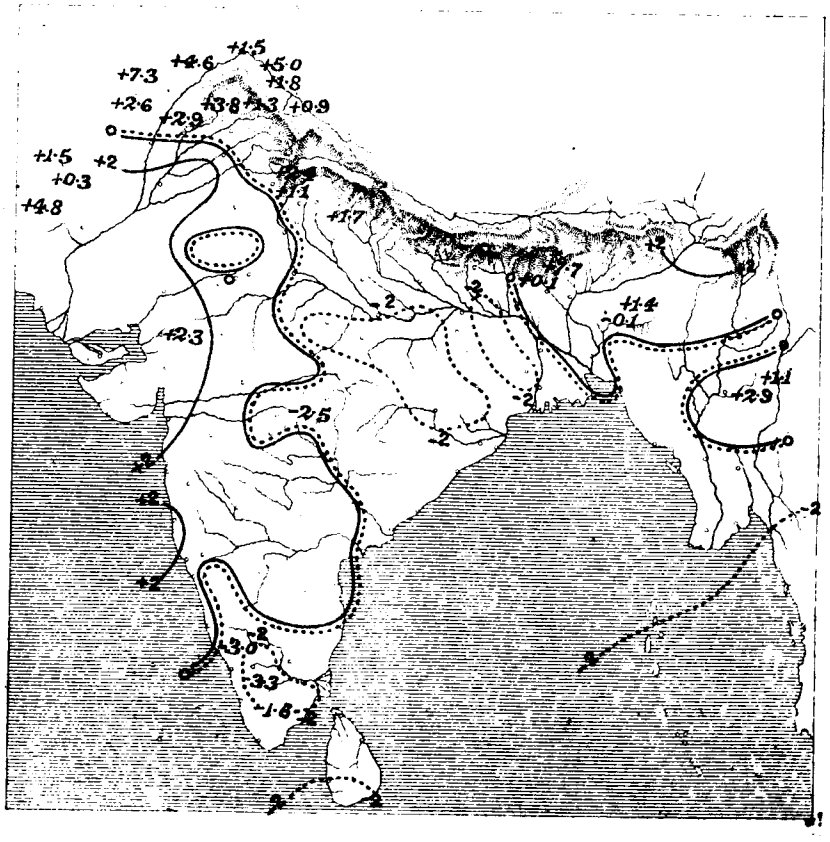


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

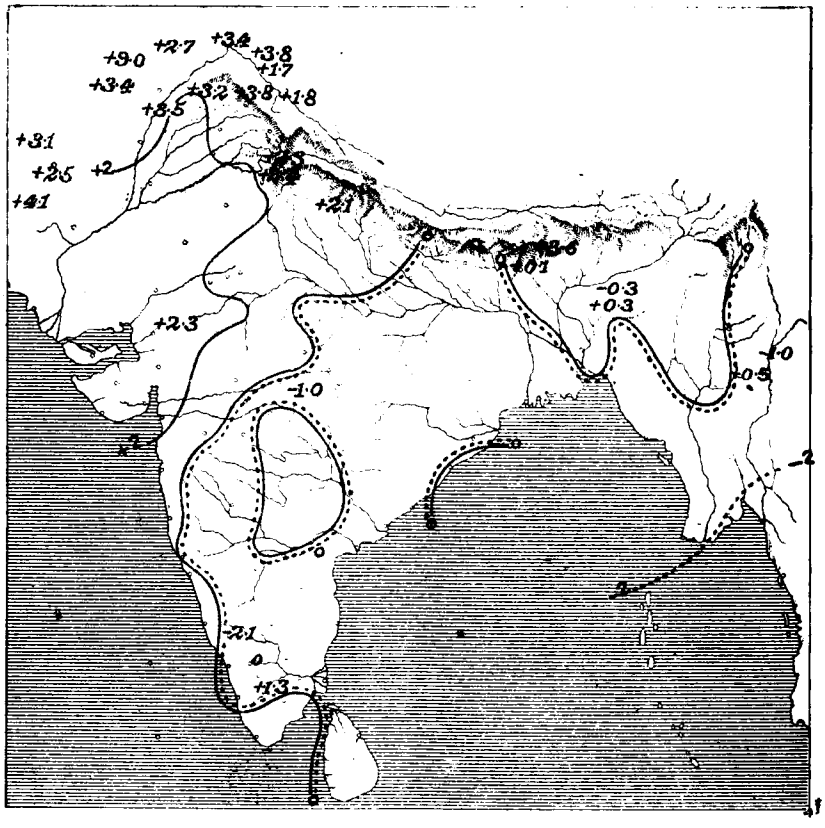


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

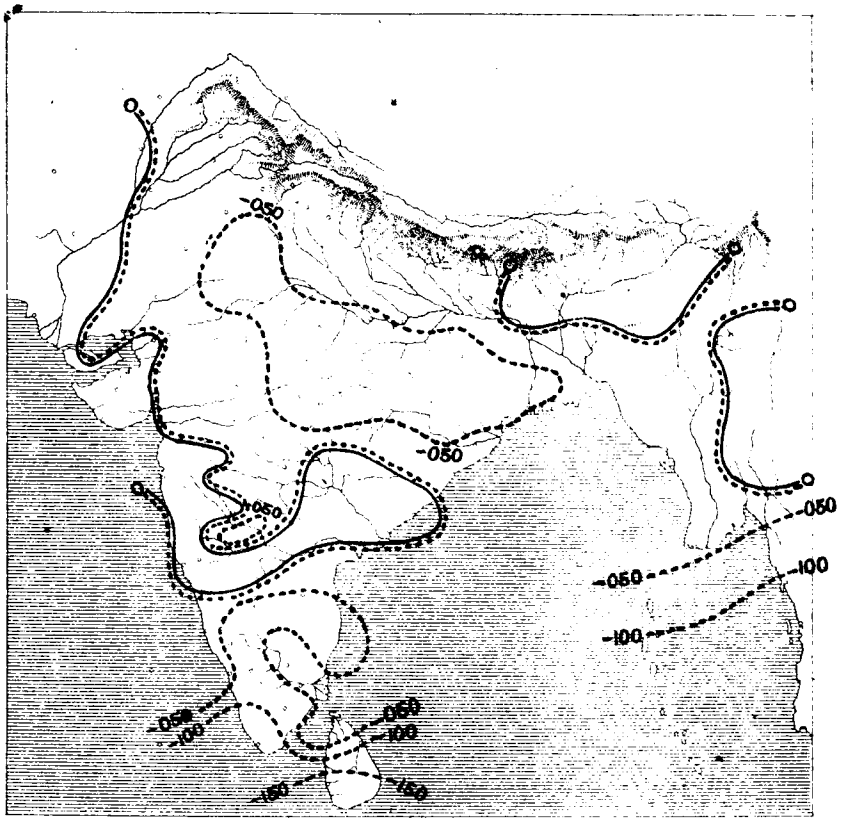


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

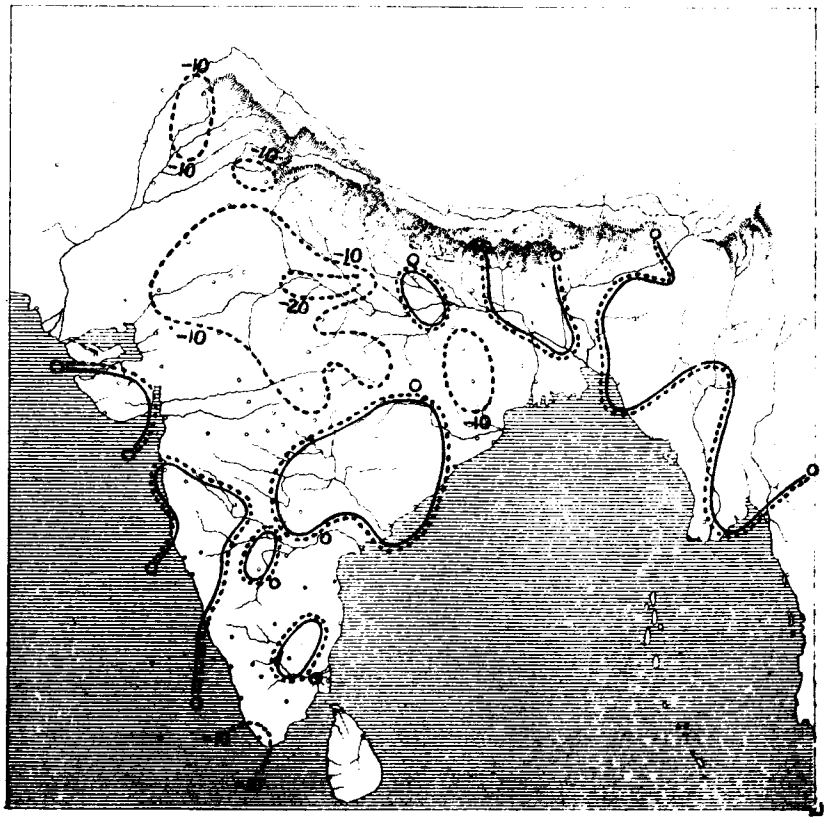


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

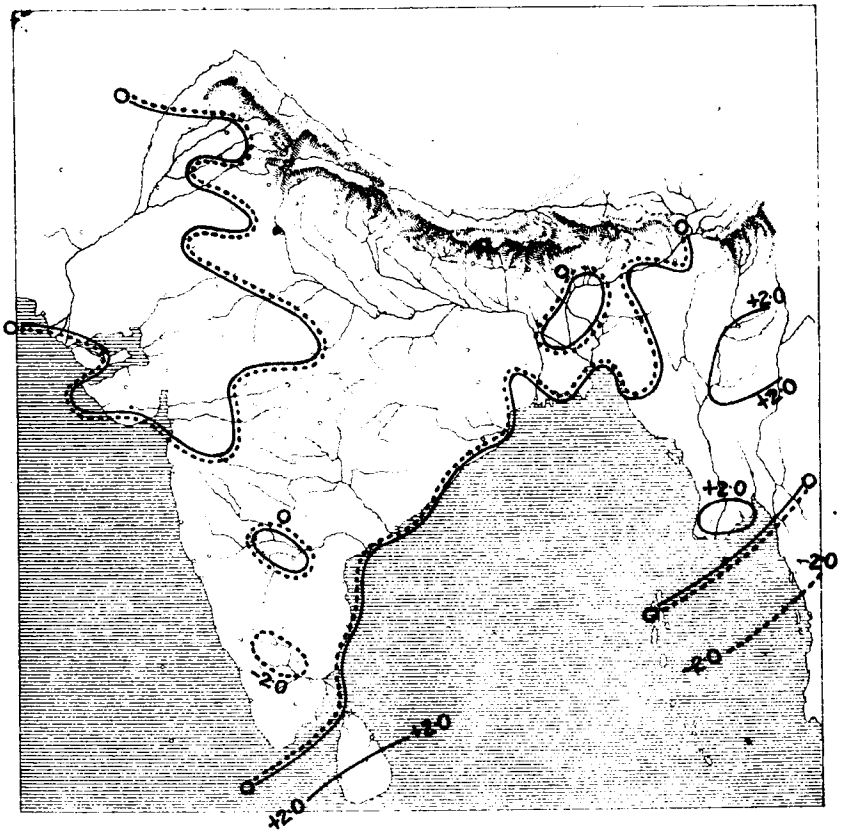
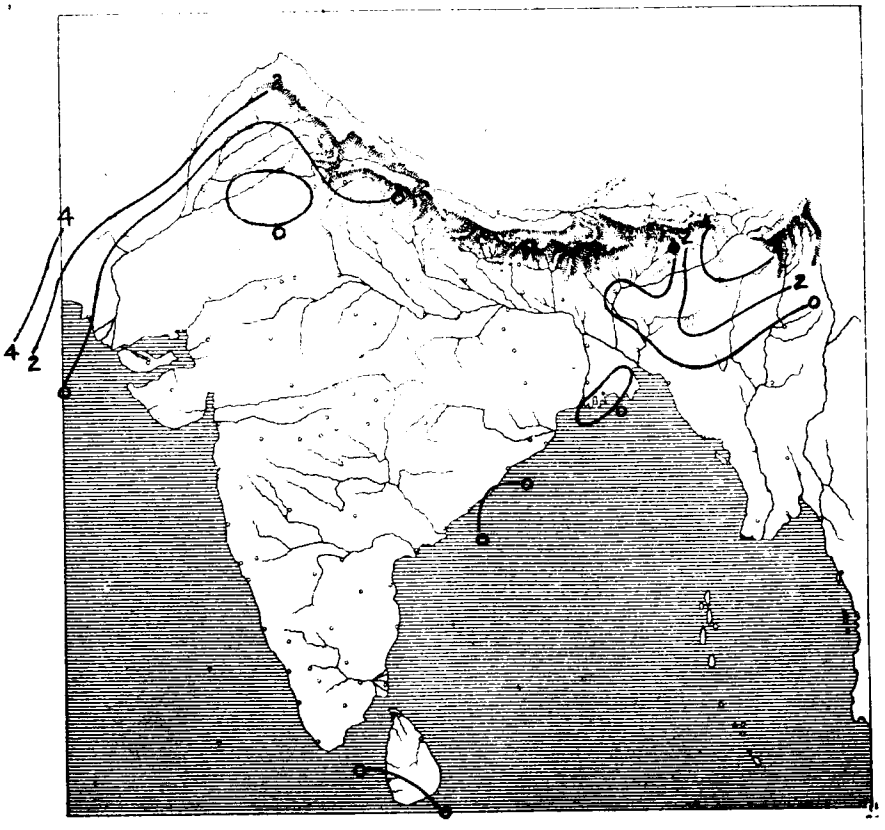
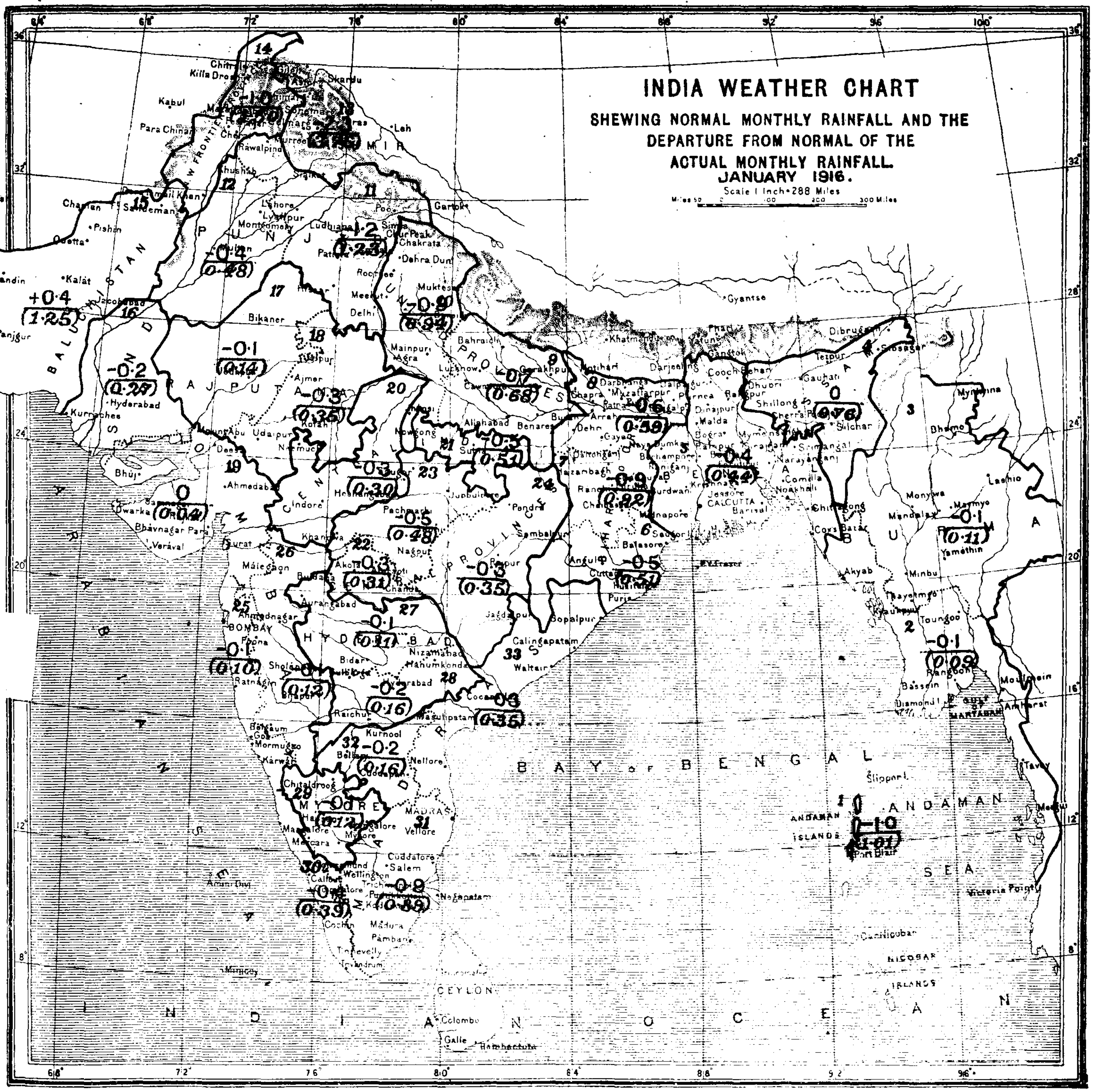


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

DEC - 8 1916

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, FEBRUARY, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of February, 1916, is based on observations taken daily at 8 hrs. at 211 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review, have been utilized.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The meteorological conditions during February bore a strong resemblance to those of the preceding month: in general humidity was low, cloud in defect and rainfall below the average. Indeed the only areas where the month's rainfall exceeded the normal were Kashmir, the North-West Frontier Province, the United Provinces East, the Central Provinces proper and Hyderabad North. The number of disturbances recorded during the month was greater than usual, but only one of them gave rise to widespread rainfall in northern India.

A fairly well marked wave of cold affected northern India between the 4th and the 11th, but temperature for the month as a whole was nearly normal in most parts of the country.

Barometric pressure at the level of the plains was ·049″ in defect.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculæ on all the days except on the 15th which was cloudy. Prominence observations could not be made on the 16th.

Sunspots.—Twenty-four new groups of spots were observed during the month as against 20 in January. The daily average number was 4·4 and the average life of a spot 5·5

days. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North . .	3	4	2	1	17°·6	8° & 33°
South . .	1	11	2	...	17°·1	8° & 23°

Prominences.—Sixty-one large, two eruptive and four metallic prominences were recorded in the month; the greatest height attained was only 180″, observed on the 27th, 28th and 29th of the month between latitude +45° and +60° east.

Magnetic disturbances.—Only "small" disturbances were recorded.

T. ROYDS,
for *Director*,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10°\ 13'\ 50''$; $\lambda = 77°28'\ 00''$; $h = 2{,}343$ m. Subsoil Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
An:				
Ae:	9·76	17·7	1	2·5
Az:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1916		h. m. s.						
Feb. 1st	e P	7 46 12	...	...	...	...	...	
	i L	7 57 48	...	...	...	...	...	
	M	8 12 48	...	...	650	...	...	
	F	10 45 24	...	...	...	...	...	
„ 6th	i P	22 15 48	...	...	...	...	...	
Feb. 6th	i L	22 43 06	...	...	...	...	...	
	M	22 51 54	...	...	250	...	...	
	F	23 38 48	...	...	...	...	...	
„ 10th	e P	2 15 36	...	...	...	...	...	
	i L	2 18 24	...	...	...	...	...	
	M	2 21 48	...	...	40	...	...	
	F	2 36 24	...	...	...	...	...	
„ 14th	i P	10 17 54	...	...	...	...	...	
	e L	10 20 00	...	...	...	...	...	
	M	10 24 06	...	...	50	...	...	
	F	11 13 18	...	...	...	...	...	
„ 14th	e P	17 49 48	...	...	...	...	...	
	i L	17 54 48	...	...	...	...	...	
	M	17 57 18	...	...	150	...	...	
	F	18 29 36	...	...	...	...	...	
„ 15th	e P	12 31 48	...	...	...	...	...	
	i L	12 39 00	...	...	...	...	...	
	M	12 41 06	...	...	80	...	...	
	F	18 13 00	...	...	...	...	...	
„ 20th	i P	18 12 24	...	...	...	...	...	
	i L	18 44 24	...	...	...	...	...	
	M	18 53 42	...	...	160	...	...	
	F	20 38 00	...	...	...	...	...	
„ 21st	i P	14 02 36	...	...	...	...	...	Widening of line.
	F	14 19 42	...	...	...	...	...	
„ 28th	e P	20 45 24	...	...	...	...	...	
	i L	21 44 42	...	...	...	...	...	
	M	22 01 42	...	...	350	...	...	
	F	28 20 30	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of February 1916 the traces showed 12 calm days, and 17 days of small disturbances.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 3rd, 7th, 11th, 16th and 29th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	C	9	S	17	S	25	C
2	C	10	C	18	S	26	S
3	C	11	C	19	S	27	S
4	C	12	S	20	S	28	S
5	S	13	S	21	S	29	C
6	C	14	S	22	S	...	...
7	C	15	S	23	C	...	...
8	S	16	C	24	S	...	...

C.=calm; S.=small; M.=moderate; G.=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetogram as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows :—

Easterly declination	0° 38′ 10″.
Horizontal force	0·36878 C.G.S. unit.
Vertical force	0·16750 C.G.S. „
Inclination	24° 25′·7.
Horizontal force range . . .	0·00044 C.G.S. „
Horizontal force summed range . .	0·00278 C.G.S. „
Declination range	1′·5.
Declination summed range . .	7′·4.

(Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m. Subsoil Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	C	$\frac{r}{To^2}$
An:				
An:	9	21	1	
An:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1916.		h. m. s.						
Feb. 1st	P	7 45 59	...	...	...	...	...	
	M	8 14 35	...	...	444	...	...	
	F	9 24 35	...	...	...	...	...	
„ 6th	P	.....	...	...	...	...	...	Beginning mixed in tremors.
	M	22 43 53	...	...	289	...	...	
	F	.....	...	...	...	...	...	End mixed in tremors.
„ 7th	...	9 52 0	...	...	...	...	...	Thickening of line.
„ 11th	...	19 37 0	...	...	...	...	...	„
„ 14th	...	8 50 to 53	...	...	...	...	...	„
„ 14th	P	.....	...	...	...	...	...	Beginning mixed in tremors.
	M	10 39 48	...	...	44	...	...	
	F	.....	...	...	...	...	...	End mixed in tremor.
„ 14th	P	17 54 54	...	...	...	...	...	
	M	18 0 48	...	...	67	...	...	
	F	18 13 34	...	...	...	...	...	
„ 15th	P	12 25 2	...	...	...	...	...	
	M	12 37 2	...	...	56	...	...	
	F	12 59 49	...	...	...	...	...	
„ 20th	P	18 11 14	...	...	...	...	...	
	M	18 46 52	...	...	232	...	...	
	F	19 24 29	...	...	...	...	...	
„ 21st	P	.....	...	...	...	...	...	Beginning mixed in tremors.
	M	14 13 35	...	...	22	...	...	
	F	.....	...	...	...	...	...	End mixed in tremors.
„ 24th	...	10 19 0	...	...	...	...	...	Thickening of line.
„ 24th	...	12 21 0	...	...	...	...	...	„
„ 27th	P	20 44 15	...	...	...	...	...	
	M	21 59 5	...	...	144	...	...	
	F	.....	...	...	...	...	...	End mixed in tremors.
„ 28th	...	10 54 0	...	...	...	...	...	Thickening of line.

One disturbance at about 2 h. on 10th is marked by tremors.

Sensibility to tilt 1·0 mm. of amplitude on the trace =0·29″.

N. A. F. Moos,

Director,

Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismograph dismantled.

6.—SIMLA OBSERVATORY.

The Seismic records.

The Simla seismograph notes will appear in a future number of the Review.

The following table contains a list of earthquakes that were reported :—

TABLE 5.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.
		h. m.	sec.		
Drosh	Feb. 3rd	19 30	5	3	1
Meshed (Persia) . . .	„ 4th	14 45	8	3	2
Lahore	„ 7th	23 25	24	6	1
Sitarampuram (District Nellore)	Feb. 11th	16 30	...	3	1
Ditto ditto .	„ 11th	16 00	...	3	1
Meshed (Persia) . . .	„ 11th	19 25	5	5	1
Ditto	„ 11th	20 00	3	3	1
Sitarampuram (District Nellore)	„ 13th	15 10	...	3	1
Drosh	„ 28th	1 30	4	4	1

Slight shock of earthquake lasting 6 or 7 secs. was felt at about day-break on the 25th February 1916 in seven villages situated in about Lat. 20°·33′N, Long. 78°·28′E.

Solar radiation.—The following figures give the intensity of solar radiation, as measured at Simla by Angstorm's pyrheliometer. The values are corrected to local noon, and expressed in grammecalories per square centimetre per minute :—

Maximum	1·46
Minimum	1·35
Mean	1·42
Number of days of observation . . .	4

G. C. SIMPSON,
Imperial Meteorologist, Simla.

Weather in the Indian Ocean.

7. Barometric pressure was distinctly low at all the three representative stations, and in that respect accorded with the conditions in India. Winds were rather weak at Mauritius, and unusually strong at Seychelles where they blew more directly from the west than usual. Rainfall was in decided defect at Mauritius and Seychelles, and upwards of 40 per cent in excess at Zanzibar.

TABLE 6.

——	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·047	—·032	—·026
Actual mean wind direction . .	S 79° E	N 29° E	N 34° W
Normal mean wind direction . .	S 83° E	N 27° E	N 21° W
Actual mean wind velocity (miles per diem).	138	120	142
Normal mean wind velocity (miles per diem).	162	118	107
Rainfall departure from normal . .	—2·05	+1·09	—5·43

Depressions and cyclonic storms.

8. During February six disturbances in all influenced the weather in India. The following is a brief statement of their history.

(*a*) The first of these disturbances has already been mentioned in the review for January on the last day of which month it was approaching the North-West Frontier Province from the west through the north of Baluchistan. The observations recorded on the first two days of February show that under the influence of the Suleman ranges the main disturbance changed its path from east to north and instead of crossing into the Punjab travelled towards the north-western border of Kashmir and broke up probably on the southern face of the Karakoram mountains. It was a deep depression, the defect in barometric pressure amounting to ·34″ at Bushire and ·4″ at Gilgit, and caused widespread precipitation in the North-West Frontier Province, Kashmir and the east and north Punjab.

(*b*) The second disturbance showed itself first over the west Punjab on the morning of the 5th. The available information does not throw much light on its origin; but it may have been the development of a wave of low pressure which appears to have affected Tehran and Meshed on the 30th and 31st of January. It filled up during the next 36 hours without changing appreciably in position. The defect of pressure produced by it ranged between ·3″ and ·4″, and as it was as great at Leh at an elevation of 11,000 feet as at Khushab in the plains of the Punjab, it is evident that the disturbance extended upwards to a great height in the atmosphere. Notwithstanding this the precipitation associated with it was comparatively light and confined to Kashmir.

(*c*) The third disturbance first became visible on the 10th near Bushire and thence travelling eastwards was situate over Rajputana on the morning of the 13th. Here its movement was checked, and it disappeared during the next 24 hours. Barometrically it was ill-defined at the earth's surface, being a wave of low pressure rather than a definite depression; but it gave more precipitation than its predecessor, nearly general rainfall occurring in the plains of the Punjab and of the United Provinces, and local rainfall in Baluchistan, Kashmir, the west of Central India and the Central Provinces.

(*d*) The fourth disturbance appeared over east Persia and west Baluchistan on the 14th, and travelled eastwards as an extensive belt of slightly deficient pressure across northern India to Upper Burma where it disappeared during the 18th It was remarkable for the widespread rain it produced in the central parts of the country and north-east India, rainfall being nearly general in the United Provinces, the Central Provinces, Central India East, Bihar and Orissa, north Bengal and Assam.

(*e*) The fifth disturbance appeared in Persia on the 16th, and advancing through Baluchistan on the 18th and 19th, the southern Punjab on the 20th, Bihar on the 21st and eastern Bengal and Burma on the 22nd, had passed out of the Indian region by the 23rd. It was deepest on the 20th when a deficiency of pressure of over a quarter of an inch was recorded at some of the plain stations in the Punjab and of about a third of an inch at Gilgit and Skardu. It was however not very active as it gave only a few falls of rain and snow in the hills of the extreme north with local rain in Assam and east Bengal.

(*f*) The last disturbance began to affect west Persia on the 23rd and had extended into west Baluchistan by the morning of the 24th. It was passing through east Baluchistan on the 25th, and by 8 hrs. of the 26th had reached Kashmir and the adjacent districts of the Punjab where it disappeared during the day. Pressure in Kashmir fell a quarter of an inch below normal under its influence, while in the plains the deficiency was less than two-tenths of an inch. It was throughout a trough of low pressure and gave precipitation only in Baluchistan and the hill districts around the Punjab.

The disturbances recorded during the month were nearly the same in number as in January; but they were on the whole better defined, extended to a greater height in the atmosphere and were productive of more precipitation. The most widespread rainfall was associated with the fourth disturbance which travelled along the head of the Peninsula, while the third, following a normal course, also gave considerable rain in north-west and central India. The rest moved along tracks which lay further north, with the result that the accompanying precipitation was confined to the mountainous region around the Punjab.

Pressure.

9. Atmospheric pressure was everywhere below the normal, the defect averaging ·049″ over the plains as a whole. Deviations from the geographical mean were small in Burma, the United Provinces, the Punjab, Sind, Rajputana, Central India, the Central Provinces and most of the Peninsula. In north-east India and the North-West Frontier Province the defect was however considerably larger, while along the west coast of the Peninsula pressure was only about ·02″ below the normal.

In the hills of Baluchistan and Kashmir the defect was much more marked than in the adjoining plains, and this condition extended to Mount Abu in Rajputana and Pachmarhi in the Central Provinces, while in the Punjab, Bengal and south Madras these relations were reversed.

TABLE 7.

Division.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	—·058
Assam	—·069
Bengal	—·074
Bihar and Orissa	—·068
United Provinces	—·061
Punjab	—·054
North-West Frontier Province	—·076
Sind	—·064
Rajputana	—·049
Bombay	—·027
Central India	—·045
Central Provinces	—·039
Hyderabad	—·034
Mysore	—·027
Madras	—·035

TABLE 8.

Hill station.	Departure from normal pressure. A	Plain station.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	—·071	Jacobabad	—·083	+·066
Leh	—·087	Lahore	—·060	+·027
Murree	—·051	Peshawar	—·068	—·017
Simla	—·037	Ludhiana	—·049	—·012
Darjiling	—·066	Dhubri	—·087	—·021
Mount Abu	—·048	Deesa	—·017	+·031
Pachmarhi	—·059	Khandwa	—·023	+·036
Kodaikanal	—·028	Madura	—·037	—·014

Temperature.

10. No marked departures from normal conditions occurred in the plains. At the hill stations in Baluchistan temperature was on the average below, and at those in the south and east of Kashmir above, normal throughout the 24 hours. A cold wave began to affect Baluchistan at the beginning of the month and intensifying on the 2nd and 3rd extended eastwards across northern India, reaching Bengal on the 8th. It produced very low temperatures, especially in Baluchistan, where maximum temperatures were recorded from 20° to 23° below normal.

TABLE 9.

Sub-division.	Actual temperature.					Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
1. Bay Islands	86·7	72·9	79·8	13·8	20·7	—1·2	—2·2	+1·0
2. Lower Burma	86·8	66·9	76·8	19·9	28·5	—1·5	—0·6	—0·9
3. Upper Burma	86·1	57·2	71·6	28·9	39·8	+0·8	+0·5	+0·3

Sub-division.	Actual temperature.					Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
4. Assam	78·0	55·1	66·5	22·9	36·7	+1·0	+1·2	—0·2
5. Bengal	82·4	57·9	70·2	24·5	41·1	+1·4	+0·2	+1·2
6. Orissa	86·9	62·5	74·7	24·4	41·7	+0·7	—1·0	+1·7
7. Chota Nagpur	83·7	55·9	69·8	27·8	48·5	+3·1	+0·6	+2·5
8. Bihar	79·6	53·9	66·7	25·7	44·5	+1·3	+0·3	+1·0
9. United Provinces, East	77·9	52·2	65·0	25·7	47·1	+0·2	+0·8	—0·6
10. United Provinces, West	76·7	50·2	63·5	26·5	48·6	+0·2	—0·6	+0·8
11. Punjab, East and North	71·5	46·7	59·1	24·8	46·6	+0·4	+0·3	+0·1
12. Do., South-west	71·3	44·9	58·1	26·4	48·3	—0·7	—0·4	—0·3
13. Kashmir	43·5	24·0	33·7	19·5	44·3	+2·8	+4·2	—1·4
14. North-West Frontier Province	66·4	43·9	55·1	22·5	41·3	—2·3	+0·5	—2·8
15. Baluchistan	57·0	34·1	45·5	22·9	48·4	—5·1	—2·7	—2·4
16. Sind	77·3	52·8	65·1	24·6	48·3	—1·5	—1·8	+0·3
17. Rajputana, West	76·9	50·3	63·6	26·7	52·1	—0·9	—2·5	+1·6
18. Do., East	78·8	50·7	64·5	27·6	52·2	—1·1	—2·3	+1·2
19. Gujarat	81·7	56·1	68·9	25·6	43·4	—2·5	—1·2	—1·3
20. Central India, West	80·8	51·5	66·1	29·3	54·1	—0·9	—0·3	—0·6
21. Do., East	77·9	50·5	64·2	27·5	51·7	—1·4	—1·0	—0·4
22. Berar	87·2	60·0	73·6	27·2	47·7	—1·5	—0·2	—1·3
23. Central Provinces, West	83·0	55·2	69·1	27·8	52·8	—1·7	—0·2	—1·5
24. Do., East	85·8	58·0	71·9	27·8	47·6	—0·2	+0·7	—0·9
25. Konkan	83·1	67·8	75·4	15·3	24·7	—1·8	—0·5	—1·3
26. Bombay Deccan	89·2	59·1	74·1	30·0	43·1	—1·2	—0·2	—1·0
27. Hyderabad, North	89·0	62·1	75·6	27·0	41·2	—0·3	+0·9	—1·2
28. Do., South	91·3	65·6	78·4	25·8	37·9	+0·4	+0·9	—0·5
29. Mysore	87·8	62·8	75·3	24·9	36·7	0	+1·1	—1·1
30. Malabar	87·9	73·1	80·5	14·7	21·7	—1·2	+0·3	—1·5
31. Madras, South-east	89·6	69·0	79·4	20·6	32·1	+0·6	—0·2	+0·8
32. Do. Deccan	93·7	67·5	80·7	26·2	39·5	—0·5	+2·1	—2·6
33. Do. Coast, North	87·4	69·7	78·6	17·7	29·2	+1·5	+0·7	+0·8

TABLE 10.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·3	—0·1	—0·2
Assam	+1·0	+1·2	+1·1
Bengal	+1·4	+0·2	+0·8
Bihar and Orissa	+1·6	0	+0·8
United Provinces	+0·2	+0·1	+0·2
Punjab	+0·1	+0·2	+0·2
North-West Frontier Province	—2·3	+0·5	—0·9
Sind	—1·5	—1·8	—1·7
Rajputana	—1·0	—2·3	—1·7
Bombay	—1·8	—0·6	—1·2
Central India	—1·1	—0·6	—0·9
Central Provinces	—1·3	0	—0·6
Hyderabad	+0·1	+0·9	+0·5
Mysore	0	+1·1	+0·5
Madras	+0·4	+0·4	+0·4

Winds.

11 (*a*). Over the greater part of northern and central India winds inclined to be stronger and steadier than usual.

(*b*) In the Peninsula velocity was normal generally, while the steadiness was low in Hyderabad and Mysore, about the average in Madras and high in Bombay.

(*c*) The direction of air movement varied a good deal from the normal in places, but the deviations were not of any significance from the point of weather.

TABLE 11.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·1	— 4
Assam	+0·2	+16
Bengal	—0·3	+ 1
Bihar and Orissa	+0·4	+ 3
United Provinces	0	+ 8
Punjab	+0·7	+ 1
North-West Frontier Province	—0·3	+ 2
Sind	+0·4	— 4
Rajputana	+0·5	+ 3
Bombay	0	+ 7
Central India	+0·9	+ 2
Central Provinces	+0·4	+ 3
Hyderabad	—0·2	— 6
Mysore	—0·1	— 5
Madras	+0·2	+ 3

Humidity and cloud.

12. Vapour tension and relative humidity had a very similar distribution, the air over the greater part of India being drier than usual according to both estimates. The maximum defect occurred over the north of Hyderabad, south Bihar and the interior of Orissa.

The quantity of cloud also was generally below normal; the chief exceptions occurred in Burma, the north Punjab, along the north-west frontier, Kathiawar, the south Konkan and the central and southern districts of the Central Provinces, where skies were more clouded than is normally the case in February.

TABLE 12.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	79	— 2	·557	—·013	2·7	+0·3
Assam	85	— 4	·450	+·009	3·7	—0·3
Bengal	78	— 3	·468	—·019	1·7	—0·7
Bihar and Orissa	67	— 7	·390	—·038	1·7	—0·7
United Provinces	63	— 8	·300	—·025	1·9	—0·6
Punjab	69	— 3	·262	—·015	3·2	—0·3
North-West Frontier Province.	75	+ 5	·255	+·011	4·1	+0·3
Sind	54	— 5	·286	—·030	1·6	—1·0
Rajputana	44	— 7	·208	—·036	1·3	—1·4
Bombay	59	— 1	·391	—·018	1·5	+0·2
Central India	52	— 3	·270	—·017	1·4	—0·8
Central Provinces	51	— 3	·309	—·017	2·0	+0·2
Hyderabad	50	— 6	·391	—·055	1·7	+0·3
Mysore	65	0	·477	—·003	1·9	—0·5
Madras	76	— 1	·675	—·007	2·2	—0·5

Rainfall.

13. Rainfall was appreciably heavier than usual in the United Provinces East, Kashmir, the North-West Frontier Province, the Central Provinces proper and Hyderabad North, but in the rest of India the amounts were below the normal. The shortage amounted to three-quarters of an inch in Orissa and Chota Nagpur, half an inch in Bengal and Baluchistan and two-fifths of an inch in Madras South-east. Little or no rain fell in Sind, Rajputana West, Gujarat, the Konkan, the Bombay Deccan, Mysore, Malabar, the Madras Deccan and Burma; in these areas the normal quantity of rainfall is however small, nowhere exceeding a third of an inch.

In the Andamans, as represented by Port Blair where under ordinary conditions an inch of rain is recorded, the weather was dry throughout the month.

TABLE 13.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	0	1·3	0	1·01	—1·01	—100
2. Lower Burma	0·1	0·4	0·03	0·28	—0·25	— 89
3. Upper Burma	0·2	0·4	0·08	0·16	—0·08	— 50
4. Assam	3·1	3·1	1·18	1·28	—0·10	— 8
5. Bengal	0·6	1·6	0·44	0·92	—0·48	— 52
6. Orissa	0·5	1·5	0·19	0·91	—0·72	— 79
7. Chota Nagpur	1·6	2·5	0·64	1·39	—0·75	— 54
8. Bihar	1·5	1·6	0·63	0·73	—0·10	— 14
9. United Provinces, East	1·6	1·3	0·72	0·53	+0·19	+ 36
10. Do., West	1·8	1·6	0·77	0·89	—0·12	— 13
11. Punjab, East and North	2·1	2·1	0·86	1·07	—0·21	— 20
12. Do., South-west	0·8	1·4	0·27	0·57	—0·30	— 53
13. Kashmir	5·7	4·9	4·02	3·33	+0·69	+ 21
14. North-West Frontier Province	4·7	3·0	1·71	1·38	+0·33	+ 24

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
15. Baluchistan	2·4	3·3	0·91	1·45	—0·54	— 37
16. Sind	0	0·9	0	0·32	—0·32	—100
17. Rajputana, West	0	0·7	0·01	0·34	—0·33	— 97
18. Do., East	0·6	0·8	0·28	0·33	—0·05	— 15
19. Gujarat	0	0·3	0	0·12	—0·12	—100
20. Central India, West	0·9	0·7	0·28	0·29	—0·01	— 3
21. Do., East	1·2	1·3	0·40	0·65	—0·25	— 38
22. Berar	0·7	0·6	0·29	0·30	—0·01	— 3
23. Central Provinces, West	1·7	1·1	0·85	0·57	+0·28	+ 49
24. Do., East	1·8	1·3	1·01	0·77	+0·24	+ 31
25. Konkan	0	0·1	0	0·03	—0·03	—100
26. Bombay Deccan	0	0·2	0·01	0·08	—0·07	— 87
27. Hyderabad, North	0·6	0·4	0·31	0·17	+0·14	+ 82
28. Do., South	0·2	0·5	0·10	0·21	—0·11	— 52
29. Mysore	0	0·2	0	0·11	—0·11	—100
30. Malabar	0·3	0·3	0·08	0·20	—0·12	— 60
31. Madras, South-east	0·4	0·8	0·13	0·53	—0·40	— 75
32. Do. Deccan	0·1	0	0·02	0·09	—0·07	— 78
33. Do. Coast, North	0·3	0·5	0·10	0·39	—0·29	— 74

TABLE 14.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·06	0·20	—0·14	— 70
Assam	1·18	1·28	—0·10	— 8
Bengal	0·44	0·92	—0·48	— 52
Bihar and Orissa	0·53	0·94	—0·41	— 44
United Provinces	0·75	0·73	+0·02	+ 3
Punjab	0·72	0·94	—0·22	— 23
North-West Frontier Province	1·71	1·38	+0·33	+ 24

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0	0·32	—0·32	—100
Rajputana	0·18	0·33	—0·15	— 45
Bombay	0	0·08	—0·08	—100
Central India	0·34	0·47	—0·13	— 28
Central Provinces	0·75	0·57	+0·18	+ 32
Hyderabad	0·21	0·19	+0·02	+ 11
Mysore	0	0·11	—0·11	—100
Madras	0·10	0·41	—0·31	— 76
Mean of India	0·38	0·53	—0·15	— 28

Snowfall.

I.—NORTH-EAST PERSIA.

14. At Meshed snow fell on three days to a total depth of about six inches.

II.—EASTERN TURKESTAN.

Slight falls occurred at Kashgar on the 4th, 5th and 6th.

III.—AFGHANISTAN.

In Kabul snow to a depth of about a foot fell on the 12th—13th, and there was a sprinkling on the 19th. At the end of the month the unmelted residue of snow on the Paghman, Shakardara, Qila Qazi and Hindu Kush ranges was estimated at about 1 foot.

IV.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—Snowstorms occurred on the 5th and 25th down to a level of about 7,900 feet; the total fall amounted to about 1½ feet on the Pirghal, Marwatti, Bosh and Drenashtar, and 10 inches on the Jani Mela, Kundighar and Kot Kun.

(*b*) *Tochi* (*North Waziristan*).—Heavy snow fell on the hills and light snow down the valley as far as Mirzail.

(*c*) *Dera Ismail Khan.*—On the Takt-i-Suleman, Zmaraighar and Khaisughar feeble snowstorms occurred on the nights of the 1st and 25th; and at the end of the month only about 2 inches of snow still remained unmelted.

(*d*) *Kurram.*—There were altogether twelve falls on the Sufed Koh and three of these extended to below the level of Parachinar. On the 29th snow to a depth of about 9 feet was said to be lying on the Agam pass and of 4 feet on the Paiwar Kotal.

(*e*) *Kohat.*—Slight falls occurred on the Samana range on the 2nd, 5th and 6th.

(*f*) *Hazara.*—The following statement shows the character of snowfall in this area:—

TABLE 15.

Locality.	Height above sea-level.	Total number of falls.	Aggregate amount.		Depth of accumulation on the 15th February.	
	Feet.		Ft.	In.	Ft.	In.
Narang	8,000	6	14	10	9	6
Paludran	7,300	6	18	0	8	0
Kagan	6,600	6	11	5	5	6
Jared	5,000	3	3	8	1	8
Malkandi	4,500	3	2	4	1	6
Sundigali	7,000	12	20	2	2	6
Jachha	6,500	13	7	8½	1	6
Dungagali	8,000	12	8	6	4	7
Thandiani	8,800	12	15	0	5	9

On the 6th the snowline came down to 3,000 feet.

V.—KASHMIR.

(*a*) *Srinagar.*—There were several falls of snow in the main valley, the heaviest being about three inches deep.

(*b*) *Skardu.*—Slight snow fell on the 6th, 13th, 14th and 27th.

(*c*) *Dras.*—Snow fell on fifteen days to a total depth of about 3½ feet.

(*d*) *Kargil.*—There were altogether twelve falls on the surrounding mountains and eleven of these descended to the level of the station. The total quantity received during the month was estimated at 4 feet on the Archulla, 3 feet on the Nakthulla and 1½ feet on the other mountains.

The statement below shows the estimated depth of the unmelted residue of the accumulations on the last day of the month:—

TABLE 16.

Archulla	4½ feet.
Nakthulla	3 „
Barulla	1½ „
Sinculla	2 „
Narianulla	1 foot.
Pazgola	1 „
Other mountains	½ „

VI.—PUNJAB.

(*a*) *Murree.*—At Murree snow fell on two days to a total depth of 1½ feet, while on the hills adjacent to Kahuta there was a single fall of 2 feet.

(*b*) *Chamba* (Forest Division).—The following shows the character of snowfall in this area:—

TABLE 17.

Locality.	Elevation.	Number of days on which snow fell.	Total fall.		REMARKS.
	Feet.		Ft.	In.	
Dalhousie Range—					On the 6th the snowline came down to 2,300 feet.
Kalatop	7,875	6	5	0	
Kainthli	6,000	6	2	0	
Surkhigalli	5,300	6	1	½	
Chamba Range—					The snowline came down to 5,000 feet.
Ulansa	7,000	7	3	5	
Darkund	6,500	7	6	0	
Kundi	6,500	5	4	3	
Chitrari	6,000	6	2	1	
Bakani	5,500	4	1	2	
Sao	5,000	3	0	5½	

Locality.	Elevation.	Number of days on which snow fell.	Total fall.		Remarks.
	Feet.		Ft.	In.	
Bhattiyal Range—	...	3	...		The snowline came down to 5,000 feet.
Barmaur Range—					The snowline came down to 5,000 feet.
Barmaur . .	7,000	9	5	2	
Ghararu . .	8,000	9	10	5	
Bhandal Range—					The snowline came down to 3,500 feet.
Deur . .	5,500	5	0	10½	
Bhandal . .	6,000	5	1	8	
Langera . .	7,500	9	5	4	
Tisa Range—					The snowline came down to 4,000 feet.
Khangu . .	6,500	11	7	11	
Chatri . .	6,500	11	6	3	
Tisa . .	4,500	11	1	6	
Pangi Range—					
Pangi . .	...	6	1	10	

(c) *Kilba* (*Simla Hills*).—Snow fell on seven days as follows:—

5th	down to	7,000	feet where the	depth was	. .	1¼″
6th	„	„ 5,750	„	„	„ . .	3″
9th	„	„ 7,000	„	„	„ . .	1¼″
12th	„	„ 8,000	„	„	„ . .	½″
13th	„	„ 7,000	„	„	„ . .	½″
14th	„	„ 8,000	„	„	„ . .	½″
26th	„	„ 8,000	„	„	„ . .	½″

All the passes remained closed, and on the 29th the depths of accumulation were:—

Shatul pass	11 feet.
Rupin „	9 „
Brua „	8 „
Harang „	4 „

VII.—United Provinces.

Garhwal.—Snowstorms occurred on the higher elevations in the north of the district on the 13th, 14th and 26th.

Almora.—No information is available.

VIII.—North-East Frontier District.

Very heavy snow fell in the western section as low as 10,000 feet and the Sela was closed for sometime. Ordinarily the snowfall in the cold weather is restricted to elevations above 13,000 feet.

Summary.

15. The snowfall of the month was below the average except in the hill districts of the Punjab and of the North-West Frontier Province, where locally it was unusually heavy. On the Dalhousie range snow is reported to have fallen as low as 2,300 feet on the 6th.

Hem Raj.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in February, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta	21	29·965	29·828	·137	29·889	—·068	29·856	84·6	60·4	24·2	93·1	49·5	43·6	75·6	83·3	71·6	+1·3	57·5	63·7	65·0	62·1
	VI.—Punjab.																					
11	Lahore	702	29·269	29·182	·087	29·216	—·065	29·917	71·4	47·0	24·4	80·8	34·3	46·5	61·5	70·5	58·1	+0·8	44·0	52·7	56·1	50·9
	IX.—Rajputana.																					
18	Jaipur	1,431	28·536	28·425	·111	28·469	—·069	29·880	77·6	48·3	29·3	88·0	35·0	53·0	67·6	75·8	61·8	—2·4	42·9	52·3	55·0	50·1
	X.—Bombay.																					
25	Bombay	37	29·972	29·851	·121	29·917	—·016	29·885	81·4	67·9	13·5	84·9	59·2	25·7	74·5	77·5	73·7	—1·1	60·2	66·4	68·5	65·0
	XIV.—Mysore.																					
29	Bangalore	3,021	27·012	26·877	·135	26·942	—·027	29·761	87·4	61·2	26·2	92·5	51·5	38·0	77·8	83·3	79·6	+1·6	57·8	64·1	63·4	61·8
	XV.—Madras.																					
31	Pudukkottai	318	29·693	29·534	·159	29·613		29·869	92·3	68·7	23·6	98·9	63·4	35·5	81·5	89·2	80·5			71·5	71·4	
	Madras	22	29·986	29·860	·126	29·921	—·045	29·874	88·3	69·1	19·2	97·3	62·7	34·6	82·9	83·8	77·8	+1·2	68·2	73·6	74·0	71·9
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain		23·114	23·063	·051	23·077		23·039	46·3	28·7	17·6	58·3	20·0	38·3	39·4	41·5	37·3			34·3*	36·4	
	Kalabagh																					
	Katmandu	4,388	25·730	25·644	·086	25·684	+·036†	25·638	70·7	40·3	30·4	78·0	34·3	46·0	55·7	67·1	55·5	+3·0†	38·0	48·9	53·2	46·7
	Kodaikanal	7,688	23·869	22·800	·069	22·835		22·770	66·6	47·7	18·9	72·8	41·6	31·2	60·9	59·0	57·2		41·2	49·8	51·8	47·6
	Extra India.																					
	Seychelles	15	29·941	29·849	·092	29·903	—·026†	29·841	82·7	78·8	3·9	85·1	75·1	10·0	80·9	81·8	79·6	+0·5†	72·2	75·8	76·2	74·7
	Mauritius	181				29·628	—·047	29·854	84·7	72·1	12·6	87·3	66·2	21·1			78·1	—0·3				73·4

N.B.—Elevations in Italics indicate barometric determinations.

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

† Departure from old normal.

* Mean of 26 days.

A.

at 12 stations in India, etc., in February, 1916.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·444	·441	·377	·447	−·038	83	49	33	58	− 8	0·9	2·0	1·5	−0·7	1	4	4	3	2	1	14	12	17	N 76° W	N 73° W	47	25	73	58	0	0	Calcutta.	5
																															VI.—Punjab.	
·256	·288	·282	·277	−·010	78	53	33	59	− 3	2·1	2·8	2·5	−1·4	6	3	5	1	5	4	3	11	20	N 60° W	N 30° W	38	30	43	39	0·46	0·24	Lahore.	11
																															IX.—Rajputana.	
·218	·210	·182	·210	−·052	62	30	20	41	− 6	1·7	2·1	1·9	−1·2	3	10	5	6	1	0	8	9	16	N 41° W	N 20° W	42	33	83	66	0·13	0·12	Jaipur.	18
																															X.—Bombay.	
·428	·547	·579	·541	−·078	61	63	61	66	− 5	1·4	1·1	1·3	+0·1	0	6	7	8	1	1	0	4	31	N 21° W	N 1° W	59	57	177	183	0	0	Bombay.	25
																															XIV.—Mysore.	
·441	·440	·330	·409	+·002	81	46	28	54	0	1·6	1·9	1·7		3	0	10	14	18	6	2	2	3	S 69° E	S 69° E	53	59	131	88	0	0	Bangalore.	29
																															XV.—Madras.	
	·637	·531				59	40			4·5	4·5	4·5		8	0	17	10	12	4	6	1	0	S 80° E		45		80		0	0	Pudukkottai.	31
·679	·704	·709	·720	+·005	95	63	62	76	− 2	2·0	1·7	1·9	−1·3	0	0	1	13	31	4	9	0	0	S 43° E	S 84° E	74	72	87	88	0	0	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·139*	·164				59*	65			5·1	6·3	5·7																	13·32	3·16	Sarain.	
																															Kalabagh.	
·204	·268	·248	·250	−·010	82	61	38	63	− 6	2·9	3·8	3·3	−0·2	0	0	0	16	0	0	2	40	0	S 87° W	N 87° W	45	47	29	21	0·25	0·15	Katmandu.	
·193	·244	·311	·250		59	48	64	57		2·3	5·8	4·1		1	9	12	8	18	3	0	0	7	N 75° E		45		201		0·06	0·04	Kodaikanal.	
																															Extra India.	
·702	·825	·830	·809	−·033	71	78	76	78	− 5	6·5	6·8	6·7	+0·2†	2	8	5	2	1	0	0	5	35	N 34° W	N 21° W	74	53	142	107	7·17	3·52	Seychelles.	
			·741	−·024				77	− 2			5·1	−0·9										S 79° E	S 83° E			138	162	4·16	1·72	Mauritius.	

* Mean of 26 days.

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 211 stations in India, etc., in February, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Divisions.	Pressure departure from normal.	Temperature of air.								Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Absolute range during month.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°	°					"	"			"	"	"
Burma	—·058	86·5	—0·3	62·9	—0·1	74·7	—0·2	23·6	33·1	+0·1	—4	79	— 2	·557	—·013	2·7	+0·3	0·06	0·20	—0·14
Assam	—·089	78·0	+1·0	55·1	+1·2	66·5	+1·1	22·9	36·7	+0·2	+16	85	— 4	·450	+·009	3·7	—0·3	1·18	1·28	—0·10
Bengal	—·074	82·4	+1·4	57·9	+0·2	70·2	+0·8	24·5	41·1	—0·3	+1	78	— 3	·468	—·019	1·7	—0·7	0·43	0·92	—0·49
Bihar and Orissa	—·063	82·8	+1·6	56·9	0	69·8	+0·8	25·8	44·6	+0·4	+3	67	— 7	·390	—·038	1·7	—0·7	0·53	0·94	—0·41
United Provinces of Agra and Oudh	—·061	77·3	+0·2	51·3	+0·1	64·3	+0·2	26·0	47·8	0	+8	63	— 8	·300	—·025	1·9	—0·6	0·75	0·73	+0·02
Punjab	—·054	71·5	+0·1	46·3	+0·2	58·9	+0·2	25·2	47·1	+0·7	+1	69	— 3	·262	—·015	3·2	—0·3	0·72	0·94	—0·22
North-West Frontier Province	—·076	66·4	—2·3	43·9	+0·5	55·1	—0·9	22·5	41·3	—0·3	+2	75	+ 5	·255	+·011	4·1	+0·3	1·71	1·38	+0·33
Sind	—·034	77·3	—1·5	52·8	—1·8	65·1	—1·7	24·6	48·3	+0·4	—4	54	— 5	·286	—·030	1·6	—1·0	0	0·32	—0·32
Rajputana	—·049	77·8	—1·0	50·5	—2·3	64·1	—1·7	27·2	52·1	+0·5	+3	44	— 7	·208	—·036	1·3	—1·4	0·18	0·33	—0·15
Bombay	—·027	84·1	—1·8	59·5	—0·6	71·8	—1·2	24·6	42·2	0	+7	59	— 1	·391	—·018	1·5	+0·2	0	0·08	—0·08
Central India	—·045	79·3	—1·1	51·0	—0·6	65·2	—0·9	28·4	52·9	+0·9	+2	52	— 3	·270	—·017	1·4	—0·8	0·34	0·47	—0·13
Central Provinces	—·039	84·8	—1·3	57·2	0	71·0	—0·6	27·7	50·0	+0·4	+3	51	— 3	·309	—·017	2·0	+0·2	0·75	0·57	+0·18
Hyderabad	—·034	90·2	+0·1	63·8	+0·9	77·8	+0·5	26·4	39·5	—0·2	—6	50	— 6	·391	—·055	1·7	+0·3	0·21	0·19	+0·02
Mysore	—·027	87·8	0	62·8	+1·1	75·3	+0·5	24·9	36·7	—0·1	—5	65	0	·477	—·003	1·9	—0·5	0	0·11	—0·11
Madras	—·035	89·0	+0·4	69·8	+0·4	79·5	+0·4	19·2	30·0	+0·2	+3	76	— 1	·675	—·007	2·2	—0·5	0·10	0·41	—0·31

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	I.—Burma.																						
2	Victoria Point	147	29·795		29·873	29·862	14th	29·746	8th	·116	77·3	85·9		72·4		79·2		13·5	91·6	17th	68·7	1st & 6th	22·9
	Mergui	66	29·883	—·042	29·879	29·970	14th	29·802	8th	·168	75·4	88·5	—1·0	67·6	—2·2	78·0	—1·6	20·9	91·1	16th & 19th.	63·2	28th	27·9
	Tavoy	19	29·934	—·053	29·887	30·017	14th	29·858	8th	·159	70·6	89·0	—2·2	65·8	—1·8	77·3	—2·0	23·2	92·5	14th	61·3	4th	31·2
	Moulmein	94	29·866	—·038	29·900	29·965	14th	29·794	8th	·171	71·8	89·0	—2·6	67·6	—0·5	78·3	—1·6	21·4	93·8	18th	62·2	4th	31·0
	Rangoon	18	29·929	—·042	29·885	30·026	12th	29·830	8th	·196	69·7	90·1	—2·4	66·7	+0·2	78·4	—1·1	23·4	94·0	29th	63·8	1st	30·2
	Bassein	27	29·918	—·053	29·883	30·036	14th	29·816	8th	·220	71·2*	87·8*	—0·9*	67·3*	+3·0?	77·6*	+1·1?	20·5	92·2	15th	62·9	2nd	29·3
	Diamond Island	41	29·896	—·059	29·873	30·000	13th	29·792	8th	·208	77·8	83·4	—0·6	73·9	+1·0	78·7	+0·2	9·5	88·4	19th	71·0	2nd	17·4
	Toungoo	161	29·777	—·045	29·898	29·892	14th	29·676	8th	·216	68·0	89·3	—1·1	60·5	—0·6	74·9	—0·8	28·8	93·1	19th	56·9	26th	36·2
	Kyaukpyu	18	29·930		29·888	30·050	14th	29·818	8th	·232	71·0	81·0		65·8		73·4		15·2	85·8	23rd	57·7	17th	28·1
	Akyab	20	29·926	—·061	29·887	30·038	14th	29·823	8th	·215	66·4	84·0	—0·5	61·2	—0·2	72·6	—0·3	22·8	87·0	27th	56·5	10th & 11th.	30·5
2	Minbu	*165*	29·756	—·073	29·869	29·905	13th	29·637	8th	·268	67·6	90·3	—0·2	60·4	—0·8	75·4	—0·5	29·9	97·1	29th	55·4	11th	41·7
	Yamethin	657	29·257	—·057	29·883	29·387	13th	29·144	8th	·243	68·1	90·3	—1·2	61·9	+1·8	76·1	+0·3	28·4	93·9	18th	55·8	26th	38·1
	Mandalay	250	29·675	—·054	29·832	29·832	14th	29·567	8th	·265	67·8	92·1	+2·2	61·1	+0·6	76·6	+1·5	31·0	97·4	28th	52·2	13th	45·2
	Monywa	*280*	29·634	—·087	29·877	29·796	13th	29·513	27th	·283	65·0	90·0	+2·8	59·8	+0·1	74·9	+1·5	30·2	95·8	28th	55·6	27th	40·2
	Lashio	*2,820*	27·089	—·080	27·035	27·240	13th & 14th.	26·992	8th	·248	55·4	78·3	—0·3	49·7	+0·3	64·0	+0·3	28·6	82·1	29th	45·4	25th	36·7
	Bhamo	*561*	29·560	—·057	29·893	29·731	13th	29·431	8th	·300	57·8	82·6	+1·7	51·9	—0·9	67·2	+0·4	30·7	88·2	29th	46·8	1st	41·4
	Myitkyina	358	29·419	—·076	29·888	29·626	13th	29·325	8th	·301	58·7	79·9	+0·6	55·3	+1·6	67·1	+1·1	24·6	84·2	26th	42·2	14th	35·0
	II.—Assam.																						
1	Dibrugarh	353	29·560	—·100	29·922	29·765	12th	29·436	27th	·329	59·2	72·5	+0·3	56·0	+2·1	64·2	+1·2	16·5	78·7	15th	50·9	13th	27·8
	Sibsagar	323	29·627	—·084	29·936	29·816	12th	29·470	27th	·346	59·2	72·2	—0·6	54·9	+1·7	63·5	+0·5	17·3	78·7	7th	48·0	10th	30·7
	Tezpur	252	29·685	—·090	29·919	29·870	12th & 13th.	29·508	27th	·367	59·3	77·1	+1·3	56·6	+1·8	65·8	+1·5	20·5	82·1	7th	49·9		32·3
	Gauhati	196	29·763	—·087	29·924	29·866	13th	29·574	27th	·362	61·3	79·3	+1·9	53·3	+1·4	66·3	+1·7	26·0	84·8	16th	45·4	9th	39·4
	Dhubri	115	29·819	—·067	29·894	30·008	13th	29·628	27th	·350	61·5	78·3	+0·7	56·6	+1·1	67·4	+0·9	21·7	83·5	16th, 17th & 18th.	48·3	9th	35·2
	Silchar	104	29·849	—·087	29·910	29·992	13th	29·723	8th & 27th.	·269	62·4	81·8	+1·3	55·9	+0·4	68·9	+0·9	25·9	86·3	17th	47·5	9th	38·8
	Srimangal	66	29·874		29·893	30·009	12th	29·702	27th	·307	61·2	84·9	+2·3	52·2	+0·1	68·6	+1·2	32·7	91·7	28th	38·8	10th	52·9
	III.—Bengal.																						
5	Cox's Bazar	36	29·909		29·891	30·036	13th	29·773	22nd	·263	66·7	82·3		60·1		71·2		22·2	85·0	29th	52·5	10th	32·5
	Chittagong	87	29·861	—·072	29·897	29·985	13th	29·746	27th	·239	64·7	82·3	+0·1	59·1	+0·4	70·7	+0·2	23·2	86·2	17th	48·9	10th	37·3
	Noakhali	43	29·916	—·061	29·907	30·045	13th	29·784	27th	·261	66·2	82·3	+1·5	55·7	+2·4?	71·0	+1·9?	22·6	86·8	26th	47·3	9th & 10th.	39·5
	Barisal	12	29·938	—·069	29·897	30·074	13th	29·804	27th	·270	66·7	82·9	+1·4	60·2	+0·8	71·6	+1·1	22·7	90·5	28th	49·5	10th	41·0
	Narayanganj	26	29·918	—·078	29·894	30·056	13th	29·764	27th	·292	65·1	82·4	+0·8	59·7	+1·2	71·0	+1·0	22·7	88·3	28th	48·7	9th	39·6

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 15 days.

B.

stations in India, etc., in February, 1916.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915, to 29th Feb., 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																I.—Burma.
11	0	7	6	0	0	0	3	2	N 46° E		2·8			32		·74		·690		3·3		0			0			1·97			0	Victoria Point.
27	0	0	1	1	0	0	0	0	S 66° E	N 8° W	1·2	1·5	−0·3	7	−46	·86	+1	·709	−·058	3·1	0	0	2·9	−2·9	0	2·12	−2·12	0·84	3·51	−2·67	0	Mergui.
21	2	5	0	0	0	1	0	0	N 31° E	N 54° W	1·5	1·0	+0·6	21	+17	·89	0	·661	−·039	2·3	+1·1	0	1·0	−1·0	0	0·59	−0·59	0·41	0·95	−0·54	0	Tavoy.
6	0	6	16	1	0	0	0	0	N 81° E	N 84° E	2·6	1·7	+0·9	74	+28	·87	+3	·680	+·003	3·1	+1·4	0	0·5	−0·5	0	0·19	−0·19	3·77	0·51	+3·26	0	Moulmein.
5	8	7	1	1	1	0	2	4	N 7° E	S 67° W	3·9	2·8	+1·1	46	+2	·88	+4	·639	+·010	8·9	+7·2	0	0·4	−0·4	0	0·28	−0·28	4·53	0·52	+4·01	0	Rangoon.
19	2	0	1	0	0	0	0	7	N 30° W	N 43° W	3·9	3·3	+0·6	32	−27	·85*	−2	·654*	−·013	4·2	+2·6	0	0·3	−0·3	0	0·36	−0·36	3·15	0·75	+2·40	0	Bassein.
0	10	5	0	0	0	0	4	10	N 20° W	N 9° W	8·6	6·4	+2·2	78	+3	·70	−5	·667	−·088	2·0	−0·3	0	0·3	−0·3	0	0·20	−0·20	6·10	1·13	+4·97	0	Diamond Island.
6	6	7	2	4	3	0	0	1	N 57° E	N 6° E	1·6	1·4	+0·2	39	+4	·82	−2	·554	−·014	1·5	+0·1	0	0·4	−0·4	0	0·22	−0·22	4·02	0·59	+3·43	0	Toungoo.
27	0	0	0	1	0	0	0	1	Calm		0·8			(a)		85		·647		4·2		0			0·02			0·71			0·02	Kyaukpyu.
12	4	7	3	1	0	0	0	2	N 37° E	N 24° E	3·0	2·6	+0·4	42	−41	84	0	·651	+·109	1·0	−0·2	1	0·3	+0·7	0·10	0·12	−0·02	0·12	0·92	−0·80	0·10	Akyab.
6	0	0	0	10	2	2	0	9	S 10° W	N 70° W	3·0	4·6	−1·6	14	−4	61	−4	·408	−·034	2·0	+0·8	0	0·2	−0·2	0	0·10	−0·10	2·00	0·59	+1·41	0	Minbu.
18	0	0	1	9	4	1	0	0	S 23° E	S 63° E	1·1	2·3	−1·2	29	+17	68	−3	·470	−·004	0·2	−1·0	0	0·5	−0·5	0	0·32	−0·32	3·68	0·76	+2·92	0	Yamethin.
21	0	0	1	3	2	1	1	0	S 17° E	S 30° W	1·5†	1·8	−0·2	14	+3	63	−6	·426	−·031	3·5‡		0	0·2	−0·2	0	0·07	−0·07	0·75	0·44	+0·31	0	Mandalay.
6	15	2	0	1	1	0	0	1	N 28° W		2·0			60		64	−10	·397	−·062	0·2	−1·4	0	0·1	−0·1	0	0·03	−0·03	0·50	0·40	+0·10	0	Monywa.
28	0	1	0	0	0	0	0	0	N 45° E		2·6			4		80	−2	·353	−·010	1·2	−2·2	0	0·8	−0·8	0·01	0·28	−0·27	1·35	1·28	+0·07	0·01	Lashio.
25	2	2	0	0	0	0	0	0	N 23° E	N 18° W	0·9	2·0	−1·1	11	−13	92	+3	·439	+·001	4·9	+2·1	0	1·3	−1·3	0·02	0·46	−0·44	0·14	1·63	−1·49	0·02	Bhamo.
25	1	2	1	0	0	0	0	0	N 25° E		1·4			11		86	0	·427	−·019	4·2	+0·8	3	2·0	+1·0	0·98	0·66	+0·32	1·33	1·65	−0·32	0·65	Myitkyina.
																																II.—Assam.
23	1	1	3	1	0	0	0	0	N 77° E		0·8			14		91	−1	·456	+·027	5·7	+0·7	4	4·3	−0·3	1·57	1·94	−0·37	4·05	4·06	−0·01	0·42	Dibrugarh.
6	7	6	2	0	2	0	0	2	N 20° E	N 48° E	2·1	1·7	+0·4	32	−4	90	−7	·455	+·001	6·2	0	6	5·0	+1·0	2·87	1·86	+1·01	4·52	3·68	+0·84	1·18	Sibsagar.
5	0	5	17	1	0	0	0	0	N 84° E		2·7			74		88	0	·445	+·022	3·6	+0·2	3	2·4	+0·6	1·18	0·84	+0·34	3·49	1·58	+1·91	0·41	Tezpur.
28	0	1	1	0	0	0	0	1	N 88° E		1·2			4		83	−6	·415	+·024	2·6	−2·7	2	2·5	−0·5	0·32	0·92	−0·58	0·38	1·39	−1·01	0·15	Gauhati.
9	0	8	10	1	2	0	2	0	N 84° E	N 67° E	4·0	3·1	+0·9	46	+15	77	−7	·425	+·003	4·5	+2·2	1	1·4	−0·4	0·37	0·67	−0·30	0·52	1·08	−0·55	0·37	Dhubri.
14	1	8	6	0	0	0	0	0	N 60° E	S 63° E	1·0	1·8	−0·8	46	+28	82	−4	·466	+·015	1·3	−2·0	2	3·6	−1·6	0·56	2·04	−1·48	1·11	3·30	−2·19	0·43	Silchar.
																83	−4	·461	+·004	2·1		1	2·2	−1·2	0·39	1·37	−0·98	0·80	2·37	−1·57	0·35	Srimangal.
																																III.—Bengal.
20	2	2	0	3	1	0	0	0	N 77° E		1·9			14		84		·556		1·7		1			1·05			1·06			1·05	Cox's Bazar.
24	0	3	2	0	0	0	0	0	N 63° E	N 45° E	1·1	2·8	−1·7	14	−41	91	+8	·569	+·059	2·2	0	0	1·2	−1·2	0	0·98	−0·98	0·01	2·11	−2·10	0	Chittagong.
13	3	4	1	2	2	4	0	0	S 79° E		1·6			8		88	+1	·570	+·037	3·0	+0·7	0	2·0	−2·0	0	1·13	−1·13	0·02	1·79	−1·77	0	Noakhali.
16	2	3	0	0	2	2	3	1	N 56° W	N 13° W	1·1	1·5	−0·4	11	+3	78	−6	·521	−·025	2·3	+0·2	0	1·8	−1·8	0·02	1·02	−1·00	0·05	2·04	−1·99	0·02	Barisal.
9	4	1	1	1	5	3	1	4	S 85° W	N 27° W	1·5	2·1	−0·6	12	+4	78	−5	·493	−·007	1·9	−1·0	1	1·9	−0·9	2·24	1·32	+0·92	2·24	1·83	+0·41	2·22	Narayangani.

(a) Indeterminate.

* Mean of 19 days.
† " 27 "
‡ " 11 "

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	III.—Bengal—*concld.*																						
	Mymensingh	63	29·881	—·078	29·898	30·026	13th	29·699	27th	·327	59·9	80·9	+2·3	56·3	+0·5	68·6	+1·4	24·6	87·5	28th	47·1	9th	40·4
	Bogra	75	29·869	—·078	29·899	30·030	13th	29·668	27th	·362	59·9	82·1	+2·2	54·8	+0·4	68·4	+1·3	27·3	89·0	28th	45·8	9th	43·2
	Dinajpur	122	29·809	—·082	29·893	29·998	13th	29·619	27th	·379	59·8	79·5	+0·2	53·4	+1·1	66·5	+0·7	26·1	85·3	28th	44·0	9th	41·8
	Jalpaiguri	263	29·644	—·084	29·901	29·818	13th	29·462	27th	·356	57·8	77·1	+0·9	54·0	+1·2	65·6	+1·1	23·1	82·0	17th	47·8	8th & 9th	34·2
	Saugor Island	10	29·947	—·065	29·908	30·001	12th	29·709	27th	·292	68·4	81·8	+0·9	61·8	—3·2†	71·8	—1·1†	20·0	88·8	29th	50·4	10th	38·4
	Midnapore	149	29·797	—·078	29·900	29·952	12th	29·647	27th	·305	67·1	87·0	+1·6	59·8	—1·3	73·4	+0·1	27·2	96·2	28th	50·7	13th	45·5
	Calcutta	21	29·933	—·070	29·901	30·086	13th	29·775	27th	·311	64·0	84·4	+2·4	59·8	—0·2	72·1	+1·1	24·6	93·1	28th	49·5	10th	43·6
	Jessore	30	29·936	—·068	29·904	30·071	12th	29·764	27th	·307	63·3	83·3	+1·1	56·2	—1·0	69·7	+0·1	27·1	91·8	28th	43·1	10th	48·7
	Burdwan	99	29·850	—·078	29·900	30·023	13th	29·684	27th	·339	64·1	85·4	+2·2	57·1	—1·5	71·3	+0·3	28·3	94·8	28th	47·0	9th	47·8
	Berhampore	67	29·880	—·079	29·900	30·044	12th	29·688	27th	·356	61·4	82·7	+1·3	57·1	+0·7	69·9	+1·0	25·6	90·6	28th	48·0	10th	42·6
	IV.—Bihar and Orissa.																						
6	Balasore	50	29·914	—·065	29·911	30·069	12th	29·777	27th	·292	66·1	86·5	+1·9	59·7	—1·8	73·1	+0·1	26·8	96·9	28th	52·3	10th	44·6
	Hukitala (False Point).	29	29·950	—·046	29·920	30·073	13th	29·820	27th	·253													
	Cuttack	30	29·891	—·050	29·915	30·018	12th	29·772	27th	·246	68·5	88·9	—0·3	64·3	—1·2	76·6	—0·7	24·6	98·3	28th	57·4	9th	40·9
	Puri	24	29·945	—·053	29·910	30·074	12th	29·833	21st	·241	72·9	85·5	+2·5	69·4	+0·4	77·4	+1·5	16·1	92·2	29th	63·6	13th	28·6
	Angul	455	29·505	—·025	29·921	29·629	15th	29·360	21st	·269	68·0	87·7	+0·5	60·7	—0·7	74·2	—0·1	27·0	95·3	28th	50·6	9th	44·7
	Sambalpur	486	29·480	—·049	29·934	29·598	12th	29·343	21st	·255	66·0	86·1	—1·0	58·4	—1·5	72·3	—1·3	27·7	93·8	28th	44·2	9th	49·6
7	Chaibasa	*733*	29·192	—·078	29·912	29·332	12th	29·048	21st	·284	61·0	86·2	+1·7	56·7	—0·4	71·4	+0·7	29·5	93·8	28th	45·1	9th	48·7
	Ranchi	2,128	27·796	—·050	29·916	27·913	12th	27·645	21st	·268	61·3	78·9	+1·8	55·8	+0·9	67·4	+1·3	23·1	88·0	27th	43·9	9th	44·1
	Purulia	*816*	29·128	—·066	29·931	29·278	12th	28·980	21st	·298	63·3	86·6‡	+5·1‡	58·4	+0·8	72·6‡	+2·9	28·2	95·0	28th	47·1	9th	47·9
	Daltenganj	*730*	29·202	—·084†	29·928	29·352	12th	29·000	21st	·352	58·6*	83·0*	+4·0*	52·5*	+1·1*	67·7*	+2·5	30·5	92·7	27th	39·6	12th	53·1
8	Purnea	124	29·806	—·088	29·893	29·996	13th	29·602	27th	·394	57·5	80·2	+1·5	52·1	+0·8	66·2	+1·1	28·1	85·2	28th	41·6	9th	43·6
	Monghyr	155	29·782†		29·898†	29·938	13th	29·593	27th	·345	61·5	78·9		55·5		67·2		23·4	85·4	6th	44·3	8th	41·1
	Darbhanga	165	29·776	—·074	29·905	29·942	13th	29·569	27th	·373	56·9	77·5	+2·9	52·5	—1·0	65·0	—0·1	25·0	84·5	6th	43·1	9th	41·4
	Pusa	188	29·746		29·900	29·919	14th	29·555	27th	·364	57·2	79·0		49·9		64·5		29·1	86·2	6th	39·3	9th	46·9
	Patna	183	29·748	—·091	29·898	29·915	12th	29·562	27th	·353	62·6	76·8	—0·8	55·2	+1·4	66·0	+0·3	21·6	84·1	28th	44·4	9th	39·7
	Buxar	239	29·704	—·074	29·913	29·852	12th	29·516	21st	·336	58·9	80·1	+1·8	52·7†	—1·3†	65·6†	+0·3	27·4	89·5	27th	38·8	8th	51·1
	Gaya	372	29·569	—·059	29·930	29·743	12th	29·397	21st	·346	64·2	81·0	+0·5	57·8	+2·0	69·4	+1·3	23·2	91·1	27th	46·4	9th	44·7
	Naya Dumka	489	29·449	—·070	29·911	29·608	13th	29·282	27th	·326	64·4	83·3	+3·6	55·6	—0·2	69·5	+1·7	27·7	91·2	27th	44·1	9th	47·1
	V.—United Provinces of Agra and Oudh.																						
9	Gorakhpur	257	29·670	—·073	29·900	29·854	13th	29·509	27th	·345	57·8	78·2	+0·8	52·6	+0·4	65·4	+0·6	25·6	85·4	6th	43·3	9th	42·1
	Benares	267	29·694	—·059	29·930	29·840	12th	29·496	21st	·344	60·2	79·8	+0·4	53·8	+1·7	66·6	+1·1	26·5	91·0	27th	37·7	9th	53·3
	Allahabad	309	29·641	—·072	29·923	29·782	7th	29·461	21st	·321	59·4	79·0	—0·5	52·4	+0·7	65·7	+0·1	26·6	90·6	27th	38·5	9th	52·1
	Cawnpore	416	29·540	—·055	29·939	29·693	7th	29·389	21st	·304	56·2	77·4	—0·2	51·6	+0·7	64·5	+0·3	25·8	88·0	27th	41·1	8th	46·9

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 24 days.

† Mean of 23 days.
‡ Mean of 28 days.

B—*continued.*

stations in India, etc., in February, 1916—*continued.*

Wind direction. Number of winds from Calm (25)	N. (26)	N.E. (27)	E. (28)	S.E. (29)	S. (30)	S.W. (31)	W. (32)	N.W. (33)	Resultant direction. (34)	Normal direction. (35)	Wind velocity. Mean velocity, miles per hour. (36)	Normal. (37)	Departure from normal. (38)	Wind steadiness. Actual percentage. (39)	Departure from normal. (40)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (41)	Departure from normal. (42)	Mean vapour tension at 8 hrs. in inches of mercury. (43)	Departure from normal. (44)	Cloud. Mean cloud amount at 8 hrs. (45)	Departure from normal. (46)	Rainfall. Number of rainy days. (47)	Normal number of rainy days. (48)	Departure from normal. (49)	Rainfall of month. (50)	Normal rainfall of month. (51)	Departure from normal. (52)	Total rainfall from 1st Dec., 1915, to 29th Feb., 1916. (53)	Normal rainfall for this period. (54)	Departure from normal of this period. (55)	Heaviest rainfall during month. (56)	Station. (57)
																																III.—Bengal —*concld.*
22	0	1	2	2	0	1	0	1	S 75° E	N 74°	1·2	1·4	−0·2	11	−20	83	0	·428	−·026	1·8	−0·3	0	1·6	− 1·6	0·09	1·00	− 0·91	0·09	1·49	− 1·40	0·09	Mymensingh.
23	1	0	0	0	2	3	0	0	S 34° W	N 27° W	1·3	1·8	−0·5	14	+ 3	78	0	·399	−·019	2·0	+0·5	2	1·7	+ 0·3	0·34	0·88	− 0·54	0·34	1·38	− 1·04	0·19	Bogra.
5	1	0	2	1	1	7	8	4	S 78° W	N 83° W	2·4	2·6	−0·2	46	+17	76	− 4	·394	−·004	1·2	−1·2	1	1·1	− 0·1	0·27	0·53	− 0·26	0·32	0·95	− 0·63	0·27	Dinajpur.
29	0	0	0	0	0	0	0	0	Calm	N 40° E	1·1			(a)		88	+ 3	·423	+·006	2·1	+0·3	1	1·1	− 0·1	0·68	0·61	+ 0·07	0·85	1·03	− 0·18	0·68	Jalpaiguri.
2	6	11	2	0	2	2	3	1	N 22° E	N 3° W	6·1	5·3	+0·8	42	+18	83	− 3	·591	−·036	1·5	−1·7	1	1·8	− 0·8	0·13	1·14	− 1·01	0·59	1·81	− 1·22	0·13	Saugor Island.
11	6	1	0	0	1	1	1	8	N 33° W		2·0*			45		57	−11	·387	−·062	0·7	−1·2	0	1·8	− 1·8	0·01	1·13	− 1·12	0·01	1·95	− 1·94	0·01	Midnapore.
9	1	2	1	1	1	3	1	10	N 51° W	N 46° W	3·0	2·4	+0·6	32	+16	76	− 5	·458	−·055	0·6	−1·9	0	1·6	− 1·6	0	1·15	− 1·15	0	1·77	− 1·77	0	Calcutta.
27	0	0	0	0	0	1	0	1	W	N 18° W	1·8	1·5	+0·3	5	− 7	79	− 2	·465	−·030	2·0	−0·3	0	1·9	− 1·9	0	1·37	− 1·37	0·12	1·99	− 1·87	0	Jessore.
18	2	0	0	0	0	1	2	6	N 51° W	N 27° W	1·7	1·5	+0·2	29	+ 9	61	−10	·376	−·055	1·0	−1·8	0	1·7	− 1·7	0	1·14	− 1·14	0	1·71	− 1·71	0	Burdwan.
12	1	0	1	1	1	9	3	1	S 53° W	S 83° W	1·6	1·6	0	36	+ 5	71	− 9	·389	−·049	0·9	−1·6	0	1·8	− 1·8	0·06	0·94	− 0·88	0·06	1·47	− 1·41	0·06	Berhampore.
																																IV.—Bihar and Orissa.
5	10	1	1	0	1	4	0	7	N 27° W	N 42° W	2·0	2·8	−0·8	49	+14	71	− 6	·458	−·057	1·2	−0·9	1	2·1	− 1·1	0·23	1·31	− 1·08	0·25	2·17	− 1·92	0·23	Balasore.
2	8	2	0	0	2	8	2	5	N 61° W		7·2			39	− 4					3·1	−0·2	1	1·3	− 0·3	1·86	0·97	+ 0·89	1·86	2·29	− 0·43	1·86	Hukitala (False Point)
22	0	1	1	0	0	2	3	0	S 75° W	N 36° E	1·3	1·5	−0·2	11	+ 4	72	− 8	·506	−·069	1·9	−0·8	0	1·2	− 1·2	0	0·60	− 0·60	0	1·20	− 1·20	0	Cuttack.
3	8	2	0	0	1	3	4	8	N 40° W		8·5			55		78	− 3	·634	−·027	3·0	+0·9	0	0·8	− 0·8	0	0·75	− 0·75	0	1·55	− 1·55	0	Puri.
12	1	1	0	0	0	0	1	14	N 40° W		3·2			55		61	−15	·423	−·085	2·1	−1·1	0	1·8	− 1·8	0·02	0·96	− 0·94	0·02	2·20	− 2·18	0·02	Angul.
0	9	9	1	0	1	1	1	7	N 2° E	N 27° E	3·3	2·1	+1·2	67	+ 5	67	+ 1	·427	−·012	2·1	−0·2	1	1·6	− 0·6	0·21	0·74	− 0·53	0·21	1·40	− 1·19	0·21	Sambalpur.
15	0	0	0	1	5	7	1	0	S 26° W	S 86° W	2·7	1·1	+1·6	42	−15	65	−11	·350	−·065	1·3	−0·9	1	2·4	− 1·4	0·11	1·56	− 1·45	0·11	2·61	− 2·50	0·11	Chaibasa.
10	2	0	0	0	0	1	7	9	N 61° W	N 68° W	4·9	4·2	+0·7	56	+21	51	− 9	·279	−·038	1·4	−1·2	2	2·9	− 0·9	0·42	1·55	− 1·13	0·42	2·55	− 2·13	0·23	Ranchi.
10	1	0	0	0	0	0	2	16	N 47° W		2·2			62		56	− 9	·331	−·044	1·6	−0·7	1	3·0	− 2·0	0·16	1·44	− 1·28	0·16	2·66	− 2·50	0·16	Purulia.
15	0	1	4	3	2	3	1	0	S 39° E		2·8			24		72†	− 3	·355†	−·019	1·4	−0·6	3	2·4	+ 0·6	1·45	1·14	+ 0·31	1·45	2·35	− 0·90	0·68	Daltonganj.
5	4	2	0	0	1	9	6	2	S 88° W	S 64° W	3·1	2·3	+0·8	42	+22	82	− 2	·393	+·003	1·2	−0·4	2	1·3	+ 0·7	0·49	0·60	− 0·11	0·49	1·15	− 0·66	0·27	Purnea.
2	1	0	1	1	0	8	11	5	S 84° W		4·3			66		65		·359		1·7		2			0·88			0·88			0·52	Monghyr.
15	1	0	1	1	0	4	7	0	S 73° W	N 89° W	2·2	2·7	−0·5	29	− 2	76	− 3	·396	+·006	0·9	−0·8	1	1·3	− 0·3	0·56	0·49	+ 0·07	0·56	1·10	− 0·54	0·45	Darbhanga.
4	2	1	3	2	6	6	5	0	S 24° W		2·9			35		81		·379		2·2		1			0·44			0·46			0·27	Pusa.
16	0	0	1	1	1	5	5	0	S 52° W	S 70° W		2·4		29	−18	62	− 7	·354	−·019	1·3	−1·2	2	1·5	+ 0·5	0·85	0·71	+ 0·14	0·85	1·41	− 0·56	0·44	Patna.
2	0	0	1	5	3	10	8	0	S 38° W		5·0			62		65	− 1	·331	−·017	2·2	−0·3	2	1·8	+ 0·2	0·55	0·72	− 0·17	0·61	1·65	− 1·04	0·36	Buxar.
16	0	0	0	0	2	9	2	0	S 45° W	S 37° W	2·7	2·6	+0·1	39	+ 4	53	−16	·319	−·063	1·0	−1·6	1	1·8	− 0·8	0·61	0·83	− 0·22	0·61	1·69	− 1·08	0·54	Gaya.
16	1	0	1	1	0	1	2	7	N 52° W		2·3			29		55	−10	·332	−·057	0·6	−1·3	1	1·9	− 0·9	0·24	0·75	− 0·51	0·24	1·41	− 1·17	0·21	Naya Dumka.
																																V.—United Provinces of Agra and Oudh.
5	1	1	4	0	0	1	16	1	N 83° W	N 73° W	2·7	1·6	+1·1	46	+ 7	68	− 4	·326	−·031	0·9	−1·3	2	1·6	+ 0·4	0·83	0·53	+ 0·35	0·95	1·44	− 0·49	0·77	Gorakhpur.
8	0	2	2	2	1	10	3	1	S 39° W	S 52° W	2·3	2·8	−0·5	32	− 2	67	− 8	·353	−·020	1·9	−0·6	2	1·8	+ 0·2	0·87	0·70	+ 0·17	0·87	1·67	− 0·80	0·55	Benares.
12	1	1	1	0	1	4	7	2	S 86° W	S 81° W	2·7	3·3	−0·6	32	+ 8	62	− 6	·319	−·031	2·7	0	3	1·4	+ 1·6	0·87	0·50	+ 0·37	1·01	1·59	− 0·58	0·34	Allahabad.
7	3	1	0	2	1	2	8	5	N 73° W	N 81° W	2·2	2·8	−0·6	39	+15	67	− 3	·303	−·017	0·9	−1·1	2	1·7	+ 0·3	0·39	0·63	− 0·24	0·41	1·46	− 1·05	0·23	Cawnpore.

(a) Indeterminate.

* Mean of 27 days.
† „ „ 24 „

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	V.—United Provinces of Agra and Oudh—*concld.*																						
	Lucknow	368	29·582	−·061	29·928	29·730	14th	29·438	21st	·292	60·3	76·0	−2·4?	52·3	+1·6	64·1	−0·4?	23·7	84·6	2nd	41·0	8th	43·6
	Bahraich	407	29·517	−·071	29·910	29·699	13th	29·376	27th	·323	55·7	76·7	+0·4	50·9	+0·5	63·8	+0·5	25·8	85·0	6th	40·2	8th	44·8
10	Jhansi	824	29·130	−·072	29·956	29·329	7th	28·990	20th	·339	58·1	80·7	0	53·3	−2·2	67·0	−1·1	27·4	93·4	1st	40·8	9th	52·6
	Agra	556	29·413	−·048	29·959	29·587	7th	29·273	21st	·314	58·9	77·7	0	52·0	−0·2	64·9	−0·1	25·7	86·2	1st	39·5	7th	48·7
	Mainpuri	516	29·428	−·062	29·935	29·592	7th	29·325	21st	·267	55·0	76·5	0	50·0	+0·5	63·2	+0·3	26·5	86·6	1st	38·3	7th	48·3
	Bareilly	568	29·361	−·057	29·925	29·491	14th	29·249	21st	·242	55·1	75·5	+0·7	49·3	−0·3	62·4	+0·2	26·2	83·8	26th	38·3	7th	45·5
	Roorkee	899	29·035	−·041	29·960	29·167	13th	28·928	21st	·239	52·1	73·1	+0·3	46·5	−0·5	59·8	−0·1	26·6	81·0	26th	33·0	9th	48·0
	VI.—Punjab.																						
11	Delhi	718	29·231	−·051	29·958	29·400	7th	29·106	21st	·291	55·2	73·8	−1·0	51·4	−0·1	62·6	−0·5	22·4	83·3	27th	37·0	8th	46·3
	Hissar	725	29·227	−·053	29·969	29·418	7th	29·056	20th	·362	52·0	75·0	+0·5	46·4	−0·2	60·7	+0·1	28·6	84·6	26th	33·2	9th	51·4
	Patiala	*818*	29·120	−·045	29·961	29·272	7th	28·970	20th	·309	52·1	71·1	−0·1	48·3	+1·0	59·7	+0·5	22·8	80·9	27th	35·8	9th	45·1
	Ambala	892	29·035	−·049	29·954	29·179	7th	28·908	20th	·271	52·4	73·4	+1·6	47·3	+0·4	60·3	+1·0	26·1	82·7	26th & 27th	32·1	9th	50·6
	Ludhiana	812	29·125	−·049	29·962	29·318	7th	28·983	26th	·335	51·3	71·0	+0·4	48·3	+0·7	59·6	+0·6	22·7	79·3	25th	35·0	8th	44·3
	Lahore	702	29·238	−·060	29·963	29·475	7th	29·045	5th	·430	50·5	71·1	−1·0	46·4	+1·9	58·8	+0·5	24·7	80·5	25th	34·3	8th	46·2
	Sialkot	830	29·111	−·051	29·972	29·326	7th	28·925	5th	·401	51·2	76·5	+1·0	44·9	−1·0	57·8	0	25·6	79·4	24th	32·2	7th	47·2
	Rawalpindi	1,674	28·249	−·053	30·003	28·470	7th	28·006	5th	·464	47·3	66·3	+1·5	41·0	−0·2	53·7	+0·7	25·3	74·0	25th	32·0	7th	42·0
12	Khushab	612	29·358	−·056	29·981	29·636	7th	29·104	5th	·532	54·1	70·7	+0·2						80·1	25th			
	Lyallpur	605	29·345		29·966	29·618	7th	29·124	5th	·494	48·7	69·3		42·9		56·1		26·4	78·0	25th	31·8	8th	46·2
	Montgomery	558	29·397	−·062	29·968	29·670	7th	29·196	20th	·474	49·4	70·7	−1·8	44·9	−0·5	57·8	−1·1	25·8	82·5	25th	33·2	8th	49·3
	Multan	426	29·548	−·060	29·971	29·360	7th	29·345	5th	·515	51·1	72·9	+0·3	47·0	−0·3	60·5	0	26·9	86·5	29th	37·2	8th	49·3
	VII.—North-West Frontier Province.																						
14	Peshawar	1,113	28·856	−·068	30·030	29·135	7th	28·631	1st	·504	46·8	63·8	−1·9	42·6	+0·1	53·2	−0·9	21·2	74·2	22nd	34·5	7th	39·7
	D. I. Khan	590	29·375	−·034	29·984	29·685	7th	29·188	1st	·497	48·9	69·0	−2·6	45·1	+0·8	57·1	−0·9	23·9	78·6	29th	35·8	8th	42·8
	VIII.—Sind.																						
16	Jacobabad	186	29·822	−·023	29·981	30·140	7th	29·653	1st & 20th.	·487	53·8	77·8	0	46·8	−1·4	62·3	−0·7	31·0	88·3	23rd	30·2	6th	58·1
	Hyderabad	96	29·909	−·044	29·962	30·163	7th	29·757	20th	·406	57·7	79·1	−1·4	52·6	−1·4	65·9	−1·4	26·5	89·9	25th	36·2	6th	53·7
	Karachi	13	30·022	−·025	29·986	30·255	7th	29·886	20th	·369	62·6	75·1	−3·1	58·9	−2·6	67·0	−2·9	16·2	79·1	27th	45·9	7th	33·2
	IX.—Rajputana.																						
17	Bikaner	*772*	29·188	−·044	29·971	29·445	7th	29·001	20th	·444	54·0	75·9	+0·2	48·7	−3·7	62·3	−1·7	27·2	88·0	24th & 26th	37·9	7th	50·1
	Jodhpur	780	29·188	−·042	29·971	29·423	7th	29·031	20th	·392	56·7	78·0	−2·0	51·8	−1·2	64·9	−1·6	26·2	88·7	25th	34·7	6th	54·0
18	Jaipur	1,431	28·509	−·063	29·970	28·718	7th	28·360	20th	·358	55·9	77·7	−0·3	48·3	−3·1	63·0	−1·7	29·4	88·0	26th	35·1	6th	52·9
	Ajmer	1,611	28·341	−·054	29·998	28·552	7th	28·202	20th	·350	51·6	75·5	−1·8	48·2	−1·4	61·8	−1·6	27·3	85·2	25th	33·8	7th	51·4
	Kotah	832	29·137	−·043	29·961	29·319	7th	28·922	20th	·387	63·2	81·7	+0·2	55·7	+0·6?	68·7	+0·4?	26·0	94·8	26th	42·6	7th	52·2

N. B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in February, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 29th Feb., 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																V.—United Provinces of Agra and Oudh—*concld.*
16	0	0	1	0	0	0	11	1	N 86° W	N 74° W	1·3	2·2	−0·9	39	+ 9	58	−11	·313	−·012	2·2	−0·8	2	1·4	+0·6	1·49	0·57	+0·92	1·49	1·76	−0·27	1·30	Lucknow.
7	2	2	1	1	2	4	5	5	N 80° W	N 68° W	2·5	2·3	+0·2	29	− 2	70	− 7	·315	−·041	1·4	−0·7	2	2·2	−0·2	0·44	0·99	−0·55	0·31	2·20	−1·39	0·32	Bahraich.
3	2	0	1	1	1	10	7	4	S 75° W	S 81° W	4·0	1·8	+2·2	56	+33	44	−12	·215	−·095P	1·0	−0·6	1	1·2	−0·2	0·31	0·45	−0·14	0·54	1·40	−0·86	0·29	Jhansi.
10	2	1	2	1	2	5	3	3	S 75° W	N 53° W	2·9	3·1	−0·2	80	−21	53	−10	·273	−·022	1·6	−1·0	1	0·9	+0·1	0·64	0·37	+0·27	0·64	1·24	−0·60	0·57	Agra.
5	2	1	2	1	1	3	8	6	N 74° W	N 63° W	2·0	1·5	+0·5	39	+19	62	− 8	·277	−·030	2·2	−1·0	2	1·6	+0·4	0·99	0·72	+0·27	1·00	1·84	−0·84	0·85	Mainpuri.
18	0	0	1	1	0	1	7	1	S 84° W	N 51° W	1·3	2·3	−1·0	25	− 1	76	+ 1P	·335	+·018P	3·6	+0·7	1	1·8	−0·8	1·13	0·77	+0·36	1·17	2·20	−1·03	1·05	Bareilly.
15	1	1	0	1	0	0	0	11	N 36° W	N 40° W	2·4	2·0	+0·4	39	+27	70	− 9	·276	−·024	2·9	−0·2	4	2·7	+1·3	0·71	1·49	−0·78	0·91	3·71	−2·80	0·21	Roorkee.
																																VI.—Punjab.
3	2	3	1	2	2	0	5	11	N 44° W	N 86° W	3·2	2·6	+0·6	39	+ 6	57	− 6	·256	−·018	1·9	−1·5	2	1·6	+0·4	1·53	0·66	+0·87	1·55	2·21	−0·66	1·27	Delhi.
2	2	2	2	3	6	6	4	2	S 29° W	S 76° W	4·2	3·0	+1·2	32	+28	59	−12	·236	−·040	3·1	−0·3	0	1·0	−1·0	0·25	0·34	−0·09	0·35	1·32	−0·97	0·09	Hissar.
6	7	1	2	3	0	0	4	6	N 17° W		4·3			35		70	− 5	·273	−·028	3·4	−0·2	3	2·3	+0·7	0·82	1·44	−0·62	1·04	3·15	−2·11	0·40	Patiala.
13	6	1	2	2	0	0	1	3	N 17° E	N 39° W	3·2	1·7	+1·5	25	0	69	−11	·278	−·028	3·8	+0·1	3	3·4	−0·4	0·67	2·08	−1·41	1·03	4·34	−3·31	0·25	Ambala.
21	1	0	1	0	2	0	1	3	N 62° W	N 52° W	1·3	1·4	−0·1	7	−21	70	− 6	·270	−·022	1·8	−2·0	3	2·6	+0·4	1·27	1·38	−0·11	1·44	3·85	−2·41	0·54	Ludhiana.
15	2	3	0	3	2	0	2	2	N 32° E	N 23° W	1·8	1·6	+0·2	4	− 5	74	− 5	·276	−·013	3·2	−0·4	2	2·2	−0·2	0·46	0·99	−0·53	0·63	2·45	−1·82	0·24	Lahore.
10	1	4	6	2	0	0	1	5	N 44° E	N 18° E	1·9	1·3	+0·6	29	+15	80	+ 3	·302	+·009	3·5	+0·5	2	3·1	−1·1	1·14	1·72	−0·58	1·44	4·70	−3·26	0·79	Sialkot.
14	2	1	1	3	1	2	4	1	S 64° W	N 45° W	3·1	1·7	+1·4	7	−17	79	0	·262	+·012	5·5	+1·3	6	3·8	+2·2	2·10	2·29	−0·19	2·47	5·93	−3·46	0·85	Rawalpindi.
10	2	6	2	1	1	3	3	1	N 19° E	N 29° E	3·7	2·4	+1·3	11	0	53	−13P	·218	−·025	3·9	+0·8	0	2·0	−2·0	0·04	0·87	−0·83	0·20	2·09	−1·89	0·02	Khushab.
7	0	2	2	5	2	3	1	7	S 41° W		1·5			4		77		·271		3·7		1	1·5	−0·5	0·54	0·70	−0·16	0·96	1·32	−0·36	0·54	Lyallpur.
8	3	3	2	3	3	1	1	5	N 20° E	N 18° E	4·0	3·1	+0·9	11	− 5	71	+ 7	·254	+·005	2·3	−1·0	1	1·4	−0·4	0·39	0·48	−0·09	0·51	1·43	−0·92	0·36	Montgomery.
11	6	5	0	4	1	1	0	1	N 41° E	N 37° E	1·0	1·3	−0·3	29	+ 9	65	0	·243	−·020	2·2	−0·8	0	1·4	−1·4	0	0·40	−0·40	0·13	1·04	−0·91	0	Multan.
																																VII.—North-West Frontier Province.
14	0	0	0	0	10	3	1	1	S 19° W	S 27° W	1·5	2·3	−0·8	42	+ 3	79	+ 7	·257	+·018	4·6	+0·2	6	3·1	+2·9	1·53	1·31	+0·22	2·88	3·44	−0·96	0·47	Peshawar.
18	3	2	1	0	0	0	2	3	N 15° W	N 22° W	1·6	1·4	+0·2	25	+ 1	72	+ 3	·252	+·003	3·7	+0·4	1	1·7	−0·7	0·29	0·71	−0·42	0·60	1·44	−0·84	0·18	D. I. Khan.
																																VIII.—Sind.
15	5	1	5	1	0	0	0	2	N 38° E	N 37° E	2·5	2·2	+0·3	29	+ 9	50	− 6	·213	−·032	2·6	−0·4	0	1·1	−1·1	0	0·38	−0·36	0	0·78	−0·78	0	Jacobabad.
1	13	0	0	1	2	10	1	1	N 63° W	N 21° W	4·1	5·0	−0·9	32	− 8	55	− 1	·285	−·002	0·3	−2·2	0	0·7	−0·7	0	0·28	−0·28	0	0·57	−0·57	0	Hyderabad.
4	3	9	2	0	0	0	5	6	N 4° W	N 39° E	9·1	7·2	+1·9	46	−13	58	− 8	·361	−·057	1·8	−0·5	0	1·0	−1·0	0·02	0·41	−0·39	0·20	1·16	−0·96	0·01	Karachi.
																																IX.—Rajputana.
4	1	1	4	2	3	3	1	0	S 32° E	N 39° W	3·2	3·3	−0·1	21	− 3	49	− 3	·210	−·025	1·4	−1·7	0	0·8	−0·8	0·02	0·29	−0·27	0·07	0·80	− 0·73	0·02	Bikaner.
7	2	13	1	0	0	4	2	0	N 33° E		3·4			36		35	− 7	·175	−·034	1·7	−1·2	0	0·6	−0·6	0	0·22	−0·22	0	0·53	− 0·53	0	Jodhpur.
7	7	6	2	0	0	0	2	5	N 3° E	N 2° W	3·4	2·8	+0·6	53	+22	50	− 3	·225	−·031	1·3	−1·7	1	0·7	+0·3	0·13	0·26	−0·13	0·24	0·97	− 0·73	0·12	Jaipur
7	0	0	0	0	1	0	0	1	S 67° W	N 2° W	2·7	1·8	+0·9	2	− 9	52	−10	·211	−·059	0·8	−1·7	0	0·8	−0·8	0	0·28	−0·28	0·05	0·95	− 0·90	0	Ajmer.
9	1	2	0	1	2	3	7	4	N 88° W		2·9			34		36	−11	·218	−·023	1·3	−0·6	0	0·5	−0·5	0·03	0·24	−0·21	0·03	0·76	− 0·73	0·03	Kotah.

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. obs.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	X.—Bombay.																						
19	Deesa	466	29·525	—·017	29·979	29·712	7th	29·434	20th	·278	59·9	84·2	−2·0	51·6	−2·9	67·9	−2·5	32·6	94·2	26th	34·4	6th	59·8
	Bhuj	334	29·674	—·024	29·975	29·850	7th	29·565	20th	·285	62·3	80·0	−3·7	52·2	—5·3?	66·1	—4·5?	27·8	88·6	20th	36·1	7th	52·5
	Jamnagar	61	29·962	—·039	29·972	30·148	7th	29·864	20th	·284	63·6	79·1	−3·0	54·5	—1·2	66·8	−2·1	24·6	86·8	25th	38·7	7th	48·1
	Dwarka	37	29·995	—·035	29·978	30·161	7th	29·910	20th	·251	67·2	76·7	−1·4	63·5	+1·5	70·1	+0·1	13·2	81·8	19th	48·4	7th	33·4
	Rajkot	429	29·571	—·032	29·971	29·709	7th	29·490	20th	·219	60·6	82·5	−4·1?	52·3	—1·7	67·4	−2·9?	30·2	91·1	25th	36·3	6th	54·8
	Veraval	*18*	29·999	—·012	29·960	30·124	7th	29·935	20th	·189	63·7	77·7	−3·8	59·4	—1·2	68·6	—2·5	18·3	82·1	18th & 25th.	48·5	9th	33·6
	Bhavnagar Para	55	29·962	—·019	29·965	30·100	6th	29·900	16th	·200	63·5	84·9	−1·7?	55·5	−2·4	70·2	—2·1?	29·4	98·2	26th	39·2	8th	59·0
	Surat	39	29·972	—·018	29·955	30·088	6th	29·902	19th	·186	64·9	85·2	—4·4?	58·4	−0·7	71·8	—2·5?	26·8	96·1	26th	45·7	7th	50·4
	Ahmadabad	163	29·861	—·008	29·983	30·036	7th	29·772	16th	·264	65·7	85·2	−2·2	57·4	—2·1	71·3	—2·1	27·8	95·9	26th	42·9	6th	53·0
	Bombay	37	29·961	—·020	29·940	30·047	6th	29·887	8th	·160	70·2	81·4	−1·4	67·5	−0·9	74·4	—1·1	13·9	84·9	9th	59·2	7th	25·7
	Ratnagiri	207	29·758	—·031	29·909	29·809	13th	29·693	8th	·116	73·4	82·9	−3·1	67·5	+0·4	75·2	−1·3	15·4	89·9	25th	61·3	7th	28·6
	Marmagao	*60*	29·905	—·034	29·901	29·961	13th	29·847	2nd	·114	72·2	83·5	—1·3	69·7	—1·1	76·6	—1·2	13·8	86·0	25th	65·9	18th	20·1
	Karwar	44	29·935	—·021	29·914	29·979	13th	29·875	8th	·104	68·8	84·5	−1·5	66·5	−0·5	75·5	—1·0	18·0	86·8	21st	62·2	7th	24·6
26	Malegaon	1,420	28·547	—·023	29·972	28·633	7th	28·477	20th	·156	63·6	90·6?	+0·9?	54·0	—0·8	72·3?	+0·1?	36·6?	99·6	26th	43·3	8th	56·3
	Ahmadnagar	2,154	27·816	—·037	29·940	27·872	29th	27·767	16th	·105	65·1	87·4	—0·9	54·2	−0·9	70·8	—0·9	33·2	94·4	27th	47·5	17th	46·9
	Poona	1,846	28·135	−·022	29·975?	28·196	14th	28·082	16th & 21st.	·114	62·6	88·7	−2·2	55·2	—1·0	71·9	—1·6	33·5	95·8	20th	48·7	6th	47·1
	Sholapur	1,590	28·357	—·047	29·909	28·402	29th	28·299	21st	·103	70·1	91·9	—1·3	62·9	+0·7	77·4	—0·3	29·0	97·0	26th	57·4	18th	39·6
	Bijapur	*1,948*	28·003	—·037	29·898	28·038	13th	27·941	9th	·097	71·2	90·6	—0·4	65·1	+1·5	77·8	+0·5	25·5	96·7	22nd	57·9	6th	38·8
	Belgaum	2,562	27·421	—·028	29·915	27·465	13th & 29th.	27·363	9th	·102	68·8	87·2	—1·1	58·2	—1·2	72·7	—1·1	29·0	93·5	27th	50·3	6th	43·2
	XI.—Central India.																						
20	Neemuch	1,626	28·346	—·036	29·986	28·517	7th	28·200	20th	·317	60·2	79·3	—1·3	51·1	−0·5	65·2	—0·9	28·2	90·7	26th	39·8	7th	50·9
	Indore	1,823	28·142	—·033	29·968	28·280	7th	28·050	20th	·230	61·9	82·3	—0·5	51·9	0	67·1	−0·3	30·4	93·3	26th	36·1	8th	57·2
21	Nowgong	754	29·202	−·056	29·955	29·371	7th	29·051	21st	·320	56·6	78·7	—0·8	49·6	−1·2	64·2	—1·0	29·1	89·6	27th	37·0	9th	52·6
	Sutna	1,041	28·900	—·057	29·947	29·028	11th	28·735	21st	·293	58·7	77·1	—2·0	51·3	—0·8	64·2	—1·4	25·8	86·8	1st & 2nd	36·0	9th	50·8
	XII.—Central Provinces.																						
22	Buldana	2,134									66·6	83·5	—2·4	61·1	—0·8	72·3	—1·6	22·4	91·3	26th	47·5	8th	43·8
	Akola	925	29·040	—·032	29·943	29·108	11th	28·977	21st	·131	66·6	89·6	—0·9	57·8	+0·7	73·7	−0·1	31·8	98·2	26th	45·3	8th	52·9
	Amraoti	1,215	28·737	—·041	29·935	28·803	7th	28·665	21st	·138	66·7	88·6	—1·1	61·1	—0·6	74·8	—0·9	27·5	96·8	27th	50·3	8th	46·5
23	Khandwa	1,044	28·932	—·023	29·969	29·052	7th	28·843	20th	·209	62·0	87·1	—1·4	54·4	—1·2	70·7	—1·3	32·7	96·0	26th	35·1	8th	60·9
	Hoshangabad	1,006	28·980	—·024	29·981	29·131	7th	28·881	20th	·250	61·5	82·8	—2·3	54·2	—1·2	68·5	—1·7	28·6	92·1	27th	39·6	8th	52·5
	Saugor	1,807	28·140	—·052	29·954	28·269	11th	28·019	21st	·244	61·1	79·2	—1·3	55·2	0	67·2	—0·7	24·0	89·5	26th	41·4	7th	48·1
	Jubbulpore	1,327	28·617	−·046	29·951	28·743	7th	28·492	21st	·251	59·8	80·3	—1·4	53·2	+1·2	66·8	—0·1	27·1	89·9	27th	36·3	8th	53·6
	Seoni	2,033	27·928	—·029	29·953	28·017	7th	27·834	21st	·183	63·5	81·2	—2·4	54·3	—0·5	67·8	—1·5	26·9	91·7	27th	39·5	8th	52·2
	Nagpur	1,017	28·935	−·044	29·933	29·023	12th	28·851	21st	·172	66·3	87·5	—1·3	59·9	+0·3	73·7	—0·5	27·6	97·1	27th	47·8	8th	49·3
24	Pendra	2,040	27·904	—·036	29·946	28·006	12th	27·765	21st	·241	61·8	79·1	+0·9	55·1	+1·2	67·1	+1·1	24·0	89·8	27th	39·2	8th	50·6

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in February, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1915 to 29th Feb., 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																X.—Bombay.
3	1	12	5	0	2	2	1	3	N 47° E	N 30° E	6·3	6·3	0	42	+ 6	47	+ 6	·260	+·028	1·6	−0·3	0	0·4	−0·4	0	0·16	− 0·16	0	0·35	− 0·35	0	Deesa.
7	3	1	2	0	0	0	14	2	N 68° W	N 69° W	4·8	5·3	−0·5	49	+14	60	− 1	·363	−·018	1·2	−0·3	0	0·4	−0·4	0	0·16	− 0·16	0	0·28	− 0·28	0	Bhuj.
3	1	4	3	2	2	2	3	9	N 34° W		5·8			22		71	+ 8	·448	+·072?	2·1	+0·9	0	0·3	−0·3	0	0·15	− 0·15	0	0·25	− 0·25	0	Jamnagar.
0	6	10	1	0	0	1	4	7	N 5° W		1·0			60		65	− 5	·440	−·054	3·0	+1·0	0	0·7	−0·7	0	0·51	− 0·51	0·19	0·62	− 0·43	0	Dwarka.
6	0	2	2	3	1	2	5	8	N 69° W	N 2° W	6·1*	4·5	+1·6	25	− 6	57	+ 1	·334	−·003	2·9	+1·6	0	0·3	−0·3	0	0·12	− 0·13	0	0·22	− 0·22	0	Rajkot.
2	14	7	0	0	0	0	0	6	N 2° E	N 7° E	6·5	5·2	+1·3	82	+10	63	+ 6	·391	+·011	1·4	−0·1	0	0·1	−0·1	0	0·03	− 0·03	0	0·16	− 0·16	0	Veraval.
3	2	1	0	0	0	0	7	16	N 52° W	S 85° W	4·4	5·9	−1·5	78	+13	68	+16?	·421	+·094?	1·9	+0·4	0	0·3	−0·3	0·01	0·13	− 0·12	0·01	0·26	− 0·25	0·01	Bhavnagar Para.
15	6	4	1	1	1	0	0	1	N 27° E	N 27° W	2·0	3·7	−1·7	32	−11	59	− 3	·379	−·030	1·2	+0·2	0	0·2	−0·2	0	0·08	− 0·08	0	0·20	− 0·20	0	Surat.
3	1	7	1	1	0	5	0	11	N 26° W	N 11° E	4·3	2·9	+1·4	36	−22	41	− 4	·273	−·025	1·7	+0·1	0	0·3	−0·3	0	0·12	− 0·12	0	0·18	− 0·18	0	Ahmadabad.
0	10	10	7	1	0	0	0	1	N 38° E	N 47° E	7·5	7·6	−0·1	78	+ 7	71	0	·533	−·028	1·2	−0·1	0	0·1	−0·1	0	0·03	− 0·03	0	0·19	− 0·19	0	Bombay.
1	15	8	3	1	1	0	0	0	N 26° E	N 73° E	8·9	6·0	+2·9	74	+34	58	− 7	·477	−·043	0·8	−0·1	0	0·1	−0·1	0	0·02	− 0·02	0	0·23	− 0·23	0	Ratnagiri.
1	12	6	3	2	0	0	0	5	N 16° E	N 80° E	7·4	6·8	+0·6	67	+19	85	+ 3	·671	−·011	3·0	+1·9	0	0·1	−0·1	0	0·02	− 0·02	0	0·23	− 0·23	0	Marmagao.
23	5	1	0	0	0	0	0	0	N 7° E	N 55° E	2·0	3·0	−1·0	21	−62	89	+ 6	·628	+·024	1·5	+0·7	0	0	0	0	0·01	− 0·01	0	0·26	− 0·26	0	Karwar.
12	1	0	0	0	0	12	3	1	S 61° W	N 63° W	4·0	4·5	−0·5	46	−25	44	− 2	·265	−·020	1·4	+0·1	0	0·2	−0·2	0	0·06	− 0·06	0·01	0·42	− 0·41	0	Malegaon.
6	6	1	0	0	1	0	5	10	N 42° W	N 13° W	4·4	6·1	−1·7	60	+25	39	−11	·239	−·088	1·2	+0·2	0	0·3	−0·3	0	0·19	− 0·19	2·70	0·77	+ 1·93	0	Ahmadnagar.
0	0	0	0	0	0	28	1	0	S 47° W	N 76° W	6·2	5·2	+1·0	100	+84	66	+15?	·372	+·071?	0	−1·0	0	0·1	−0·1	0	0·03	− 0·05	0	0·30	− 0·30	0	Poona.
4	8	5	0	4	0	1	0	7	N 3° E	N 72° E	5·7	5·5	+0·2	46	+30	37	− 1	·269	−·023	1·7	+0·6	0	0·1	−0·1	0	0·03	− 0·03	0·38	0·62	− 0·24	0	Sholapur.
1	11	0	0	2	4	2	1	8	N 34° W	N 79° W	3·0	3·5	−0·5	42	+20	40	−13	·300	−·110?	0·6	−0·5	0	0·2	−0·2	0	0·04	− 0·04	0·04	0·35	− 0·31	0	Bijapur.
28	0	0	1	0	0	0	0	0	E	N 68° E	6·2	7·1	−0·9	3	−21	53	+ 5	·367	+·022	0·3	−1·0	0	0·1	−0·1	0	0·03	− 0·03	0·76	0·47	+ 0·29	0	Belgaum.
																																XI.—Central India.
1	5	0	12	0	0	1	10	0	N 17° E	N 30° E	6·8	5·1	+1·7	14	−17	41	− 6	·226	−·020	1·2	−0·6	0	0·4	−0·4	0·02	0·17	− 0·15	0·08	0·57	− 0·49	0·02	Neemuch.
8	4	5	3	2	0	0	5	2	N 11° E	N 29° W	3·8	2·0	+1·8	25	+13	46	− 3	·266	−·012	1·0	−0·7	2	0·5	+1·5	0·47	0·17	+ 0·30	1·02	0·56	+ 0·46	0·35	Indore.
9	1	1	2	1	5	2	7	1	S 50° W	N 85° W	2·0	1·5	+0·5	29	+10	62	− 3	·293	−·026	1·6	−1·2	1	1·1	−0·1	0·38	0·53	− 0·15	0·42	1·70	− 1·28	0·30	Nowgong.
5	1	1	2	4	1	5	10	0	S 55° W	N 30° W	3·0	3·5	−0·5	36	+ 1	58	− 1	·294	−·008	1·9	−0·7	2	1·7	+0·3	1·51	0·73	+ 0·78	1·53	2·11	− 0·58	1·16	Sutna.
																																XII.—Central Provinces.
2	0	1	2	4	0	0	9	11	N 61° W		2·5	4·7	−2·2	45		39		·258		1·9		1	0·5	+0·5	0·11	0·27	− 0·16	2·71	1·09	+ 1·62	0·11	Buldana.
6	0	2	2	1	1	3	7	7	N 76° W	S 34° E	3·7	3·1	+0·6	36	+28	37	− 6	·249	−·029	2·5	+0·8	1	0·4	+0·6	0·23	0·24	− 0·01	1·49	1·26	+ 0·23	0·19	Akola.
13	1	5	6	1	0	2	1	0	N 73° E	S 83° E	3·0	3·5	−0·5	29	− 3	41	− 5	·270	−·054	2·5	+1·0	1	0·6	+0·4	0·57	0·31	+ 0·26	1·02	1·23	− 0·21	0·51	Amraoti.
25	0	2	0	0	0	0	1	1	N 9° W	N 18° W	4·6	3·0	+1·6	7	−17	42	− 1	·248	−·002	0·8	−0·6	1	0·3	+0·7	0·19	0·10	+ 0·09	0·82	0·65	+ 0·17	0·19	Khandwa.
13	0	12	2	0	0	2	0	0	N 52° E	N 60° E	1·6	2·1	−0·5	39	− 1	52	− 3	·292	−·010	1·2	−0·6	3	0·9	+2·1	1·35	0·34	+ 1·01	1·47	1·12	+ 0·35	0·34	Hoshangabad.
2	1	4	3	6	1	3	8	1	S 16° W	S 72° E	4·4	2·7	+1·7	11	−20	41	− 6	·220	−·036	1·3	−0·5	3	1·1	+1·9	1·16	0·41	+ 0·75	1·16	1·54	− 0·38	0·87	Saugor.
3	2	2	2	9	3	3	4	1	S 2[illegible]	63° E	1·9	1·8	+0·1	29	+ 9	61	− 4	·319	−·014	2·8	+0·2	2	1·6	+0·4	0·92	0·69	+ 0·23	1·02	1·75	− 0·73	0·67	Jubbulpore.
9	3	5	0	1	1	1	1	3	N 2° E	N 31° E	3·3	2·1	+1·2	39	+ 3	50	− 7	·295	−·039	2·4	+0·3	3	1·9	+1·1	1·02	0·87	+ 0·15	1·20	1·92	− 0·72	0·60	Seoni.
2	8	3	5	3	0	0	1	7	N 14° E	N 18° E	3·6	3·2	+0·4	46	+10	50	0	·330	−·005	2·8	+0·7	3	1·2	+1·8	1·09	0·43	+ 0·66	1·25	1·33	− 0·08	0·34	Nagpur.
10	4	0	1	3	4	1	1	5	N 72° W		4·1			7		52	− 4	·291	−·011	2·2	0	3	3·4	−0·4	1·69	1·52	+ 0·17	1·69	2·75	− 1·06	0·90	Pendra.

* Mean of 27 days.

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	XII.—Central Provinces *—concld.*																						
	Raipur	970	28·971	−·056	29·923	29·067	12th	28·863	21st	·204	65·2	85·4	−1·1	60·0	−0·1	72·7	−0·6	25·4	94·7	27th	48·1	8th	46·6
	Chanda	*634*	29·322	−·048	29·921	29·393	12th	29·248	21st	·145	68·8	90·6	−0·3	50·2	+1·1	75·5	+0·4	30·6	98·9	27th	49·0	8th	49·9
	Jagdalpur	1,813	28·136		29·929	28·246	14th	28·023	21st	·223	64·8	87·9		56·8		72·3		31·1	91·2	29th	50·9	9th & 20th.	43·3
	XIII.—Hyderabad.																						
27	Aurangabad	1,905	28·065	−·043	29·937	28·119	14th	28·012	16th & 20th.	·107	68·6	87·3	−1·6	59·0	+0·9	73·2	−0·3	28·3	95·0	26th	51·0	8th	44·0
	Nizamabad	1,248	28·701		29·916	28·756	13th	28·650	20th	·106	71·8	91·8	+1·1	62·5	+1·5	77·2	+1·3	29·3	98·2	27th	55·7	18th	42·5
	Bidar	*2,165*									74·8	88·0	−0·4	64·7	+0·4	76·4	0	23·3	94·5	27th	57·4	8th	37·1
28	Gulbarga	1,503	28·452	−·035	29·914	28·496	14th	28·398	21st	·098	71·7	93·0	+0·5	63·7	−0·2	78·4	+0·1	29·3	99·0	29th	58·3	17th & 18th.	40·7
	Raichur	*1,311*	28·640	−·019	29·900	28·712	13th	28·591	19th	·121	77·9*	97·2*	+2·8*	71·7*	+1·9*	84·5*	+2·3*	25·5	99·1	27th & 29th.	65·2	1st	33·9
	Hyderabad (Deccan)	1,738	28·212	−·039	29·903	28·277	13th	28·167	21st	·110	71·4	89·9	−0·3	65·8	+1·5	77·8	+0·7	24·1	97·3	29th	62·6	8th	35·2
	Hanamkonda	877	29·081	−·034	29·917	29·161	12th	29·012	21st	·149	73·8	91·1	+1·0	67·2	+1·1	79·1	+1·1	23·9	98·2	29th	60·5	8th	37·7
	XIV.—Mysore.																						
29	Chitaldrug	2,405	27·571	−·023	29·887	27·611	13th	27·513	8th	·098	73·4	89·8	+0·3	66·7	+1·0	78·3	+0·7	23·1	94·9	28th	60·8	6th	34·1
	Hassan	3,149	26·868	−·022	29·910	26·915	13th	26·811	8th	·104	67·6	85·8	−0·9	59·3	+1·4	72·6	+0·3	26·5	91·2	26th	52·2	3rd	39·0
	Bangalore	3,021	26·590	−·029	29·908	27·031	13th	26·938	8th	·093	68·4	87·2	+1·2	61·2	+1·2	74·2	+1·2	26·0	92·5	24th	54·5	2nd	38·0
	Mysore	2,518	27·468	−·033	29·900	27·516	13th	27·425	8th	·091	71·3	88·3	−0·7	64·1	+0·6	76·2	−0·1	24·2	93·0	23rd & 24th.	57·5	3rd	35·5
	XV.—Madras.																						
30	Mangalore	72	29·908	−·025	29·911	29·952	12th	29·865	8th	·087	73·0	87·1	−1·4	71·8	+0·3	79·5	−0·5	15·3	89·7	4th	67·1	7th	22·6
	Calicut	27	29·938	−·027	29·894	29·987	12th	29·853	8th	·094	77·1	86·8	−1·6	72·9	+0·1	79·9	−0·7	13·9	89·2	19th	69·1	3rd	20·1
	Cochin	9	29·952	−·029	29·888	29·997	12th	29·907	2nd	·090	77·6	89·5	−0·7	74·4	+0·4	82·0	−0·1	15·1	91·8	18th	69·7	3rd & 4th	22·1
	Trivandrum	198	29·762	−·013	29·832	29·798	12th	29·708	8th	·090	76·5	88·0	+2·7?	73·3	−0·7	80·6	+1·0?	14·7	90·0	21st & 22nd.	68·0	2nd	22·0
31	Pamban	37	29·935	−·034	29·899	29·985	13th	29·882	8th	·103	78·0	85·8	+1·1	75·4	+0·8	80·6	+0·9	10·4	88·0	27th	72·5	1st	15·5
	Madura	447	29·526	−·037	29·910	29·587	13th	29·452	8th	·135	76·5	91·6†	−0·2†	68·9§	+0·2§	79·5§	0	22·7	96·1	23rd	66·9	4th	30·1
	Pudukkottai	318	29·667	−·013?	29·932	29·717	13th	29·595	8th	·122	74·7	91·9	+0·4	68·7	−0·4	80·3	0	23·2	98·3	23rd	63·4	2nd	34·9
	Negapatam	31	29·956	−·022	29·915	30·010	13th	29·897	8th	·113	76·9	86·6‡	+1·0‡	72·1	−0·6	80·3‡	+0·2	14·5	88·8	29th	66·1	2nd	22·7
	Trichinopoly	255	29·732	−·029	29·924	29·794	12th	29·673	22nd	·121	76·5	92·5	+0·2	68·4	−0·4	80·4	−0·1	24·1	99·1	29th	61·6	5th	37·5
	Coimbatore	1,341	28·646	−·018	29·935	28·708	12th & 13th.	28·592	8th	·116	72·9	91·7	0	66·4	+0·5	79·0	+0·3	25·3	97·5	24th	58·4	4th	39·1
	Salem	913	29·072	−·019	29·930	29·128	13th	29·011	8th	·117	75·2	93·7	+0·1	67·1	+0·9	80·4	+0·5	26·6	99·7	23rd	59·8	5th	39·9
	Cuddalore	37	29·914	−·035	29·912	30·003	13th	29·888	8th	·115	73·9	85·3	−0·4	68·7	−1·2	77·0	−0·8	16·6	88·6	29th*	63·4	5th	25·2
	Vellore	707	29·280	−·032	29·940	29·344	12th	29·229	22nd	·115	71·0	90·9	+1·9	64·6	−2·1	77·7	−0·1	26·3	99·1	23rd & 29th.	57·0	2nd, 3rd & 5th.	42·1
	Madras	22	29·959	−·042	29·918	30·027	13th	29·902	22nd	·125	76·2	87·8	+1·0	69·2	+0·7	78·5	+0·9	18·6	94·6	29th	62·7	5th	31·9
32	Cuddapah	438	29·523	−·050	29·893	29·631	13th	29·462	22nd	·139	77·8	95·8	+0·8	71·3?	+2·0?	83·5?	+1·4?	24·5?	102·1	28th	66·0	2nd	36·1

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 6 days.

† Mean of 18 days.
‡ " " 20 "
§ " " 10 "

B.—*continued.*

stations in India, etc., in February, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1915 to 29th Feby. 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																XII.—Central Provinces—*concld.*
3	4	2	1	1	0	3	7	8	N 55° W	N 4° W	2·7	2·9	−0·2	49	+27	61	+ 6	·381	+·023	1·8	−0·3	1	1·3	−0·3	0·92	0·65	+0·27	0·92	1·12	−0·20	0·84	Raipur.
13	2	1	1	4	1	1	2	4	N 45° W	N 76° E	4·0	2·0	+2·0	4	−16	54	− 4	·387	−·014	2·2	+0·7	1	0·9	+0·1	0·22	0·51	−0·29	0·22	1·02	−0·80	0·15	Chanda.
4	8	1	1	5	7	0	1	2	S 81° E		2·6			10		77		·476		1·4		0			0·04			0·04			0·04	Jagdalpur.
																																XIII.—Hyderabad.
8	2	3	5	6	2	1	1	1	S 76° E		5·9			32		38	0	·270	−·012	1·9	+0·9	0	0·3	−0·3	0	0·15	−0·15	1·18	0·73	+0·45	0	Aurangabad.
8	2	2	1	3	2	2	4	5	N 72° W		2·4			14		44	−11	·342	−·098	1·8	+0·5	0	0·7	−0·7	0·05	0·15	−0·10	0·15	0·68	−0·51	0·05	Nizamabad.
5	3	3	4	2	1	5	1	4	N 5° E†		4·2			8		43	−15	·372	−·106	1·7	+0·7	1	0·6	+0·4	0·53	0·25	+0·28	0·55	0·76	−0·21	0·53	Bidar.
7	5	7	1	2	3	4	0	0	N 58° E	N 89° E	3·8	5·6	−1·8	21	− 5	48	− 2	·369	−·035	0·4	−0·5	0	0·5	−0·5	0·02	0·15	−0·13	0·06	0·49	−0·43	0·02	Gulbarga.
0	2	5	3	8	1	5	1	4	S 68° E	S 23° E	6·1	5·1	+1·0	48	−13	42‖		·404‖		1·4	+0·2	0	0·4	−0·4	0	0·25	−0·25	0	0·48	−0·48	0	Raichur.
8	0	7	0	3	2	2	3	4	N 6° W	S 68° E	3·2	3·0	+0·2	8	− 1	65	0	·493	+·020?	2·2	+0·4	0	0·7	−0·7	0	0·24	−0·24	0	0·64	−0·64	0	Hyderabad (Deccan).
3	2	0	0	11	11	0	0	2	S 23° E		3·6			56		60	− 7	·499	−·026	2·4	−0·3	0	0·5	−0·5	0·03	0·20	−0·17	0·04	0·87	−0·83	0·03	Hanamkonda.
																																XIV.—Mysore.
10	1	0	0	3	2	4	6	3	S 67° W	S 6° E	3·4	4·6	−1·2	36	+20	52	− 1	·424	−·014	1·6	+0·1	0	0·2	−0·2	0	0·06	−0·06	0·29	0·63	−0·34	0	Chitaldrug.
14	0	0	4	5	1	0	2	3	S 56° E	S 72° E	3·1	2·0	+1·1	10	−41	71	+ 2	·483	0	2·9	+0·1	0	0·3	−0·3	0	0·13	−0·13	0·19	1·01	−0·91	0	Hassan.
2	0	0	5	11	5	2	4	0	S 28° E	S 62° E	5·4	3·7	+1·7	56	+ 1	70	− 1	·480	−·004	1·3	−0·6	0	0·2	−0·2	0	0·18	−0·18	0·29	0·94	−0·65	0	Bangalore.
10	0	2	2	4	1	5	3	2	S 22° W	S 89° E	3·9	5·8	−1·9	21	− 1	69	0	·523	+·004	1·6	−1·5	0	0·5	−0·5	0	0·15	−0·15	0·36	0·74	−0·38	0	Mysore.
																																XV.—Madras.
1	3	9	15	1	0	0	0	0	N 69° E	N 76° E	5·3	2·1	+3·2	85	+18	72	0	·693	+·011	2·2	+0·1	0	0·1	−0·1	0	0·02	−0·02	0·02	0·58	−0·56	0	Mangalore.
15	1	3	7	2	9	0	0	1	N 77° E	N 69° E	5·0	7·2	−2·2	36	−31	82	+ 3	·760	+·018	2·3	+0·4	0	0·2	−0·2	0	0·16	−0·16	0·27	1·68	−1·41	0	Calicut.
0	0	4	22	3	0	0	0	0	N 89° E	N 41° E	5·6	4·0	+1·6	95	+24	75	0	·712	−·022	0·9	−0·9	1	1·2	−0·2	0·50	0·75	−0·25	1·14	3·00	−1·86	0·50	Cochin.
6	4	12	4	1	0	0	0	2	N 42° E	N 55° E	3·7	3·4	+0·3	60	+13	77	0	·704	−·009	3·6	+1·1	0	1·2	−1·2	0·01	0·61	−0·60	2·23	3·47	−1·24	0·01	Trivandrum.
14	1	10	4	0	0	0	0	0	N 54° E	N 56° E	4·3	6·6	−2·3	49	−26	83	+ 3	·798	−·003	2·9	−0·2	0	1·3	−1·3	0	0·98	−0·98	7·92	10·50	−2·58	0	Pamban.
0	10	7	3	0	1	0	1	7	N 6° E	N 14° E	3·9	3·3	+0·6	67	+ 4	73*	− 3	·665*	−·039	5·1	+2·2?	0	0·8	−0·8	0·09	0·45	−0·36	1·55	2·74	−1·19	0·09	Madura.
8	8	8	0	0	0	1	1	3	N 8° E		3·3			52		79	− 2	·679	−·031	3·4	−1·3	0	1·2	−1·2	0	0·66	−0·66	4·38	2·94	+1·44	0	Pudukkottai.
0	0	7	3	1	0	2	4	12	N 25° W	N 18° E	7·9	4·7	+3·2	42	+ 2	81	+ 3	·746	−·012	4·7	+0·3	1	0·8	+0·2	0·10	0·72	−0·62	11·0	13·76	−2·73	0·10	Negapatam.
3	9	5	0	1	2	2	1	6	N 11° W	N 27° E	2·5	2·8	−0·3	46	+10	76	− 2	·691	−·009	2·4	−0·2	1	0·7	+0·3	0·14	0·68	−0·54	3·01	3·95	−0·94	0·14	Trichinopoly.
12	4	12	0	0	0	1	0	0	N 33° E	N 63° E	2·0	2·1	−0·1	53	−10	75	− 7	·612	−·047	2·6	−1·5	0	0·7	−0·7	0	0·37	−0·37	0·67	2·12	−1·45	0	Coimbatore.
18	0	3	6	0	0	0	2	0	N 71° E	N 53° E	4·0	3·9	+0·1	25	−30	83	+ 8?	·722	+·061	1·4	−0·8	0	0·7	−0·7	0	0·32	−0·32	0·42	1·76	−1·34	0	Salem.
12	1	0	0	0	0	3	7	6	N 77° W	N 60° W	2·7	1·6	+1·1	46	− 5	85	− 2	·711	−·061	2·1	−0·7	2	1·4	+0·6	0·85	1·06	−0·21	3·59	9·50	−5·91	0·17	Cuddalore.
27	1	0	0	0	0	0	0	1	N 24° W		2·7			7		82	0	·622	−·024	2·4	0	0	0·8	−0·8	0	0·46	−0·46	0·87	5·60	−4·73	0	Vellore.
2	0	2	1	0	3	11	7	3	S 63° W	S 34° W	3·6	3·7	−0·1	53	+37	83	0	·748	−·004	1·0	−1·8	0	0·6	−0·6	0	0·33	−0·33	0·47	7·48	−7·01	0	Madras.
1	1	1	8	16	1	0	0	1	S 63° E	S 72° E				74	+11	64	− 3	·622	0	0·8	−0·4	0	0·3	−0·3	0	0·14	−0·14	0·12	1·54	−1·42	0	Cuddapah.

* Mean of 28 days.

† Wind observations for 28 days.

‖ Mean of 6 days.

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Hill stations, excluding Kashmir and Baluchistan —concld.																						
	Simla	7,232	23·032	−·037	22·994	23·128	12th & 13th.	22·919	5th	·209	39·5	48·4	+0·2	35·7	+0·4	41·0	+0·3	10·7	53·1	13th	25·0	7th	28·1
	Sanain		23·092	−·033	23·054	23·178	12th	23·023	5th	·155	31·5	45·8	+1·2	26·1	+1·0	36·9	+1·1	17·7	54·8	29th	20·0	8th	34·8
	Kalabagh																						
	Chakrata	7,072	23·250	P	23·310	23·469	13th	23·278	5th	·191													
	Mukteswar	7,592	22·790	−·036	22·750	22·892	14th	22·718	8th & 22nd.	·174	40·5	51·5	+1·6	36·2	+1·0	43·8	+1·3	15·3	59·5	3rd	28·8	11th	30·7
	Darjiling	7,432	22·872	−·066	22·828	23·037	13th	22·737	27th	·300	40·3	51·3	+2·9	37·4	+1·9	44·3	+2·4	13·9	57·9	8th	32·3	11th	25·6
	Shillong	4,920	25·100	−·065	25·052	25·254	13th	24·967	27th	·287	50·2	63·7	+1·6	43·1	+1·6	53·4	+1·6	20·6	71·0	29th	31·7	9th	39·3
	Cherrapunji	4,309	25·665	−·070	25·616	25·801	13th	25·554	8th	·247	54·3	63·0	+2·1	48·0	+0·8	55·5	+1·5	15·0	68·3	17th	42·1	19th	26·2
	Maymyo	3,546	26·432	−·053	26·377	26·566	13th	26·344	22nd	·222	53·3	74·4	−0·6	44·6	+1·7	59·6	+0·5	29·8	79·2	29th	38·6	26th	40·6
	Pachmarhi	3,528	26·468	−·059	26·415	26·539	29th	26·390	21st	·149	58·3	74·3	−0·9	51·3	+0·5	62·8	−0·2	23·0	82·5	26th	38·6	8th	43·9
	Mount Abu	3,945	26·056	−·048	26·003	26·177	29th	25·958	5th	·219	56·0	64·7	−3·0	49·8	−3·3	57·3	−3·1	14·9	74·4	26th	32·4	6th	42·0
	Mercara	3,781	26·299	−·027	26·192	26·301	29th	26·201	8th	·100	67·1	81·1	−0·1	57·5	−1·4	69·3	−0·7	23·6	88·0	24th	52·2	4th & 7th	35·8
	Ootacamund	7,297	23·074	−·016	23·010	23·132	28th	23·014	8th	·118	55·0	67·1	+0·4	48·1	−1·2	55·1	−0·4	24·0	71·5	18th	34·2	4th	37·3
	Kodaikanal	7,688	22·846	−·023	22·781	22·902	28th	22·789	8th	·113	53·6	66·5	+1·0	42·6	−0·4	57·1	+0·3	18·9	72·8	2nd & 24th	41·6	4th	31·2
	Extra India.																						
	Singapore (a)	10	29·840	−·110	29·771	29·923	14th	29·782	11th	·141	83·3	89·7	+1·8	78·7	+0·3	81·2	+1·1	17·0	93·5	24th	69·0	12th & 13th.	24·5
	Penang (a)	17	29·846	−·079	29·788	29·931	14th	29·770	7th	·161	80·9	89·7	−0·1	71·5	−2·3	80·6	−1·2	18·2	94·0	16th & 17th	66·0	1st	28·0
	Trincomalee	68	29·860	−·030	29·838	29·837	29th	29·825	2nd	·072	74·4	89·3	+3·9	73·0	−1·7	81·1	+1·1	16·3	93·5	28th	68·5	28th	25·0
	Colombo	24	29·927	−·032	29·875	29·971	6th	29·876	2nd	·095	72·0	87·5	−1·1	70·1	−2·9	78·8	−2·0	17·4	89·5	18th	64·1	6th	25·4
	Hambantota	64	29·891		29·852	29·926	11th	29·839	3rd	·087	72·0	85·5		71·2		78·4		14·3	89·3	27th	67·7	2nd	21·6
	Minicoy	7	30·023	+·044		30·055	13th	29·957	8th	·098													
	Amini Divi	13	29·962	−·032	29·903	30·013	29th	29·905	8th	·108	80·7	88·4	+2·0	76·3	+0·1	82·3	+1·2	12·1	91·3	28th	70·3	9th	21·0
	Gyantse†	13,120	18·391		18·352	18·560	29th	18·302	3rd	·258	27·3	47·6							60·8	7th			
	Pharijong	14,400																					
	Gangtok	5,667	24·418	−·065	24·373	24·540	13th	24·298	28th	·242	47·2	61·1	+2·0	41·7	+6·3	51·4	+4·4	19·4	66·3	7th	36·2	18th	30·1
	Gartok*	15,100																					
	Kashgar	4,255	25·538*	−·152		25·760	29th	25·228	22nd	·532	25·3	42·4	−0·2	22·3	+3·5	32·3	+1·7	20·1	58·3	24th	15·3	11th & 26th	42·5
	Kabul		P	P	P	P		P		P	29·9	54·8	+7·1	26·1	+5·7	40·5	+6·4	28·7	62·8	29th	18·4	7th	44·4
	Meshed	3,104	26·027		29·262	26·199	4th	25·821	17th	·378	27·0	44·8	−2·0	23·0	−5·2	33·9	−3·6	21·8	59·4	21st	9·5	2nd	49·9
	Jask	13	30·063	+·042	30·029	30·340	5th	29·915	20th	·425	62·2	74·4	−0·4	59·0	−3·0	66·7	−1·7	15·4	81·5	23rd	46·5	5th	35·0
	Muscat	20	30·073	+·009	30·042	30·331	5th	29·940	23rd	·391	65·0	73·7	−0·2	62·6	−4·9	68·1	−2·5	11·1	83·3	23rd	56·9	5th	26·4
	Bahrein	18																					
	Bushire	14	30·078	+·033	30·051	30·376	5th	29·895	29th	·481	53·6	63·0	−2·5	49·5	−2·4	56·3	−2·9	13·5	74·9	29th	42·2	2nd	32·7
	Busrah	25	30·039	−·100	30·035	30·248	13th	29·831	9th	·417	52·1	67·0	+1·6	44·8	−4·2	55·9	−1·3	22·2	76·3	22nd	31·1	1st	45·2
	Kerman																						
	Ispahan*	*5,817*																					
	Tehran*	*4,002*																					
	Baghdad	127																					
	Aden	84	29·931	−·025	29·959	30·042	6th	29·825	24th	·217	74·4	78·9	−2·1	72·0	−1·3	75·4	−1·7	6·9	84·4	25th	67·3	9th	17·1
	Zanzibar	72	29·987	−·032	29·885	29·954	5th	29·806	8th	·148	82·0	86·8	−0·1	79·0	−0·9	82·9	−0·5	7·8	91·1	23rd	72·0	4th	19·1

N.B.—Elevations in italics indicate barometrical determinations

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.

* Aneroid.

† Mean of 26 days.

B—*concluded.*

tations in India, etc., in February, 1916—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 29th Feb. 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Hill stations, excluding Kashmir and Baluchistan—*concld.*
																58*	+ 2	·137*	+ ·009	3·7	—0·8	8	5·8	+2·2	2·91	3·31	−0·40	4·24	7·19	— 2·95	0·56	Simla.
																84†		·177†		4·9	0	10	9·0	+1·0	13·32	9·67	+4·25	15·41	17·09	— 1·68	3·16	Sarain.
																																Kalabagh.
																				2·9	—0·9	6	5·8	+0·2	2·28	4·59	—2·31	3·16	10·17	— 7·01	0·69	Chakrata.
1	1	3	8	5	1	0	8	2	E		6·7			14		63‡	+ 4	·146‡	+ ·005	4·2	+0·2	4	4·8	—0·8	1·03	2·54	—1·51	1·64	5·75	— 4·11	0·26	Mukteswar.
26	0	1	0	0	0	0	1	1	N 38° W	S 53° E	1·4	4·0	—2·6	4	—16	83	0	·207	+ ·004	3·7	—0·6	2	2·4	—0·4	1·57	0·99	+0·58	1·98	1·85	+ 0·13	1·31	Darjiling.
15	0	0	0	1	3	9	1	0	S 33° W		3·1			42		62	— 6	·223	—·016	2·1	—0·6	2	2·9	—0·9	0·39	1·35	—0·96	0·39	1·80	—1·41	0·22	Shillong.
6	0	4	3	0	1	7	7	1	S 70° W		5·3			25		61	— 4	·269	—·009	2·9	—0·2	3	3·1	—0·1	1·15	2·69	—1·54	1·37	3·31	— 1·04	0·72	Cherrapunji.
25	0	0	0	0	0	4	0	0	S 45° W		1·2			14		87	+ 1	·353	—·001	0·5	—1·0	0	0·7	—0·7	0	0·16	—0·16	2·31	0·69	+ 1·65	0	Maymyo.
10	1	3	2	1	1	3	2	6	N 45° W	S 23° W	4·2	3·2	+1·0	14	— 2	52	+ 2	·254	—·022	1·4	—0·7	1	1·3	—0·3	1·60	0·55	+1·04	2·10	1·74	+ 0·36	1·45	Pachmarhi.
4	0	7	0	1	0	11	2	4	S 84° W	N 45° W	5·4	4·5	+0·9	14	—14	37§	— 2	·172§	—·017	1·8	—0·3	0	0·7	—0·7	0	0·34	—0·34	0	0·79	— 0·79	0	Mount Abu.
19	0	5	5	0	0	0	0	0	N 68° E	N 60° E	2·2	3·1	—0·9	32	—10	66	— 7	·436	—·021	2·3	—1·2	0	0·5	—0·5	0	0·19	—0·19	0·32	1·21	— 0·89	0	Mercara.
12	0	0	5	9	2	0	0	1	S 54° E		2·1			49		63	+12	·267	+ ·043	2·0	0	0	1·1	—1·1	0·11	0·71	—0·60	1·69	5·06	— 3·37	0·09	Ootacamund.
0	7	11	3	6	0	0	1	1	N 50° E		8·3			60		57	+ 1	·232	—·007	1·6	—0·7	0	2·4	—2·4	0·06	1·74	—1·68	5·38	9·05	— 3·67	0·04	Kodaikanal.
																																Extra India.
8	1	14	4	1	0	0	0	1	N 52° E					56						5·0	+0·4	2	9·9	—7·9	0·44	7·60	—7·16	16·12	29·25	—13·13	0·22	Singapore.
0	5	5	5	3	0	0	7	4	N 5° E					32						7·4	+6·4	3	6·3	—3·3	4·09	5·50	—1·41	9·06	16·87	— 7·81	1·53	Penang.
0	1	3	6	1	0	9	9	0	S 59° W	N 7° E	5·1	5·0	+0·1	29	+ 8	84	— 1	·719	—·098	4·5	+1·5	0	2·5	—2·5	0·13	2·12	—1·99	9·21	21·85	—12·64	0·06	Trincomalee.
18	1	10	0	0	0	0	0	0	N 41° E	N 58° E	3·5	4·7	—1·2	36	—17	89	+10	·698	—·092	9·7	+6·9‖	0	3·7	—3·7	0·07	2·28	—2·21	1·90	11·22	— 9·32	0·06	Colombo.
0	18	10	0	0	0	0	0	1	N 14° E		10·0	6·1	+3·9	95		87		·682		2·1		1			0·26	1·50	—1·24	9·15	10·04	— 0·89	0·26	Hambantota.
0	14	12	1	0	0	0	0	2	N 18° E	N 20° E	3·0	3·8	—0·8	99	+24					4·5	+1·5	1	1·3	—0·3	0·52	0·48	—0·16	3·61	5·64	— 2·03	0·49	Minicoy.
1	18	7	0	0	0	0	0	3	N 7° E		6·3			86		73	0	·766	—·036	3·3	—0·5	1	0·2	+0·8	0·20	0·07	+0·13	0·65	1·51	— 0·86	0·20	Amini Divi.
3	0	0	1	21	0	0	0	0	S 47° E‖		8·4**			84		81¶		·181¶		0		0			0·07			0·09††			0·07	Gyantse.
																																Pharijong.
25	0	2	0	0	0	0	2	0	N 45° W		0·8			4		83	+ 4	·269	+ ·011	0·7	—2·5	4	5·2	—1·2	1·78	2·54	—0·76	4·53	4·43	+ 0·10	0·76	Ganztok.
																																Gartok.
24	0	3	0	0	0	0	0	2	N 18° E	N 29° W	0·9	1·1	—0·2	10	0					6·6	+2·2	0	0·3	—0·3	0·09	0·07	+0·02	0·09	0·36	— 0·27	0·03	Kashgar.
0	0	2	2	2	2	7	13	1	S 67° W	S 51° E				52	+43	92‡‡		·188‡‡		3·7	+0·2	1	3·6	—2·6	1·11	1·57	—0·46	2·37	3·44	— 1·07	1·11	Kabul.
28	0	0	0	0	1	0	0	0	S		1·1			3		91§§		·189§§		4·9	+0·4	3	2·0	+1·0	1·08	0·95	+0·13	2·77	2·49	+ 0·28	0·38	Meshed.
0	4	14	3	0	0	1	0	7	N 22° E	N 10° E	8·1	8·9	—0·8	70	+ 2	64	—12	·364	—·090	1·0	—1·4	2	1·8	+0·2	0·26	0·86	—0·60	2·85	2·92	— 0·06	0·13	Jask.
13	0	0	0	0	0	2	5	9	N 68° W	S 82° W	1·1	3·4	—2·3	49	+ 8	62	— 7	·386	—·119	2·7	+0·4	5	1·6	+3·4	1·17	0·78	+0·39	5·29	2·48	+ 2·81	0.59	Muscat.
																							1·7			0·59			1·77			Bahrein.
18	3	2	1	0	0	0	0	5	N 8° W	N 48° E	5·3	5·8	—0·5	29	—18	78	— 4	·322	—·044	3·4	—0·2	1	3·8	—2·8	1·05	2·06	—1·01	5·10	7·99	— 2·89	1·05	Bushire.
10	2	0	2	2	0	7	2	3	S 72° W ‖‖		3·9			25		78		·303				3	2·5	+0·5	1·96	1·05	+0·91	5·64	3·04	+ 2·60	1·37	Basrah.
																																Kermanshah.
										S 82° W		3·4											1·3			0·40			1·86			Ispahan.
										N 22° E		2·6											3·0			1·04			4·01			Tehran.
										N 8° E		3·2											2·4			1·37			3·58			Baghdad.
4	4	20	1	0	0	0	0	0	N 40° E	N 81° E	11·3	11·2	+0·1	82	+ 3	72	— 5	·615	—·062	6·8	+0·9	0	0·5	—0·5	0·10	0·23	—0·13	0·10	0·74	— 0·64	0·03	Aden.
4	9	9	0	3	1	2	1	0	N 29° E	N 27° E	5·0	4·9	+0·1	45	—27	80	+ 1	·866	—·002	7·1	+0·6	7	3·7	+3·3	3·50	2·11	+1·09	5·74	11·32	— 5·58	1·29	Zanzibar.

* Mean of 24 days.
† " " 12 "
‡ " " 22 "
§ " " 28 "
‖ Wind observations for 25 days.
¶ Mean of 4 days.
** " " 23 "
†† Rainfall for December 1915 wanting.
‡‡ Mean of 8 days.
§§ " " 7 "
‖‖ Wind observations for 28 days.

Table C.—Abstract of observations taken at 8 hrs. at 56 fourth and fifth class stations in India, etc., in February, 1916.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry-bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	58·8	76·3	+1·7	54·9	+6·6	65·6	+4·1	21·4	83·7	17th	44·7	10th	39·0	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	59·2	77·8	+0·7	52·7	+4·8	65·0	+2·7	24·6	83·4	17th	42·8	10th	40·6	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	57·7	85·7	+4·7	50·5	−1·1	68·1	+1·8	35·2	92·6	19th	40·0	9th	52·6	...	...	...	...	...	...	...	...	...	...	...
	Doom-Dooma	54·8	74·4	+9·6	51·2	+1·5	62·8	+5·5	23·2	81·9	17th	43·7	1st	38·2	...	...	...	...	...	...	...	...	...	...	...
	Dikom	57·5	73·9	+1·1	52·8	+2·5	63·3	+1·8	21·1	81·8	7th	44·6	10th	37·2	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	57·8	73·9	−0·1	52·1	...	63·0	...	21·8	82·9	8th	45·2	9th	37·7	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	60·8	82·0	+2·5	53·5	+1·3	67·7	+1·9	28·5	87·0	28th	45·0	10th	42·0	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	58·2	75·0	+1·0	54·0	+1·7	64·5	+1·3	21·0	81·3	7th	47·2	10th	34·1	...	...	...	...	...	...	...	...	...	...	...
	Lumding	58·4	79·6	...	49·9	...	64·7	...	29·7	85·9	28th	40·4	10th	45·5	...	...	...	...	...	...	...	...	...	...	...
	Messa	60·0	82·4	+ 2·6	50·3	+2·4	66·3	+2·5	32·1	86·6	7th	44·8	11th	41·8	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	52·8	77·6	+2·5	50·1	+1·8	63·9	+2·1	27·5	81·9	16th	39·8	9th	42·1	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	66·1	87·1	+3·9	56·8	+1·2	70·6	+2·5	27·6	88·6	29th	46·1	10th	42·5	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	63·2	84·1	+4·0	53·3	+1·2	68·7	+2·6	30·8	91·1	6th & 28th,	42·1	9th & 10th,	49·0	...	...	...	...	...	...	...	...	...	...	...
	Pabna	64·0	83·9	+1·3	57·3	+4·4	70·6	+2·9	26·6	90·4	7th	46·7	8th	43·7	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur-Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam-Dim	55·0	88·7	+7·8	48·5	+2·8	68·6	+5·2	40·2	90·4	5th & 12th,	41·0	12th	49·4	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	63·9	78·2	+2·0	47·8	−1·0	63·0	+0·5	30·4	81·1	15th & 16th	40·5	9th	40·6	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	66·2	78·0	+1·5	53·4	−0·4	65·7	+0·5	24·6	82·1	7th & 8th.	45·0	9th	37·1	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C[illegible]

and fifth class stations in India, etc., in February, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Decr. 1915 to 29th Feby. 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					II.—Assam.
...	...	...	...	...	91	− 3	·456	+ ·044	...	...	6	3·3	+2·7	1·73	0·99	+ 0·74	3·58	2·35	+1·23	0·56	Bishnath.
...	...	...	...	...	83	− 6	·420	+ ·014	...	...	4	1·5	+2·5	1·53	0·63	+ 0·90	2·59	1·48	+1·11	0·48	Borjuli.
...	...	...	...	...	95	+ 2	·459	+ ·004	...	...	1	2·2	−1·2	0·21	1·17	− 0·96	0·63	3·03	−2·40	0·21	Chandkhira.
...	...	...	...	...	90	− 4	·387	−·026	...	...	8	6·0	+2·0	1·72	2·36	− 0·64	2·92	4·45	−1·53	0·37	Doom Dooma.
...	...	...	...	...	92	− 2	·426	+·026	...	...	5	5·2	−0·2	1·28	1·92	− 0·64	3·26	3·95	−0·69	0·34	Dikom.
...	...	...	...	...	95	+ 2	·451	+·017	...	...	5	3·5	+1·5	1·55	1·03	+ 0·52	3·44	2·49	+0·95	0·64	Golaghat.
...	...	...	...	...	84	− 6	·418	+·020	...	...	0	2·8	−2·8	0·09	1·09	− 1·00	0·90	3·74	−2·84	0·09	Hailakandi.
...	...	...	...	...	93	− 1	·450	+·016	...	...	4	3·5	+0·5	2·46	0·96	+ 1·50	4·18	2·23	+1·95	1·19	Jorehat.
...	...	...	...	...	90	...	·439	...	...	...	2	2·4	−0·4	0·78	0·88	− 0·10	2·11	1·43	+0·68	0·35	Lumding.
...	...	...	...	...	73	− 9	·375	−·054	...	...	2	2·5	−0·5	0·76	0·68	+ 0·08	2·54	1·57	+0·97	0·44	Messa.
...	...	...	...	...	93	+ 4	·390	+·041	...	...	3	1·8	+1·2	0·67	0·80	− 0·13	1·86	1·47	+0·39	0·25	Panerihat.
																					III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	1	1·9	−0·9	2·41	0·98	+ 1·43	2·41	1·52	+0·89	2·41	Comilla.
...	...	...	...	...	71	−11	·460	−·024	...	...	1	2·2	−1·2	1·25	0·76	+ 0·49	1·25	1·63	−0·38	1·25	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	1	2·0	−1·0	2·60	1·18	+ 1·42	2·60	1·81	+0·79	2·52	Faridpur.
...	...	...	...	...	74	− 7	·432	−·010	...	...	1	2·2	−1·2	1·90	0·88	+ 1·02	1·90	1·54	+0·36	1·90	Goalundo.
...	...	...	...	...	74	0	·444	+·009	...	...	1	1·8	−0·8	3·50	0·95	+ 2·55	3·50	1·70	+1·80	3·47	Pabna.
...	...	...	...	...	...	...	...	...	...	...	1	1·4	−0·4	0·61	0·76	− 0·15	0·61	1·26	−0·65	0·61	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	1·5	−1·5	0·02	0·61	− 0·59	0·02	1·04	−1·02	0·02	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	1	1·6	−0·6	0·15	0·95	− 0·80	0·15	1·67	−1·52	0·15	Malda.
...	...	...	...	...	...	...	...	...	...	...	1	1·2	−0·2	3·85	0·57	+ 3·28	3·85	1·05	+2·80	3·83	Rangpur.
...	...	...	...	...	87	− 6	·379	+·010	...	...	1	2·2	−1·2	0·42	1·06	− 0·64	0·70	1·57	−0·87	0·42	Dam Dim.
...	...	...	...	...	70	− 7	·426	+·011	...	...	3	2·7	+0·3	0·89	0·91	− 0·02	1·87	1·72	+0·15	0·50	Kalchini.
...	...	...	...	...	63	−12	·404	+·034	...	...	2	3·2	−1·2	0·52	1·25	− 0·73	0·92	2·37	−1·45	0·42	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	1	1·8	−0·8	0·82	0·64	+ 0·18	0·82	0·87	−0·05	0·74	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	1	1·5	−0·5	0·35	1·15	− 0·80	0·35	1·78	−1·43	0·28	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	1·8	−1·8	0·05	1·00	− 0·95	0·05	1·59	−1·54	0·05	Bankura.
...	...	...	...	...	...	...	...	...	...	...	1	1·6	−0·6	0·25	0·91	− 0·66	0·25	1·56	−1·31	0·22	Raniganj (Asansol).
																					IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	3	2·3	+0·7	0·87	1·07	−0·20	0·87	2·06	−1·19	0·41	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	2	1·7	+0·3	0·35	0·77	−0·42	0·36	1·41	−1·05	0·25	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	2	1·6	+0·4	0·87	0·48	+0·39	0·87	1·18	−0·31	0·71	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	1	1·1	−0·1	0·77	0·47	+0·30	0·79	1·20	−0·41	0·76	Motihari.
...	...	...	...	...	...	...	...	...	...	...	3	1·5	+1·5	1·80	0·58	+1·22	1·83	1·39	+0·44	1·30	Chapra.
...	...	...	...	...	...	...	...	...	...	...	2	1·4	+0·6	0·65	0·71	−0·06	0·68	1·62	−0·94	0·34	Arrah.
...	...	...	...	...	...	...	...	...	...	...	2	1·7	+0·3	0·58	0·76	−0·18	0·61	1·62	−1·01	0·30	Dehri.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry-bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	60·3	82·1	...	53·6	...	67·2	...	28·5	91·0	27th	36·7	8th	54·3	18	2	3	2	0	1	0	0	3	N 22° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	75·1	94·0	...	66·5	...	80·2	...	27·5	99·1	28th	59·1	3rd	40·0	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	75·1	90·0	...	69·4	...	79·7	...	20·6	89·7	29th	63·3	2nd	36·4	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
12	Jammu	55·2	68·5	...	50·5	...	59·5	...	18·0	77·6	25th	36·8	8th	40·8	0	5	21	1	0	1	1	0	0	N 40° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	16·3	31·9	...	2·9	...	17·4	...	29·0	44·5	1st	−13·4	29th	57·9	0	1	0	6	20	1	0	0	1	S 56° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	61·5	76·4	+1·3	55·4	+1·9	65·9	+1·6	21·0	81·3	17th	44·0	8th	37·3	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	55·2	60·1	1·7	46·5	+0·8	53·2	+1·3	13·6	64·3	8th	42·9	9th & 18th	21·4	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	44·5	+4·0	27·6	+4·2	36·0	+4·1	16·9	52·4	3rd	19·2	11th	33·2	7	2	1	8	2	0	2	1	6	N 37° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	51·0	−4·3	26·3	−1·3	38·6	−2·8	24·7	64·3	25th	14·2	5th	50·1	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

nd fifth class stations in India, etc., in February, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Decr. 1915 to 29th Feby. 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	4	1·7	+ 2·3	1·12	0·93	+ 0·19	1·16	2·59	— 1·43	0·46	Meerut.
...	...	...	...	...	...	...	...	...	...	...	2	3·7	— 1·7	1·25	2·33	— 1·08	2·07	5·47	— 3·40	0·78	Dehra Dun.
																					IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	0·5	— 0·5	0	0·18	— 0·18	0·07	0·35	— 0·28	0	Udaipur.
																					XII.—Central Provinces.
3·6	...	...	21	...	57	...	·301	...	2·3	...	3	...	...	0·59	...	...	1·22	...	...	0·25	Chhindwara.
																					XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	1	0·2	+ 0·8	0·14	0·06	+ 0·08	2·66	0·35	+ 2·31	0·14	Parbhani.
																					XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	0	1·6	— 1·6	0·06	0·98	— 0·92	3·26	5·66	— 2·40	0·04	Tinnevelly.
...	...	...	...	...	72	...	·633	...	1·3	...	0	0·2	— 0·2	0	0·07	— 0·07	0	0·27	— 0·27	0	Anantapur.
...	...	...	...	...	83	...	·725	...	...	...	0	0·4	— 0·4	0	0·29	— 0·29	0?	1·13	— 1·13	0	Guntur.
																					Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	2·5	...	...	1·36	...	...	12·07	...	...	Car Nicobar.
																					Kashmir.
...	...	...	79	...	60	...	·264	...	2·3	...	3	3·8	— 0·8	2·06	2·97	— 0·91	2·26	7·18	— 4·92	1·50	Jammu.
...	...	...	...	...	...	...	...	...	...	...	14	9·9	+ 4·1	14·32	9·48	+ 4·84	23·97	26·85	— 2·88	2·68	Sonamarg.
...	...	...	79	...	...	...	...	...	6·5	...	5	2·7	+ 2·3	1·02	0·98	+ 0·04	1·62	2·88	— 1·26	0·28	Kargil.
																					Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	3·5	— 2·5	0·61	1·64	— 1·03	1·50	3·41	— 1·91	0·44	Harnai.
																					Hill stations, exclusive of Kashmir.
...	...	...	...	...	64	0	·348	+ ·003	...	...	1	1·8	— 0·8	0·48	0·77	— 0·29	0·77	1·56	— 0·79	0·48	Panighatta.
...	...	...	...	...	97	+25	·421	+ ·170	...	...	2	3·2	— 1·2	1·05	1·23	— 0·18	1·48	2·34	— 0·86	0·93	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	8	...	...	16·80	...	...	26·31	...	...	6·60	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	7	...	...	2·31	...	...	3·27	...	...	0·60	Lachung.
...	...	...	...	...	...	...	...	...	...	...	15	...	...	8·23	...	...	11·93*	...	...	1·16	Ringim.
...	...	...	...	...	...	...	...	...	...	...	5	4·5	+ 0·5	2·54	3·01	— 0·47	3·96	6·74	— 2·75	1·04	Mussoorie.
...	...	...	17	...	...	...	...	...	6·4	+1·4	4	5·5	— 1·5	1·04	2·31	— 1·27	1·65	5·09	— 3·44	0·44	Poo.
...	...	...	...	...	...	...	...	...	...	...	...	5·9	...	...	2·86	...	...	6·67	...	...	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	2·9	...	4	3·8	+ 0·2	1·81	1·79	+ 0·02	4·75	4·62	+ 0·13	0·62	Pishin.

* Rainfall since 1st January 1916.

Table

Abstract of observations taken at 8 hrs. at 56 fourth and

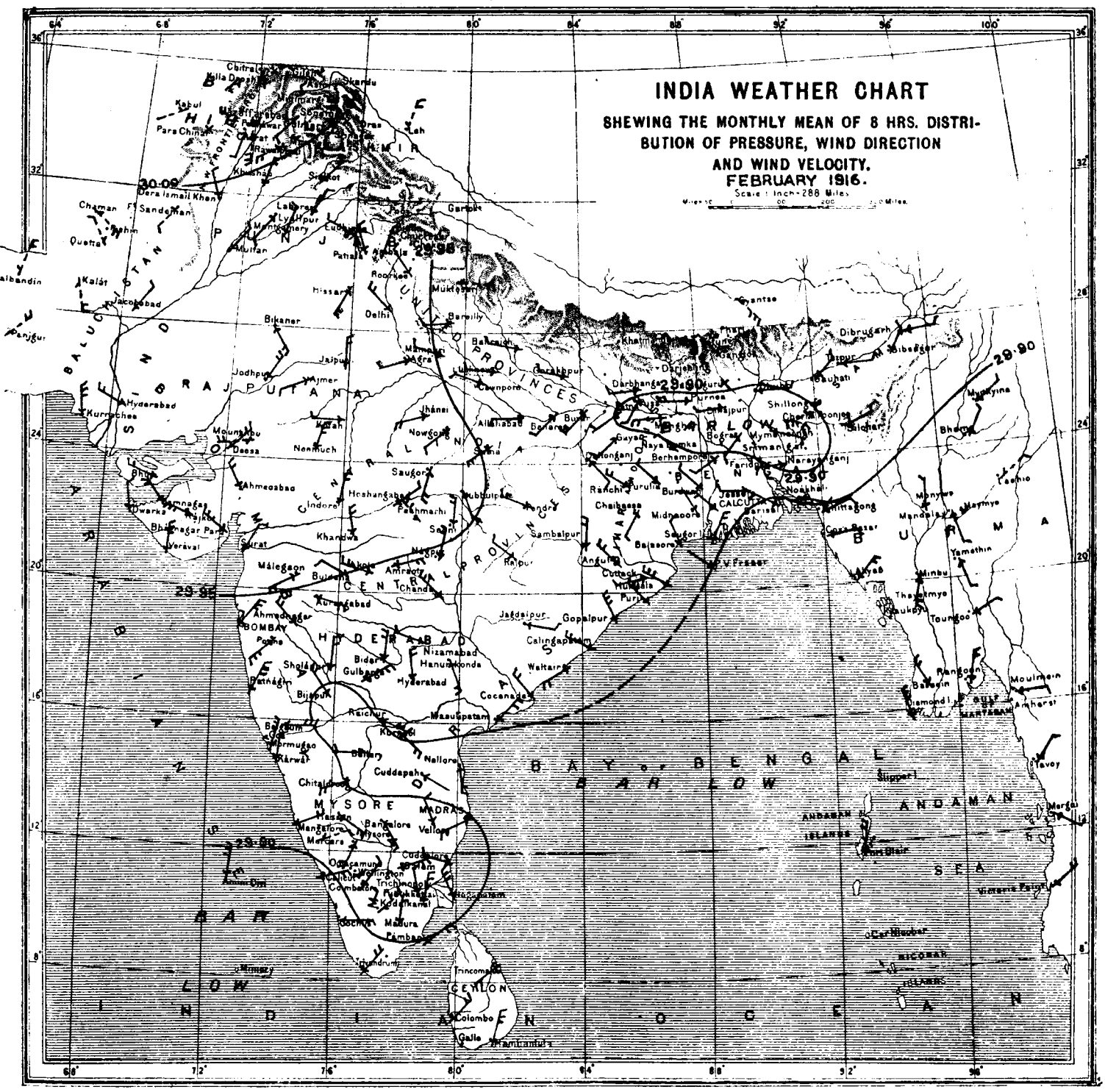
Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry-bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi	25·0	27·3	...	19·4	...	23·4	...	7·9	37·0	20th	15·0	7th, 16th & 27th	22·0	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Prison Island . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

fifth class stations in India, etc., in February, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1915 to 29th Feb. 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					Extra India.
...	...	...	...	...	...	...	...	...	...	...	2	...	...	2·49	...	...	2·54	...	...	2·30	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	5	3·0	+2·0	3·40	1·76	+1·64	6·70	12·05	−5·35	1·58	Pemba.
...	...	...	...	...	...	...	...	...	...	...	...	1·9	...	...	1·46	...	...	9·66	...	...	Prison Island.

CALCUTTA
SUPERINTENDENT, GOVERNMENT PRINTING, INDIA
8 HASTINGS STREET

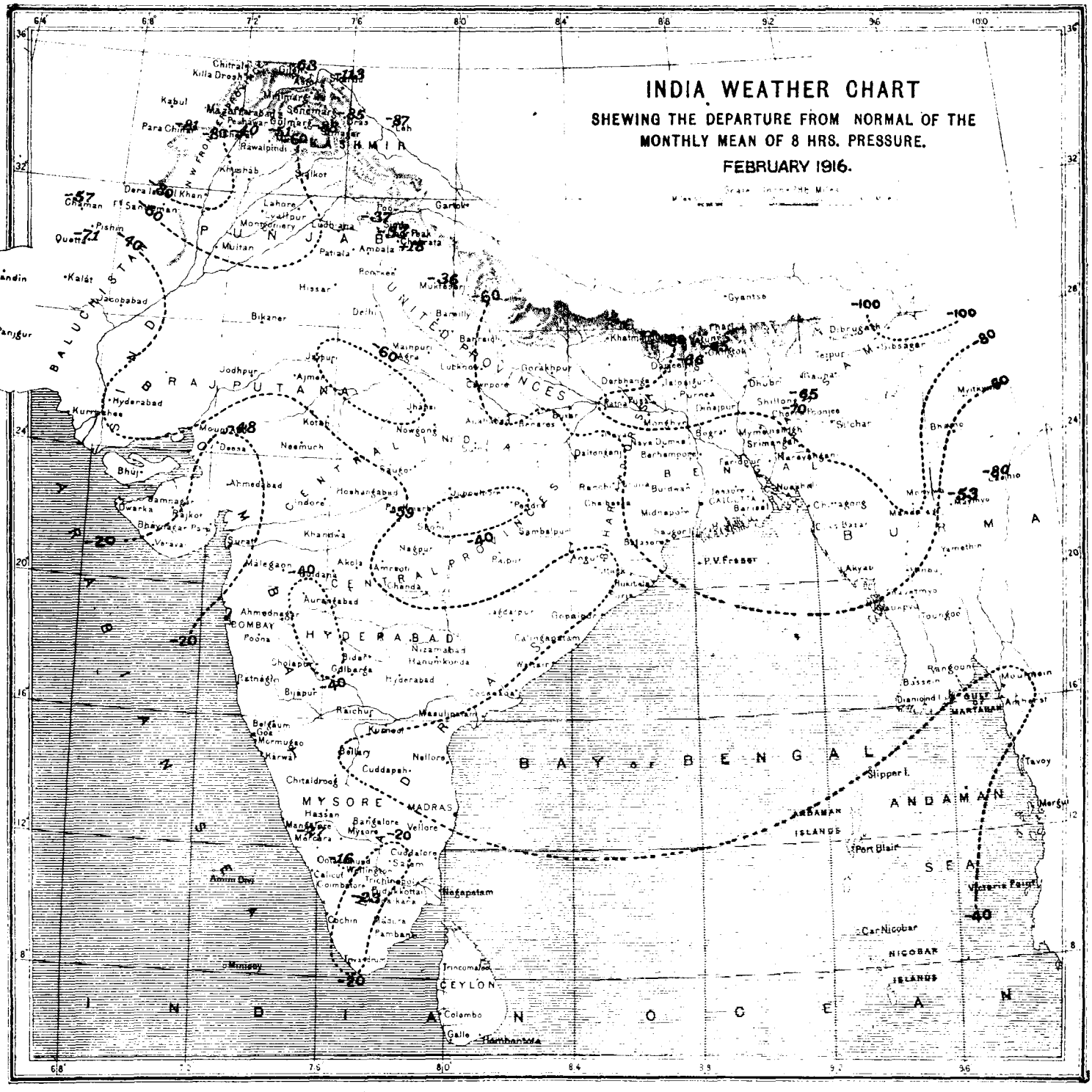


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	..	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	..	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020′ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

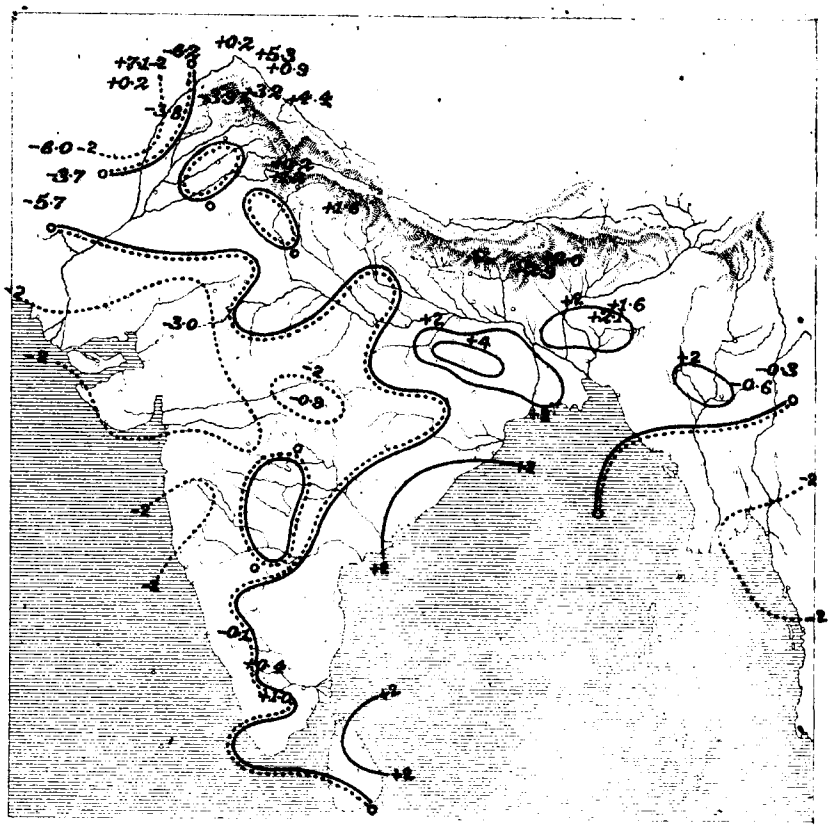


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

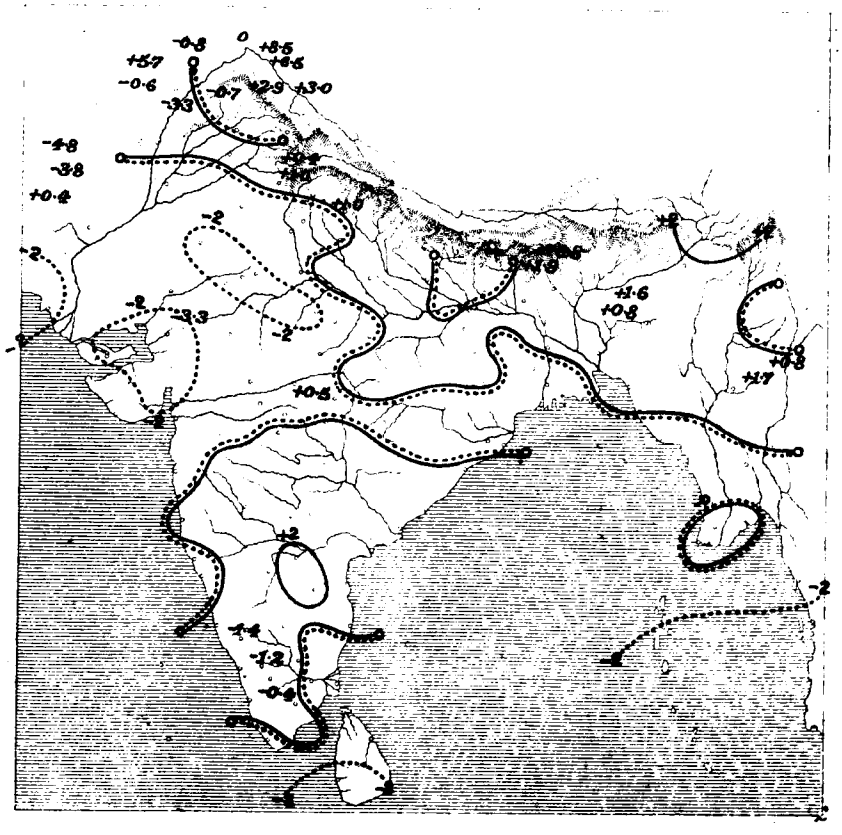


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

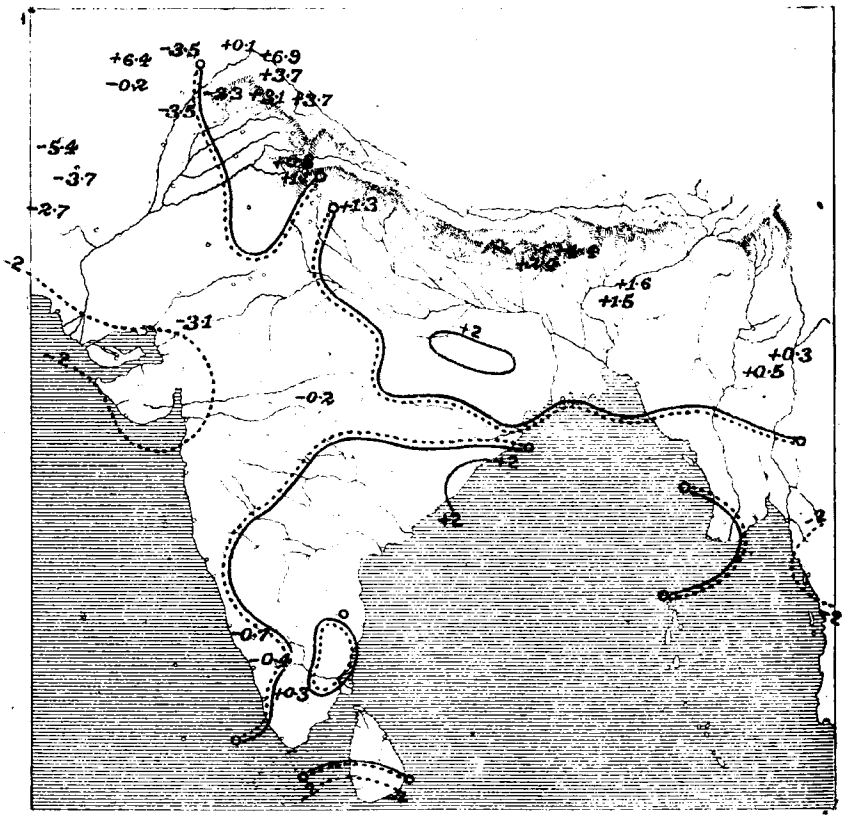


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

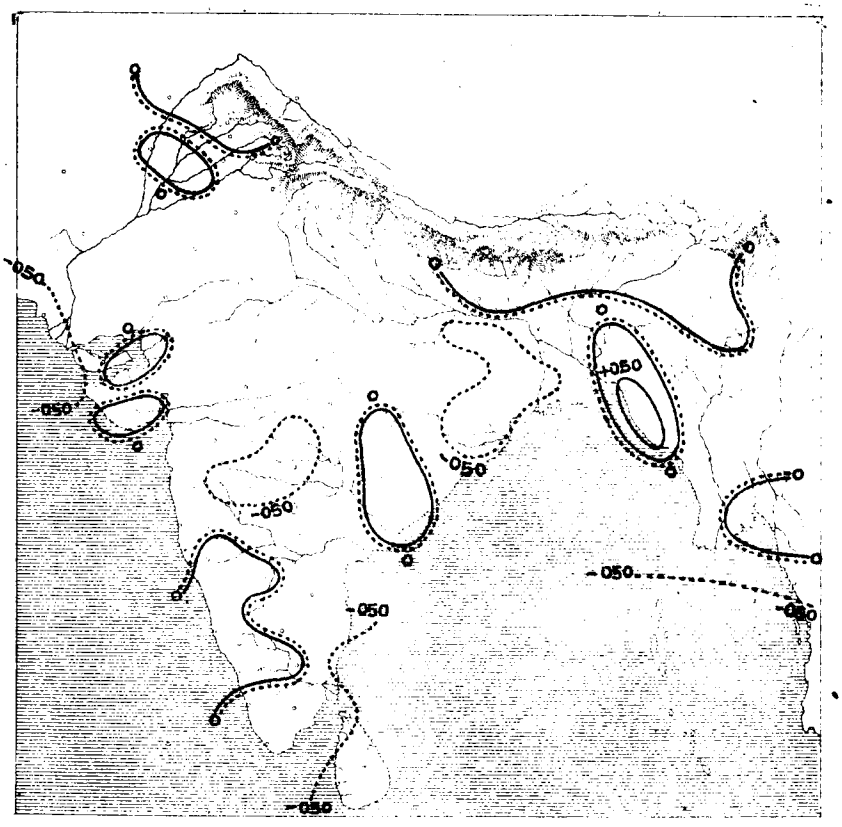


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

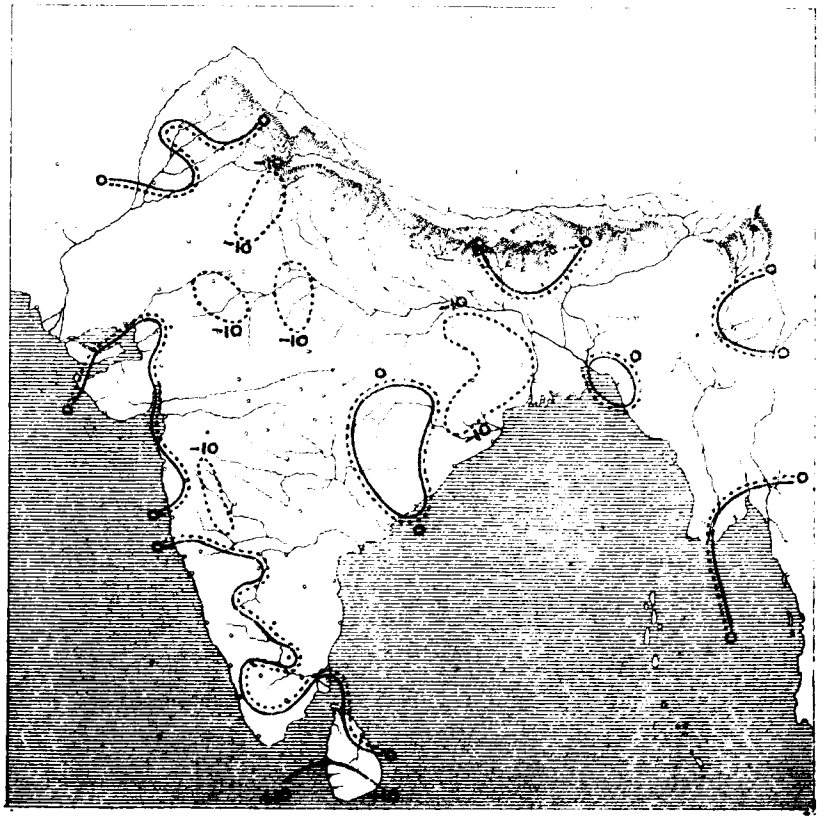


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

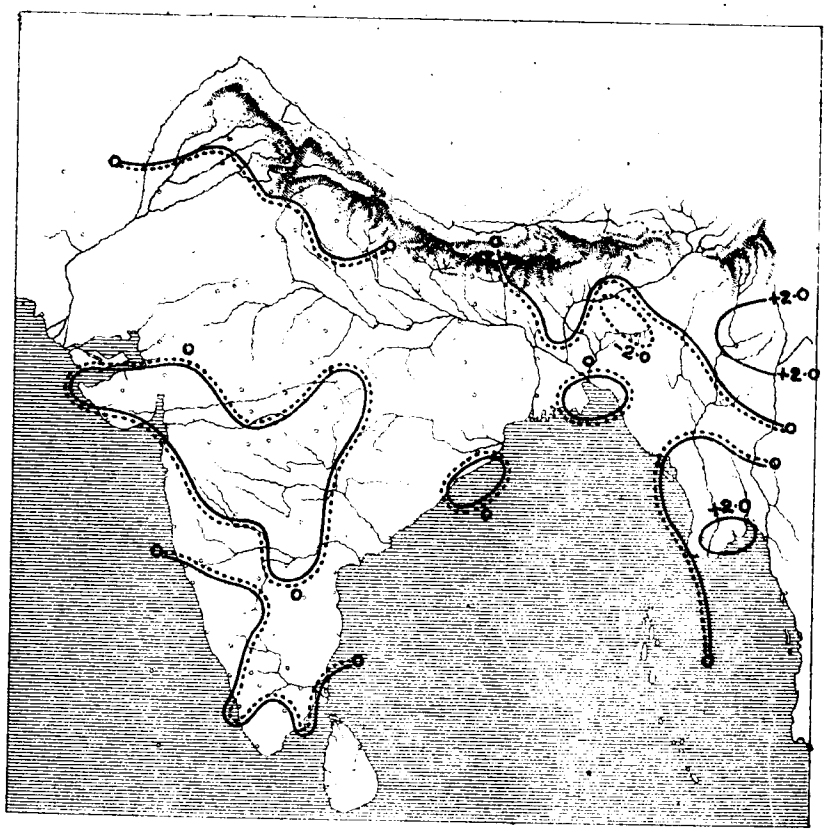
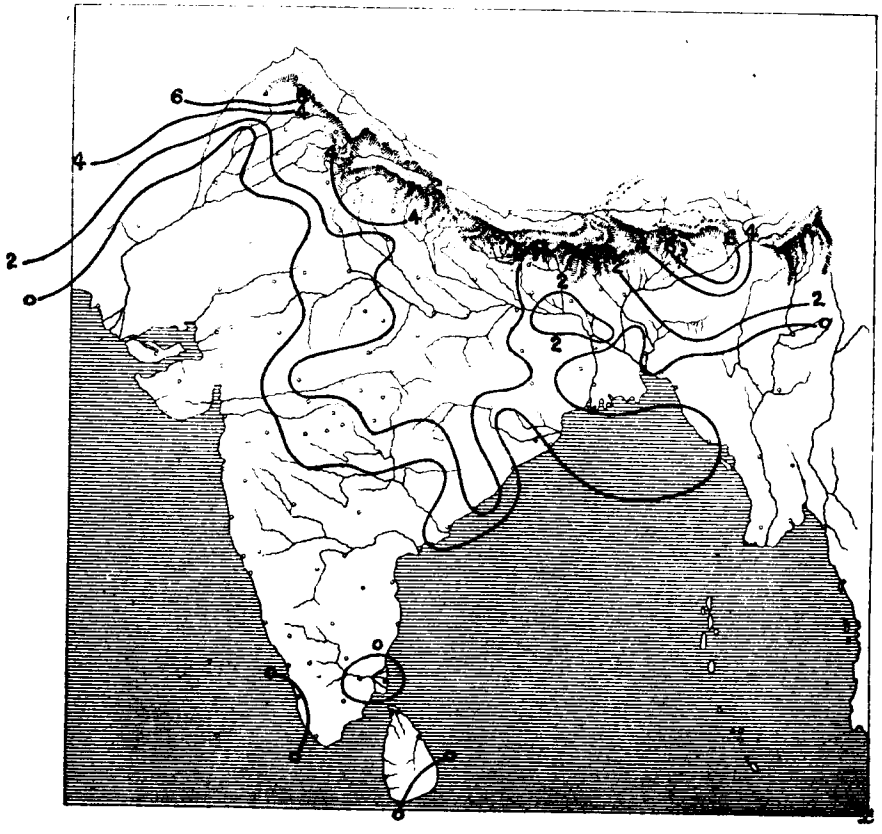


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)



The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, MARCH, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of March, 1916, is based on observations taken daily at 8 hrs. at 213 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. Several disturbances of the cold weather type were transmitted from Persia into north-west India, but only one of these was important from the point of precipitation. This occurred about the middle of the month and, in conjunction with the abnormally high temperatures prevailing for some time previously, gave rise to widespread precipitation in north-east Baluchistan, the North-West Frontier Province, the Punjab and Kashmir. Rainfall, due to ordinary actions, was of daily occurrence in Assam from the 26th onwards, and a few thundershowers were recorded in Burma and the extreme south of the Peninsula; but on the whole the weather over the Indian region was drier even than usual in March.

The departures of the other climatic elements were in general such as are associated with the prevalence of unusually dry weather. Thus humidity was decidedly low over the tract from Bihar and Orissa to the valley of the Indus, as well as in the Bombay Deccan and Hyderabad; while the proportion of cloud was normal or below it over the whole country with the exception of Burma, Berar, Gujarat, Khandesh and deltaic Sind.

Temperature was more or less above the average over most of northern India, and nearly normal in Burma and the greater part of the Peninsula. The excess amounted to 5° in the Punjab and the North-West Frontier Province, 4° in Chota Nagpur, Kashmir, Baluchistan and Rajputana and 3° in Sind, Gujarat, the United Provinces and Central India.

Barometric pressure in the plains of India as a whole was in defect by ·019″.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculæ on all the days of the month, but prominences could not be observed on the 11th.

Sun spots.—Twenty-five groups of spots were observed, as against twenty-six in February. The daily average number was 3·9 and the average life of a spot 5·1 days.

The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North . . .	2	9	1	2	18°·1	10° & 37°
South . .	...	6	4	1	21°·0	11° & 33°

Prominences.—One hundred and nine large, seven eruptive and four metallic prominences were recorded during the month. A large arch covering about 36° of the south-western limb of the sun and attaining to a height of 400″ was observed on the 12th at 8h. 36m., I. S. T.; this was the highest recorded for the month.

Magnetic disturbances.—There was one "very great" disturbance from the 8th to 12th and a "great" disturbance from the 29th to 31st. "Moderate" disturbances were recorded on the 7th from the 17th to 18th and from the 24th to 26th. Two moderate sized spots, one north of and the other south of the equator, crossed the central meridian on the 8th.

T. ROYDS,
for *Director*,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2343$m. *Subsoil* Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	17·9	1	2·4
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Mar. 4th	e P	7 48 36	...	...	...	...	...	Widening of line.
	F	8 39 48	...	...	...	...	...	
„ 26th	e P	0 08 00	...	...	...	...	...	Widening of line.
	F	0 46 24	...	...	...	...	...	
„ 26th	P	...	...	...	...	...	...	
	i L	2 19 24	...	...	...	...	...	
	M	2 20 30	...	...	50	...	...	
	F	2 28 12	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of March 1916 the traces showed 10 calm days, 17 days of small, 3 days of moderate and 1 day of great disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 2nd, 13th 16th, 23rd and 27th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	C	9	M	17	S	25	S
2	C	10	M	18	S	26	S
3	S	11	S	19	S	27	C
4	S	12	S	20	S	28	S
5	C	13	C	21	S	29	M
6	S	14	C	22	C	30	S
7	S	15	C	23	C	31	S
8	G	16	C	24	S		

C = calm; S = small; M = moderate; G = great; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follow :—

Easterly declination	0° 37′ 57″
Horizontal force	0·36858 C. G. S. unit.
Vertical force	0·16762 C. G. S. unit.
Inclination	24° 27′·3.
Horizontal force range	0·00063 C. G. S. unit.
Horizontal force summed range	0·00387 C. G. S. unit.
Declination range	3′·2.
Declination summed range	11′·4.

(NOTE.—Summed range means sum without regard to signs of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m. *Subsoil* Trap.

Apparatus.—*Milne's Horizontal Pendulum Seismograph.*

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9	21	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Mar. 11th		11 13 to 17m.	...	...	...	...	...	Thickening of line.
„ 23rd		14 17 00	...	...	...	...	...	„
„ 24th		11 46 00	...	...	...	...	...	„

One disturbance at about 0 h. on 26th is marked tremors.
Its commencement as shown by the Tromograph is at 0 h. 1·2 m.
Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·29."

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5. CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32'$ N; $\lambda = 88° 20'$ E; $h =$ *Subsoil.*

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	34	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
		E. W. Instrument.						
March 19th	P *	22 11 9 *	...	...	...	...	...	
		N. S. Instrument.						* Boom touched the stop.
	P	22 11 8	4	...	...	...	...	
	S	22 15 6	6	...	...	...	...	
	F	22 40 2	...	...	...	...	...	
„ 25th		E. W. Instrument.						
	P	23 48 6	...	...	...	...	...	
	S	23 59 4	...	...	...	...	...	
„ 26th	F	0 22 7	...	...	...	...	...	
		N. S. Instrument.						
„ 25th	P	23 48 8	...	...	...	...	...	
	S	23 59 4	...	...	...	...	...	
„ 26th	F	0 28 8	...	...	...	...	...	

6. SIMLA OBSERVATORY.

The Simla seismograph notes will appear in a future number of the Review.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.
		h. m.	sec.		
Shillong	March 4th	15 46	1	5	1

Solar radiation.—Observations not recorded owing to absence of officers on war service.

G. C. SIMPSON,
Imperial Meteorologist, Simla.

Weather in the Indian Ocean.

7. Barometric pressure inclined to be low at Mauritius and high at the equatorial stations. Winds were weaker than usual in Mauritius and Zanzibar, and at the latter station and Seychelles their direction was rather unusual. Rainfall was short of the normal at all the representative stations.

TABLE 7.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·009	+·008	+·011
Actual mean wind direction . .	S 18° E	S 8° E	N 4° W
Normal mean wind direction . .	S 78° E	S 27° E	N 17° W
Actual mean wind velocity (miles per diem).	103	79	85
Normal mean wind velocity (miles per diem).	183	94	86
Rainfall departure from normal . .	—2·14	—3·72	—2·29

Depressions and cyclonic storms.

8. Altogether five disturbances of the cold weather type affected the weather in north-west India; the first from the 2nd to the 5th, the second on the 6th and 7th, the third from the 14th to the 19th, the fourth from the 23rd to the 25th and the fifth on the 27th and 28th. They were all transmitted from Persia, and there is evidence that the third and the fourth were connected with depressions in the east of the Mediterranean. All of them were ill defined, being of the nature of waves of low pressure rather than definite depressions. The third however gave rise to widespread precipitation in north-east Baluchistan, the North-West Frontier Province, Kashmir and the Punjab, while the rest produced only a few scattered falls in the extreme north.

According to the available information the weather was very dry in south Persia and unusually disturbed in the north of Persia where Tehran recorded about 9″ of rain, as compared with 2″, the normal for the month. This, taken in conjunction with the fact that the precipitation accompanying the disturbances occurred wholly in the extreme north would suggest that the paths followed by them lay further north than usual.

It is worthy of record that dust and thunderstorms began earlier and were more numerous than usual in north-west India, where temperature was unusually high during the greater part of the month owing probably to the extreme dryness of January and February.

Pressure.

9. Atmospheric pressure on the mean of the month was below normal almost everywhere in the plains; the defect was small in amount in the Peninsula and Lower Burma, where temperature differed to no great extent from the average, and was well marked (between ·020″ and ·060″) in northern India and Upper Burma, over most of which area there was an appreciable excess of temperature.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·013
Assam	—·034
Bengal	—·032
Bihar and Orissa	—·028
United Provinces	—·035
Punjab	—·032
North-West Frontier Province	—·051
Sind	—·017
Rajputana	—·025
Bombay	—·011
Central India	—·015
Central Provinces	—·009
Hyderabad	0
Mysore	—·001
Madras	—·005

The vertical gradients were weaker than usual in northern India.

TABLE 9.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	″		″	″
Quetta	+·007	Jacobabad	—·017	—·024
Leh	+·081	Lahore	—·034	—·115
Murree	+·033	Peshawar	—·043	—·076
Simla	+·037	Ludhiana	—·026	—·063
Mukteswar	+·008	Bareilly	—·039	—·047
Darjiling	+·007	Dhubri	—·035	—·042
Mount Abu	+·013	Deesa	—·004	—·017
Pachmarhi	—·006	Khandwa	—·010	—·004
Kodaikanal	0	Madura	—·010	—·010

Temperature.

10. Mean maximum temperature of the month exceeded the normal over the whole area extending eastwards from the northwest frontier to Upper Burma, the excess being most marked in the Punjab and the North-West Frontier Province, where it averaged 6° in amount; over the rest of the country the departures from normal of maximum temperature were small and irregular. Minimum temperature exhibited a similar distribution, but the excess in northern India was less pronounced.

No hot or cool waves occurred during the month; but temperature was persistently high in north-west India between the 2nd and the 18th, and over the rest of northern India from the 12th to the 20th.

TABLE 10.

Sub-division.	Actual temperature.					Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
1. Bay Islands	90·6	75·9	83·3	14·7	22·3	0	—0·5	+0·5
2. Lower Burma	90·4	71·4	80·9	19·0	30·0	—0·5	—0·7	+0·2
3. Upper Burma	93·7	64·5	79·1	29·2	44·5	+1·8	+0·9	+0·9
4. Assam	86·7	62·8	74·7	23·9	41·0	+3·0	+1·8	+1·2
5. Bengal	92·3	67·9	80·1	24·5	45·6	+3·1	+1·3	+1·8
6. Orissa	94·7	69·0	81·9	25·7	44·4	+1·4	—0·7	+2·1
7. Chota Nagpur	96·3	65·4	80·9	30·9	50·5	+5·4	+2·1	+3·3
8. Bihar	93·8	63·7	78·7	30·0	49·1	+4·2	+0·7	+3·5
9. United Provinces, East	93·7	63·1	78·4	30·6	52·6	+3·1	+2·2	+0·9
10. Do., West	93·8	62·1	77·9	31·7	50·5	+3·7	+2·3	+1·4
11. Punjab, East and North	89·3	59·1	74·2	30·2	49·5	+6·1	+3·5	+2·6
12. Do., South-west	90·0	59·0	74·5	31·0	48·0	+6·3	+4·1	+2·2
13. Kashmir	54·0	31·1	42·6	22·9	49·1	+5·0	+3·1	+1·9
14. North-West Frontier Province	84·9	56·1	70·5	28·7	46·0	+6·3	+2·7	+3·6
15. Baluchistan	75·7	47·5	61·6	28·2	46·3	+5·0	+2·5	+2·5
16. Sind	92·1	65·7	78·9	26·5	42·5	+3·8	+2·3	+1·5
17. Rajputana, West	96·0	66·1	81·1	29·9	47·8	+6·1	+2·7	+3·4
18. Do., East	95·2	65·3	80·3	29·9	47·6	+4·9	+3·0	+1·9
19. Gujarat	95·2	67·4	81·3	27·8	44·1	+3·7	+2·2	+1·5
20. Central India, West	96·1	63·1	79·8	33·0	51·5	+4·5	+2·3	+2·2
21. Do., East	94·7	61·5	78·1	33·1	51·2	+3·4	+0·5	+2·9
22. Berar	99·1	69·1	84·1	30·0	46·8	+2·3	+0·8	+1·5
23. Central Provinces, West	96·5	64·3	80·4	32·2	51·8	+1·8	—0·6	+2·4
24. Do., East	96·8	65·1	81·0	31·7	49·1	+1·6	—0·2	+1·8
25. Konkan	87·8	74·6	81·2	13·2	21·4	+1·0	+1·5	—0·5
26. Bombay Deccan	98·4	65·7	82·1	32·7	46·1	+1·7	+0·3	+1·4
27. Hyderabad, North	98·1	68·5	83·3	29·6	44·6	+1·6	+0·3	+1·3
28. Do., South	99·2	71·3	85·2	27·9	41·5	+1·0	—0·3	+1·3
29. Mysore	93·7	66·6	80·1	27·1	37·9	+1·0	+0·5	+0·5
30. Malabar	90·5	77·4	83·9	13·1	17·7	—0·1	+1·3	—1·4
31. Madras, South-east	93·9	72·2	83·0	21·7	31·6	+0·3	0	+0·3
32. Do. Deccan	101·0	71·9	86·4	29·1	43·6	—0·1	—0·9	+0·8
33. Do. Coast, North	90·6	71·8	81·1	18·8	31·9	+0·1	—1·4	+1·5

TABLE 11.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·6	+0·1	+0·4
Assam	+3·0	+1·8	+2·4
Bengal	+3·1	+1·3	+2·2
Bihar and Orissa	+3·7	+0·7	+2·2
United Provinces	+3·7	+2·3	+3·0
Punjab	+6·2	+3·7	+4·9
North-West Frontier Province	+6·3	+2·7	+4·5
Sind	+3·8	+2·3	+3·0
Rajputana	+5·4	+2·9	+4·1
Bombay	+2·4	+1·4	+1·9
Central India	+3·9	+1·5	+2·7
Central Provinces	+1·9	—0·1	+0·9
Hyderabad	+1·3	—0·1	+0·6
Mysore	+1·0	+0·5	+0·7
Madras	+0·1	—0·4	—0·1

Winds.

11. (*a*) The air movement was up to the average or below it except in the Punjab and Mysore, where it was appreciably stronger than usual.

(*b*) Steadiness was low in Mysore and the North-West Frontier Province, normal in Burma, Central India, Bombay and Madras, and distinctly greater than usual over the rest of the country.

(*c*) The deviations from normal of the direction of the air movement were small, irregular and of no significance.

TABLE 12.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	0	— 3
Assam	—0·3	+19
Bengal	—0·6	+11
Bihar and Orissa	0	+ 7
United Provinces	0	+20
Punjab	+0·6	+13
North-West Frontier Province	—0·5	— 9
Sind	—0·8	+15
Rajputana	0	+ 9
Bombay	—0·8	+ 3
Central India	—0·3	— 2
Central Provinces	+0·3	+ 4
Hyderabad	—0·2	+ 7
Mysore	+0·8	— 8
Madras	+0·2	— 1

Humidity and cloud.

12. The air was considerably drier than usual, both absolutely and relatively, in Bihar and Orissa, the United Provinces, the east and north Punjab, east Rajputana, Central India, the Central Provinces, Hyderabad and parts of Gujarat and of the North-West Frontier Province, and was unusually damp in deltaic Sind; elsewhere the hygrometric conditions compared fairly with the normal.

Cloud proportion was above normal in Burma, Gujarat, deltaic Sind, Khandesh and Berar, and about the average or in defect elsewhere.

TABLE 13.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	73	— 2	·628	—·023	3·5	+1·0
Assam	80	— 2	·571	+·018	3·3	—0·9
Bengal	76	— 2	·642	+·003	2·8	—0·3
Bihar and Orissa	50	—12	·413	—·083	1·7	—0·3
United Provinces	41	—15	·310	—·064	1·3	—0·7
Punjab	49	—13	·316	—·038	2·3	—0·8
North-West Frontier Province.	55	—13	·327	—·032	3·5	—0·5
Sind	57	+ 3	·468	+·062	2·3	—0·1
Rajputana	30	—11	·249	—·045	1·7	—0·6
Bombay	52	— 6	·500	—·015	1·7	+0·3
Central India	33	— 9	·283	—·039	2·0	+0·1
Central Provinces	29	—13	·256	—·100	1·5	0
Hyderabad	40	— 7	·401	—·084	1·0	—0·3
Mysore	61	— 1	·520	—·011	1·4	—0·4
Madras	73	0	·739	—·005	2·0	—0·4

Rainfall.

13. The only divisions which obtained effective rainfall were Lower Burma, Assam, Bengal, the Punjab, Kashmir, the North-West Frontier Province, Baluchistan, Malabar and Madras South-east, and of these Assam alone had its normal supply, the amounts recorded in the remaining areas being distinctly in defect. There was also a marked defect in Upper Burma, Orissa, Chota Nagpur, Bihar, the United Provinces West, the Central Provinces proper, the Madras Coast North and the Bay Islands, where ordinarily half an inch or more of rain is received; but over the rest of the rainless area, owing to the smallness of the normal fall, the actual deficiency was comparatively small.

The normal rainfall of March averaged over the whole of the plains being six-tenths of an inch, the actual was only a quarter of an inch, and was 62 per cent. in defect.

TABLE 14.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	0	1·0	0	0·77	—0·77	—100
2. Lower Burma	0·2	0·7	0·15	0·56	—0·41	— 73
3. Upper Burma	0·2	0·9	0·04	0·46	—0·42	— 91
4. Assam	5·3	6·5	4·37	3·89	+0·48	+ 12
5. Bengal	0·3	2·4	0·18	1·56	—1·38	— 88
6. Orissa	0·1	1·9	0·02	1·13	—1·11	— 98
7. Chota Nagpur	0	1·8	0·01	0·84	—0·83	— 99
8. Bihar	0	1·0	0	0·47	—0·47	—100
9. United Provinces, East	0	0·7	0	0·28	—0·28	—100
10. Do., West	0	1·1	0	0·51	—0·51	—100
11. Punjab, East and North	0·6	1·7	0·21	0·81	—0·60	— 74
12. Punjab, South-west	0·5	1·5	0·22	0·54	—0·32	— 59

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
13. Kashmir	3·7	5·8	2·00	3·90	—1·90	— 49
14. North-West Frontier Province	2·0	3·9	0·92	1·99	—1·07	— 54
15. Baluchistan	0·9	3·3	0·29	1·29	—1·00	— 78
16. Sind	0	0·5	0	0·19	—0·19	—100
17. Rajputana, West	0·1	0·4	0·01	0·12	—0·11	— 92
18. Do., East	0	0·5	0	0·19	—0·19	—100
19. Gujarat	0	0·1	0	0·04	—0·04	—100
20. Central India, West	0	0·3	0	0·12	—0·12	—100
21. Do., East	0	0·6	0	0·22	—0·22	—100
22. Berar	0·1	0·7	0·02	0·28	—0·26	— 93
23. Central Provinces, West	0	0·9	0	0·42	—0·42	—100
24. Do., East	0·2	1·2	0·05	0·58	—0·53	— 91
25. Konkan	0	0·1	0·01	0·06	—0·05	— 83
26. Bombay Deccan	0·1	0·3	0·02	0·15	—0·13	— 87
27. Hyderabad, North	0·2	0·7	0·06	0·34	—0·28	— 82
28. Do., South	0	0·7	0	0·38	—0·38	—100
29. Mysore	0	0·6	0	0·30	—0·30	—100
30. Malabar	0·3	1·0	0·12	0·59	—0·47	— 80
31. Madras, South-east	0·3	0·8	0·13	0·54	—0·41	— 76
32. Do. Deccan	0	0·1	0	0·17	—0·17	—100
33. Do. Coast, North	0	0·9	0·02	0·52	—0·50	— 96

TABLE 15.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·08	0·50	—0·42	— 84
Assam	4·37	3·89	+0·48	+ 12
Bengal	0·18	1·56	—1·38	— 88
Bihar and Orissa	0·01	0·72	—0·71	— 99
United Provinces	0	0·41	—0·41	—100
Punjab	0·21	0·74	—0·53	— 72
North-West Frontier Province	0·92	1·99	—1·07	— 54

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0	0·19	—0·19	—100
Rajputana	0	0·17	—0·17	—100
Bombay	0·01	0·10	—0·09	— 90
Central India	0	0·17	—0·17	—100
Central Provinces	0·02	0·44	—0·42	— 95
Hyderabad	0·03	0·36	—0·33	— 92
Mysore	0	0·30	—0·30	—100
Madras	0·03	0·49	—0·41	— 84
Mean of India	0·23	0·61	—0·38	— 62

Snowfall.

I.—NORTH-EAST PERSIA.

14. Light snow fell at Meshed on the 3rd and the 16th.

II.—AFGHANISTAN.

No information has been received.

III.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—There was only one fall, *viz.*, on the 18th, when from 4 to 6 inches of snow fell on the Pirghal, Marwatti and Jani Mela mountains; but the snow had melted away by the end of the month.

(*b*) *Dera Ismail Khan.*—No snowfall occurred on the ranges in this district.

(*c*) *Kurram.*—There were altogether five falls on the Sufed Koh during the second fortnight of the month. On the 31st the unmelted residue was reported to be 6 feet deep on the Agam pass and about 1 foot on the Paiwar Kotal.

(*d*) *Kohat.*—No snow fell on the Samana range.

(*e*) *Hazara.*—The following statement shows the character of snowfall in this area:—

TABLE 16.

Locality.	Elevation in feet.	Total amount of snowfall during the month.		Number of days on which snow fell.	Total depth of unmelted snowfall on 15th March 1916.	
		Ft.	In.		Ft.	In.
Narang	8,000	3	6	2	6	0
Paludran	7,300	3	0	1	4	6
Kagan	6,600	2	6	2	3	0
Sundigali	7,000	1	1	2	1	0
Jachha	6,500	0	5	2	...	
Dungagali	8,000	0	8	2	3	2
Thandiani	8,800	4	5	3	3	3

In the north of the district the lowest descent was to 6,500 feet.

IV.—KASHMIR.

(*a*) *Gilgit.*—Heavy snow is said to have fallen in this district during the first half of the month.

(*b*) *Srinagar.*—Light falls occurred on the surrounding mountains on the 18th and 19th.

(*c*) *Skardu.*—Light snowfall occurred on the high ranges on the 4th, 17th, 24th, 27th and 29th.

(*d*) *Dras.*—Snowfall occurred on the 4th, 5th, 6th, 8th and again daily from the 17th to the 20th and the 25th to the 29th. The total fall in the grounds of the observatory measured a little over 3 feet in depth.

(*e*) *Kargil.*—On the surrounding mountains snowstorms were observed on the 4th, 5th, 6th, 8th, 18th, 19th, 20th, 28th and 29th, and all of them with the exception of the last two extended down to the level of the station.

The depth of accumulation existing at the end of the month was:—

Archulla	2 feet.
Nakthulla	1½ "
Sinculla	1 foot.
Barulla	8 inches.
Narianulla	5 "

V.—PUNJAB.

(*a*) *Chamba Forest Division.*—The following is a statement of snowfall:—

Chamba range.—Snow fell on the 17th down to 7,000 feet. Depth of accumulation on the higher passes is not known.

Bharmaur range.—Snow fell on the 17th and 19th down to a level of 8,000 feet and soon melted away.

Dalhousie range.—No snow fell.

Bhandal range.—Snowfall occurred on this range down to a level of 6,500 feet between the 17th and 20th. The fall amounted to 7 inches at Langera and 3 inches just above the Bhandal Rest House, but snow had disappeared from both localities by the end of the month.

Pangi range.—(*i.e.*, the basin of the Chenab river in the Chamba State). Snowstorms occurred on the 4th, 5th, 13th, 19th, 20th, 25th and 26th over the whole range and extended down to the level of the Chandrabhaga. The total fall amounted to 4 feet 10 inches at Pangi. At the close of the month about 12 feet of snow still lay unmelted on the high passes and about 2 feet at Killar.

Tisa range.—Light snow fell on the 18th over the north-east of the range down to 5,500 feet.

Bhattiyat range.—(Drainage area of the Beas river in the Chamba State). No snow fell. On the 31st about 1½ feet of snow lay on the Loha pass (elevation about 9,500 feet), but the Chuari pass (elevation about 8,500 feet) was free from snow.

(*b*) *Kilba* (*Simla Hills*).—Snowstorms occurred from the 17th to the 19th down to 9,000 feet, at which level the total fall amounted to 7 inches. At the end of the month the Harang pass was clear of snow, but the Rupin, Brua and Shatul passes had still 5, 6 and 7 feet of snow respectively on them, and were accordingly not passable.

VI.—UNITED PROVINCES.

(*a*) *Garhwal.*—Snowfall occurred only on the 19th and 27th and was confined to the higher elevations in the north of the district. At the end of the month the unmelted residue of the accumulations was decidedly less than usual.

(*b*) *Almora.*—The total fall of the month amounted to 2½ feet in Byans and Malla Darma, 9 inches in Chaudas and 6 inches in Malla Danpur. The snowline descended to a distance of 2½ miles below the perpetual snows in Malla Darma and quarter of a mile in Chaudas. No snow fell in Malla Johar.

TABLE 17.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	10	31
Lampia "	4½	18½
Lipulekh "	8	18¾
Binkaru "	8	20
Pindari peak	½	5½
Kaphini "	½	5½
Kuntela "	½	5½

SUMMARY.

15. There was appreciably less than the usual amount of snowfall, and the accumulations existing at the end of the month were distinctly below the average depth.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in March, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·884	29·337	·147	29·805	—·051	29·772	95·8	70·1	25·7	102·9	58·2	44·7	85·3	94·2	82·0	+2·7	66·2	71·9	70·9	69·7
	VI.—Punjab.																					
11	Lahore . . .	702	29·188	29·087	·101	29·132	—·035	29·802	90·1	58·1	32·0	96·8	46·4	50·4	78·4	89·1	73·4	+4·4	52·4	62·1	65·6	60·1
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·473	28·359	·114	28·408	—·045	29·759	95·8	62·3	33·5	101·5	51·5	50·0	86·2	94·2	78·6	+3·7	50·1	60·8	62·3	57·7
	X.—Bombay.																					
25	Bombay . .	37	29·922	29·802	·120	29·858	—·019	29·835	87·7	74·9	12·8	94·1	69·3	24·8	81·9	84·4	79·7	+ 1·7	67·9	74·2	75·5	72·5
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·999	26·866	·133	26·933	+·001	29·715	93·0	64·9	28·1	97·5	56·8	40·7	82·5	90·9	78·0	+1·3	57·2	64·8	63·3	61·8
	XV.—Madras.																					
31	Pudukkottai . .	318	29·668	29·500	·168	29·584		29·827	97·0	73·9	23·1	103·0	69·1	33·9	85·3	94·2	85·4			74·1	74·4	
	Madras . .	22	29·955	29·828	·127	29·892	—·013	29·845	90·0	70·7	19·3	96·1	65·9	30·2	86·1	85·7	78·7	—0·8	70·3	76·3	77·3	74·6
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain . . .		23·186	23·131	·055	23·149		23·111	63·5	38·5	25·0	70·0	32·2	37·8	55·4	60·1	51·3			43·1	45·2	
	Katmandu . .	4,388	25·708	25·616	·092	25·659	+·048	25·613	82·1	48·6	33·5	88·0	42·9	45·1	69·6	78·2	65·8	+5·0	45·6	56·8	59·3	54·1
	Kodaikanal . .	7,388	22·838	22·829	·059	22·859		22·794	70·9	51·0	19·9	75·4	44·7	30·7	65·8	64·3	61·0		43·6	51·2	52·8	49·5
	Extra India.																					
	Seychelles . .	15	29·961	29·861	·100	29·916	+·011†	29·854	85·1	79·2	5·9	87·3	77·2	10·1	83·0	84·4	81·1	+2·2†	73·0	77·5	77·6	76·0
	Mauritius . .	181				29·698	—·009	29·825	84·9	71·2	13·7	87·6	65·3	22·3			77·5	0				73·6

N.B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

A.

at 12 stations in India, etc., in March, 1916.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·600	·611	·452	·595	—·048	81	50	29	58	— 9	1·7	1·6	1·7	—0·5	1	0	0	0	3	7	27	12	12	S 62° W	S 60° W	68	44	92	86	0	0	Calcutta . .	5
																															VI.—Punjab.	
·322	·344	·318	·339	—·021	67	36	23	44	—10	2·6	3·0	2·8	—0·7	7	5	7	1	6	2	1	5	28	N 34° W	N 12° W	43	31	75	51	0·23	0·10	Lahore . .	11
																															IX.—Rajputana.	
·213	215	·166	·202	—·103	38	17	10	25	—14	2·0	3·8	2·9	—0·2	2	5	4	4	0	0	6	20	21	N 60° W	N 46° W	60	30	93	79	0	0	Jaipur . .	18
																															X.—Bombay.	
·595	·745	·767	·729	—·008	68	68	65	71	— 4	1·2	1·4	1·3	0	0	4	3	4	6	4	5	16	20	N 70° W	N 36° W	40	46	142	191	0	0	Bombay . .	25
																															XIV.—Mysore.	
·383	·416	·265	·364	—·083	63	38	18	42	— 8	0·8	1·7	1·3		1	3	9	27	8	4	5	4	1	S 84° E	S 36° E	50	46	142	86	0	0	Bangalore . .	29
																															XV.—Madras.	
	·680	·585				54	37			3·4	2·7	3·1		5	0	15	6	17	9	8	2	0	S 52° E		43		93		0·36	0·36	Pudukkottai .	31
·739	·773	·824	·802	0	98	62	67	80	+ 2	1·5	0·8	1·1	—1·1	0	1	2	16	23	14	6	0	0	S 43° E	S 44° E	70	81	100	109	0	0	Madras.	
																															Hill stations, excluding in Kashmir and Baluchistan.	
	·153	·151				37	30			4·4	6·1	5·3																	1·35	0·86	Sarain.	
·267	·317	·304	·294	—·007	78	45	32	53	— 8	1·9	3·5	2·7	—0·6	0	0	0	19	0	0	1	42	0	S 88° W	N 82° W	39	47	28	23	0	0	Katmandu.	
·208	·225	·305	·246		56	37	52	49		1·6	4·4	3·0		0	18	11	10	13	3	0	1	6	N 51° E		45		223		0·72	0·71	Kodaikanal.	
																															Extra India.	
·720	·871	·861	·848	—·013	73	77	72	78	— 5	4·8	4·5	4·7	—2·0†	10	10	10	9	4	0	0	4	19	N 4° W	N 17° W	43	26	85	86	7·62	1·25	Seychelles.	
			·750	—·003				80	— 3			4·5	—1·5										S 73° E	S 78° E			103	183	7·07	2·99	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 213 stations in India, etc., in March, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.								Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Absolute range during month.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°	°			%		"				"	"	"
Burma	−·013	91·7	+0·6	68·6	+0·1	80·1	+0·4	23·1	35·8	0	− 3	73	− 2	·628	−·023	3·5	+1·0	0·08	0·50	−0·42
Assam	−·034	86·7	+3·0	62·8	+1·8	74·7	+2·4	23·9	41·0	−0·3	+19	80	− 2	·571	+·018	3·3	−0·9	4·37	3·89	+0·48
Bengal	−·032	92·3	+3·1	67·9	+1·3	80·1	+2·2	24·5	45·6	−0·6	+11	76	− 2	·642	+·003	2·8	−0·3	0·18	1·56	−1·38
Bihar and Orissa	−·028	94·6	+3·7	65·7	+0·7	80·2	+2·2	29·0	48·1	0	+ 7	50	−12	·413	−·083	1·7	−0·3	0·01	0·72	−0·71
United Provinces of Agra and Oudh	−·035	93·7	+3·7	62·6	+2·3	78·2	+3·0	31·1	51·6	0	+20	41	−15	·310	−·064	1·3	−0·7	0	0·41	−0·41
Punjab	−·032	89·5	+6·2	59·1	+3·7	74·3	+4·9	30·4	49·1	+0·6	+13	49	−13	·316	−·038	2·3	−0·8	0·21	0·74	−0·53
North-West Frontier Province	−·051	84·9	+6·3	56·1	+2·7	70·5	+4·5	28·7	46·0	−0·5	− 9	55	−13	·327	−·032	3·5	−0·5	0·92	1·99	−1·07
Sind	−·017	92·1	+3·8	65·7	+2·3	78·9	+3·0	26·5	42·5	−0·8	+15	57	+ 3	·468	+·062	2·3	−0·1	0	0·19	−0·19
Rajputana	−·025	95·5	+5·4	65·6	+2·9	80·6	+4·1	29·9	47·7	0	+ 9	30	−11	·249	−·045	1·7	−0·6	0	0·17	−0·17
Bombay	−·011	94·6	+2·4	68·4	+1·4	81·5	+1·9	26·2	39·7	−0·8	+ 3	52	− 6	·560	−·015	1·7	+0·3	0·01	0·10	−0·09
Central India	−·015	95·4	+3·9	62·3	+1·5	78·9	+2·7	33·1	51·3	−0·3	− 2	33	− 9	·383	−·039	2·0	+0·1	0	0·17	−0·17
Central Provinces	·009	97·2	+1·9	65·7	−0·1	81·4	+0·9	31·5	49·8	+0·3	+ 4	29	−13	·256	−·100	1·5	0	0·02	0·44	−0·42
Hyderabad	0	99·7	+1·3	70·1	−0·1	84·4	+0·6	28·6	42·9	−0·2	+ 7	40	− 7	·401	−·084	1·0	−0·3	0·03	0·36	−0·33
Mysore	−·001	93·7	+1·0	66·6	+0·5	80·1	+0·7	27·1	37·9	+0·8	− 8	61	− 1	·520	−·011	1·4	−0·4	0	0·30	−0·30
Madras	−·005	93·3	+0·1	73·0	−0·4	83·1	−0·1	20·3	30·8	+0·2	− 1	73	0	·729	−·005	2·0	−0·4	0·08	0·49	−0·41

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	I.—Burma.																						
2	Victoria Point	147	29·796		29·873	29·838	18th	29·754	12th	·084	80·0	88·9		76·0		82·5		12·9	95·0	31st	71·8	1st	23·2
	Mergui	66	29·889	−·005	29·885	29·937	27th	29·839	12th	·098	78·6	91·5	+0·5	72·1	−0·5	81·8	0	19·4	96·8	24th	69·1	10th	27·7
	Tavoy	19	29·941	−·016	29·891	29·989	27th	29·902	12th	·087	75·9	93·5	+0·4	70·5	−0·1	82·0	+0·1	23·0	96·4	17th	61·0	8th	35·4
	Moulmein	94	29·877	+·013	29·910P	29·946	25th	29·821	15th	·125	76·5	93·6	−0·5	71·4	−1·5	82·5	−1·0	22·2	96·6	31st	64·3	9th	32·3
	Rangoon	18	29·940	+·007	29·896	30·001	26th	29·893	12th	·108	73·6	94·9	−1·2	70·1	−1·1	82·6	−1·1	24·8	99·0	23rd	66·7	4th	32·3
	Bassein	27	29·932	+·007	29·896	29·996	25th	29·874	12th	·122													
	Diamond Island	41	29·909	−·006	29·885	29·987	27th	29·858	30th	·129	79·1	84·2	−0·9	75·5	+0·1	79·8	−0·4	8·7	87·6	9th	71·0	4th	16·6
	Toungoo	164	29·777	+·006	29·885	29·840	5th	29·722	30th	·117	76·2	96·2	−1·2	67·1	−1·3	81·6	−1·3	29·1	100·3	15th	57·3	4th	43·0
	Kyaukpyu	18	29·931		29·889	30·002	27th	29·869	30th	·133	76·0	85·3		69·8		77·5		15·5	92·3	31st	62·9	5th	29·4
	Akyab	20	29·925	−·009	29·887	29·996	27th	29·850	30th	·145	74·4	85·1	−3·5P	69·9	+1·2	77·5	−1·1P	15·2	88·7	16th	58·5	2nd	30·2
3	Minbu	*165*	29·741	−·022	29·851	29·819	25th	29·675	20th	·144	75·2	99·5	+1·0	68·3	−1·2	83·9	−0·1	31·2	105·3	20th	56·0	6th	49·3
	Yamethin	657	29·282	−·007	29·867	29·231	25th	29·207	20th	·124	75·7	98·0	−0·1	69·4	+0·9	83·7	+0·4	28·6	102·5	23rd	60·0	4th	42·5
	Mandalay	250	29·652	−·020	29·852	29·723	5th	29·554	20th	·169	78·6	101·6P	+3·2P	71·4	+3·1P	86·2P	+3·2P	29·6P	105·7	20th	60·8	4th	44·9
	Monywa	*280*	29·616	−·039	29·849	29·693	14th	29·510	20th	·183	74·5	99·8	+4·1	68·2	+1·2	84·0	+2·7	31·6	106·2	21st	57·8	6th	48·4
	Lashio	*2,820*	27·102	−·037	27·048	27·184	25th	26·998	20th	·186	65·0	87·3	+1·3	56·1	+2·4	72·7	+1·9	29·2	92·3	20th & 21st	50·4	4th	41·9
	Bhamo	*361*	29·532	−·019	29·857	29·612	14th	29·404	30th	·208	66·5	90·7	+2·6	60·2	+0·6	75·4	+1·6	30·5	97·4	20th	50·6	4th	46·8
	Myitkyina	458	29·420	−·055	29·856	29·505	24th	29·307	19th	·198	66·8	86·8	+1·7	62·7	+1·8	74·6	+1·7	23·9	92·8	19th	54·4	3rd	38·4
	II.—Assam.																						
4	Dibrugarh	353	29·553	−·042	29·879	29·666	1st	29·355	20th	·311	66·2	79·6	+1·9	62·5	+2·3	71·1	+2·1	17·1	89·2	16th	55·4	2nd	33·8
	Sibsagar	333	29·590*	−·030	29·894*	29·712	14th	29·404	20th	·308	65·6	79·7	+0·9	61·2	+1·5	70·4	+1·2	18·5	88·0	16th	52·5	4th	35·5
	Tezpur	252	29·658	−·032	29·871	29·779	14th & 25th.	29·471	20th	·308	67·5	86·7	+4·1	63·1	+1·5	74·9	+2·8	23·6	91·3	21st	57·2	1st	34·1
	Gauhati	196	29·711	−·039	29·868	29·836	1st	29·539	20th	·297	69·8	88·3	+2·8	61·9	+2·9	75·1	+2·9	26·4	94·9	19th	54·3	1st	40·6
	Dhubri	115	29·769	−·035	29·841	29·889	1st	29·610	20th	·279	71·6	89·5	+3·4	65·7	+3·0	77·6	+3·2	23·8	99·3	20th	56·3	2nd	43·0
	Silchar	104	29·828	−·028	29·887	29·946	14th	29·699	20th	·247	69·6	89·3	+3·7	63·3	+0·2	76·3	+1·7	26·0	97·2	16th	52·4	2nd	44·8
	Srimangal	66	29·836		29·852	29·926	1st	29·713	30th	·213	72·3	93·6	+5·0	61·9	+1·4	77·7	+3·2	31·7	99·9	17th	45·0	1st	54·9
	III.—Bengal.																						
5	Cox's Bazar	36	29·899		29·880	29·966	25th	29·808	30th	·158	74·6	87·1		68·0		77·5		19·1	92·2	15th	55·1	2nd	37·1
	Chittagong	87	29·837	−·025	29·871	29·922	5th	29·723	30th	·199	73·6	87·8	+1·0	68·7	+1·3	78·3	+1·1	19·1	95·4	16th	56·6	2nd	38·8
	Noakhali	43	29·881	−·017	29·872	29·963	5th	29·760	30th	·203	76·5	87·9	+1·5	70·9	+2·6	79·4	+2·5	17·0	94·4	16th	53·8	1st	40·6
	Barisal	12	29·897	−·026	29·856	29·991	1st	29·771	30th	·220	75·9	91·4	+2·2	70·0	+1·2	80·7	+1·7	21·4	98·7	19th	54·2	2nd	44·5
	Narayanganj	26	29·870	−·036	29·845	29·979	1st	29·730	30th	·249	75·5	91·7	+2·2	70·2	+2·0	81·0	+2·1	21·5	100·7	19th	57·0	1st	42·7
	Mymensingh	62	29·835	−·031	29·851	29·943	25th	29·701	29th	·242	70·9	92·1	+4·9	67·0	+2·6	79·5	+3·7	25·1	99·4	20th	53·1	1st	46·3
	Bogra	75	29·868	−·033	29·836	29·934	1st	29·657	30th	·277	71·9	95·8	+5·6	63·7	+6·5	79·7	+3·1	32·1	105·9	20th	50·1	1st	55·8
	Dinajpur	123	29·747	−·036	29·828	29·881	1st	29·577	30th	·304	71·4	93·2	+4·2	61·7	+1·2	77·4	+2·7	31·5	104·3	20th	49·1	1st	55·2
	Jalpaiguri	283	29·588	−·042	29·836	29·701	1st	29·408	20th	·293	67·6	87·4	+2·8	62·5	+2·8	75·0	+2·8	24·9	92·5	21st	56·8	1st	35·7
	Saugor Island	10	29·894	−·028	29·849	29·999	1st	29·741	30th	·258	78·6	87·2	+0·2	74·0	−0·6	80·6	−0·2	13·2	97·4	15th	61·9	2nd	35·5
	Midnapore	149	29·733	−·043	29·832	29·862	1st	29·574	30th	·288	77·6	99·5	+4·7	69·4	+0·1	84·4	+2·4	30·1	108·4	20th	57·1	2nd	51·3
	Calcutta	21	29·868	−·038	29·837	29·888	1st	29·715	30th	·273	74·7	95·5	+4·6	70·1	+0·8	82·8	+2·7	25·4	102·9	18th & 19th	58·2	2nd	44·7

* Mean of 30 days.

N. B.—Elevations in italics indicate barometrical determinations.

B.

at 213 stations in India, etc., in March, 1916.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal	Total rainfall from 1st December, 1915 to 31st March, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																I.—Burma.
1	2	16	9	2	0	0	0	1	N 59° E		6·3			79		79		·800		4·9		1			0·25			2·12			0·21	Victoria Point.
29	0	0	1	1	0	0	0	0	S 66° E	N 27° W	1·8	1·6	+0·2	7	−46	86	+ 3	·839	+·002	2·1	−0·8	4	4·5	−0·5	3·14	3·05	+ 0·09	3·98	6·56	− 2·58	2·38	Mergui.
15	8	6	0	0	0	0	0	2	N 12° E	N 34° W	2·0	1·2	+0·8	46	+28	83	− 3	·749	−·026	4·1	+3·0	1	2·2	−1·2	1·41	1·61	− 0·20	1·82	2·56	− 0·74	1·41	Tavoy.
5	0	7	15	2	1	0	0	0	N 85° E	S 58° E	3·1	2·4	+0·7	72	+ 7	82	+ 2	·749	−·030	2·6	+0·5	0	0·6	−0·6	0·05	0·43	− 0·38	3·82	0·94	+ 2·88	0·05	Moulmein
2	3	3	2	1	6	7	5	2	S 51° W	S 64° W	4·3	3·3	+1·0	27	−41	85	0	·704	−·036	9·0	+6·6	1	0·6	+0·4	0·41	0·37	+ 0·07	4·97	0·89	+ 4·08	0·44	Rangoon.
22	2	0	0	0	0	1	4	2	N 66° W	N 55° W	4·0	4·1	−0·1	23	−45					3·7	+1·9	0	0·2	−0·2	0	0·19	− 0·19	3·15	0·94	+ 2·21	0	Bassein.
0	19	0	0	0	0	0	0	13	N 42° W	N 30° W	8·9	6·8	+2·1	82	+ 9	74	− 3	·737	−·034	3·3	+0·7	0	0·3	−0·3	0	0·23	− 0·23	6·10	1·36	+ 4·74	0	Diamond Island.
5	0	2	2	11	10	1	0	0	S 31° E	S 51° E	2·5	2·3	+0·2	66	+23	74	0	·673	−·004	2·8	+0·6	0	0·5	−0·5	0	0·36	− 0·36	4·02	0·95	+ 3·07	0	Toungoo.
31	0	0	0	0	0	0	0	0	Calm		0·9*			(a)		85		·760		5·3		0			0			0·71			0	Kyaukpyu.
12	4	5	6	1	1	2	0	0	N 63° E	N 32° E	2·9	2·7	+0·2	33	−42	86	+ 2	·736	+·027	3·5	+1·1	0	0·9	−0·9	0	0·58	− 0·58	0·12	1·50	− 1·38	0	Akyab.
2	0	0	0	24	0	2	0	3	S 39° E	S 63° E	3·1	5·4	−2·3	66	+43	51	− 6	·445	−·075	2·0	+1·0	0	0·5	−0·5	0	0·44	− 0·44	2·00	1·03	+ 0·97	0	Minbu.
10	0	0	0	12	4	0	0	0	S 37° E	S 38° E	1·8	3·4	−1·6	66	+15	61	− 1	·541	−·016	0·2	−0·7	0	0·6	−0·6	0	0·49	− 0·49	3·68	1·25	+ 2·33	0	Yamethin.
13	0	0	1	7	7	2	1	0	S 15° E	S 8° W	2·7	3·1	−0·4	43	+17	49	− 5	·472	−·029	4·9	+3·5*	0	0·5	−0·5	0·07	0·20	− 0·13	0·82	0·64	+ 0·18	0·07	Mandalay.
10	3	0	0	6	2	0	0	5	N 8° E		4·1			17		52	− 7	·438	−·058	0·4	−1·3	1	0·9	+0·1	0·12	0·40	− 0·28	0·62	0·80	− 0·18	0·12	Menywa.
23	1	4	0	0	0	3	0	0	N 24° E		3·3			7		67	− 3	·410	−·001	1·2	−1·9	0	1·3	−1·3	0	0·82	− 0·82	1·35	1·90	− 0·55	0	Lashio.
24	3	3	1	0	0	0	0	0	N 31° E	N 3° W	1·1	2·1	−1·3	20	− 9	79	− 2	·509	−·014	4·6	+1·7	1	1·7	−0·7	0·41	0·67	− 0·26	0·55	2·30	− 1·75	0·39	Bhamo.
21	2	4	3	1	0	0	0	0	N 57° E		2·4			27		75	− 4	·493	−·022	5·6	+2·0	0	2·9	−2·9	0·11	0·85	− 0·74	1·44	2·50	− 1·06	0·07	Myitkyina.
																																II.—Assam.
16	2	5	6	2	0	0	0	0	N 69° E		1·2			40		85	− 1	·546	+·038	4·1	−1·5	7	3·2	−1·2	5·37	4·33	+ 1·04	9·42	8·39	+ 1·03	1·78	Dibrugarh.
6	6	15	1	1	0	1	1	0	N 25° E	N 51° E	3·0	2·2	+0·8	62	+12	88	− 4	·550	+·003	4·8	−1·2	3	9·5	−1·5	5·41	4·91	+ 0·50	9·83	8·59	+ 1·24	3·02	Sibsagar.
7	1	6	13	1	0	0	0	3	N 67° E		3·9			56		79	− 2	·531	+·025	2·1	−1·0	3	5·4	−2·4	2·72	1·95	+ 0·77	6·21	3·53	+ 2·68	1·04	Tezpur.
24	1	4	1	1	0	0	0	0	N 55° E		1·4			20		75	− 4	·546	+·044	1·9	−2·8	2	4·5	−2·5	1·86	2·38	− 0·52	2·24	3·77	− 1·53	1·50	Gauhati.
2	0	12	12	1	2	2	0	0	N 78° E	N 72° E	3·3	4·6	−1·3	66	+19	80	+ 5	·626	+·106	3·9	+1·5	0	2·7	−2·7	0	1·99	− 1·99	0·53	3·07	− 2·54	0	Dhubri.
16	2	9	3	1	0	0	0	0	N 53° E	S 83° E	1·7	2·2	−0·5	43	+27	79	− 2	·576	−·008	3·4	−0·7	10	9·6	+0·4	7·64	7·84	− 0·20	8·75	11·14	− 2·39	1·58	Silchar.
																77	− 6	·625	+·008	2·6		5	4·2	+0·8	6·55	2·73	+ 3·82	7·35	5·10	+ 2·25	2·63	Srimangal.
																																III.—Bengal.
11	0	0	7	11	2	0	0	0	S 56° E		3·6			59		84		·723		3·2		0			0			1·06			0	Cox's Bazar.
21	0	0	6	4	0	0	0	0	S 71° E	N 87° E	1·5	4·0	−2·5	30	−24	89	+ 7	·757	+·056	3·2	0	0	2·9	−2·9	0	2·68	− 2·68	0·01	4·79	− 4·78	0	Chittagong.
6	0	2	0	7	13	3	0	0	S 12° E		3·3			65		86	+ 2	·788	+·048	2·7	−0·2	0	3·2	−3·2	0	2·80	− 2·80	0·02	4·59	− 4·57	0	Noakhali.
8	0	1	0	0	16	5	1	0	S 12° W	S 18° W	2·5	2·7	−0·2	66	+53	83	− 1	·748	+·007	4·4	+1·0	0	3·3	−3·3	0	2·08	− 2·08	0·05	4·12	− 4·07	0	Berisal.
5	0	1	1	4	12	7	1	0	S 4° W	S 13° W	3·3	3·7	−0·4	62	+23	81	− 2	·719	+·032	2·7	−2·0	0	3·4	−3·4	0·06	2·57	− 2·51	2·30	4·40	− 2·10	0·06	Narayanganj.
9	0	1	12	6	3	0	0	0	S 69° E	S 76° E	2·0	2·3	−0·3	59	− 2	82	+ 3	·632	+·031	5·7	+0·3	1	3·6	−2·6	0·10	2·28	− 2·18	0·19	3·77	− 3·58	0·10	Mymensingh.
16	0	1	4	1	5	4	0	0	S 19° E	S 53° E	1·6	2·6	−1·0	27	+ 3	70	− 3	·559	+·015	2·7	+0·3	0	3·2	−2·2	0·02	1·34	− 1·32	0·36	2·72	− 2·36	0·02	Bogra.
3	5	5	3	4	3	4	4	0	S 87° E	S 14° W	2·6	3·6	−1·0	8	+ 5	65	− 2	·500	+·027	1·0	−1·2	0	1·6	−1·6	0	0·81	− 0·81	0·32	1·76	− 1·44	0	Dinajpur.
31	0	0	0	0	0	0	0	0	Calm.	N 75° E				(a)		79	+ 3	·532	+·028	1·8	0	0	2·4	−2·4	0	1·25	− 1·25	0·85	2·28	− 1·43	0	Jalpaiguri.
2	1	0	0	1	8	14	3	2	S 40° W		9·4			66	+27	83	0	·818	+·014	3·4	−0·5	0	2·0	−2·0	0	1·44	− 1·44	0·59	3·25	− 2·66	0	Saugor Island.
10	1	1	1	1	7	6	0	4	S 36° W		2·2			29		56	−11	·526	−·065	1·4	−0·5	0	2·6	−2·6	0·06	1·33	− 1·27	0·07	3·28	− 3·21	0·06	Midnapore.
2	1	0	0	3	2	19	1	3	S 45° W	S 42° W	3·9	3·6	+0·3	66	+19	80	0	·695	−·005	2·7	−0·2	0	2·2	−2·2	0	1·25	− 1·25	0	3·02	− 3·02	0	Calcutta.

(a) Indeterminate.

* Mean of 24 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	III.—Bengal—*concld.*																						
	Jessore	30	29·868	—·025	29·846	29·980	1st	29·721	30th	·259	74·4	93·8	+2·2	68·2	+0·4	81·0	+1·3	25·6	103·8	20th	50·7	1st	53·1
	Burdwan	99	29·780	—·041	29·828	29·918	1st	29·605	30th	·313	74·8	97·9	+4·5	67·1	—1·0?	82·5	+1·7?	30·8	106·4	20th	56·0	3rd	50·4
	Berhampore	67	29·812	—·038	29·830	29·941	1st	29·665	30th	·276	72·6	96·4	+4·4	66·3	+0·7	81·4	+2·5	30·1	104·7	19th	54·0	1st	50·7
	IV.—Bihar and Orissa.																						
6	Balasore	50	29·855	—·024	29·851	29·973	1st	29·699	30th	·274	75·7	96·5	+4·2	68·5	—0·9	82·5	+1·7	28·0	104·8	18th & 20th.	56·6	2nd	48·2
	Hukitala (False Point)	29	29·898	—·012	29·868	30·002	1st	29·744	30th	·258													
	Cuttack	80	29·843	—·008	29·865	29·944	1st	29·696	30th	·248	75·3	98·9	+2·1	70·8	—1·7	84·8	+0·2	28·1	106·5	19th & 31st.	60·2	3rd	46·3
	Puri	24	29·900	—·015	29·865	29·993	1st	29·762	30th	·231	78·3	86·2	—0·1	75·7	+0·5	81·0	+0·2	10·5	92·9	1st	65·9	2nd	27·0
	Angul	455	29·456*	—·029	29·864*	29·558	1st	29·314	30th	·244	76·2	94·3	—0·5	67·0	—0·5	80·6	—0·5	27·3	106·1	30th & 31st.	57·0	4th	49·1
	Sambalpur	486	29·421	—·016	29·875	29·553	1st	29·291	30th	·262	74·0	97·6	+1·4	63·2	—4·1?	80·4	—1·3?	34·4	105·0	29th	53·5	3rd	51·5
7	Chaibasa	*733*	29·145	—·033	29·845	29·257	1st	29·001	30th	·256	72·4	98·3	+5·0	65·7	+1·5	82·0	+3·3	32·6	105·3	19th	54·6	2nd	50·7
	Ranchi	2,128	27·771	—·012	29·830	27·865	14th	27·645	30th	·220	74·8	91·1	+3·7	67·2	+3·7	79·1	+3·7	23·9	98·4	19th	53·9	3rd	44·5
	Purulia	*816*	29·076	—·021	29·852?	29·185	1st	28·928	30th	·257	75·8	99·6	+6·6	68·7	+2·5	84·2	+4·5	30·9	107·3	29th	56·9	1st	50·4
	Daltonganj	*730*	29·142	—·046	29·849	29·265	1st	28·969	30th	·296	66·8	96·3	+6·4	59·9	+0·6	78·1	+3·5	36·4	105·0	19th	48·5	2nd	56·5
8	Purnea	121	29·747	—·037	29·829	29·875	1st	29·559	30th	·316	68·5	92·8	+3·2	60·2	0	76·5	+1·6	32·6	101·5	20th	49·8	1st	51·7
	Monghyr	155	29·705*		29·821*	29·829	1st & 2nd.	29·561	30th	·268	73·2	93·1		65·5		79·3		27·6	101·1	19th	55·9	1st	45·2
	Darbhanga	165	29·694	—·042	29·819	29·822	1st	29·513	30th	·309	69·8	90·9	+3·1	60·8	—1·4	75·8	+0·9	30·1	98·7	19th	51·5	2nd	47·2
	Pusa	188	29·681		29·830	29·797	1st	29·501	30th	·296	70·6	93·4		58·5		75·9		34·9	101·3	31st	47·0	2nd	54·3
	Patna	183	29·663	—·059	29·805	29·793	1st	29·495	30th	·298	75·7	91·3	+1·1?	66·1	+2·2	73·7	+1·7?	25·2	99·7	20th	54·5	1st	45·2
	Buxar	239	29·621	—·043	29·822	29·749	1st	29·459	30th	·290	71·6	94·9	+4·7	65·8	+2·4	80·3	+3·5	29·1	102·9	28th	54·3	3rd	48·6
	Gaya	372	29·511	—·029	29·838	29·631	1st	29·355	30th	·276	78·4	96·4	+3·8	68·0	+2·2	82·2	+3·0	28·4	104·5	28th	57·2	2nd	47·3
	Naya Dumka	489	29·386	—·029	29·833	29·506	1st	29·228	30th	·278	76·8	97·4	+6·2	65·0	+0·1	81·2	+3·1	32·4	105·8	20th	52·4	2nd	53·4
	V.—United Provinces of Agra and Oudh.																						
9	Gorakhpur	257	29·592	—·039	29·814	29·706	5th	29·402	30th	·304	70·6	92·6	+2·6	63·1	+1·1	77·8	+1·9	29·5	101·3	19th	51·1	2nd	50·2
	Benares	267	29·614	—·030	29·841	29·744	1st	29·456	30th	·288	73·9	95·0	+2·9	62·6	+1·2	78·8	+2·1	32·4	103·5	19th	49·7	2nd	53·8
	Allahabad	309	29·569	—·039	29·840	29·683	1st	29·418	30th	·265	73·8	95·2	+2·8	62·5	+0·7	78·9	+1·7	32·7	104·4	28th	49·8	3rd	54·6
	Cawnpore	416	29·463	—·025	29·845	29·573	1st	29·315	30th	·258	72·5	94·4	+4·7	65·6	+4·6	80·0	+4·7	28·8	102·8	28th	53·7	3rd	49·1
	Lucknow	368	29·502	—·034	29·834	29·605	4th	29·346	30th	·259	75·4	93·3	+2·3	64·1	+3·9	78·7	+3·1	29·2	103·5	28th	52·0	2nd	51·5
	Bahraich	407	29·432	—·049	29·812	29·553	4th	29·254	30th	·299	68·7	91·8	+3·4	60·7	+1·8	76·3	+2·6	31·1	104·4	28th	48·2	1st	56·2
10	Jhansi	824	29·067	—·048?	29·863	29·197	1st	28·942	30th	·255	73·9	97·7	+4·9	66·5	+0·2	82·1	+2·5	31·2	105·6	26th & 27th.	55·7	1st	49·9
	Agra	556	29·338	—·027	29·860	29·445	1st	29·204	30th	·241	76·9	94·5	+4·4	65·9	+2·3	80·2	+3·9	28·6	101·0	28th	56·3	1st	44·7
	Mainpuri	516	29·354	—·038	29·841	29·438	5th	29·207	30th	·231	71·3	94·4	+5·0	62·3	+3·9	78·3	+4·5	32·1	103·3	28th	52·6	3rd	50·7
	Bareilly	568	29·277	—·039	29·823	29·393	5th	29·124	30th	·269	69·0	91·8	+4·3	60·3	+1·8	76·0	+3·1	31·5	100·3	28th	47·0	2nd	53·3
	Roorkee	899	28·948	—·035	29·847	29·038	5th & 6th.	28·798	30th	·240	65·1	90·4	+5·7	55·4	—0·2?	72·9	+2·7?	35·0	97·6	28th	42·8	2nd	53·8
	VI.—Punjab.																						
11	Delhi	718	29·161	—·026	29·862	29·254	1st	29·037	30th	·217	70·5	92·1	+5·7	65·9	+4·0	79·0	+4·9	26·2	99·0	16th	53·8	1st	45·2
	Hissar	725	29·156	—·027	29·868	29·277	1st	29·037	30th	·240	68·3	93·7	+6·4	60·7	+3·8	77·2	+5·1	33·0	101·0	16th & 27th.	49·7	1st & 2nd.	51·3

* Mean of 30 days.

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 213 stations in India, etc., in March, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1915 to 31st March, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																III.—Bengal—*concld.*
19	0	0	0	1	7	4	0	0	S 11° W	S 32° W	2·4	2·1	+0·3	37	+ 8	80	0	·685	—·003	2·7	—0·8	1	3·0	− 2·0	1·25	1·95	− 0·70	1·37	3·94	− 2·57	1·25	Jessore.
11	2	1	0	0	3	5	3	6	N 88° W	S 58° W	1·8	2·3	—0·5	32	− 5	57	—10	·499	—·058	2·3	—0·7	0	2·3	− 2·3	0	1·45	− 1·45	0	3·16	− 3·16	0	Burdwan.
12	0	0	0	2	8	8	1	0	S 19° W	S 42° W	1·6	2·4	−0·8	53	+10	58	−12	·469	—·086	1·7	—1·0	0	1·8	− 1·8	0	1·06	− 1·06	0·06	2·53	− 2·47	0	Berhampore.
																																IV.—Bihar and Orissa.
6	1	1	6	0	5	12	3	3	S 53° W	S 61° W	3·5	4·2	−0·7	56	+20	69	− 8	·617	—·069	2·1	+0·2	0	3·4	− 3·4	0	1·97	− 1·97	0·25	4·14	− 3·89	0	Balasore.
0	0	0	0	0	14	13	1	3	S 30° W		7·9			79	+25					3·6	—0·6	0	1·5	− 1·5	0	1·01	− 1·01	1·86	3·30	− 1·44	0	Hukitala (False Point).
18	0	0	1	0	1	7	4	0	S 53° W	S 50° W	2·0	2·4	−0·4	33	+ 4	75	− 3	·673	—·045	3·4	+0·4	0	1·5	− 1·5	0	1·03	− 1·03	0	2·23	− 2·23	0	Cuttack.
0	2	0	0	0	8	12	5	4	S 53° W		10·3			61		84	0	·818	—·017	3·1	+0·4	0	1·1	− 1·1	0	0·63	− 0·63	0	2·18	− 2·18	0	Puri.
9	0	0	0	2	1	1	4	14	N 62° W		3·4			45		48	—19	·438	—·128	2·2	—0·8	0	3·0	− 3·0	0	1·34	− 1·34	0·02	3·54	− 3·52	0	Angul.
0	11	7	2	0	1	3	1	6	N 1° W	N 46° E	3·1	2·3	+0·8	55	+ 9	45	—10	·375	—·110	2·6	+0·7	0	2·0	− 2·0	0	0·96	− 0·96	0·21	2·36	− 2·15	0	Sambalpur.
13	0	0	0	1	1	15	1	0	S 42° W	S 69° W	2·9	1·2	+1·7	53	+ 2	43	—20	·344	—·123	1·7	—0·1	1	2·0	− 1·0	0·20	0·95	− 0·75	0·31	3·56	− 3·25	0·20	Chaibasa.
7	0	0	1	0	0	0	12	11	N 68° W	N 86° W	5·2	4·7	+0·5	69	+26	28	−17	·237	—·102	1·7	−0·1	0	2·7	− 2·7	0·01	1·30	− 1·29	0·43	3·85	− 3·42	0·01	Ranchi.
11	1	0	0	0	0	0	6	13	N 56° W		2·0			58		32	—23	·277	—·160	1·3	−0·4	0	2·0	− 2·0	0	0·96	− 0·96	0·16	3·62	− 3·46	0	Purulia.
23	1	0	2	3	1	1	0	0	S 45° E		2·2			13		49	− 9	·322	—·076	1·2	—0·3	0	1·5	− 1·5	0	0·58	− 0·58	1·45	2·93	− 1·48	0	Daltonganj.
1	2	7	2	1	0	10	3	5	N 65° W	N 45° E	2·8	2·9	−0·1	23	+19	65	− 3	·456	—·026	1·4	+0·1	0	1·1	− 1·1	0	0·54	− 0·54	0·49	1·69	− 1·20	0	Purnea.
5	0	2	2	2	2	9	8	1	S 51° W		4·4			42		43		·350		0·8		0			0			0·88			0	Monghyr.
19	0	0	4	0	0	3	5	0	S 56° W	S 82° W	1·7	3·3	—1·6	10	—14	59	− 4	·424	—·024	0·3	—0·9	0	1·2	− 1·2	0	0·48	− 0·48	0·56	1·58	− 1·02	0	Darbhanga.
9	2	0	5	2	2	6	5	0	S 27° W		2·5					57		·417		0·5		0			0			0·46			0	Pusa.
18	0	0	2	0	1	1	9	0	S 77° W	S 63° E		2·8		27	− 2	42	−10	·367	—·046	1·1	—0·6	0	1·1	− 1·1	0	0·46	− 0·46	0·85	1·87	− 1·02	0	Patna.
3	0	2	0	1	1	14	10	0	S 61° W		5·8			65		44	− 5	·337	—·038	2·0	+0·1	0	0·9	− 0·9	0	0·33	− 0·33	0·61	1·98	− 1·37	0	Buxar.
22	0	0	0	0	2	3	3	0	S 51° W	S 37° W	2·7	3·1	−0·4	23	−17	28	−27	·263	—·183	0·7	—1·4	0	1·2	− 1·2	0	0·46	− 0·46	0·61	2·15	− 1·54	0	Gaya.
28	0	0	0	0	0	0	1	2	N 59° W		1·7			7		34	−16	·308	—·105	0·2	—1·2	0	1·8	− 1·8	0	0·98	− 0·98	0·24	2·39	− 2·15	0	Naya Dumka.
																																V.—United Provinces of Agra and Oudh.
8	0	1	6	0	0	1	15	0	W	N 72° W	3·0	2·3	+0·7	29	− 7	49	− 8	·358	—·055	0·1	—1·6	0	0·7	− 0·7	0	0·36	− 0·36	0·95	1·80	− 0·85	0	Gorakhpur.
7	0	0	0	0	1	17	5	1	S 55° W	S 54° W	2·7	3·4	−0·7	69	+22	44	−12	·359	—·060	1·5	—0·4	0	0·7	− 0·7	0	0·28	− 0·28	0·87	1·95	− 1·08	0	Benares.
8	0	0	0	0	0	2	17	4	N 86° W	S 85° W	3·3	3·7	−0·4	69	+30	34	−13	·275	—·089	2·4	+0·3	0	0·6	− 0·6	0	0·22	− 0·22	1·01	1·81	− 0·80	0	Allahabad.
7	0	0	0	0	2	5	15	2	S 79° W	S 89° W	2·6	3·1	−0·5	66	+30	38	−16	·299	—·052	0·3	—0·9	0	0·6	− 0·6	0	0·23	− 0·23	0·41	1·69	− 1·28	0	Cawnpore.
13	0	0	0	0	0	0	17	1	N 88° W	N 80° W	1·5	2·8	−1·3	59	+16	27	−14	·321	—·046	1·0	—1·0	0	0·8	− 0·8	0	0·29	− 0·29	1·49	2·05	− 0·56	0	Lucknow.
5	1	1	3	0	1	4	10	6	N 81° W	N 51° W	2·3	2·6	−0·3	43	+15	49	−13	·343	—·091	0·4	—1·1	0	0·6	− 0·6	0	0·36	− 0·36	0·81	2·56	− 1·75	0	Bahraich.
3	0	1	0	0	0	20	6	1	S 58° W	S 81° W	4·0	2·2	+1·8	79	+47	21	−22	·172	—·177?	0·5	−0·6	0	0·8	− 0·8	0	0·27	− 0·27	0·54	1·67	− 1·13	0	Jhansi.
10	0	0	0	0	5	10	5	4	S 48° W	N 66° W	3·1	3·5	− 0·4	56	+13	28	−20	·258	—·078	2·1	−0·1	0	0·9	− 0·9	0	0·26	− 0·26	0·64	1·50	− 0·86	0	Agra.
4	2	2	0	0	0	6	10	7	N 77° W	N 63° W	2·3	1·8	+0·5	59	+27	38	−14	·292	—·057	1·7	—0·6	0	0·4	− 0·4	0	0·12	− 0·12	1·00	1·96	− 0·96	0	Mainpuri.
13	0	0	1	0	0	3	12	2	S 87° W	N 43° W	2·3	2·7	−0·4	49	+13	61	+ 1?	·437	+·058?	3·2	+0·9?	0	1·2	− 1·2	0	0·62	− 0·62	1·17	2·82	− 1·65	0	Bareilly.
14	0	0	0	5	0	0	0	12	N 45° W	N 41° W	3·1	2·2	+0·9	27	+12	48	−14	·298	—·050	1·6	—0·7	0	1·4	− 1·4	0·03	0·72	− 0·69	0·94	4·43	− 3·49	0·03	Roorkee.
																																VI.—Punjab.
3	2	2	1	1	0	0	12	10	N 59° W	N 87° W	3·7	2·8	+0·9	62	+12	34	−17	·258	—·070	0·9	—1·6	0	1·3	− 1·3	0	0·47	− 0·47	1·55	2·63	− 1·12	0	Delhi.
2	4	0	1	0	4	12	4	3	S 65° W	N 24° W	4·4	3·4	+1·0	46	+42	36	−22	·253	—·104	2·7	·0	0	0·7	− 0·7	0·06	0·35	− 0·29	0·41	1·67	− 1·26	0·04	Hissar.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	VI.—Punjab—*concld.*																						
	Patiala	*818*	29·032	—·047	29·847	29·130	1st	28·888	30th	·242	67·0	88·7	+6·0	60·8	+4·1	74·7	+5·1	27·9	96·4	26th	49·8	2nd	46·6
	Ambala	892	28·954	—·040	29·841	29·041	6th	28·798	30th	·243	67·6	91·7	+8·6P	60·0	+4·0	75·9	+6·3P	31·7	99·7	16th & 28th	49·3	3rd	50·4
	Ludhiana	812	29·055	—·026	29·863	29·165	1st	28·930	30th	·235	66·0	89·5	+6·2	60·6	+3·6	75·0	+4·9	28·9	97·1	29th	48·4	1st	48·7
	Lahore	702	29·168	—·024	29·865	29·282	1st	29·044	19th	·238	66·3	89·6	+5·7	58·0	+3·5	73·8	+4·6	31·6	96·8	15th, 16th & 26th.	46·4	2nd	50·4
	Sialkot	830	29·038	—·032	29·873	29·148	1st	28·899	30th	·247	63·9	87·4	+6·4	54·4	—0·8P	70·9	+2·8P	33·0	95·1	15th, 16th & 26th.	42·6	2nd	52·5
	Rawalpindi	1,674	28·212	—·028	29·910	28·315	6th	28·074	30th	·241	61·7	81·8	+6·5	52·7	+2·2	67·2	+4·3	29·1	91·2	16th	40·0	1st	51·2
12	Khushab	612	29·283	—·027	29·884	29·404	1st	29·151	30th	·253	71·3	89·0	+8·5	66·7*	+5·4*	79·0*	+6·9	22·3	96·4	15th	57·8	30th	38·6
	Lyallpur	605	29·269		29·868	29·401	1st	29·144	30th	·257	64·4	87·2		54·8		71·0		32·4	94·5	18th	45·0	1st	49·5
	Montgomery	558	29·322	—·034	29·868	29·468	1st	29·191	19th	·277	67·9	90·6	+6·2	60·2	+4·5	75·4	+5·3	30·4	99·2	15th	50·3	21st	48·9
	Multan	426	29·471	—·033	29·877	29·629	1st	29·356	19th	·273	68·4	92·3	+6·5	62·0	+3·8	77·2	+5·1	30·3	99·3	25th	53·8	21st	45·5
	VII.—North-West Frontier Province.																						
14	Peshawar	1,113	28·800	—·043	29·935	28·917	1st	28·665	19th	·252	61·2	82·2	+7·2	54·0	+2·3	68·1	+4·7	28·2	91·2	14th	44·0	1st	47·2
	Dera Ismail Khan	590	29·300	—·060	29·884	29·413	1st	29·175	19th	·268	66·1	87·6	+5·4	53·3	+3·2	72·9	+4·3	29·3	94·1	16th	49·3	1st & 2nd	44·8
	VIII.—Sind.																						
16	Jacobabad	186	29·726	—·017	29·876	29·909	1st	29·566	31st	·343	72·6	96·7	+6·0	62·5	+2·8	79·6	+4·4	34·2	105·5	24th	52·8	5th	52·7
	Hyderabad	96	29·819	—·029	29·869	29·993	1st	29·673	30th	·320	72·9	97·3	+4·7	64·9	+0·9	81·1	+2·8	32·4	104·9	25th	56·8	10th	48·1
	Karachi	13	29·948	—·006	29·912	30·100	1st	29·823	30th	·277	73·8	82·4	+0·6	69·6	+3·3	76·0	+1·9	12·8	88·0	20th	61·4	1st	26·6
	IX.—Rajputana.																						
17	Bikaner	*771*	29·119	—·020	29·868	29·273	1s	28·994	30th	·279	73·2	95·6	+6·9	66·0	+2·2	80·8	+4·5	29·6	104·0	25th	56·9	1st & 22nd	47·1
	Jodhpur	780	29·131	—·021	29·883	29·395	1st	28·992	30th	·313	74·4	96·4	+5·3	66·1	+3·2	81·3	+4·3	30·3	103·5	25th	55·0	1st	48·5
18	Jaipur	1,431	28·462	—·038	29·865	28·601	1st	28·343	30th	·258	73·3	95·2	+5·8	62·4	+1·7	78·8	+3·7	32·8	101·5	16th & 25th.	51·6	1st	49·9
	Ajmer	1,611	28·306	—·021	29·894	28·442	1st	28·177	30th	·265	70·1	92·9	+4·3	64·0	+3·7	78·5	+4·0	28·9	99·2	25th	52·4	1st	46·8
	Kotah	832	29·077	—·027	29·870	29·234	1st	28·943	30th	·291	79·6	97·6	+4·6	69·6	+3·6	83·6	+4·1	28·0	106·2	26th	60·2	1st	46·0
	X.—Bombay.																						
19	Deesa	466	29·476	—·004	29·902	29·630	1st	29·375	30th	·255	77·5	102·0	+6·1	66·7	+3·3	84·4	+4·7	35·3	109·5	14th	55·7	2nd	53·8
	Bhuj	334	29·612	—·013	29·902	29·755	1st	29·512	30th	·243	76·6	96·6	+3·5	65·1	−0·1	80·9	+1·7	31·5	103·0	16th	56·7	1st	46·3
	Jamnagar	61	29·896	—·025	29·903	30·032	1st	29·816	31st	·216	76·4	94·0	+4·1	64·8‡	+1·1	79·3‡	+2·6	29·2	101·9	16th & 17th	57·3	1st	44·6
	Dwarka	37	29·935	—·020	29·918	30·069	1st	29·658	31st	·211	75·6	83·5	+2·0	72·3	+2·4	77·9	+2·2	11·2	93·3	16th	64·7	1st & 2nd	33·6
	Rajkot	429	29·516	—·020	29·901	29·641	1st	29·443	31st	·198	74·8	98·4	+3·2	64·3	+2·3	81·4	+2·7	34·1	104·6	16th & 17th	57·5	2nd	47·1
	Veraval	*18*	29·929	—·020	29·890	30·026	1st	29·866	12th	·160	75·4	88·5	+2·9	68·7	+3·6	78·6	+3·3	19·8	99·7	15th	63·3	20th	36·4
	Bhavnagar Para	55	29·892	—·022	29·894	30·027	1st	29·820	31st	·207	77·6	93·8	+4·8	68·5	+2·5	84·1	+3·7	31·3	105·8	18th	59·8	1st & 2nd	46·0
	Surat †	39	29·912	—·016	29·894	30·016	1st	29·845	31st	·171	77·9	99·0	+2·7	68·8	+2·6	83·9	+2·7	30·2	107·1	25th	62·3	2nd	44·8
	Ahmadabad	163	29·787	—·011	29·900	29·940	1st	29·709	30th	·231	79·3	102·2	+5·3	70·4P	+2·9P	86·3P	+4·1P	31·8P	109·6	15th & 17th	62·7	20th	46·9
25	Bombay	37	29·908	—·021	29·885	29·985	27th	29·848	31st	·137	78·2	87·8	+1·9	74·9	+1·7	81·2	+1·8	12·7	94·1	3rd	69·3	1st	24·8
	Ratnagiri	207	29·728	—·015	29·876	29·802	27th	29·655	31st	·147	79·9	87·3	—0·1	73·9	+1·8	80·6	+0·9	13·4	90·7	5th	69·1	1st & 4th	21·6
	Marmagao	*60*	29·882	—·014	29·876	29·947	27th	29·810	31st	·137	79·9	88·5	+1·7	76·0	+1·1	82·3	+1·4	12·5	90·8	26th	72·0	1st	18·8
	Karwar	44	29·915	+·002	29·894	29·976	27th	29·849	31st	·127	76·4	87·9	+0·4	73·7	+1·3	80·8	+0·9	14·2	90·5	16th	70·0	1st	20·5

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 7 days.
† " 27 "
‡ " 30 "

B—*continued.*

at 213 stations in India, etc., in March, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1915 to 31st March, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																VI.—Punjab—*concld.*
3	8	0	2	1	0	0	6	11	N 36° W		5·2			61		58	— 5?	·333	—·005	1·1	—2·0	0	1·8	—1·8	0	1·01	—1·01	1·04	4·16	—3·12	0	Patiala.
5	17	0	3	0	0	0	3	3	N 6° W	N 37° W	4·5	2·3	+2·2	62	+38	45	—20	·301	—·073	2·3	—0·5	0	1·6	—1·6	0·07	0·81	—0·74	1·10	5·15	—4·05	0·07	Ambala.
23	0	2	0	1	1	0	1	3	N 31° W	N 31° W	1·8	1·6	+0·2	7	—15	47	—15	·298	—·061	1·0	—2·3	1	2·0	—1·0	0·17	0·97	—0·80	1·61	4·82	—3·21	0·17	Ludhiana.
11	5	3	1	2	0	0	2	7	N 13° W	N 10° W	2·0	2·1	—0·1	37	+19	53	—13	·347	—·026	2·8	—0·8	1	1·8	—0·8	0·23	0·76	—0·53	0·86	3·21	—2·35	0·10	Lahore.
11	6	3	1	1	0	2	3	4	N 21° W	N 7° E	1·8	1·5	+0·3	30	+ 1	61	— 7	·356	—·020	2·7	—0·1	3	3·0	0	0·45	1·35	—0·90	1·89	6·05	—4·16	0·20	Sialkot.
8	2	4	1	1	0	3	8	4	N 60° W	N 39° W	3·7	2·1	+1·6	30	+ 4	55	—15	·301	—·031	4·5	+0·2	3	4·5	—1·5	4·46	2·06	+2·40	6·93	7·99	—1·06	3·21	Rawalpindi.
8	3	10	3	1	2	4	0	0	N 60° E	N 22° E	4·5	3·7	+0·8	30	+ 8	33	—24?	·250	—·031?	2·1	—1·1	2	2·5	—0·5	0·40	1·03	—0·63	0·60	3·12	—2·52	0·24	Khushab.
12	1	9	1	3	1	1	0	3	N 49° E		1·5			30		61		·367		2·6		2	2·1	—0·1	0·28	0·57	—0·29	1·24	1·89	—0·65	0·14	Lyallpur.
5	8	4	5	2	2	1	2	2	N 32° E	N 53° E	3·4	3·9	—0·5	33	+11	48	— 3	·328	+·014	2·4	—0·7	0	1·5	—1·5	0	0·46	—0·46	0·51	1·89	—1·38	0	Montgomery.
19	5	4	0	0	0	0	0	3	N 4° E	N 50° E	0·9	1·4	—0·5	33	+ 8	51	— 7	·356	0	2·5	—0·2	1	1·0	0	0·30	0·38	—0·08	0·43	1·42	—0·99	0·30	Multan.
																																VII.—North-West Frontier Province.
21	0	0	0	2	4	2	1	1	S 15° W	S 27° W	1·5	2·6	—1·1	20	— 5	58	—13	·318	—·033	3·1	—1·4	3	4·3	—1·3	1·33	2·13	—0·80	3·81	5·57	—1·76	0·63	Peshawar.
20	0	2	2	0	0	0	1	6	N 19° W	N 13° W	1·6	1·5	+0·1	20	—12	52	—13	·335	—·031	3·9	+0·4	0	2·2	—2·2	0·03	0·98	—0·95	0·63	2·42	—1·79	0·02	Dera Ismail Khan.
																																VIII.—Sind.
15	3	0	8	0	1	1	0	3	N 57° E	N 83° E	1·9	2·8	—0·9	20	— 5	41	— 4	·338	+·022	2·1	—0·6	0	0·7	—0·7	0·05	0·23	—0·18	0·05	1·01	—0·96	0·05	Jacobabad.
6	4	0	0	1	6	11	1	2	S 46° W	S 63° W	3·9	6·1	—2·2	43	+15	52	+ 2	·422	+·037	0·8	—1·3	0	0·5	—0·5	0	0·18	—0·18	0	0·75	—0·75	0	Hyderabad.
0	6	2	0	0	0	2	13	8	N 58° W	N 32° W	9·0	8·3	+0·7	72	+36	77	+10	·644	+·123	3·9	+1·6	0	0·5	—0·5	0	0·22	—0·22	0·20	1·38	—1·18	0	Karachi.
																																IX.—Rajputana.
13	0	0	4	3	2	7	2	0	S 5° W	S 46° W	3·2	3·9	—0·7	30	+19	34	— 9	·282	—·021	1·1	—1·7	0	0·6	—0·6	0·06	0·22	—0·16	0·13	1·02	—0·89	0·04	Bikaner.
15	1	5	1	0	2	7	0	0	S 10° W		3·0			8		29	— 4	·253	+·010	2·4	—0·2	0	0·2	—0·2	0	0·06	—0·06	0	0·59	—0·59	0	Jodhpur.
12	4	6	0	0	0	0	1	3	N 10° W	N 29° W	3·9	3·3	+0·6	46	+ 6	29	—13	·236	—·073	2·0	—0·7	0	0·7	—0·7	0	0·32	—0·32	0·24	1·29	—1·05	0	Jaipur.
23	1	1	0	0	0	2	3	1	N 77° W	S 63° W	3·2	3·0	+0·2	13	+ 2	32	—17	·235	—·100	1·3	—1·1	0	0·7	—0·7	0	0·18	—0·18	0·05	1·13	—1·08	0	Ajmer.
15	0	1	0	1	2	3	5	4	S 81° W		2·5			30		24	—10	·241	—·043	1·8	+0·6	0	0·2	—0·2	0	0·08	—0·08	0·03	0·84	—0·81	0	Kotah.
																																X.—Bombay.
2	4	9	5	1	1	2	3	4	N 28° E	N 7° W	6·1	6·3	—0·2	37	+ 5	35	— 3	·325	+·008	2·3	+0·5	0	0·1	—0·1	0	0·04	—0·04	0	0·39	—0·39	0	Deesa.
12	4	0	0	0	0	0	14	1	N 72° W	N 60° W	4·3	6·4	—2·1	53	—12	50	—10	·456	—·043	1·2	—0·7	0	0·2	—0·2	0	0·07	—0·07	0	0·35	—0·35	0	Bhuj.
6	2	2	2	1	1	7	8	2	S 80° W		5·8			33		70	+ 1	·638	+·078?	1·5	+0·2	0	0·2	—0·2	0	0·17	—0·17	0	0·42	—0·42	0	Jamnagar.
2	10	1	0	0	0	0	8	10	N 39° W		9·3			72		79	+ 4	·693	+·032	3·0	+0·8	0	0·3	—0·3	0	0·06	—0·06	0·19	0·68	—0·49	0	Dwarka.
2	7	2	3	0	0	0	10	7	N 38° W	N 25° W	6·8	5·6	+1·2	56	+ 2	52	—10	·445	—·054	3·0	+1·6	0	0·1	—0·1	0	0·05	—0·05	0	0·27	—0·27	0	Rajkot.
5	9	3	0	0	0	0	3	11	N 25° W	N 13° W	7·0	5·6	+1·4	69	+ 4	57	— 7	·497	—·023	2·0	+0·5	0	0·1	—0·1	0	0·03	—0·03	0	0·19	—0·19	0	Veraval.
3	3	0	0	0	0	0	3	22	N 45° W	N 85° W	5·1	6·3	—1·2	84	+19	60	+ 8?	·576	+·140?	2·8	+1·4	0	0·2	—0·2	0	0·11	—0·11	0·01	0·37	—0·36	0	Bhavnagar Para.
11	5	3	1	3	2	1	0	1	N 51° E	N 46° W	†2·3	4·5	—2·2	17	—19	58	— 3	·546	+·005	1·9	+0·8	0	0·1	—0·1	0	0·02	—0·02	0	0·22	—0·22	0	Surat.
9	2	9	1	0	0	0	0	10	N 1° E	N 1° E	3·7	3·4	+0·3	49	+15	33	—10	·322	—·052	2·7	+0·9	0	0·2	—0·2	0	0·06	—0·06	0	0·24	—0·24	0	Ahmadabad.
1	5	5	7	8	2	1	0	2	N 84° E	N 40° E	5·8	8·0	—2·2	46	— 8	48	—28	·749	+·057	1·5	—0·3	0	0·1	—0·1	0	0·02	—0·02	0	0·21	—0·21	0	Bombay.
0	5	4	0	13	5	2	0	2	S 55° E	N 22° E	6·7	6·1	+0·6	37	+15	99	0	·699	+·033	1·5	+0·3	0	0·1	—0·1	0	0·05	—0·05	0	0·28	—0·28	0	Ratnagiri.
1	3	5	9	7	2	1	0	3	N 86° E	N 72° E	5·7	6·6	—0·9	49	+24	84	+ 5	·848	+·060	3·9	+1·7	0	0	0	0	0	0	0	0·23	—0·23	0	Marmagao.
29	1	0	0	0	1	0	0	0	Calm	N 43° E	1·3	3·4	—2·1	(a)		87	+ 5	·790	+·069	1·1	—0·3	0	0	0	0	0	0	0	0·26	—0·26	0	Karwar.

† Mean of 26 days. (a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	X.—Bombay *—concld.*																						
26	Malegaon	1,430	28·514	−·001	29·893	28·623	1st	28·422	31st	·201	77·6	102·0	+4·5	64·6	+1·5	83·3	+2·9	37·4	109·0	26th	53·6	2nd	55·4
	Ahmadnagar	2,154	27·807	0	29·867	27·912	1st	27·733	31st	·179	78·2	97·4	+2·8	63·8	+1·1	80·6	+1·9	33·6	102·6	18th	53·3	3rd	49·3
	Poona	1,846	28·114	+·003	29·[illegible]	28·212	1st	28·043	31st	·169	75·0	98·6	+1·1	63·8	+0·6	81·2	+0·9	34·8	102·8	25th	54·5	3rd	48·3
	Sholapur	1,590	28·339	−·009	29·862	28·422	1st	28·236	31st	·156	78·5	99·9	−0·1	68·9	−0·3	84·4	−0·2	31·0	103·8	18th, 24th & 30th.	60·1	3rd	43·7
	Bijapur	*1,948*	27·991	−·006	29·852	28·066	1st	27·917	31st	·149	79·1	98·0	+0·9	69·9	−0·3	83·9	+0·3	28·1	101·3	24th & 29th.	60·5	4th	39·8
	Belgaum	2,562	27·420	+·008	29·679	27·479	1st	27·351	31st	·128	75·0	94·5	+0·8	63·3	−0·6	78·9	+0·1	31·2	98·3	30th & 31st.	59·0	7th	39·3
	XI.—Central India.																						
20	Neemuch	1,626	28·314	−·006	29·889	28·454	1st	28·192	30th	·262	76·8	95·3	+4·3	63·9*	+2·7*	79·9*	+3·5	31·4	102·5	26th	51·6	2nd	50·9
	Indore	1,823	28·118	−·005	29·873	28·249	1st	28·029	30th	·220	79·0	97·0	+4·7	62·4	+2·0	79·7	+3·3	34·6	103·1	26th & 27th.	49·7	2nd	53·4
21	Nowgong	754	29·144	−·076	29·873	29·275	1st	29·020	30th	·255	70·7	95·6	+3·0	60·9	+0·4	78·2	+2·1	34·7	102·6	26th	51·0	3rd	51·6
	Sutna	1,041	28·852	−·021	29·867	28·960	1st	28·713	30th	·247	71·5	93·7	+2·9	62·1	+0·7	77·9	+1·8	31·6	101·8	19th	51·0	2nd	50·8
	XII.—Central Provinces.																						
22	Buldana	2,134									80·3	95·5	+2·0	71·1	+1·3	83·3	+1·7	24·4	100·7	18th	62·5	2nd	38·2
	Akola	945	29·002	−·009	29·880	29·134	1st	28·917	30th	·217	78·7	101·7	+2·7	65·5	−0·4	83·6	+1·1	36·2	107·3	27th	51·5	2nd	55·8
	Amraoti	1,215	28·709	−·005	29·871	28·835	1st	28·624	31st	·211	79·7	100·1	+2·2	70·6	+1·5	85·3	+1·9	29·5	105·4	18th	58·9	3rd	46·5
23	Khandwa	1,041	28·882	−·010	29·894	29·023	1st	28·793	30th	·230	72·9	100·3	+2·9	64·6	−0·3	82·4	+1·3	35·7	107·4	26th	52·3	2nd	55·1
	Hoshangabad	1,006	28·935	+·003	29·90[illegible]	29·085	1st	28·832	26th & 31st.	·253	75·6	97·3	+2·1	63·4	−0·8	80·4	+0·7	33·9	109·4	17th	51·4	2nd	58·0
	Saugor	1,807	28·114	−·017	29·861	28·222	1st	27·993	30th	·229	77·3	94·4	+3·1	68·8	+4·1?	81·6	+3·6?	25·6	101·8	26th	58·3	1st	43·5
	Jubbulpore	1,327	28·580	−·012	29·880	28·701	1st	28·461	30th	·240	70·2	94·0	+1·6	60·0	−0·5	77·0	+0·5	34·0	102·9	27th	47·3	2nd	55·6
	Seoni	2,033	27·910	+·006	29·876	28·000	1st	27·808	30th & 31st.	·192	76·2	94·0	+1·2	62·3	−0·5	78·1	+0·3	31·7	100·5	18th	50·5	2nd	50·0
	Nagpur	1,017	28·904	−·004	29·874	29·021	1st	28·795	31st	·226	77·8	99·1	+1·2	66·7	−0·8	82·9	+0·2	32·4	105·1	19th	56·7	4th	48·4
24	Pendra	2,040	27·882	−·018	29·858	27·970	11th	27·755	30th	·215	75·7	92·1	+4·6	65·6	+3·5?	78·9	+4·1?	26·5	99·1	27th	56·6	2nd & 3rd.	42·5
	Raipur	970	28·931	−·024	29·860	29·060	1st	28·809	30th	·251	75·2	97·3	+1·6	68·0	−0·2	82·6	+0·7	29·3	104·3	29th	56·8	3rd	47·5
	Chanda	*634*	29·281	−·018	29·838	29·406	1st	29·188	31st	·218	78·4	101·1	+1·5	65·0	−2·1?	83·0	−0·3?	36·1	106·3	18th	51·4	3rd	54·9
	Jagdalpur	1,813	28·128		29·884	28·211	1st	28·025	30th	·186	73·9	96·8		62·0		79·4		34·8	102·6	31st	51·1	3rd	51·5
	XIII.—Hyderabad.																						
27	Aurangabad	1,905	28·152	−·003	29·869	28·162	1st	27·972	31st	·190	80·8	98·0	+1·6	67·4	−1·8	82·7	+1·7	30·6	102·8	18th	57·3	4th	45·5
	Nizamabad	1,248	28·679	−·036?	29·870	28·779	1st	28·598	31st	·181	79·7	100·4	+2·3	67·3	−1·0	83·9	+0·7	33·1	106·0	27th	55·8	2nd	50·2
	Bidar	*2,165*									82·8	95·9	+0·8	70·9	+0·2	83·4	+0·5	25·0	100·5	19th	62·4	4th	33·1
28	Gulbarga	1,503	28·425	−·010	29·859	28·514	1st	28·334	31st	·180	79·2	101·2	+1·8	69·8	−1·0	85·5	+0·4	31·4	106·0	29th & 31st.	52·3	3rd	46·7
	Raichur	*1,311*	28·622	+·021	29·864	28·687	1st	28·523	31st	·164	81·5	99·7	+1·1	73·7	−0·5	86·7	+0·4	26·0	106·0	30th	66·5	3rd	39·5
	Hyderabad (Deccan)	1,719	28·198	−·002	29·866	28·276	1st	28·116	31st	·160	77·4	97·0	−0·1	70·2	+0·3	83·6	+0·1	26·7	103·8	31st	62·6	3rd	41·2
	Hanamkonda	877	29·056	−·004	29·883	29·142	1st	28·955	30th	·187	78·5	98·8	+1·3	71·5	−0·4	85·1	+0·5	27·3	104·0	31st	65·2	2nd	38·8
	XIV.—Mysore.																						
29	Chitaldrug	2,405	27·569	+·008	29·862	27·623	27th	27·483	31st	·140	77·6	95·5	+0·8	70·5	+0·3	83·0	+0·5	25·0	98·9	30th	63·9	13th	35·0
	Hassan	3,149	26·863	0	29·875	26·912	17th	26·797	31st	·115	72·0	92·3	+1·1	63·6	+1·5	77·9	+1·3	28·7	95·3	29th	57·7	11th	37·6
	Bangalore	3,021	26·987	−·005	29·871	27·047	27th	26·934	31st	·113	73·3	92·8	+1·8	64·9	+0·2	78·9	+1·0	27·9	97·5	31st	56·8	11th	40·7
	Mysore	2,518	27·463	−·008	29·871	27·523	27th	27·394	31st	·129	75·2	94·0	+0·3	67·3	0	80·7	+0·1	26·7	98·0	30th	59·5	11th	38·5

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 27 days.

B—*continued.*

at 213 stations in India, etc., in March, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1915 to 31st March, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																X.—Bombay—*concld.*
13	0	0	0	0	3	8	2	5	S 66° W	N 66° W	3·9	5·6	−1·7	40	−25	29	−13	·277	−·096	2·3	+0·9	0	0·2	−0·2	0	0·04	−0·04	0·01	0·46	−0·45	0	Malegaon.
5	2	1	0	3	3	1	8	8	N 78° W	N 1° W	4·5	6·6	−2·1	37	−13	22	−24	·215	−·201	1·2	+0·4	0	0·3	−0·3	0	0·18	−0·18	2·70	0·95	+1·75	0	Ahmadnagar.
0	0	0	0	0	0	26	5	0	S 52° W	S 87° W	6·0	6·2	−0·2	96	+63	52	+11?	·424	+·097?	0	−1·1	0	0·2	−0·2	0	0·04	−0·04	0	0·34	−0·34	0	Poona.
2	1	1	1	12	1	1	3	9	S 3° E	N 14° E	6·3	5·8	+0·5	7	−15	27	− 6	·287	−·059	0·6	−0·7	0	0·4	−0·4	0	0·20	−0·20	0·38	0·82	−0·44	0	Sholapur.
0	5	2	0	2	10	5	1	6	S 51° W	N 84° W	3·5	3·6	−0·1	27	−13	30	−20?	·305	−·185?	0·2	−0·9	0	0·9	−0·9	0	0·31	−0·31	0·04	0·66	−0·62	0	Bijapur.
25	0	1	4	1	0	0	0	0	E	N 8° E	6·2	8·2	−2·0	17	+ 6	50	+ 4	·422	+·034	0·5	−0·6	0	0·8	−0·8	0·02	0·34	−0·32	0·78	0·81	−0·03	0·02	Belgaum.
																																XI.—Central India.
5	7	1	8	1	2	1	5	1	N 31° E	S 34° E	4·0	5·7	−1·7	20	− 5	29	− 9	·272	−·029	2·2	+0·5	0	0·2	−0·2	0	0·08	−0·08	0·08	0·65	−0·57	0	Neemuch.
7	1	6	6	3	1	9	6	1	N 63° E	N 7° W	3·3	2·5	+0·8	23	− 6	26	−14	·259	−·067	1·8	+0·2	0	0·1	−0·1	0·01	0·04	−0·03	1·03	0·60	+0·43	0·01	Indore.
5	0	1	0	2	10	3	7	3	S 40° W	S 80° W	2·1	1·8	+0·3	46	+ 3	42	− 7	·318	−·033	2·8	+0·4	0	0·7	−0·7	0	0·27	−0·27	0·42	1·97	−1·55	0	Nowgong.
2	0	1	2	0	5	8	10	3	S 63° W	N 54° W	3·1	3·9	−0·8	56	− 1	37	− 4	·282	−·028	1·3	−0·9	0	1·0	−1·0	0	0·39	−0·39	1·53	2·50	−0·97	0	Satna.
																																XII.—Central Provinces.
0	1	1	2	1	3	4	8	11	N 79° W		5·1	5·4	−0·3	48		24		·251		1·7		0	0·5	−0·5	0	0·19	−0·19	2·71	1·28	+1·43	0	Buldana.
12	0	2	2	3	1	0	8	3	N 85° W	N 45° W	3·3	3·5	−0·2	15	+ 4	19	−14	·186	−·112	2·4	+0·9	0	0·7	−0·7	0	0·35	−0·35	1·49	1·61	−0·12	0	Akola.
11	2	4	5	1	2	2	4	0	N 77° E	N 72° E	3·9	3·5	+0·4	10	−12	21	−18	·213	−·153	2·2	+0·8	0	0·8	−0·8	0	0·30	−0·30	1·02	1·53	−0·51	0	Amraoti.
29	0	0	0	0	0	0	0	2	N 45° W	N 40° W	4·1	3·7	+0·4	3	−26	28	− 6	·225	−·060	1·0	−0·2	0	0·4	−0·4	0	0·12	−0·12	0·82	0·77	+0·05	0	Khandwa.
13	0	8	2	1	0	7	0	0	E	N 63° E	1·0	1·9	−0·9	11	−14	29	−15	·245	−·109	1·7	+0·2	0	0·4	−0·4	0	0·20	−0·20	1·47	1·32	+0·15	0	Hoshangabad.
4	1	1	1	6	6	3	7	2	S 27° W	S 69° E	3·8	3·1	+0·7	33	+15	17	−19	·164	−·125	1·5	+0·1	0	0·8	−0·8	0	0·31	−0·31	1·16	1·85	−0·69	0	Saugor.
0	0	0	4	17	6	2	2	0	S 33° E	S 23° E	1·6	2·0	−0·4	76	+47	36	−11	·256	−·038	1·6	0	0	1·1	−1·1	0	0·41	−0·41	1·02	2·16	−1·14	0	Jubbulpore.
16	4	3	0	0	1	2	0	5	N 21° W	N 37° E	2·6	2·3	+0·3	27	0	25	−18	·227	−·120	1·5	−0·2	0	1·8	−1·8	0·01	0·60	−0·59	1·21	2·52	−1·31	0·01	Seoni.
1	18	4	1	1	1	0	2	3	N 1° E	N 14° E	3·8	3·6	+0·2	68	+36	28	−11	·263	−·090	1·9	+0·1	0	1·2	−1·2	0·03	0·50	−0·47	1·28	1·83	−0·55	0·03	Nagpur.
18	4	1	0	1	1	0	1	5	N 26° W		4·4			27		27	−15	·235	−·077	1·2	−0·7	0	3·3	−3·3	0·09	1·44	−1·35	1·78	4·19	−2·41	0·09	Pendra.
12	1	2	1	0	1	4	6	4	N 81° W	N 59° W	2·7	3·6	−0·9	30	+19	34	− 8	·293	−·076	0·3	−1·6	0	1·6	−1·6	0	0·65	−0·65	0·92	1·77	−0·85	0	Raipur.
16	0	3	1	5	0	0	3	3	N 63° E	N 46° E	6·0	2·2	+3·8	3	−29	34	−10	·332	−·088	1·7	+0·3	0	1·3	−1·3	0	0·99	−0·99	0·22	2·01	−1·79	0	Chanda.
6	3	0	4	5	7	1	4	1	S 16° E		2·5			23		53		·438		0·9		0			0			0·04			0	Jagdalpur.
																																XIII.—Hyderabad.
6	3	4	5	4	0	3	3	3	N 48° E		6·2			13		22	− 9	·239	−·063	2·9	+1·1	0	0·5	−0·5	0·02	0·24	−0·22	1·20	0·97	+0·23	0·02	Aurangabad.
12	5	0	1	3	2	2	2	4	N 53° W		2·3			10		32	−19	·318	−·203	1·0	−0·3	0	1·0	−1·0	0	0·56	−0·56	0·15	1·22	−1·07	0	Nizamabad.
6	2	5	1	4	2	9	0	2	S 6° W		4·3			12		27	−24?	·307	−·210	0·9	−0·1	0	1·2	−1·2	0	0·44	−0·44	0·55	1·20	−0·65	0	Bidar.
9	4	6	3	4	2	2	1	0	N 75° E	N 79° E	4·7	5·8	−1·1	27	+ 6	34	−11	·242	−·122	0·2	−0·7	0	0·8	−0·8	0	0·39	−0·39	0·06	0·88	−0·82	0	Gulbarga.
0	0	3	7	6	3	7	0	5	S 37° E	S 3° W	6·3	5·3	+1·0	30	+ 2	51	+ 4	·553	+·063	0·6	−0·7	0	0·4	−0·4	0	0·27	−0·27	0	0·75	−0·75	0	Raichur.
21	1	0	0	0	0	2	6	1	N 88° W	S 47° E	2·6	3·1	−0·5	26	+14	56	+ 1	·515	+·011	1·4	0	0	1·0	−1·0	0	0·64	−0·64	0	1·28	−1·28	0	Hyderabad (Deccan).
1	1	0	0	14	14	0	0	1	S 22° E		3·0			79		55	− 8	·534	−·061	0·9	−1·1	0	0·5	−0·5	0	0·18	−0·18	0·04	1·05	−1·01	0	Hanamkonda.
																																XIV.—Mysore.
4	1	0	4	5	0	5	8	4	S 65° W	S 56° W	4·6	4·7	−0·1	23	−14	52	+ 2	·482	+·001	1·0	0	0	0·5	−0·5	0·03	0·21	−0·18	0·32	0·84	−0·52	0·03	Chitaldrug.
9	0	0	3	6	0	3	7	3	S 45° W	S 37° E	4·1	2·2	+1·9	19	− 4	66	+ 1	·522	−·010	1·9	−0·1	0	0·5	−0·5	0	0·24	−0·24	0·10	1·25	−1·15	0	Hassan.
1	0	3	6	3	7	4	6	1	S 4° E	S 12° E	5·9	3·6	+2·3	20	−20	60	− 4	·492	−·033	1·6	+0·2	0	0·9	−0·9	0	0·46	−0·46	0·29	1·40	−1·11	0	Bangalore.
8	0	1	2	0	2	9	6	3	S 64° W	S 39° W	4·8	5·8	−1·0	43	+ 5	67	− 2	·583	−·004	1·0	−1·6	0	0·5	−0·5	0	0·20	−0·20	0·36	0·94	−0·58	0	Mysore.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level, in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	XV.—Madras.																						
30	Mangalore	72	29·886	—·011	29·889	29·940	27th	29·814	31st	·126	82·4	90·5	+1·6	76·9	+2·8?	83·7	+2·2?	13·6	92·5	30th	74·2	12th	18·3
	Calicut	27	29·922	—·008	29·876	29·986	1st	29·843	31st	·143	82·2	89·7	—0·4	77·5	+1·6	83·6	+0·6	12·2	91·2	21st	74·4	7th	16·8
	Cochin	9	29·939	—·009	29·875	29·993	1st	29·871	31st	·122	82·3	91·7	+0·3	78·2	+1·0	84·9	+0·7	13·5	93·3	16th	74·9	6th	18·4
	Trivandrum	198	29·752	+·004	29·880	29·808	17th	29·694	30th	·114	80·9	90·0	+2·7?	77·0	+0·5	83·5	+1·6?	13·0	92·0	29th	74·9	6th	17·1
31	Pamban	37	29·918	—·006	29·883	29·971	1st	29·843	31st	·128	81·3	88·5	—1·0	78·5	+2·5	83·5	+0·7	10·0	91·7	31st	75·5	9th	16·2
	Madura	447	29·507	—·010	29·886	29·564	27th	29·428	31st	·136	81·6	94·4	—2·1?	76·8*	+2·1*	86·0*	0 ?	17·6	100·0	30th	73·8	28th	26·2
	Pudukkottai	318	29·855	—·005	29·906	29·705	27th	29·572	30th	·133	80·2	97·0	+1·3	73·9	+1·0	85·4	+1·1	23·1	103·0	30th	69·1	6th	33·9
	Negapatam	31	29·933	+·001	29·893	30·004	27th	29·854	30th	·150	80·9	88·7	—0·1	74·7	—1·2	81·7	—0·7	14·0	91·8	23rd	69·8	17th	22·0
	Trichinopoly	255	29·712	—·002	29·901	29·772	27th	29·618	30th	·155	81·1	98·1	+0·4	73·1	+0·4	85·6	+0·4	25·0	104·2	31st	68·6	1st & 6th	35·6
	Coimbatore	1,341	28·627	+·008	29·903	28·686	27th	28·551	31st	·135	77·1	97·3	+1·1	69·9	+0·1	83·6	+0·6	27·4	101·1	31st	64·1	11th	37·0
	Salem	913	29·050	+·005	29·897	29·111	27th	28·971	31st	·140	79·6	99·7	+1·0	70·5	—0·4	85·1	+0·3	29·2	104·0	30th & 31st	63·8	16th	40·2
	Cuddalore	37	29·924	—·004	29·894	29·991	27th	29·833	30th	·158	78·8	88·7	—0·6	71·6	—0·6	80·1	—0·6	17·1	92·5	30th	67·6	9th	24·9
	Vellore	707	29·251	—·009	29·904	29·311	27th	29·181	31st	·130	74·7	96·6	+2·3	66·9	—2·8?	81·8	—0·3?	29·7	103·7	30th & 31st	60·4	6th	43·3
	Madras	22	29·940	—·006	29·894	29·996	27th	29·844	30th	·152	79·2	90·1	+0·3	70·6	—1·6	80·3	—0·7	19·5	97·3	1st	65·9	8th, 9th & 10th	31·4
32	Cuddapah	428	29·497	—·011	29·862	29·552	27th	29·402	30th	·150	81·7	101·9	0	74·1	—0·7	88·0	—0·3	27·8	107·5	31st	67·4	10th	40·1
	Bellary	1,475	28·455	—·006	29·852	28·510	1st	28·347	31st	·163	82·6	100·6	+0·1	71·6	—0·6	86·1	—0·3	29·0	106·1	30th	62·7	14th	43·4
	Kurnool	923	29·016	+·013	29·884	29·070	1st	28·915	31st	·155	77·7	100·4	—0·4	70·0	—1·5	85·2	—0·9	30·4	106·7	31st	59·4	14th	47·3
33	Nellore	66	29·674	—·010	29·875	29·930	6th	29·767	30th	·163	76·9	93·8	—1·5	71·3	—1·2	82·5	—1·3	22·5	102·6	31st	67·6	7th	35·0
	Masulipatam	15	29·944	—·008	29·894	29·988	1st	29·821	30th	·167	78·8	90·6	—0·5	70·4	—2·0	80·5	—1·3	20·2	97·4	31st	65·4	13th	32·0
	Cocanada	26	29·935	—·006	29·898	29·993	1st	29·821	30th	·172	78·4	92·6	+0·6	72·5	—1·1	82·5	—0·3	20·1	101·6	17th	68·6	9th & 14th.	33·0
	Waltair (Vizagapatam).	*226*	29·722	—·005	29·891	29·793	1st	29·598	30th	·195	78·5	88·4	+1·4	73·0	—1·8	80·7	—0·2	15·4	93·0	30th	68·9	6th & 14th.	24·1
	Calingapatam	19	29·925		29·881	29·990	5th	29·772	30th	·218	76·6	90·3		71·3		81·0		19·5	101·0	17th	65·8	2nd	35·2
	Gopalpur	33	29·883	—·015	29·858	29·974	1st	29·748	30th	·226	75·6	87·2	+0·6	72·2	—0·8	79·7	—0·1	15·0	96·5	17th	64·7	2nd	31·8
	Bay Islands.																						
1	P. V. Fraser	8	29·902		29·863	29·983	1st	29·780	30th	·203	80·6												
	Port Blair	58	29·894	—·006	29·882	29·937	27th	29·855	15th & 16th.	·082	81·0	90·6	0	75·9	—0·5	83·3	—0·3	14·7	94·0	28th	71·7	13th	22·3
	Kashmir.																						
13	Muzaffarabad		27·568			27·700	1st	27·454	31st	·246	56·2	76·4		51·0?		63·7?		25·4?	87·0	14th	40·9	1st	46·1
	Srinagar	5,204	24·952	+·027	24·923	25·144	1st	24·716	19th	·428	44·6	61·3	+6·0	39·7	+2·4	50·8	+4·2	22·1	71·7	16th	29·1	1st	42·6
	Gulmarg	*8,569*																					
	Dras	*10,050*	20·862	+·087	20·830	21·094	1st	20·568	19th	·526	15·0	32·7	—0·9	7·3	+3·2	20·0	+1·1	25·4	40·9	19th	—28·3	1st	69·2
	Leh	*11,503*	19·747	+·081	19·715	19·945	14th	19·472	20th	·473	31·6	51·5	+7·2	23·5	+2·7	37·5	+4·9	28·0	59·6	16th	10·0	1st	49·6
	Skardu	*7,505*	22·953	+·067	22·923	23·248	1st	22·630	19th	·618	41·0	56·8	+6·8	36·6	+3·9	46·7	+5·3	20·2	65·8	16th	23·3	1st	42·5
	Gilgit	4,890	25·248	+·075	25·221	25·569	1st	24·912	19th	·657	53·8	67·4	+5·8	48·5	+3·5	58·0	+4·7	18·9	77·7	16th	36·2	1st	41·5

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 4 days.

NOTE.—The barometric readings are not reduced to sea level in the case of

B—*continued.*

at 213 stations in India, etc., in March, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1915 to 31st March, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																XV.—Madras.
2	3	10	13	2	1	0	0	0	N 70° E	N 70° E	4·5	2·2	+2·3	72	+32	74	+ 1	·814	+·050	1·5	-0·6	0	0·2	−0·2	0	0·10	− 0·10	0·02	0·68	− 0·66	0	Mangalore.
14	2	2	3	0	1	1	0	8	N 15° W	N 42° E	5·6	7·7	−2·1	23	−24	80	+ 4	·874	+·059	1·9	0	0	0·8	−0·8	0	0·57	− 0·57	0·27	2·25	− 1·98	0	Calicut.
1	0	9	18	3	0	0	0	0	N 81° E	N 31° E	5·8	5·0	+0·8	86	+11	76	− 1	·843	+·010	2·4	+0·2	3	2·9	+0·1	1·14	2·07	− 0·93	2·28	5·07	− 2·79	0·46	Cochin.
7	12	5	1	0	1	0	0	5	N 38° E	N 24° E	4·0	4·0	0	59	+12	76	0	·803	+·019	3·0	+0·7	3	2·6	+0·4	1·07	1·70	− 0·63	3·30	5·17	− 1·87	0·55	Trivandrum.
10	2	5	6	5	3	0	0	0	S 86° E	S 87° E	3·7	5·4	−1·7	43	−26	79	+ 2	·837	−·016	2·7	−0·1	2	1·3	+0·7	0·92	0·54	+ 0·38	8·84	11·04	− 2·20	0·80	Pamban.
1	6	9	8	3	0	0	0	4	N 46° E	N 28° E	4·0	2·8	+1·2	62	+12	71	− 3	·773	−·002	3·9	+1·2	0	0·8	−0·8	0	0·54	− 0·54	1·55	3·28	− 1·73	0	Madura.
5	4	9	2	1	3	3	2	2	N 27° E		3·8			23		74	− 1	·763	+·006	2·2	−1·9	1	1·4	−0·4	0·36	0·44	− 0·08	4·74	3·38	+ 1·36	0·36	Pudukkottai.
0	1	6	1	7	1	5	1	9	N 18° W	S 85° E	8·8	4·6	+4·2	7	−29	79	+ 4	·836	+·011	5·0	+1·0	0	0·7	−0·7	0	0·38	− 0·38	11·03	14·14	− 3·11	0	Negapatam.
0	4	14	1	0	3	3	3	3	N 18° E	N 31° E	3·0	2·8	+0·2	40	+18	70	− 3	·746	−·009	1·6	−1·0	0	0·6	−0·6	0	0·45	− 0·45	3·01	4·40	− 1·39	0	Trichinopoly.
12	4	10	2	0	1	2	0	0	N 42° E	N 84° E	1·9	2·1	−0·2	40	0	77	− 2	·718	−·005	2·0	−1·6	0	1·0	−1·0	0	0·44	− 0·44	0·67	2·56	− 1·89	0	Coimbatore.
18	0	2	8	0	0	0	3	0	N 78° E	N 66° E	3·8	3·9	−0·1	20	−20	75	+ 3	·759	+·029	0·7	−1·2	0	1·0	−1·0	0	0·52	− 0·52	0·42	2·28	− 1·86	0	Salem.
6	0	0	0	1	2	8	3	11	S 88° W	N 86° W	4·2	1·8	+2·4	53	+ 3	79	− 4	·769	−·078?	2·7	+0·4	0	0·3	−0·3	0	0·20	− 0·20	3·59	9·70	− 6·11	0	Cuddalore.
29	0	0	0	1	0	0	1	0	S 23° W		2·4			2		78	+ 2	·671	−·008	1·3	−0·5	0	0·3	−0·3	0	0·15	− 0·15	0·87	5·75	− 4·88	0	Vellore.
1	1	0	1	0	8	13	4	3	S 45° W	S 25° W	4·2	4·5	−0·3	66	+12	80	+ 1	·793	−·022	1·1	−1·3	0	0·4	−0·4	0	0·18	− 0·18	0·47	7·66	− 7·19	0	Madras.
0	2	0	7	10	3	1	1	7	S 62° E	S 72° E				27	−30	57	− 1	·615	−·044	0·4	−0·8	0	0·1	−0·1	0	0·05	− 0·05	0·12	1·59	− 1·47	0	Cuddapah.
8	1	0	0	2	8	4	4	4	S 44° W	S 45° W	3·1	3·4	−0·3	37	+26	52	+ 5	·580	+·088	0·7	−0·8	0	0·6	−0·6	0	0·19	− 0·19	0·01	0·50	− 0·49	0	Bellary.
15	0	2	3	3	2	3	1	2	S 31° E	E	3·2	4·7	−1·5	13	+ 2	45	− 8	·431	−·112?	1·5	+0·4	0	0·5	−0·5	0	0·28	− 0·28	0	0·85	− 0·85	0	Kurnool.
10	0	0	0	3	14	4	0	0	S 2° W	S 32° E	3·8	4·7	−0·9	62	− 6	83	+ 2	·763	−·045	0·9	−1·9	0	0·2	−0·2	0	0·11	− 0·11	0·42	4·77	− 4·35	0	Nellore.
6	4	6	3	5	4	2	1	0	S 85° E	S 20° E	4·3	4·0	+0·3	27	−16	81	− 2	·791	−·073	1·4	−2·1	0	0·3	−0·3	0	0·22	− 0·22	0	1·89	− 1·89	0	Masulipatam.
12	2	0	9	0	0	3	7	6	N 73° W	N 52° W	4·7	4·7	0	46	+ 3	77	0	·742	−·036	4·4	+1·6	0	0·8	−0·8	0	0·54	− 0·54	0·14	2·17	− 2·03	0	Cocanada.
2	0	0	1	1	1	16	10	0	S 57° W	S 88° W	5·5			76	+ 1	71	− 2	·678	−·053	2·4	−0·5	0	0·7	−0·7	0	0·35	− 0·35	0·23	3·13	− 2·90	0	Waltair (Vizagapatam).
3	2	0	0	0	1	6	12	7	N 85° W		5·8			68		78		·726		1·3		0	0·3	−0·3	0	0·17	− 0·17	1·71	3·51	− 1·80	0	Calingapatam.
0	7	0	0	0	8	8	0	8	S 85° W	S 89° W	9·2	10·1	−0·8	37	− 5	76	− 2	·676	−·064	0·6	−0·2	0	1·1	−1·1	0	0·57	− 0·57	0·27	2·24	− 1·97	0	Gopalpur.
																																Bay Islands.
0	0	0	0	0	1	21	8	1	S 58° W					90		82		·850		3·4		0			0			0·13			0	P. V. Fraser.
10	5	8	2	1	0	0	0	5	N 20° E	N 22° W	4·1	3·1	+1·0	46	+ 6	78	− 6	·825	−·030	2·6	−0·6	0	1·0	−1·0	0	0·77	− 0·77	12·52	9·60	+ 2·92	0	Port Blair.
																																Kashmir.
28	1	1	0	0	1	2	0	0	S 45° W		1·3			3		66		·299		3·3		5			3·58			14·73			2·48	Muzaffarabad.
14	3	1	0	5	2	0	2	4	N 31° W	S 3° W	2·7	3·5	−0·8	3	− 5	82†	− 6	·246†	+·016	5·3	−0·8	5	7·9	−2·9	1·53	3·52	− 1·99	5·23	10·70	− 5·47	0·78	Srinagar.
											Closed for the winter months.																					Gulmarg.
25	1	0	0	0	1	0	1	3	N 56° W		0·4			10		98*	P	·181*	P	2·0	−3·7	9	11·1	−2·1	3·27	3·82	− 0·55	9·84	10·65	− 0·81	0·65	Dras.
24	0	1	1	0	3	2	0	0	S 5° E	S 63° W	2·9	1·5	+1·4	12	− 8	59*	P	·133*	P	5·3	−1·0	0	1·1	−1·1	0·01	0·30	− 0·29	0·36	1·18	− 0·82	0·01	Leh.
17	0	0	1	0	1	4	7	1	S 72° W		3·5			30		54‡	−25	·146‡	−·028	5·7	−0·9	0	3·1	−3·1	0·16	0·87	− 0·71	0·62	2·60	− 1·98	0·07	Skardu.
24	0	0	1	0	0	6	0	0	S 37° W		0·8			17		45	− 3	·181	+·012	5·5	−1·3	2	1·8	+0·4	0·32	0·49	− 0·17	0·94	1·02	− 0·08	0·20	Gilgit.

hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 2 days.
† „ „ 30 „
‡ „ „ 25 „

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Baluchistan.																						
15	Fort Sandeman	4,614	25·439		25·408	25·548	1st	25·320	13th	·228	51·5	76·0		47·3		61·6		28·7	82·7	14th	38·9	1st	43·8
	Quetta	5,502	24·667	+·007	24·627	24·750	1st	24·545	3rd	·205	44·3	68·7	+5·0	39·2	0	53·9	+2·5	29·5	76·5	14th	30·3	5th	46·2
	Chaman	4,311	25·730	+·025	25·692	25·836	28th	25·585	3rd	·251	53·5	70·4	+7·3	47·8	+4·5	59·1	+5·9	22·6	81·8	14th	35·3	20th	46·5
	Kalat	6,880	23·779		23·741	23·847	1st	23·669	31st	·178	39·1	66·1	+2·7	35·4	+3·1	50·8	+2·9	30·7	73·0	14th, 23rd & 24th.	25·6	20th	47·4
	Dalbandin	2,772	27·165		27·128	27·298	28th	27·029	31st	·269	54·6	80·3		49·8		65·0		30·5	89·7	13th	40·8	20th	48·9
	Pasni		29·939		29·899	30·080	1st	29·819	30th	·261	65·3	87·2		60·2		73·7		27·0	95·8	24th	51·3	18th	44·5
	Panjgur		26·774		26·732	26·883	1st	26·642	31st	·241	55·2	81·1		52·5		66·8		28·6	89·3	23rd	42·8	3rd	46·5
	Robat		26·941		26·899	27·167	28th	26·791	13th	·376	55·7	75·1							85·4	13th			
	Seistan		(c) 28·251			28·450	28th	28·090	2nd & 13th.	·360	53·2	72·1		48·6		60·3		23·5	84·5	23rd	32·2	20th	45·3
	Hill stations, excluding Kashmir and Baluchistan.																						
	Para Chinar	6,000	24·483	+·019	24·439	24·564	14th	24·276	19th	·288	49·7	66·6	+8·5	42·5	+4·1	54·6	+6·3	24·1	75·0	13th	32·3	20th	42·7
	Cherat	*4,956*	25·749	+·031	25·717	25·850	6th	25·593	19th	·257	56·6	67·3	+6·8	51·9	+5·0	59·6	+5·9	15·4	78·3	16th	40·1	2nd	38·2
	Drosh		(c) 25·194			25·350	1st	24·925	19th	·425	46·5	52·3	—0·3	42·2	+3·9	50·7	+1·8	15·1	67·5	31st	38·2	6th	29·3
	Murree	6,333	23·868	+·033	23·836	23·968	14th	23·691	19th	·277	52·4	61·5	+4·4	43·2	+6·1	54·9	+5·3	18·3	71·2	15th	35·7	20th	35·5
	Simla	7,232	23·127	+·037	23·089	23·220	25th	22·986	21st	·234	53·9	61·0	+6·5	49·1	+5·2	55·0	+5·3	11·9	66·9	31st	41·3	21st	25·6
	Sarain		23·164	+·009	23·126	23·260	25th	23·033	19th	·227	42·8	63·1	+10·0	38·4	+5·2	50·7	+7·6	24·7	70·0	15th	32·2	1st	37·8
	Kalabagh																						
	Chakrata	7,072	23·418		23·378	23·523	25th	23·295	21st	·228	60·5*	71·0*	+5·1*	52·1*	+4·1*	61·5*	+4·6*	18·9	72·0	31st	51·2	30th	20·8
	Mukteswar	7,592	22·860	+·008	22·819	22·969	25th	22·731	21st	·238	54·6	67·2	+7·0	46·8	+6·9	58·5	+6·9	17·4	73·3	15th	42·0	20th	30·3
	Darjiling	7,422	22·949	+·007	22·904	23·060	14th	22·846	29th	·214	50·3	61·1	+4·8	46·0	+3·9	53·5	+4·3	15·1	72·2	20th	38·9	1st	33·3
	Shillong	4,920	25·134	—·001	25·086	25·244	14th	25·015	30th	·229	62·0	74·1	+3·9	53·4	+2·7	63·7	+3·3	20·7	80·9	20th	40·2	2nd	40·1
	Cherrapunji	4,309	25·700	—·015	25·651	25·802	14th	25·592	29th	·210	62·5	71·0	+3·9	55·5	+1·6	63·2	+2·7	15·5	78·4	17th	45·1	20th	33·3
	Maymyo	3,546	26·457	—·013	26·402	26·518	25th	26·386	20th	·132	63·2	82·7	+1·3	52·1	+2·0	67·4	+1·7	30·6	86·8	20th	43·8	4th	43·0
	Pachmarhi	3,528	26·498	—·006	26·445	26·567	1st	26·411	30th	·156	70·9	87·2	+2·9	59·8	—0·2	73·5	+1·3	27·4	94·0	27th	46·1	2n	47·9
	Mount Abu	3,945	26·161	+·013	26·051	26·201	1st	26·000	30th	·701	72·8	81·0	+4·1	66·3	+5·1	73·6	+4·6	14·7	88·2	15th & 25th.	59·4	1st	28·8
	Mercara	3,781	26·258	—·010	26·191	26·319	27th	26·211	31st	·108	70·6	85·5	+0·9	60·8	—0·8	73·1	+0·1	24·7	90·0	16th	58·0	8th & 19th.	32·0
	Ootacamund	*7,347*	23·099	+·014	23·035	23·156	17th	23·062	3rd	·094	62·2	72·1	+2·8	47·6	—0·4	59·9	+1·2	24·5	76·6	30th	41·3	7th	35·3
	Kodaikanal	7,688	22·870	0	22·805	22·916	1st & 28th.	22·835	12th	·081	58·2	70·9	+2·4	51·0	+0·2	60·9	+1·3	19·9	75·4	30th	44·7	10th	30·7
	Extra India.																						
	Singapore (a)	10	29·844	—·101	29·775	29·904	17th	29·808	2nd & 15th	·096	83·0	88·5	—0·2	74·3	+1·0	81·4	+0·4	14·2	92·5	18th	72·5	7th & 8th	20·0
	Penang (a)	17	29·849	—·071	29·791	29·900	24th	29·785	19th	·115	83·1	90·9	—0·6	73·6	—0·4	82·3	—0·5	17·3	94·0	4th, 7th & 12th.	71·0	2nd, 19th & 20th.	23·0
	Trincomalee	99	29·850	—·003	29·878	29·901	27th	29·803	30th	·098	77·6	92·6	+4·5?	74·9	—1·1	83·7	+1·7?	17·7	97·4	31st	71·0	4th	26·4
	Colombo	24	29·925	—·007	29·875	29·961	1st & 27th.	29·880	31st	·101	75·2	88·4	—1·3	73·5	—1·5	80·9	—1·4	14·9	90·1	24th	68·5	1st	21·6
	Hambantota	64	29·887		29·877	29·941	1st	29·838	31st	·103	75·1	87·4		74·0		80·7		13·4	89·3	19th	67·0	1st	22·3
	Minicoy	7	29·972	+·016		30·042	1st	29·921	31st	·121													
	Amini Divi	*13*	29·949	—·012	29·890	30·009	1st	29·893	31st	·116	83·6	91·8	+3·0	76·9	—0·7	84·4	+1·1	14·9	95·4	31st	74·0	11th & 12th.	21·4
	Gyantse *	13,110	18·603		18·564	18·672	4th	18·432	29th	·240	35·3	54·1		?		?		?	60·8	19th	?	?	?
	Pharijong	14,400																					
	Gangtok	5,567	24·482	+·013	24·437	24·562	14th	24·408	7th	·156	57·3	70·0	+3·7	50·3	+3·6	60·1	+6·1	19·7	74·0	16th	42·2	1st & 5th	31·8
	Gartok (c)	15,100																					

N.B.—Elevations in italics indicate barometrical determinations.
(a) Nine hours observations.
(c) Aneroid.

* Mean of 2 days.

NOTE.—The barometric readings are not reduced to sea-level, in the case of

B—*continued.*

at 213 stations in India, etc., in March, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 31st Mar., 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Baluchistan.
30	0	0	0	0	0	0	1	0	W		2·4			3		47		·181		1·5		1			0·32			1·57			0·31	Fort Sandeman.
19	0	3	8	4	1	0	0	1	S 82° E	S 12° W	3·0	2·9	+0·1	23	+12	66‡	+ 3	·200‡	—·013	3·7	+0·4	1	5·1	—4·1	0·28	1·93	—1·65	4·46	6·78	— 2·32	0·20	Quetta.
2	0	2	13	9	5	0	0	0	S 64° E	S 31° E	4·7	7·2	—2·5	76	+25	50	— 8	·198	—·017	3·8	—0·7	3	4·7	—1·7	0·71	1·56	—0·85	5·14	5·61	— 0·47	0·41	Chaman.
30	0	0	0	0	0	0	0	0	Calm††	S 22° W	4·1§			(a)		68¶	+ 4	·175¶	—·022	3·7		0	2·7	—2·7	0	0·34	—0·34	3·02	4·62	— 1·60	0	Kalat.
13	3	11	2	1	0	0	0	1	N 42° E		4·7			49		53		·227		3·9		0			0·09			3·59			0·07	Dalbandin.
4	0	0	0	0	0	2	20	5	N 85° W		6·7			82		87		·539		3·3		0			0			4·09			0	Pasni.
6	3	14	6	0	0	1	0	1	N 48° E		4·8			62		60		·263		2·6		0			0			5·81			0	Panjgur.
7	0	5	1	0	2	13	3	0	S 45° W		4·6			37		55		·238		5·2		4			0·89			2·95			0·28	Robat.
13	10	0	0	0	1	0	0	7	N 20° W		8·0			49		74		·302		3·1		4			1·01			2·05†			0·28	Seistan.
																																Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		1·3			(a)		59	— 5	·209	+·015	2·3	—2·2	3	9·2	—6·2	0·92	4·37	— 3·45	5·87	9·77	— 3·90	0·36	Para Chinar.
2	24	1	0	0	2	0	0	2	N 2° W	N 10° W	10·1	10·4	—0·3	79	+23	41	—16	·192	—·017	3·6	—0·6	3	6·3	—3·3	2·02	3·89	— 1·87	4·98	11·19	— 6·21	1·50	Cherat.
17	1	6	6	0	0	1	0	0	N 65° E		4·3			33		59	—10	·181	—·017	5·2	+0·5	8	7·0	+1·0	2·97	3·12	— 0·15	7·66	5·94	+ 1·72	0·64	Drosh.
13	5	1	1	7	3	0	0	1	S 75° E	S 83° E	5·0	6·6	—1·6	20	—12	40	—16	·149	—·028	4·5	—0·3	4	7·0	—3·0	5·73	4·37	+ 1·36	15·07	14·18	+ 0·89	3·16	Murree.
																33	—12	·135	—·010	3·3	—0·9	2	4·6	—2·6	0·69	2·44	— 1·75	4·93	9·63	— 4·70	0·37	Simla.
																36**	— 2	·182**	+·010	4·3	—0·2	3	7·4	—4·4	1·35	4·01	— 2·66	16·76	21·10	— 4·34	0·86	Sanain.
																																Kalabagh.
0	0	1	1	0	0	0	0	0	(x) N 66° E							19*	?	·103*	?	2·1	—0·8	1	4·6	—3·6	0·24	2·63	— 2·39	3·40	12·80	— 9·40	0·24	Chakrata.
7	0	1	3	1	0	0	17	2	N 84° W		8·2			46		29	—17	·130	—·033	3·0	—0·5	0	3·5	—3·5	0·02	1·55	— 1·53	1·66	7·30	— 5·64	0·02	Mukteswar.
2[illegible]	0	0	1	0	0	0	1	0	Calm	S 37° E	1·5	5·5	—4·0	(a)		75	+ 2	·272	+·025	4·7	+1·1	0	3·6	—3·6	0·06	1·77	— 1·71	2·04	3·62	— 1·58	0·05	Darjiling.
8	0	0	0	0	12	11	0	0	S 21° W		5·5			69		52	0	·283	+·024	2·2	—0·1	0	5·3	—5·3	0·03	2·13	— 2·10	0·42	3·93	— 3·51	0·02	Shillong.
2	1	5	3	1	4	9	6	0	S 39° W		6·5			30		68	— 2	·381	+·025	4·8	+1·1	7	7·0	0	19·64	8·60	+11·04	21·01	11·91	+ 9·10	5·56	Cherrapunji.
26	0	0	0	0	0	5	0	0	S 45° W		1·7			13		71	+ 1	·403	—·019	0	—1·6	0	1·1	—1·1	0	0·49	— 0·49	2·34	1·18	+ 1·16	0	Maymyo.
12	4	3	2	0	1	1	4	4	N 25° W	N 3° W	3·2	3·7	—0·5	27	+23	35	— 1	·257	—·014	0·4	—1·3	0	0·9	—0·9	0	0·38	— 0·38	2·10	2·12	— 0·02	0	Pachmarhi.
1	3	11	0	0	0	7	1	8	N 19° W	N 23° W	5·0	5·3	—0·3	40	+11	22	—14	·179	—·053	2·4	+0·3	0	0·4	—0·4	0	0·14	— 0·14	0	0·93	— 0·93	0	Mount Abu.
20	9	6	4	0	0	0	1	0	N 59° E	N 22° E	2·3	2·7	—0·4	27	+ 5	64	— 5	·476	—·019	0·5	—2·7	0	1·8	—1·8	0	0·72	— 0·72	0·32	1·93	— 1·61	0	Mercara.
2	2	3	6	12	5	0	0	1	S 61° E		3·7			59		38	— 9	·212	—·026	1·3	—0·6	0	2·2	—2·2	0	0·85	— 0·85	1·69	5·91	— 4·22	0	Octacamund.
0	10	10	6	2	0	0	0	3	N 35° E		9·3			72		46	— 1	·220	—·009	1·1	—0·7	1	3·2	—2·2	0·72	2·15	— 1·43	6·10	11·20	— 5·10	0·71	Kodaikanal.
																																Extra India.
13	2	12	0	0	0	0	0	4	N 23° E					46						6·2	+0·7	13	9·8	+3·2	10·68	7·55	+ 3·13	26·80	36·80	—10·00	1·54	Singapore.
0	9	3	12	3	1	1	2	0	N 61° E					46								10	6·8	+3·2	7·57	4·30	+ 3·27	15·63	21·17	— 4·54	1·55	Penang.
2	0	1	3	1	4	11	7	2	S 49° W	S 37° W	4·9	4·1	+0·8	53	+30	89	+ 4	·837	—·035	3·5	+0·8	2	2·2	—0·2	3·95	1·49	+ 2·46	13·16	23·34	—10·18	3·36	Trincomalee.
25	0	5	1	0	0	0	0	0	N 52° E	S 58° E	3·1	3·9	—0·8	20	—12	92	+13	·801	—·047	9·6	+6·5	12	5·7	+6·3	4·72	4·20	+ 0·52	6·62	15·42	— 8·80	1·54	Colombo.
1	18	2	0	0	0	0	0	13	N 12° W		6·8	5·0	+1·8	89		89		·779		2·3		6			3·02	1·89	+ 1·13	12·17	11·93	+ 0·24	1·63	Hambantota.
0	10	4	2	2	1	0	3	9	N 10° W	N 20° W	2·6	3·9	—1·3	55	— 2					3·1	+0·3	1	1·7	—0·7	1·26	0·95	+ 0·31	4·87	6·59	— 1·72	1·26	Minicoy.
2	8	6	0	0	0	1	3	11	N 26° W		4·6			68		74	+ 1	·852	+·066	2·6	—0·6	0	0·1	—0·1	0·08	0·05	+ 0·03	0·73	1·56	— 0·83	0·08	Amini Diri.
0	0	0	0	17	1	3	0	4	S 30° E		(b) 6·3			56		71‖		·163‖		0		0			0			0·09			0	Gwantee.
																																Pharijong.
29	0	2	0	0	0	0	0	0	N 45° E		0·9			3		75	+ 1	·353	+·044	0·3	—1·9	7	8·5	—1·5	4·94	5·12	— 0·18	9·47	9·55	— 0·08	1·79	Gangtok.
																																Gartok.

hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) Indeterminate.
(x) Wind observations for only 2 days.
(b) Mean of 19 days.

‡ Mean of 28 days.
§ „ „ 29 „
¶ „ „ 24 „
†† One wind less.
* Mean of 2 days.
‖ „ „ 10 „

** Mean of 30 days.
† Rainfall since 1st January 1916.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Extra India—*concld.*																						
	Kashgar (c)	4,255	25·578	—·032		25·815	23rd	25·388	11th	·427	41·0	60·0	+3·9	36·3	+1·3	48·2	+2·6	23·7	72·3	27th	23·5	1st	48·8
	Kabul (c)		24·202	—·073		24·330	1st	23·990	18th	·340	41·8	67·9	+10·8	37·8	+4·1	52·8	+7·5	30·1	75·8	23rd	30·8	19th	45·0
	Meshed	3,104	25·982		29·114	26·174	28th	25·765	21st	·409	40·1	56·7	+0·6	35·4	—0·8	46·0	—0·1	21·3	76·4	13th	27·0	3rd	49·4
	Jask	13	29·951	—·012	29·928	30·080	18th	29·801	31st	·279	70·2	81·4	+2·2	67·5	+0·9	74·4	+1·5	13·9	86·5	30th	61·6	3rd	24·9
	Muscat	20	P	P	P	P	P	P	P	P	74·3	81·5	+3·1	71·8	—0·2	76·6	+1·5	9·7	86·3	8th, 9th & 25th.	66·3	6th	20·0
	Bahrein	18																					
	Bushire	14	29·937	—·051	29·913	30·088	24th	29·786	31st	·302	61·8	75·5	+3·1	61·4	+2·4	68·4	+2·7	14·1	87·1	7th	48·6	3rd	38·5
	Busrah	25	29·971	—·063	29·965	30·155	23rd	29·692	11th	·463	64·6	78·0	+4·4	57·7	+1·4	67·9	+2·9	20·3	88·1	27th	44·1	1st	44·0
	Kerman																						
	Ispahan (c) *	*5,817*	24·305			24·460	28th	24·160	31st	·300	46·0	62·6		41·9		52·2		20·7	69·4	23rd & 26th.	36·2	22nd	33·2
	Tehran (c)	*4,002*																					
	Baghdad	127																					
	Aden	94	29·873	—·024	29·900	29·932	1st	29·780	31st	·152	77·1	81·9	—1·7	75·4	0	78·6	—0·9	6·5	86·0	29th & 30th.	70·7	9th	15·3
	Zanzibar	72	29·918	+·008	29·916	29·991	30th	29·865	7th	·126	82·1	87·3	+0·6	79·7	+0·3	83·5	+0·5	7·6	91·4	27th	76·5	21st	14·9

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(c) Aneroid.

* Mean of 12 days.

B—*concluded.*

at 213 stations in India, etc., in March, 1916—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1915 to 31st March, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Extra India—*concld.*
21	1	3	0	0	2	0	1	3	N 18° W	N 1° W	1·5	1·8	−0·3	10	+ 2	55*	− 2	·156*	+·003	5·7	+0·9	2	3·8	+1·2	0·30	0·37	−0·07	0·35	0·73	−0·34	0·16	Kashgar.
0	0	0	0	3	2	5	16	5	S 79° W	N 80° W				68	+51	78†	+ 2	·214†	+·028	2·9	−1·3	4	7·1	−3·1	1·20	4·05	−2·85	3·57	7·49	−3·92	0·61	Kabul.
30	1	0	0	0	0	0	0	0	N		1·4			4		85†	+ 7	·223†	−·001	6·8	+1·5	9	5·1	+3·9	2·87	2·32	+0·55	5·59	4·81	+0·78	0·78	Meshed.
0	6	7	5	1	0	0	0	12	N 7° E	N 23 E	9·0	8·0	+1·0	62	+26	78	+ 9	·581	+·120	1·3	−1·2	2	1·7	+0·3	0·73	0·77	−0·04	3·59	3·69	−0·10	0·47	Jask.
6	1	2	2	1	0	1	2	15	N 38° W (e)	N 72° W	1·7	3·4	−1·7	46	+16	71	+ 3	·596	+·013	3·5	+1·2	1	1·9	−0·9	0·20	0·76	−0·56	5·49	3·24	+2·25	0·20	Muscat.
																							1·1			0·38			2·15			Bahrein.
15	0	4	7	2	0	0	0	3	N 69° E	N 41° E	5·7	6·2	−0·5	30	−10	75	− 3	·462	+·033	6·3	+2·4	2	2·2	−0·2	0·34	0·91	−0·07	5·94	8·90	−2·96	0·60	Bushire.
8	2	2	5	5	0	5	1	3	S 72° E		2·8			10		79		·478		3·8‡		6	2·1	+3·9	1·32	1·09	+0·23	6·96	4·13	+2·83	0·31	Basrah.
																																Kerman.
8	0	0	6	1	0	2	1	0	S 45° W	S 82° W	1·6	4·6	−3·0	25		72		·227		4·1		1	3·4	−2·4	0·43	1·13	−0·70	(a) 0·43	2·99	−2·56	0·30	Ispahan.
										N 14° E		2·8											5·6			1·93			5·94			Tehran.
										N 11° W		2·9											3·6			1·41			4·99			Baghdad.
2	3	20	1	0	0	0	0	0	N 34° E	N 32° E	14·2	11·5	+2·7	86	+ 7	80	+ 3	·740	+·007	4·7	−0·2	0	0·8	−0·8	0	0·62	−0·62	0·10	1·36	−1·26	0	Aden.
7	3	5	2	3	5	7	2	0	S 8° E §	S 27° E	3·3	3·9	−0·6	19	− 3	79	− 3	·867	−·027	6·6d	+0·6	6	8·3	−2·3	2·29	6·01	−3·72	8·03	17·33	−9·30	0·86	Zanzibar.

* Mean of 23 days.
† „ „ 27 „
(e) One wind less.
(d) Mean of 30 days.
‡ „ „ 18 „
§ Four winds less.
(a) Rainfall since 20th March 1916.

Table C.—Abstract of observations taken at 8 hrs. at 56 fourth and fifth class stations in India, etc., in March, 1916.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	66·8*	83·1	+1·1	64·1†	+8·9	72·6*	+5·0	19·0	91·7	21st	56·1	22nd	35·6	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	70·0	87·7	+4·4	61·0	+4·0	74·3	+4·2	26·7	97·0	15th	56·4	2nd & 4th.	40·6	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	70·0	93·0	+5·2	60·7	+3·3	76·9	+4·3	32·3	101·1	16th	45·4	3rd	55·7	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	62·5	80·7	+6·7	59·9	+3·4	70·3	+5·1	20·8	92·7	16th	52·4	8th	40·3	...	...	...	...	...	...	...	...	...	...	...
	Dikom	64·8	81·4	+3·1	59·3	+1·9	70·3	+2·5	22·1	91·6	17th	49·6	2nd	42·0	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	64·9	81·7	+1·4	59·0		70·3		22·7	94·9	21st	51·2	2nd	43·7	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	69·1	89·5	+3·8	61·1	+0·9	75·3	+2·3	28·4	97·0	16th	48·8	2nd	48·2	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	65·2	81·9	+1·6	61·0	+2·3	71·5	+1·9	20·9	89·9	16th	53·4	1st	36·5	...	...	...	...	...	...	...	...	...	...	...
	Lumding ‡	69·9	89·4		58·8		74·1		30·6	95·7	19th	47·8	2nd	47·9	...	...	...	...	...	...	...	...	...	...	...
	Messa	69·5	90·6	+3·5	57·7	+2·5	74·1	+3·0	32·9	95·9	19th	51·0	3rd	44·9	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	69·6	85·9	+4·1	58·8	+3·6	72·3	+3·9	27·1	91·6	18th	49·5	3rd	42·1	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	75·1	92·3	+4·2	66·3	+2·4	79·3	+3·3	26·0	98·3	17th & 21st.	51·4	2nd	46·9	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	73·4	95·2	+5·5	63·7	+2·6	79·5	+4·1	31·5	105·3	20th	49·1	1st	56·2	...	...	...	...	...	...	...	...	...	...	...
	Pabna	74·7	95·5	+3·9	66·6	+4·9	81·1	+4·4	28·9	104·0	20th	55·3	1st	48·7	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	65·9	90·4	+4·7	57·5	+4·4	73·9	+4·5	32·9	94·4	18th	44·8	1st	49·6	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	74·1	86·1	+2·4	57·2	+2·1	71·7	+2·3	28·9	92·1	20th & 21st	50·0	1st, 2nd & 3rd.	42·1	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	74·6	87·6	+4·0	61·4	+2·2	74·5	+3·1	26·2	91·2	19th	51·0	21st	40·2	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	anigan (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	+	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 27 days. † Mean of 26 days. ‡ Mean of 30 da

C.

and fifth class stations in India, etc., in March, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1915 to 31st March, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					II.—Assam.
...	...	...	...	...	94*	+ 2	·620	+ ·100	...	...	5	4·3	+ 0·2	1·89	2·61	− 0·72	5·47	4·96	+ 0·51	0·58	Bishnath.
...	...	...	...	...	73	− 5	·535	+ ·048	...	...	4	4·0	0	2·12	1·85	+ 0·27	4·71	3·33	+ 1·38	0·76	Borjuli.
...	...	...	...	...	87	0	·649	+ ·063	...	...	6	3·8	+ 2·2	4·11	2·64	+ 1·47	4·74	5·67	− 0·93	1·26	Chandkhira.
...	...	...	...	...	90	− 4	·511	− ·013	...	...	9	10·2	− 1·2	7·06	5·59	+ 1·47	9·98	10·04	− 0·06	2·72	Doom Dooma.
...	...	...	...	...	87	− 4	·531	+ ·023	...	...	7	9·3	− 2·3	6·36	5·03	+ 1·33	9·62	8·98	+ 0·64	2·81	Dikom.
...	...	...	...	...	92	+ 5	·566	+ ·046	...	...	5	5·8	− 0·8	6·84	2·45	+ 4·39	10·28	4·94	+ 5·34	3·27	Golaghat.
...	...	...	...	...	79	− 8	·565	+ ·028	...	...	8	6·7	+ 1·3	12·10	4·15	+ 7·95	13·00	7·89	+ 5·11	3·60	Hailakandi.
...	...	...	...	...	90	+ 4	·557	+ ·040	...	...	7	6·8	+ 0·2	5·61	3·07	+ 2·54	9·79	5·30	+ 4·49	1·31	Jorehat.
...	...	...	...	...	74	...	·537	...	...	...	2	5·4	− 3·4	0·50	2·16	− 1·66	2·61	3·59	− 0·93	0·22	Lumding.
...	...	...	...	...	57	−20	·407	− ·132	...	...	4	3·8	+ 0·2	3·36	2·00	+ 1·36	5·90	3·57	+ 2·33	1·40	Messa.
...	...	...	...	...	85	+ 4	·486	− ·029	...	...	3	5·7	− 2·7	2·86	3·10	− 0·24	4·72	4·57	+ 0·15	1·37	Panerihat.
																					III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	1	3·4	− 2·4	0·15	2·76	− 2·61	2·56	4·28	− 1·72	0·15	Comilla.
...	...	...	...	...	78	− 1	·685	+ ·036	...	...	2	4·2	− 2·2	2·15	2·52	− 0·37	3·40	4·15	− 0·75	1·20	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	3	2·8	+ 0·2	2·20	1·91	+ 0·29	4·80	3·72	+ 1·08	1·25	Faridpur.
...	...	...	...	...	77	+ 1	·641	+ ·028	...	...	2	3·2	− 1·2	0·68	1·88	− 1·20	2·58	3·42	− 0·84	0·50	Goalundo.
...	...	...	...	...	73	− 2	·637	+ ·047	...	...	0	2·8	− 2·8	0	1·23	− 1·23	3·50	2·93	+ 0·57	0	Pabna.
...	...	...	...	...	...	...	...	...	...	...	1	2·1	− 1·1	0·10	1·37	− 1·27	0·71	2·63	− 1·92	0·10	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	2·0	− 2·0	0	1·12	− 1·12	0·02	2·16	− 2·14	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	1·3	− 1·3	0	0·75	− 0·75	0·15	2·42	− 2·27	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	1·9	− 1·9	0	1·33	− 1·33	3·85	2·38	+ 1·47	0	Rangpur.
...	...	...	...	...	80	− 8	·512	+ ·036	...	...	1	3·3	− 2·3	1·23	1·70	− 0·47	1·93	3·27	− 1·34	1·23	Dam Dim.
...	...	...	...	...	73	− 1	·625	+ ·088	...	...	3	3·3	− 0·3	1·10	1·60	− 0·50	2·97	3·32	− 0·35	0·75	Kalchini.
...	...	...	...	...	54	−18	·463	+ ·009	...	...	0	4·5	− 4·5	0	2·13	− 2·13	0·92	4·50	− 3·58	0	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	1	3·0	− 2·0	0·25	1·99	− 1·74	1·07	2·86	− 1·79	0·25	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	2·2	− 2·2	0	1·52	− 1·52	0·35	3·30	− 2·95	0	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	2·0	− 2·0	0	1·08	− 1·08	0·05	2·67	− 2·62	0	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	1·9	− 1·9	0	1·07	− 1·07	0·25	2·63	− 2·38	0	Raniganj (Asansol).
																					IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	2·0	− 2·0	0	1·01	− 1·01	0·87	3·07	− 2·20	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	1·2	− 1·2	0	0·56	− 0·56	0·36	1·97	− 1·61	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	1·1	− 1·1	0	0·48	− 0·48	0·87	1·66	− 0·79	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	0·8	− 0·8	0	0·45	− 0·45	0·79	1·65	− 0·86	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	0·9	− 0·9	0	0·35	− 0·35	1·83	1·74	+ 0·09	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	1·0	− 1·0	0	0·45	− 0·45	0·68	2·07	− 1·39	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	1·1	− 1·1	0	0·48	− 0·48	0·61	2·10	− 1·49	0	Dehri.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	71·9	94·7	...	62·2	...	78·4	...	32·5	100·2	27th	50·8	3rd	49·4	19	3	1	1	0	0	0	2	5	N 28° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	79·3	99·8	...	69·4	...	84·6	...	30·4	104·8	30th & 31st	60·4	13th	44·4	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	78·2	96·6	...	71·9	...	84·3	...	24·7	106·5	31st	66·0	6th	40·5	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	71·8	86·0	...	63·7	...	74·9	...	22·3	92·1	11th, 17th & 23rd	52·8	1st & 2nd	39·3	0	15	15	0	0	1	0	0	0	N 24° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	31·0	47·5	...	16·8	...	32·1	...	30·7	63·1	31st	−12·6	1st	75·7	0	3	2	4	12	4	3	0	3	S 51° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	72·5	86·8	+3·6	65·8	+4·8	76·3	+4·2	21·0	92·1	21st	60·0	2nd	32·1	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	65·6	70·6	+3·7	56·2	+3·1	63·4	+3·4	14·4	74·3	21st	47·7	1st	26·6	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	58·4	+9·7	37·3	+6·2	47·9	+7·9	21·1	68·2	15th	28·9	20th	39·3	8	0	1	4	11	2	1	3	1	S 42° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	69·8	+4·7	37·6	+1·4	53·7	+3·1	32·2	78·3	14th	25·0	20th	53·3	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in March, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1915 to 31st March, 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	1·4	−1·4	0	0·55	−0·55	1·16	3·14	−1·98	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	0	2·2	−2·2	0·02	0·98	−0·96	2·09	6·45	−4·36	0·02	Dehra Dun.
																					IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	0·2	−0·2	0	0·07	−0·07	0·07	0·42	−0·35	0	Udaipur.
																					XII.—Central Provinces.
3·5	...	...	30	...	40	...	·312	...	1·6	...	0	...	...	0	...	...	1·22	...	...	0	Chhindwara.
																					XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	0·3	−0·3	0	0·18	−0·18	2·66	0·53	+2·13	0	Parbhani.
																					XV.—Madras.
...	...	...	...	...	...	...	—	...	...	...	2	1·9	+0·1	0·45	1·06	−0·61	3·71	6·72	−3·01	0·25	Tinnevelly.
...	...	...	...	...	62	...	·626	...	0·9	...	0	0·3	−0·3	0	0·09	−0·09	0	0·36	−0·36	0	Anantapur.
...	...	...	...	...	82	...	·791	...	...	...	0	0·7	−0·7	0	0·58	−0·58	0?	1·71	−1·71?	0	Guntur.
																					Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	2·7	...	...	1·50	...	...	13·57	...	...	Car Nicobar.
																					Kashmir.
...	...	...	90	...	38	...	·295	...	1·2	...	2	3·7	−1·7	0·60	1·77	−1·17	2·86	8·95	−6·09	0·30	Jammu.
...	...	...	...	...	...	...	...	...	...	...	13	15·7	−2·7	8·86	15·75	−7·89	32·83	43·60	−10·77	2·11	Sonamarg.
...	...	...	42	...	61*	...	·143*	...	5·6	...	2	4·7	−2·7	0·54	1·82	−1·28	2·16	4·70	−2·54	0·22	Kargil.
																					Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	2·7	−1·7	0·13	1·27	−1·14	1·63	4·68	−3·05	0·13	Harnai.
																					Hill stations, exclusive of Kashmir.
...	...	...	...	...	49	− 6	·394	+ ·001	...	...	0	3·5	−3·5	0·01	1·95	−1·94	0·78	3·51	−2·73	0·01	Panighatta.
...	...	...	...	...	92	+37	·621	+ ·331	...	...	0	3·7	−3·7	0	2·35	−2·35	1·48	4·69	−3·21	0	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	8	...	...	11·24	...	...	37·55	...	...	3·80	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	12	...	...	3·80	...	...	7·07	...	...	1·29	Lachung.
...	...	...	...	...	...	...	...	...	...	...	15	...	...	8·40	...	...	20·33†	...	...	1·72	Ringim.
...	...	...	...	...	...	...	...	...	...	...	1	4·2	−3·2	0·25	1·99	−1·74	4·21	8·73	−4·49	0·25	Mussooree.
...	...	...	39	...	...	...	...	...	4·9	+0·1	4	6·5	−2·5	2·06	3·49	−1·43	3·71	8·58	−4·87	0·81	Poo.
...	...	...	...	...	...	...	...	...	...	...	...	7·1	...	...	3·84	...	...	10·51	...	...	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Baklch.
...	...	...	...	...	...	...	...	...	2·0	...	2	5·1	−3·1	0·44	2·17	−1·73	5·19	6·79	−1·60	0·25	Pishin.

* Mean of 11 days.
† Rainfall since 1st January.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi . . .	35·4	36·2*	...	27·6	...	31·6*	...	8·6	42·0	18th & 19th.	20·5	9th	21·5	...	...	...	...	...	...	...	...	...	...	...
	Pembe																								
	Prison Island . . .																								

* Mean of 27 days.

C—*concluded.*

and fifth class stations in India, etc., in March, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Decr., 1915 to 31st March, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					Extra India.
...	...	...	...	...	*93	...	*208*	...	0·7	...	3	...	...	0·80	...	...	3·34	...	...	0·35	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	12	7·3	+4·7	6·75	5·44	+1·31	13·45	17·49	—4·04	1·92	Pemba.
...	...	...	...	...	...	...	...	...	...	...	...	6·7	...	...	5·77	...	...	15·43	...	...	Prison Island.

* Mean of 20 days.

CALCUTTA
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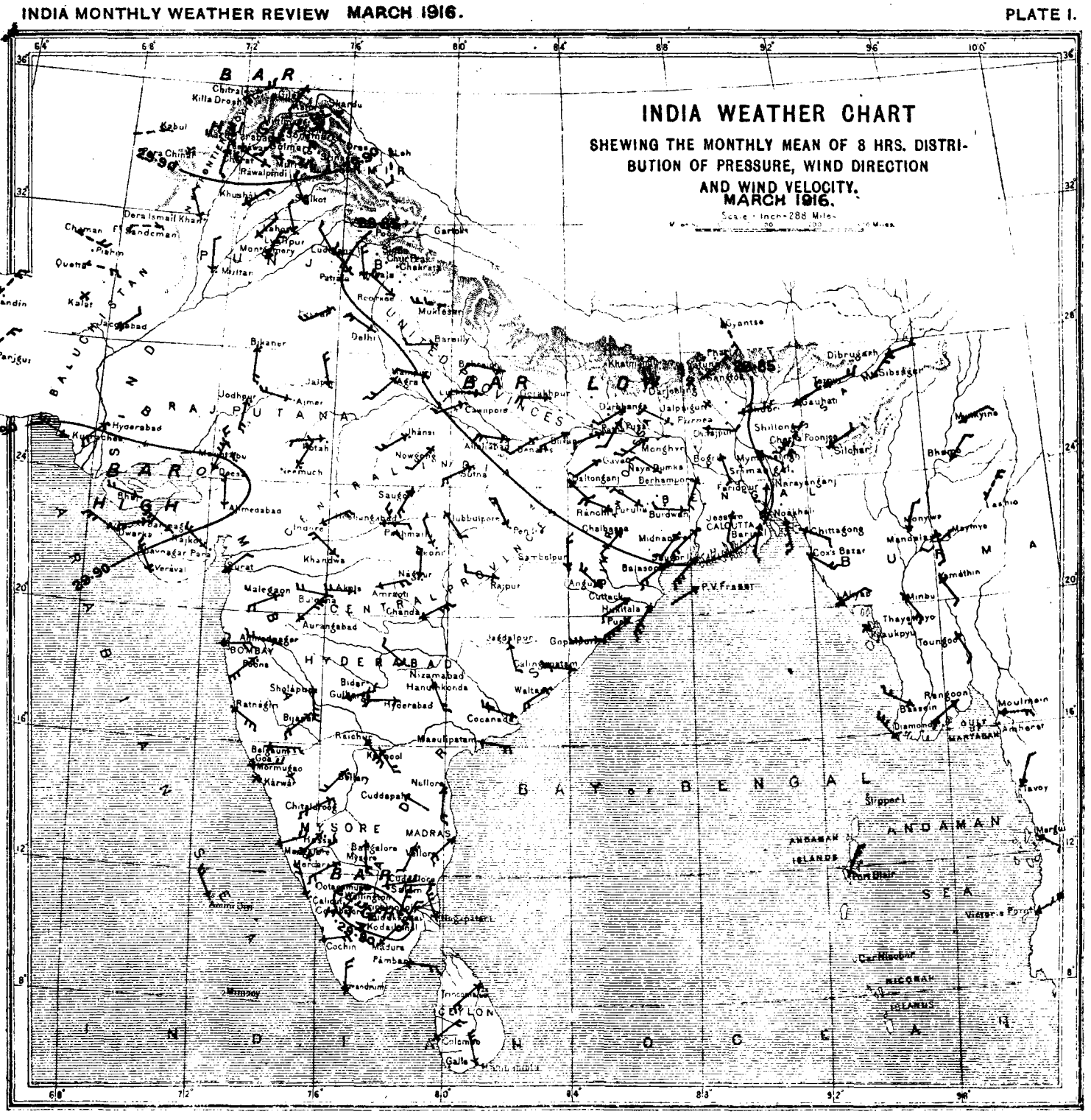
8, HASTINGS STREET

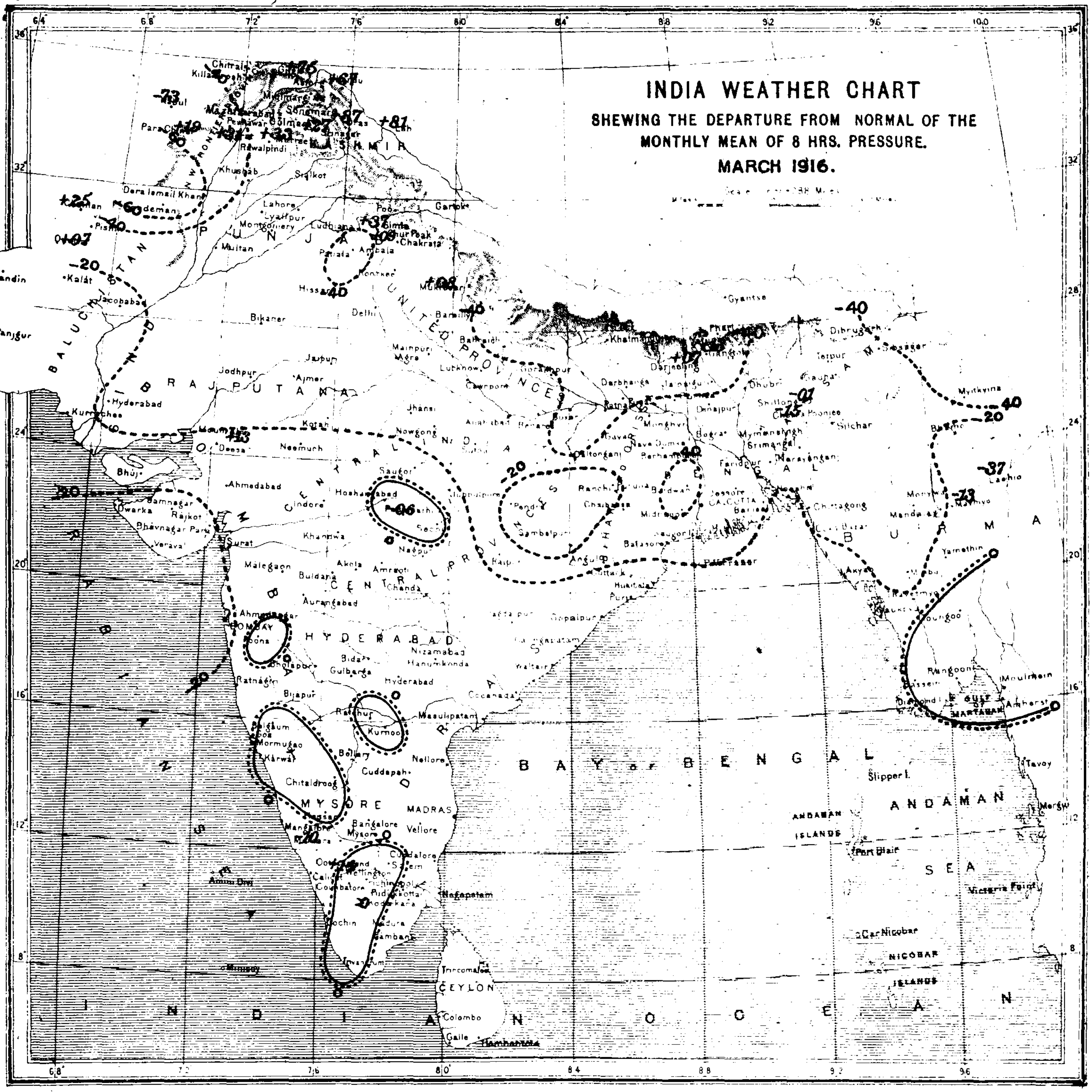


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020" or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

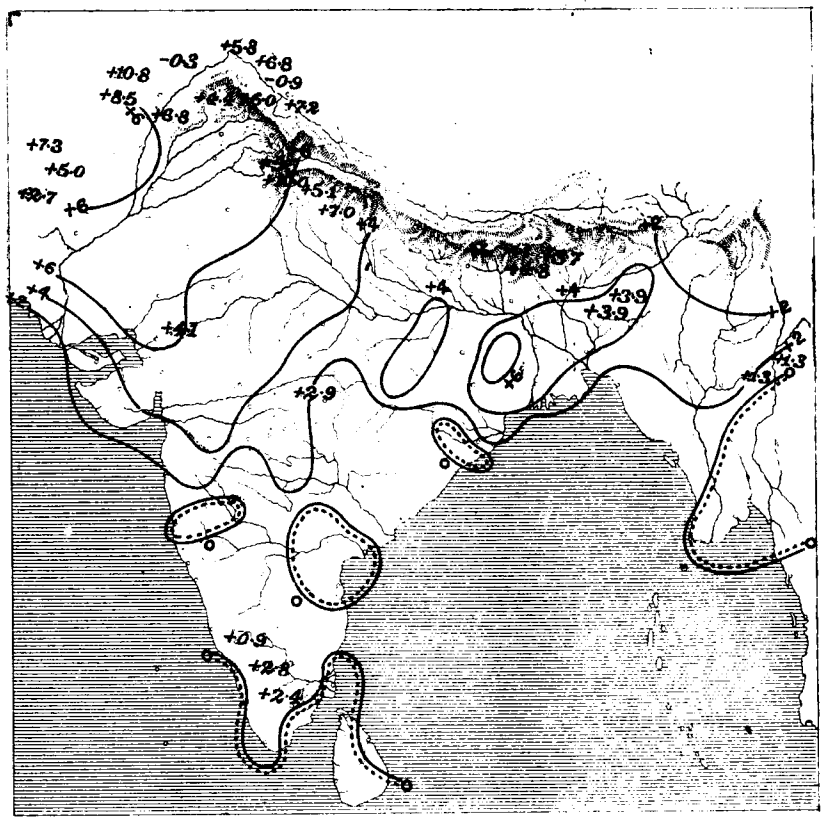


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

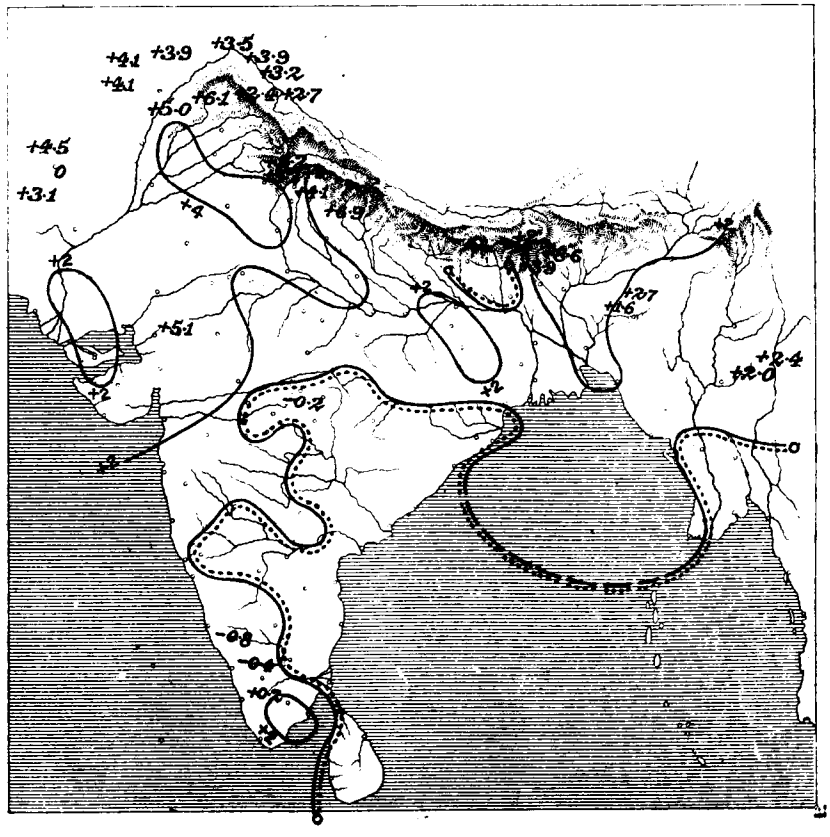


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

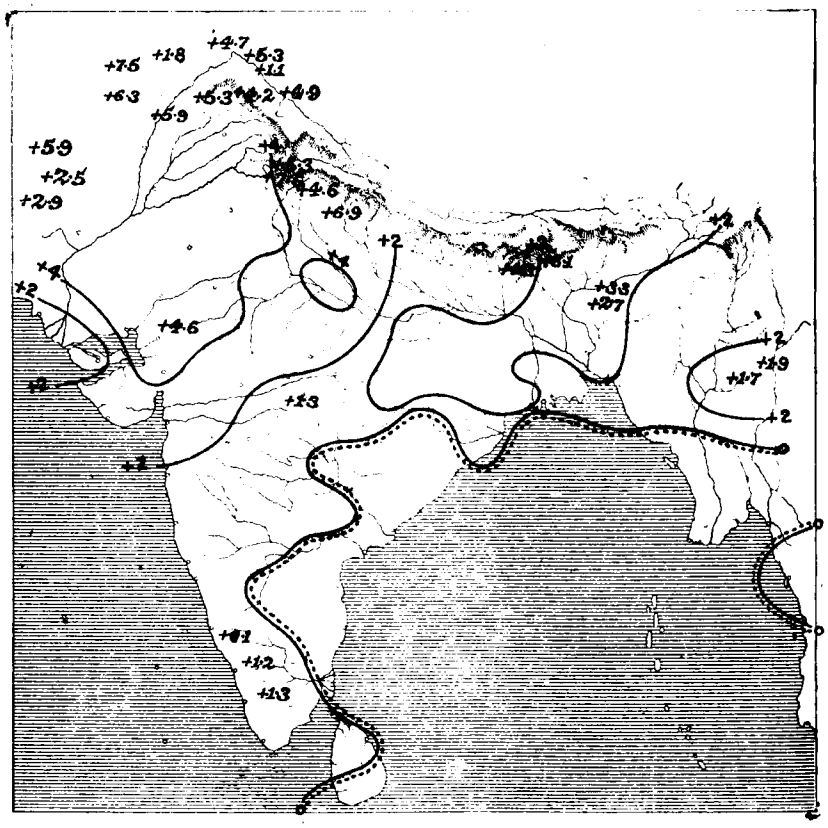


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

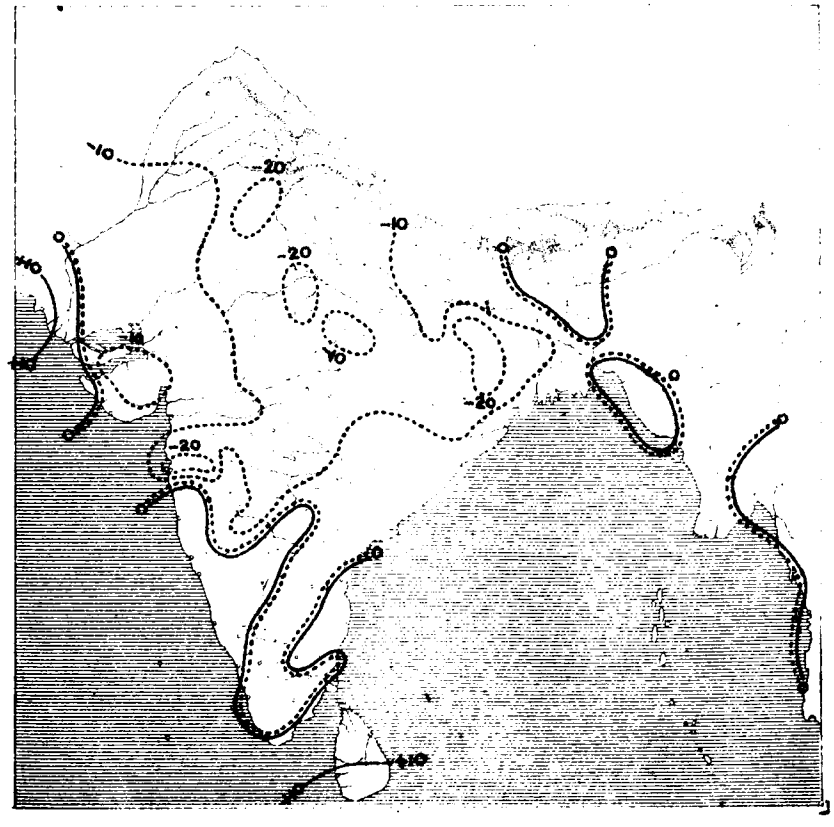


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

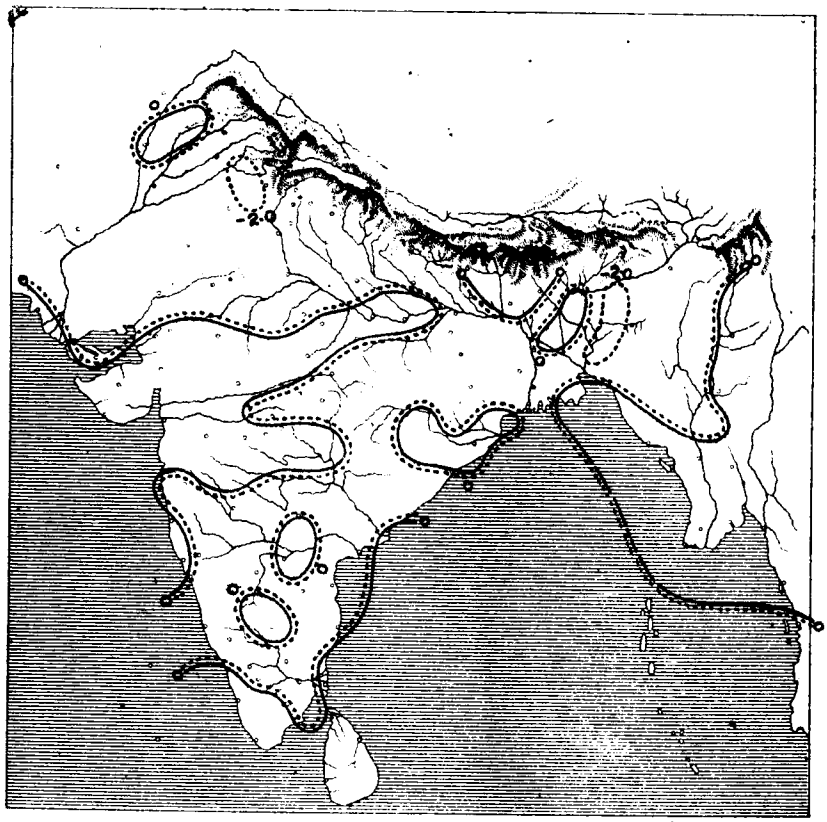
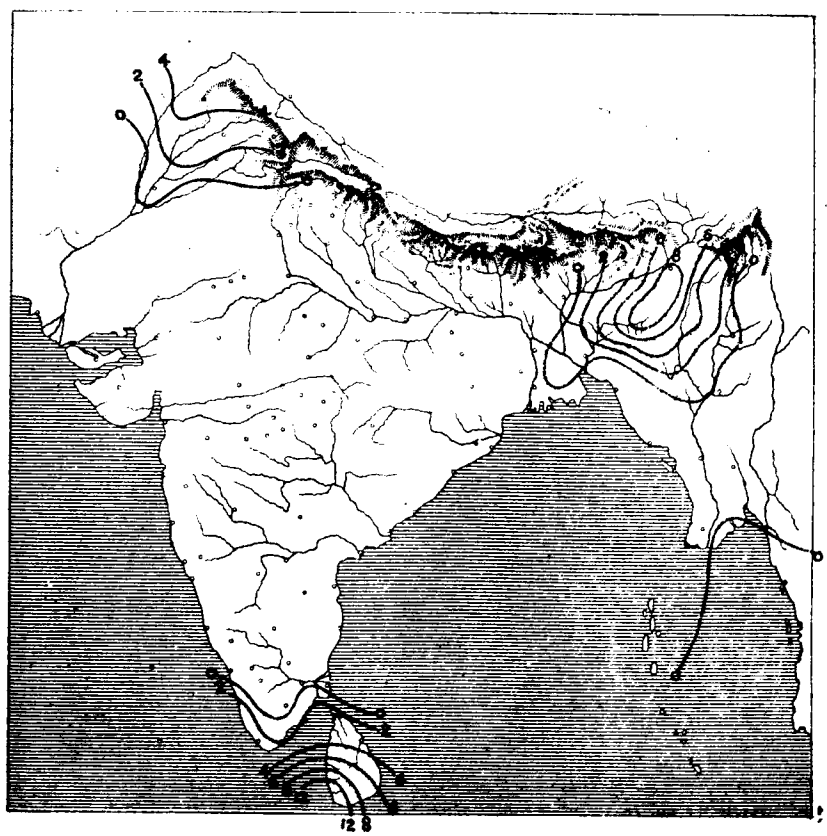
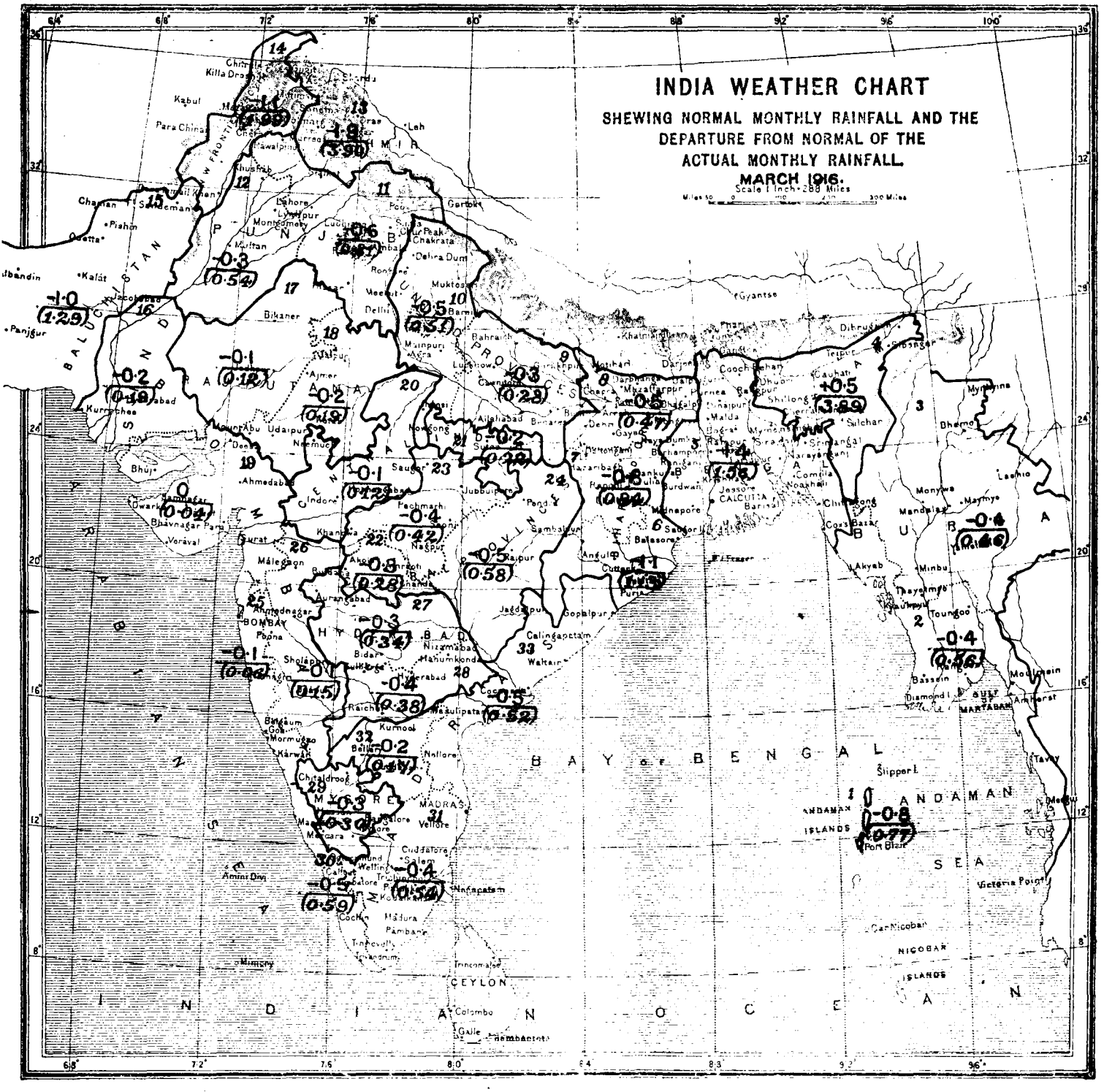


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, APRIL, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of April, 1916, is based on observations taken daily at 8 hrs. at 213 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review. The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. Disturbed conditions appeared in Persia at short intervals, but their influence on Indian weather was not marked, and was confined chiefly to the mountain zone bordering upper India. They were however partly responsible for the abnormally large number of duststorms and thunderstorms in northwest India. There was a steady influx of moist air from the Bay into northeast India, but owing to the peculiarities in the pressure distribution it was directed largely to Bengal and Bihar. In the Peninsula the usual thunderstorms were comparatively rare, and in the Andamans, where moderately heavy rain falls under ordinary conditions, weather was dry throughout the month. Similar conditions prevailed in Lower Burma, but in Upper Burma the weather was somewhat more unsettled than usual.

The month's aggregate rainfall was normal or in defect over nearly the whole country with the exception of Bengal, Bihar, Baluchistan and south Hyderabad, where it was appreciably in excess. The defect was nearly 3 inches in the Bay Islands, 1½ inches in Kashmir, about an inch in Orissa and Malabar, ¾ inch in the Central Provinces East, Madras Southeast and Mysore, and less than half an inch over the rest of the area of scanty fall.

Of climatic elements other than rainfall, cloud was in moderate to large excess in Bengal, Bihar and Orissa, the North-West Frontier Province and Baluchistan, and in defect in Sind and Rajputana; while relative humidity was considerably above normal in Baluchistan and appreciably in defect in the Punjab, Kashmir, the United Provinces, Hyderabad and the Central Provinces. Temperature was between 2° and 4° higher than usual in Kashmir, the Punjab, the North-West Frontier Province and the United Provinces, and nearly normal elsewhere.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculæ on all the days during the month. Prominences could not be observed on two days.

Sun spots.—Twenty-three spots were observed as against 25 in March. The daily average number was 3·9, being the same as in the preceding month. The average life of a spot

was 4·7 days. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitudes.	Extreme latitudes.
North . . .	2	7	1	14°·5	3° & 26°
South . . .	...	11	2	18°·2	13° & 28°

Prominences.—Seventy-five large, two eruptive and five metallic prominences were recorded. The highest was a detached cloudlet seen on the 4th floating at a height of 450″ at latitude +50° E.

Magnetic disturbances.—There was one great disturbance from the 25th to 30th whilst several spot groups were near the central meridian.

T. ROYDS,
for *Director,*
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2{,}343$ m. Subsoil-Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	r/To²
An:				
Ae:	9·76	18·2	1	2·5
Az:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1916		h. m. s.						
April 5th	e P	21 20 30	...	...	...	...	...	
	e L	21 25 36	...	...	...	...	...	
	M	21 31 30	...	...	50	...	...	
	F	21 51 00	...	...	...	...	...	
„ 7th	i P	9 41 36	...	...	...	...	...	
	i L	9 41 48	...	...	...	...	...	
	M	9 51 36	...	...	1120	...	...	
	F	11 53 36	...	...	...	...	...	
1916.		h. m. s.						
April 7th	e P	14 48 12	...	...	...	...	...	
	e L	14 56 54	...	...	...	..	...	
	M	14 58 42	...	...	40	...	...	
	F	15 6 54	...	...	...	...	...	
„ 14th	e P	17 50 00	...	...	...	...	...	
	F	18 6 24	...	...	...	...	...	Widening of line.
	P	?	...	...	...	...	...	Beginning lost in hour mark at 9 h. 30 m.
„ 15th	e L	9 34 36	...	...	...	...	...	
	M	9 35 36	...	...	60	...	...	
	F	9 56 48	...	...	...	...	...	
„ 15th	e P	12 38 30	...	...	...	...	...	
	i L	12 42 24	...	...	...	...	...	
	M	12 47 30	...	...	420	...	...	
	F	14 23 36	...	...	...	...	...	
„ 15th	e P	15 08 36	...	...	...	...	...	
	i L	15 19 24	...	...	...	...	...	
	M	15 20 00	...	...	60	...	...	
	F	15 52 42	...	...	...	...	...	
„ 18th	e P	4 25 06	...	...	...	...	...	
	i L	4 26 42	...	...	...	...	...	
	M	4 27 24	...	...	50	...	...	
	F	5 37 12	...	...	...	...	...	
„ 21st	e P	11 41 48	...	...	...	...	...	
	i L	11 46 30	...	...	...	...	...	
	M	11 47 30	...	...	100	...	...	
	F	13 09 54	...	...	...	...	...	
„ 21st	e P	14 05 54	...	..	...	...	...	
	i L	14 11 00	...	...	...	...	...	
	M	14 12 18	...	...	50	...	...	
	F	14 37 42	...	...	...	...	...	
„ 24th	e P	8 25 24	...	...	...	...	...	Overlapping.
	i L	8 47 00	...	...	...	...	...	
	M	8 47 30	...	...	50	...	...	
	F	?	...	...	...	...	...	
„ 24th	P	?	...	...	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916. April 24th	i L	h. m. s. 9 36 42	...	...	...	...	...	
	M	9 41 30	...	...	200	...	...	
	F	10 35 24	...	...	...	...	...	
„ 26th	P	?	...	...	...	...	...	Instrument examined at 3 h. 38 m.
	L	?	...	...	...	...	...	
	M	4 01 24	...	...	120	...	...	
	F	4 35 42	...	...	...	...	...	

T. ROYDS,
for *Director,*
Kodaikanal and Madras Observatories.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of April 1916 the traces showed 10 calm days, 18 days of small, and 2 days of moderate disturbances.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 5th, 11th, 13th, 23rd and 24th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	S	25	M
2	C	10	C	18	S	26	S
3	C	11	C	19	S	27	S
4	C	12	C	20	S	28	S
5	C	13	C	21	S	29	M
6	S	14	S	22	S	30	S
7	S	15	S	23	C	...	...
8	S	16	S	24	C	...	...

C.=calm; S.=small; M.=moderate; G.=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follow :—

Easterly declination	0° 38′ 5″.
Horizontal force	0·36870 C.G.S. unit.
Vertical force	0·16768 C.G.S. „
Inclination	24° 27′·3.
Horizontal force range	0·00061 C.G.S. „
Horizontal force summed range	0·00413 C.G.S. „
Declination range	4′·7.
Declination summed range	19′·5.

(Summed range means sum without regard to signs of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m. Subsoil Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ε	$\frac{r}{To^2}$
An:				
Ae:	9	21	1	
Az:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1916. April 3rd		h. m. s. 11 6 0	...	...	...	...	...	Thickening of line.
„ 5th	P	21 16 25	...	...	...	...	...	
	M	21 26 59	...	...	67	...	...	
	F	21 39 11	...	...	...	...	...	
„ 7th	P	.....	...	...	...	...	...	Commencement as shown by Tromograph 9 h. 35 m. 33 s.
	S	9 42 30	...	...	...	...	...	
	M	9 53 11	...	...	344	...	...	
	F	11 38 58	...	...	...	...	...	
„ 14th	...	17 55 to 59	...	...	...	...	...	Thickening of line.
„ 15th	...	9 35 0	...	...	...	...	...	„
„ „	...	9 40 0	...	...	...	...	...	„
„ „	...	9 42 0	...	...	...	...	...	„

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (u) An.	Ae.	Az.	Distance. Δ (Km.)	Remarks.
1916. April 15th	...	h. m. s. 9 44 0	...	...	...	...	...	
„ 15th	P	12 39 42	...	...	...	...	...	
	M	12 54 56	...	...	167	...	...	
	F	13 45 45	...	...	...	...	...	
„ 15th	P	15 9 58	...	...	...	...	...	
	M	15 33 33	...	...	33	...	...	
	F	15 44 2	...	...	...	...	...	
„ 18th	P	.....	...	...	...	...	...	Time of commencement as shown by Tromograph 4 h. 14 m. 32 s.
	S	4 26 59	...	...	...	...	...	
	M	4 54 43	...	...	67	...	...	
	F	5 32 50	...	...	...	...	...	
„ 21st	P	11 41 42?	...	...	...	...	...	
	M	12 14 42	...	...	167	...	...	
	F	.....	...	...	...	...	...	End mixed in tremors.
„ 22nd	...	7 12 0	...	...	...	...	...	Thickening of line.
„ 24th	...	5 42 to 46	...	...	...	...	...	„
„ 24th	P	8 24 33?	...	...	...	...	...	
	M	9 43 8	...	...	111	...	...	
	F	11 21 13	...	...	...	...	...	
„ 26th	P	.....	...	...	...	...	...	Beginning mixed in tremors.
	M	3 45 25	...	...	56	...	...	
	F	4 32 34	...	...	...	...	...	
„ 28th	...	3 29 0	...	...	...	...	...	Thickening of line.

One disturbance at about 14 h. on 21st is masked by tremors.

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·29″ from 1st to 3rd and 0·30″ from 4th to 30th.

N. A. F. Moos,
Director,
Bombay and Alibag Observatories.

5.—Calcutta (Alipore) Observatory.

Seismic records.

$\phi = 22° 32' N$; $\iota = 88° 20' E$; $h = 6·4$ m. Subsoil Alluvial.

Apparatus.—Two Omori—Ewing Horizontal Pendulum Seismographs.

Table 5.

	V	To	C	$\frac{r}{To^2}$
An :	29	18	1	
Ae :	29	35	1	
Az :				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916. April 7th	N. S.	h. m. s. Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	9 36 48	4	...	...	...	...	
	S	9 45 24	6	...	...	...	...	
	L	9 56 12	12	...	...	...	...	
	M	9 59 48	...	1172	...	...	...	
	F	10 34 30	...	...	...	...	...	
„ 15th	N. S.	Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	12 37 54	5	...	...	...	...	
	S	12 42 54	7	...	...	...	...	
	L	12 54 12	11	...	...	...	...	
	M	12 57 42	...	155	...	...	...	
	F	13 9 18	...	...	...	...	...	
„ 15th	N. S.	Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	15 7 18	...	...	...	...	...	
	F	15 28 48	...	...	...	...	...	
„ 18th	N. S.	Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	4 13 48	4	...	...	...	...	
	S	4 23 18	8	...	...	...	...	
	F	4 54 42	...	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916. April 21st	N. S.	h. m. s. Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	11 40 0	3	...	...	...	...	
	S	11 50 30	?	...	...	...	...	
	L	11 57 42	24	...	...	...	...	
	M	11 58 54	...	379	...	...	...	
	F	12 19 54	...	...	...	...	...	
	N. S.	Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	14 1 0	3	...	...	...	...	
	S	14 4 30	6	...	...	...	...	
	F	14 26 54	...	...	...	...	...	
„ 24th	N. S.	Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	4 49 24	5	...	...	...	...	
	F	5 9 18	...	...	...	...	...	
	N. S.	Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	8 21 48	4	...	...	...	...	
	L	9 23 24	24	...	...	...	...	
	F	9 46 12	...	...	...	...	...	
„ 29th	N. S.	Instrument.	..	...	...	...	...	E W. Instrument under adjustment.
	P	22 3 48	...	...	...	...	...	
	S	22 4 48	...	...	...	...	...	●
	F	22 29 6	...	...	...	...	...	
„ 30th	N. S.	Instrument.	...	...	...	...	...	E. W. Instrument under adjustment.
	P	17 46 24	...	...	...	...	...	
	F	18 7 6	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

The Simla Seismograph notes will appear in a future number of this Review.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.
		h. m.	sec.		
Shillong	April 9th	7 42	1	5	1
Mukteswar	„ 9th	22 55	5	3	1
Drosh	„ 10th	12 02	5	6	2
Ditto	„ 17th	18 15	5	4	1
Ditto	„ 21st	13 58	23	6	3
Cherat	„ 21st	13 58	6	5	2
Srinagar	„ 21st	13 58	3	6	1
Drosh	„ 21st	21 00	5	4	1
Chittagong	„ 29th	21 58	20	6	1

Solar radiation.—Observations not recorded owing to absence of officers on war service.

G. C. SIMPSON,
Imperial Meteorologist, Simla.

Weather in the Indian Ocean.

7. In the equatorial belt as represented by Zanzibar and Seychelles pressure was below normal, and rainfall was unprecedentedly heavy (33·35″ as compared with a normal of 13·85″) at the former station and in slight excess at the latter. Winds were lighter than usual but normal in direction at Zanzibar, and of more than average strength at Seychelles, where the mean direction for the month was very unusual, being S 49° E instead of N 8° E. The heavy rainfall at Zanzibar was, as is frequently the case, associated with a prolongation of winter conditions in north-west India.

The low pressure conditions extended southwards as far as Mauritius.

TABLE 7.

	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·024	—·020	—·022
Actual mean wind direction . .	S 77 E	S 21° W	S 49° E
Normal mean wind direction . .	S 72° E	S 15° W	N 8° E
Actual mean wind velocity (miles per diem).	91	101	104
Normal mean wind velocity (miles per diem).	130	125	82
Rainfall departure from normal . .	+0·55	+19·50	+1·02

Depressions and cyclonic storms.

8. Weather was disturbed almost uninterruptedly over Persia during the first twenty-three days of the month owing to the occurrence of seven disturbances in rapid succession. They were all transmitted eastwards but, being diffuse and of low elevation, failed to cross definitely into the plains of northwest India. The precipitation associated with them occurred largely in Baluchistan and the extreme north.

As far as can be judged from the available information at least four of them were connected with disturbed conditions in the east of the Mediterranean where according to the Egyptian monthly report weather during the month was "often disturbed by depressions."

Over the Indian seas there were no temporary advances of monsoon winds such as occasionally occur during April, and no storms were recorded.

Of the local storms reported in newspapers the following are noteworthy :—

(1) A very severe hailstorm at Bankura on the afternoon of the 6th which lasted about a quarter of an hour and did much damage to property. It is said to have caused a fall of 40° in temperature.

(2) A severe duststorm at Benares at about 16 hrs. on the 16th which caused much damage. It became pitch dark for about 10 minutes.

(3) A storm of unprecedented violence at Bankipore at 18 hrs. of the same date (16th) which lasted about half an hour, and did extensive damage to the mango crop. Intense darkness prevailed while it lasted.

(4) Very severe hailstorms at Hailakandi in the Cachar district of Assam daily at night for a fortnight (from about the 10th onwards). The hailstones are reported to have been very large and to have caused much damage, especially to the tea plants.

Pressure.

9. Atmospheric pressure in the plains of India varied from the normal to a smaller extent than in March, being in defect by only ·006″. The deficiency occurred mainly over the tract extending south-eastwards from the Indus valley to Arakan and the Andamans and was most marked in the North-West Frontier Province where it averaged ·04″ in amount.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·001
Assam	+·003
Bengal	—·005
Bihar and Orissa	—·012
United Provinces	—·014
Punjab	—·018
North-West Frontier Province	—·037
Sind	—·001
Rajputana	—·016
Bombay	+·006
Central India	—·007
Central Provinces	—·006
Hyderabad	+·003
Mysore	+·004
Madras	—·001

The vertical gradient was steeper than usual in the Sind-Baluchistan region, very weak over the east and north Punjab, and about normal in other parts of the country.

The steepness of the vertical gradient in Baluchistan, it may be noted, accompanied the occurrence of abundant rainfall in that region owing to the passage of disturbances of the winter type.

TABLE 9.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	″		″	″
Quetta	—·037	Jacobabad	—·005	+·032
Leh	+·025	Lahore	—·014	—·039
Murree	+·005	Peshawar	—·029	—·034
Simla	+·014	Ludhiana	—·008	—·022
Darjiling	—·007	Dhubri	0	+·007
Mount Abu	—·009	Deesa	+·017?	+·026?
Pachmarhi	—·008	Khandwa	+·007	+·015
Kodaikanal	+·009	Madura	—·002	—·011

Temperature.

10. Maximum temperature was in excess by 4° in Kashmir, in defect from 3° to 6° locally in Assam and Bengal, and very nearly normal elsewhere. Minimum temperature corresponded closely with the average everywhere except in the United Provinces, the Punjab, Kashmir, the North-West Frontier Province, the east of Rajputana, Central India West and the eastern districts of the Central Provinces, where it was appreciably higher than usual. Mean temperature exceeded the normal by 3° in the Punjab and by 2° in the United Provinces and the North-West Frontier Province; it was within 2° of the average in all the other provinces. There was also an excess of 4° in Kashmir.

Temperature conditions were very unsteady in northern India, the only fairly persistent feature being a considerable defect in Assam and Bengal during the second week.

TABLE 10.

Sub-division.	Actual temperature.					Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
1. Bay Islands	93·9	80·2	87·1	13·7	17·3	+1·6	+1·4	+0·2
2. Lower Burma	93·3	75·7	84·5	17·6	25·7	+0·1	—0·4	+0·5
3. Upper Burma	96·5	71·6	84·1	24·9	39·5	—0·5	—0·3	—0·2
4. Assam	83·2	68·2	75·7	15·0	31·0	—2·4	+0·5	—2·9
5. Bengal	91·4	73·3	82·3	18·2	33·5	—2·2	—0·5	—1·7
6. Orissa	97·3	77·7	87·5	19·5	33·3	—0·3	+0·8	—1·1
7. Chota Nagpur	102·5	74·9	88·7	27·6	41·5	+2·1	+2·2	—0·1
8. Bihar	97·9	73·3	85·7	24·6	39·3	—1·1	+1·4	—2·5
9. United Provinces, East	101·5	74·0	87·7	27·5	42·0	+0·2	+2·7	—2·5
10. Do. do., West	101·6	74·1	87·8	27·5	41·2	+1·4	+3·2	—1·8
11. Punjab, East and North	97·5	70·0	83·7	27·4	41·8	+1·9	+4·2	—2·3
12. Do., South-west	96·4	69·8	83·1	26·6	41·9	+0·7	+3·5	—2·8
13. Kashmir	66·6	44·4	55·5	22·2	41·3	+4·0	+3·6	+0·4
14. North-West Frontier Province	90·9	65·7	78·3	25·3	37·9	+1·5	+2·9	—1·4
15. Baluchistan	80·6	54·7	67·3	25·3	41·1	—2·3	+2·7	—5·0
16. Sind	95·9	73·5	84·7	22·4	35·8	+0·3	+1·6	—1·3
17. Rajputana, West	99·7	75·3	87·5	24·5	35·2	—0·7	+1·5	—2·2
18. Do., East	100·2	76·4	88·3	23·7	33·5	0	+3·5	—3·5
19. Gujarat	96·7	73·1	84·9	23·6	32·9	—0·7	+0·7	—1·4
20. Central India, West	100·7	73·3	86·9	27·3	36·7	+0·7	+2·9	—2·2
21. Do. do., East	102·1	73·7	87·9	28·3	39·5	+0·5	+2·3	—1·8
22. Berar	104·1	78·0	91·0	26·1	35·2	+0·7	+2·2	—1·5
23. Central Provinces, West	102·9	75·5	89·2	27·4	38·0	+0·2	+2·4	—2·2
24. Do. do., East	103·6	76·6	90·1	27·0	36·5	+2·5	+3·3	—0·8
25. Konkan	89·6	77·9	83·7	11·7	19·9	+0·3	+0·1	+0·2
26. Bombay Deccan	101·9	71·7	86·8	30·2	40·7	+0·5	+0·3	+0·2
27. Hyderabad, North	102·8	76·1	89·5	26·7	37·8	+1·4	+1·3	+0·1
28. Do., South	103·5	77·7	90·6	25·8	37·4	+1·3	+0·5	+0·8

Sub-division.	Actual temperature. Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Departure from normal of Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
29. Mysore	95·7	70·5	83·1	25·3	32·5	+1·6	+0·9	+0·7
30. Malabar	91·3	78·9	85·1	12·4	20·2	+0·9	+0·7	+0·2
31. Madras, South-east	97·6	78·4	88·0	19·3	27·8	+0·8	+1·5	—0·7
32. Do., Deccan	105·3	80·0	92·7	25·3	35·6	+1·0	+1·2	—0·2
33. Do. Coast, North	93·6	78·1	85·9	15·5	23·9	+0·2	+0·2	0

TABLE 11.

Division.	Departure from normal of Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·2	—0·3	—0·3
Assam	—2·4	+0·5	—1·0
Bengal	—2·3	—0·5	—1·4
Bihar and Orissa	+0·2	+1·5	+0·8
United Provinces	+0·8	+2·9	+1·9
Punjab	+1·5	+3·9	+2·7
North-West Frontier Province	+1·5	+2·9	+2·3

Division.	Departure from normal of Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	+0·3	+1·6	+0·9
Rajputana	—0·3	+2·7	+1·2
Bombay	—0·1	+0·4	+0·1
Central India	+0·6	+2·6	+1·6
Central Provinces	+0·9	+2·6	+1·7
Hyderabad	+1·3	+0·9	+1·1
Mysore	+1·6	+0·9	+1·3
Madras	+0·7	+1·0	+0·8

Winds.

11. (*a*) Winds were of about normal strength in Burma and the Andamans. Their direction was however abnormal at Port Blair and Diamond Island, and such as to indicate a diminished inflow of moist air into Burma across the southern coast.

(*b*) Winds were weaker than usual in Bengal, and in the deltaic districts blew somewhat more directly from the south.

(*c*) Over the greater part of northwest India the air movement was of more than average strength but from about the normal direction, and the steadiness was high generally.

(*d*) In the rest of the country winds were unusually steady, fairly normal in direction, and except in Hyderabad their velocity was up to or above the average.

TABLE 12.

Division.	Departure from normal of Hourly wind velocity.	Wind steadiness.
Burma	—0·1	+ 2
Assam	+0·1	+10
Bengal	—0·6	— 1
Bihar and Orissa	—0·1	+ 3
United Provinces	—0·1	+ 7
Punjab	+0·3	+ 9
North-West Frontier Province	—0·5	+ 3
Sind	+0·7	+ 4
Rajputana	+0·7	+17
Bombay	—0·3	+14
Central India	+0·4	+21
Central Provinces	+0·5	+21
Hyderabad	—0·6	+ 3
Mysore	+0·7	+12
Madras	+0·7	+11

Humidity and cloud.

12. Over the east Punjab, the west of the United Provinces, the Central Provinces, north Hyderabad and the adjacent parts of the Bombay Deccan a considerable defect occurred in both relative humidity and vapour tension, and in the north of Bengal and of Gujarat an appreciable excess; elsewhere in the plains the hygrometric conditions were nearly normal. In the hill districts of Kashmir the amount of aqueous vapour in the air was about the average, but owing to an excess of temperature the percentage of saturation was low; while in Baluchistan, where rainfall was markedly in excess, relative humidity was high.

Cloud was very irregularly distributed. It was more or less in excess from Upper Burma to Kathiawar and also in southeast Madras, Baluchistan, the North-West Frontier Province and the submontane Punjab, and about the average or in defect elsewhere. The excess was greatest in Baluchistan, the North-West Frontier Province, Orissa and north Bengal, while the greatest defect occurred in Rajputana.

TABLE 13.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma . .	73	0	·754	—·021	3·9	+0·3
Assam . . .	86	+ 1	·686	+·003	5·9	+0·1
Bengal . .	81	+ 4	·802	—·002	5·0	+0·8
Bihar and Orissa .	61	+ 2	·645	+·021	2·9	+0·6
United Provinces .	39	— 5	·443	—·019	1·8	+0·2
Punjab . .	41	— 5	·393	—·023	2·5	+0·1
North-West Frontier Province.	57	— 1	·473	+·003	4·4	+1·3
Sind . . .	57	+ 1	·594	+·021	1·3	—0·7
Rajputana . .	32	—1	·356	—·007	1·3	—0·9
Bombay . .	59	— 2	·629	—·032	1·9	0
Central India .	35	0	·412	—·011	2·2	+0·4
Central Provinces .	27	—10	·335	—·091	2·2	+0·3
Hyderabad . .	44	— 9	·531	—·094	2·2	+0·1
Mysore . .	69	— 1	·640	—·001	3·3	—0·2
Madras . .	71	— 2	·840	—·006	3·5	—0·2

Rainfall.

13. The dryness which had characterised the first three months of the year persisted through April, in which month rainfall was in defect over by far the greater part of the country. Indeed the only areas in which the month's aggregate rainfall was above normal were Upper Burma, Bengal, Bihar, the United Provinces East, Baluchistan and south Hyderabad, and even there the excess was less than half an inch except in the case of Bengal where it was considerable. The defect was greatest in the Bay Islands (2·86″ or 99 per cent.), Kashmir (1·57″ or 51 per cent.), Malabar (0·99″ or 34 per cent.), Orissa (0·91″ or 54 per cent.), the Central Provinces East (0·86″ or 88 per cent.), Madras South-east (0·81″ or 54 per cent.), and Mysore (0·69″ or 44 per cent.), and was least and insignificant in Assam, the North-West Frontier Province and Gujarat.

TABLE 14.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	0	4·3	0·02	2·88	—2·86	— 99
2. Lower Burma	1·7	2·0	1·14	1·50	—0·36	— 24
3. Upper Burma	3·2	2·3	1·26	1·15	+0·11	+ 10
4. Assam	13·7	12·1	9·21	9·26	—0·05	— 1
5. Bengal	7·5	4·2	5·87	3·08	+2·79	+ 91
6. Orissa	2·0	2·8	0·77	1·68	—0·91	— 54
7. Chota Nagpur	1·5	1·9	0·67	0·95	—0·28	— 29
8. Bihar	1·7	1·3	0·90	0·65	+0·25	+ 38
9. United Provinces, East	0·6	0·5	0·24	0·20	+0·04	+ 20
10. Do. do., West	0·5	0·7	0·13	0·28	—0·15	— 54
11. Punjab, East and North	0·7	1·1	0·20	0·50	—0·30	— 60
12. Do., South-west	0·9	1·0	0·28	0·43	—0·15	— 35
13. Kashmir	4·4	5·0	1·48	3·05	—1·57	— 51
14. North-West Frontier Province	4·5	3·3	1·51	1·60	—0·09	— 6
15. Baluchistan	2·5	1·5	0·91	0·51	+0·40	+ 78
16. Sind	0	0·3	0	0·11	—0·11	—100
17. Rajputana, West	0·2	0·6	0·07	0·22	—0·15	— 68
18. Do., East	0	0·5	0·02	0·22	—0·20	— 91
19. Gujarat	0	0·1	0	0·03	—0·03	—100
20. Central India, West	0	0·4	0·01	0·15	—0·14	— 93
21. Do. do., East	0·1	0·7	0·02	0·36	—0·34	— 94
22. Berar	0·2	0·7	0·07	0·25	—0·18	— 72
23. Central Provinces, West	0·1	0·8	0·06	0·36	—0·30	— 83
24. Do. do., East	0·4	1·9	0·12	0·98	—0·86	— 88
25. Konkan	0·5	0·7	0·30	0·40	—0·10	— 25
26. Bombay Deccan	1·0	1·4	0·44	0·70	—0·26	— 37
27. Hyderabad, North	0·6	1·3	0·14	0·54	—0·40	— 74
28. Do., South	1·7	1·8	1·15	0·84	+0·31	+ 37
29. Mysore	1·8	2·8	0·87	1·56	—0·69	— 44
30. Malabar	3·1	4·3	1·91	2·90	—0·99	— 34
31. Madras, South-east	1·2	2·3	0·70	1·51	—0·81	— 54
32. Do. Deccan	0·7	1·4	0·34	0·69	—0·35	— 51
33. Do. Coast, North	1·6	1·6	0·81	0·98	—0·17	— 17

TABLE 15.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	1·22	1·29	—0·07	— 5
Assam	9·21	9·26	— 0·05	— 1
Bengal	5·87	3·08	+ 2·79	+ 91
Bihar and Orissa	0·81	0·98	—0·17	— 17
United Provinces	0·18	0·25	—0·07	— 28
Punjab	0·22	0·49	—0·27	— 55
North-West Frontier Province	1·51	1·60	—0·09	— 6
Sind	0	0·11	—0·11	—100
Rajputana	0·03	0·22	—0·19	— 86
Bombay	0·27	0·43	—0·16	— 37
Central India	0·01	0·26	—0·25	— 96
Central Provinces	0·08	0·57	—0·49	— 86
Hyderabad	0·62	0·68	—0·06	— 9
Mysore	0.87	1·56	—0·69	— 44
Madras	0·80	1·38	—0·58	— 42
Mean of India	1·05	1·14	—0·09	— 9

Snowfall.

I.—AFGHANISTAN.

14. No snowfall information has been received, but there was remarkably heavy rain at Kabul.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—Snow to a total depth of about 2 inches fell on the 14th and 26th on the peaks of the Marwatti and Pirghal. By the end of the month the accumulations had disappeared.

(*b*) *Dera Ismail Khan.*—No snowstorms occurred on the hills in this district.

(*c*) *Kurram.*—Snowfall occurred on the higher peaks of the Sufed Koh on the 7th, 10th, 13th, 21st to 24th, 26th and 28th to 30th. At the end of the month about 3 feet of snow still lay unmelted on the Agam pass and about 6 inches on the Paiwar Kotal.

(*d*) *Kohat.*—No snowstorms occurred on the Samana range.

III.—KASHMIR.

(*a*) *Srinagar.*—A few light falls occurred on the summits of the surrounding mountains.

(*b*) *Skardu.*—Heavy snow is reported to have fallen on the higher peaks of the neighbouring hills on the 28th and 29th.

(*c*) *Dras.*—Snow fell at Dras on the 10th, 20th, 25th and 28th to 30th to a total depth of about 1½ feet.

(*d*) *Kargil.*—There was light snowfall on the surrounding hills on the 28th and 29th; the snowline descended to a considerable distance from the top. Accumulations at the end of the month varied between 2 inches and 2 feet.

IV.—PUNJAB.

Kilba (*Simla Hills*).—Snowstorms occurred on the 5th, 6th, 15th, 18th, 19th and 23rd down to 11,000 feet at which level the total fall amounted to 1 foot. The following shows the reported and the average depth of accumulations on the various passes.

TABLE 16.

Name of pass.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet	Feet
Rupin pass	6	10
Brua "	7	9½
Shatul "	8	7½
Harang "	0	2

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—Very light snow fell on the 19th and 20th on the higher peaks in the north of this district.

(*b*) *Almora.*—The total fall of the month was estimated at 5 feet in Byans, 4¾ feet in Malla Darma, 3 feet in Chaudas, 2½ feet in Malla Danpur and ¾ foot in Malla Johar. The lowest descent of the snowline below the perpetual snows was to a distance of 6 miles in Malla Darma.

TABLE 17.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet	Feet.
Newe pass	12	26¼
Lampia "	5	13⅔
Binkaru "	5	17⅔
Lipulekh "	4	12⅔
Pindari peak	2½	2½
Kaphini "	2½	2½
Kuntela "	2½	2½

SUMMARY.

15. There is no information for Afghanistan, but in the mountain zone of the North-West Frontier Province as well as in the western Himalayas the month's snowfall was on the whole lighter than usual, and the accumulations at the end of the month were in general of less than the average depth.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in April, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 11

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, Wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta	21	29·793	29·655	·138	29·723	—·028	29·690	97·4	77·0	20·4	105·4	69·9	35·5	89·1	94·7	86·5	+1·5	72·6	78·4	77·9	76·3
	VI.—Panjab.																					
11	Lahore	702	29·073	28·968	·105	29·014	—·021	29·670	96·9	69·0	27·9	103·8	60·6	43·2	87·4	95·5	82·5	+1·6	59·8	67·7	69·8	65·8
	IX.—Rajputana.																					
18	Jaipur	1,421	28·358	28·243	·115	28·295	—·052	29·623	100·7	72·5	28·2	104·7	67·0	37·7	91·5	98·9	86·5	+0·2	58·2	65·8	66·3	63·4
	X.—Bombay.																					
25	Bombay	37	29·861	29·742	·119	29·812	0	29·789	89·9	77·9	12·0	92·6	75·6	17·0	84·9	86·5	82·9	+0·8	71·0	76·9	77·0	75·0
	XIV.—Mysore.																					
29	Bangalore	3,021	26·952	26·821	·131	26·893	+·015	29·658	95·4	70·4	25·0	97·3	66·8	30·5	85·0	92·9	81·6	+1·7	63·4	69·7	66·8	66·6
	XV.—Madras.																					
31	Pudukkottai	318	29·595	29·439	·156	29·517		29·757	101·3	79·2	22·1	105·0	74·2	30·8	91·0	96·7	90·3			77·5	77·7	
	Madras	22	29·871	29·745	·126	29·815	—·010	29·768	94·1	78·1	16·0	101·2	74·7	26·5	90·7	88·6	85·1	+1·0	76·3	79·3	79·5	78·4
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain		23·175	23·106	·069	23·131		23·093	57·2	45·1	22·1	75·2	39·4	35·8	60·7	65·0	56·8			47·9	50·3	
	Kalabagh																					
	Katmandu	4,388	25·685	25·586	·099	25·633	+·084†	25·588	84·0	54·8*	29·2	94·0	46·1	47·9	74·4	78·9	69·7	+2·6†	51·7	61·2	62·7	58·5
	Kodaikanal	7,688	22·874	22·812	·062	22·843		22·778	71·8	53·9	17·9	75·6	50·5	25·1	67·2	64·2	62·8		48·0	54·9	57·0	53·3
	Extra India.																					
	Seychelles	15	29·931	29·832	·099	29·884	—·02‡†	29·823	86·2	80·4	5·9	89·1	78·5	10·6	84·1	85·3	82·0	+2·6†	74·4	79·0	79·3	77·6
	Mauritius	181																				

N.B.—Elevations in italics indicate barometric determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 27 days.

† Departure from old normals.

A.

stations in India, etc., in April, 1916.

Vapour tension, in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·744	·626	·731	·799	+·002	81	60	46	67	− 3	2·4	2·6	2·5	−0·1	4	0	0	1	7	18	27	1	2	S 21° W	S 30° W	72	69	129	123	1·30	1·25	Calcutta	
																															VI.—Punjab.	
·393	·413	·382	·413	+·018	56	32	24	39	− 2	3·0	2·8	2·9	0	7	9	8	3	6	3	3	2	19	N 14° W	N 15° W	32	28	45	56	0·16	0·10	Lahore	11
																															IX.—Rajputana.	
·313	·314	·243	·303	−·030	39	21	13	26	− 4	1·1	2·2	1·7	−0·8	2	1	1	0	3	2	11	23	17	N 88° W	N 57° W	67	50	108	88	0·09	0·09	Jaipur	18
																															X.—Bombay.	
·665	·815	·802	·786	−·055	70	68	63	70	− 7	2·3	1·2	1·7	+0·1	0	3	4	2	1	1	3	17	29	N 57° W	N 60° W	68	56	175	185	0·04	0·04	Bombay	25
																															XIV.—Mysore.	
·501	·545	·356	·487	−·068	68	46	23	48	− 7	2·8	4·1	3·5		3	4	5	14	6	5	7	10	6	S 53° E	S 27° W	7	38	124	84	0·61	0·23	Bangalore	29
																															XV.—Madras.	
	·763	·693				53	41			5·6	4·1	4·9		11	1	2	2	14	14	12	1	3	S 8° E		47		104		0·14	0·14	Pudukkottai	31
·882	·846	·882	·892	−·008	93	59	63	76	− 2	2·3	2·3	2·3	−1·2	0	0	0	0	22	16	12	0	0	S 17° E	S 36° E	82	83	132	133	0·02	0·02	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·204	·214				39	36			4·9	7·1	6·0																	2·27	0·69	Sarain.	
																															Kalabagh.	
·349*	·392	·389	·399	+·039	86*	47	41	58	0	3·5	4·4	3·9	−0·1	0	0	0	16	0	0	0	44	0	W	N 87° W	9	42	39	26	1·72	0·44	Katmandu.	
·276	·303	·389	·323		66	47	66	60		2·6	7·1	4·9		0	5	15	13	17	2	1	0	7	N 79° E		52		205		1·86	0·94	Kodaikanal.	
																															Extra India.	
·774	·926	·920	·898	+·035	74	79	76	79	− 1	5·1	5·5	5·3	+0·2†	5	3	1	7	29	2	3	3	7	S 49° E	N 8° E	40	9	104	82	8·37	4·57	Seychelles.	
																															Mauritius.	

* Mean of 27 days. † Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 213 stations in India, etc., in April, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.								Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Absolute range during month.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°	°					"	"			"	"	"
Burma	−·001	94·7	−0·2	74·0	−0·3	84·3	−0·3	20·6	31·4	−0·1	+ 2	73	0	·754	−·021	3·9	+0·3	1·22	1·29	−0·07
Assam	+·003	83·2	−2·4	68·2	+0·5	75·7	−1·0	15·0	31·0	+0·1	+10	86	+ 1	·686	+·002	5·9	+0·1	9·21	9·28	−0·05
Bengal	−·005	91·4	−2·3	73·3	−0·5	82·3	−1·4	18·2	33·5	−0·6	− 1	81	+ 4	·602	−·002	5·0	+0·8	5·87	3·08	+2·79
Bihar and Orissa	−·012	98·9	+0·2	74·8	+1·5	86·9	+0·8	24·1	38·3	−0·1	+ 2	61	+ 2	·645	+·021	2·9	+0·6	0·81	0·98	−0·17
United Provinces of Agra and Oudh	−·014	101·5	+0·8	74·0	+2·9	87·8	+1·9	27·5	41·6	−0·1	+ 7	39	− 5	·443	−·019	1·8	+0·2	0·18	0·25	−0·07
Punjab	−·018	97·1	+1·5	69·9	+3·9	83·5	+2·7	27·1	41·8	+0·3	+ 9	41	− 5	·393	−·023	2·5	+0·1	0·22	0·49	−0·27
North-West Frontier Province	−·037	90·9	+1·5	65·7	+2·9	78·3	+2·3	25·3	37·9	−0·5	+ 3	57	− 1	·473	+·003	4·4	+1·3	1·51	1·60	−0·09
Sind	−·001	95·9	+0·3	73·5	+1·6	84·7	+0·9	22·4	35·8	+0·7	+ 4	57	+ 1	·594	+·021	1·3	−0·7	0	0·11	−0·11
Rajputana	−·016	100·0	−0·3	76·0	+2·7	88·0	+1·2	24·0	34·2	+0·7	+17	32	− 1	·356	−·007	1·3	−0·9	0·03	0·22	−0·19
Bombay	+·006	96·8	−0·1	73·7	+0·4	85·3	+0·1	23·2	32·6	−0·3	+14	59	− 2	·629	−·032	1·9	0	0·27	0·43	−0·16
Central India	−·007	101·3	+0·6	73·5	+2·6	87·4	+1·6	27·9	38·1	+0·4	+21	35	0	·412	−·011	2·2	+0·4	0·01	0·26	−0·25
Central Provinces	−·006	103·4	+0·9	76·4	+2·6	89·9	+1·7	27·0	36·9	+0·5	+21	27	−10	·335	−·091	2·2	+0·3	0·08	0·57	−0·49
Hyderabad	+·003	103·2	+1·3	77·0	+0·9	90·1	+1·1	26·2	37·6	−0·6	+ 3	44	− 9	·531	−·094	2·2	+0·1	0·62	0·68	−0·06
Mysore	+·004	95·7	+1·6	70·5	+0·9	83·1	+1·3	25·3	32·5	+0·7	+12	69	− 1	·640	−·001	3·3	−0·2	0·87	1·56	−0·69
Madras	−·001	96·5	+0·7	78·6	+1·0	87·6	+0·8	17·9	26·5	+0·7	+11	71	− 2	·840	−·006	3·5	−0·2	0·80	1·38	−0·58

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	I.—Burma.																						
2	Victoria Point	147	29·760		29·837	29·864	7th	29·672	21st	·192	82·3	90·1		77·6		83·8		12·5	94·1	1st	74·0	14th	20·1
	Mergui	66	29·853	−·004	29·818	29·967	7th	29·749	21st	·218	80·8	91·9	0	74·0	−0·2	82·9	−0·1	17·9	94·8	27th	70·6	9th	24·2
	Tavoy	19	29·901	−·016	29·852	30·015	7th	29·801	21st	·214	81·6	95·4	+1·6	75·0	+0·5	85·2	+1·1	20·4	98·4	26th	69·8	1st	28·6
	Moulmein	94	29·830	+·007	29·861	29·966	6th	29·730	21st	·236	82·7	95·8	+1·3	76·3	−0·3	86·1	+0·5	19·5	98·8	24th	71·5	7th	27·3
	Rangoon	18	29·889	+·002	29·844	30·027	6th	29·774	21st	·253	80·3	98·2	0	75·2	−1·1	86·7	−0·5	23·0	101·4	15th	72·5	3rd	28·9
	Bassein	27	29·878	−·001	29·841	29·999	7th	29·758	21st	·241	† 83·0	† 98·2	† +2·1?	† 76·0	† +0·1	† 87·1	† +1·1?	22·2	101·5	13th	71·9	7th	29·6
	Diamond Island	41	29·861	−·012	29·836	29·974	7th	29·737	21st	·237	83·3	87·4	−1·0	79·7	+0·9	83·5	−0·1	7·7	90·0	23rd	77·0	7th	13·0
	Toungoo	164	29·726	+·007	29·832	29·849	6th	29·611	21st	·233	82·6	98·9	−1·6	73·7	−2·4	86·3	−2·0	25·2	102·5	18th	67·3	9th	35·2
	Kyaukpyu	18	29·875		29·833	29·99[illegible]	5th	29·728	21st	·285	81·3	89·1		75·9		82·5		13·2	94·5	12th	70·3	9th	24·2
	Akyab	20	29·873	−·003	29·834	29·937	5th	29·726	21st	·261	79·7	88·5	−3·1?	73·9	−1·9	81·2	−2·5?	14·6	92·3	18th	66·4	9th	25·9
3	Minbu	*165*	29·690	−·005	29·797	29·825	6th	29·560	21st	·265	84·0	102·0	−1·1	77·1	−0·1	89·5	−0·6	24·9	109·5	30th	70·0	9th	39·5
	Yamethin	644	29·220	+·018	29·812	29·361	6th	29·094	21st	·267	81·4	99·8	−1·5	75·4	−0·9	87·6	−1·2	24·4	105·7	30th	65·4	7th	40·3
	Mandalay	250	29·606	+·005	29·803	29·749	5th	29·470	21st	·279	84·6	103·5	+1·3	77·0	−0·8	90·3	+0·3	26·5	110·9	30th	71·1	11th	39·8
	Monywa	*980*	29·576	−·007	29·806	29·724	5th	29·431	21st	·293	82·0	102·3	+1·3	75·9	+0·7	89·1	+1·0	26·4	110·8	30th	68·6	10th	42·2
	Lashio	*2,890*	27·082	−·017	27·028	27·226	5th	26·912	21st	·314	69·7	87·0	−2·8	62·5	−0·2	74·7	−1·5	24·5	95·1	30th	57·2	10th	37·9
	Bhamo	*361*	29·496	+·015	29·816	29·660	5th	29·351	21st	·309	72·6	92·3	−0·5	66·1	−0·9	79·2	−0·7	26·2	100·0	29th	60·1	5th	39·9
	Myitkyina	458	29·386	−·009	29·809	29·566	5th	29·230	21st	·336	72·0	88·7	0	67·5	+0·3	78·1	+0·1	21·2	97·6	18th	60·4	5th	37·2
	II.—Assam.																						
4	Dibrugarh	352	29·508	−·017	29·829	29·680	14th	29·310	21st	·370	71·5	79·7	+0·2	66·5	+1·2	73·1	+0·7	13·2	89·9	17th	57·6	5th	32·3
	Sibsagar	343	‡ 29·554	‡ +·009	‡ 29·852P	29·683	14th	29·369	21st	·314	71·0	79·3	−2·4	66·5	+0·3	72·9	−1·1	12·8	85·5	17th	60·5	4th	29·0
	Tezpur	252	29·616	+·006	29·833	29·786	14th	29·431	21st	·355	71·0	81·7	−2·1	67·9	+0·6	74·8	−0·7	13·8	90·9	17th	62·0	23rd	28·9
	Gauhati	196	29·675	+·008	29·829	29·842	14th	29·492	21st	·350	73·3	84·0	−2·7	69·4	+2·1	76·7	−0·3	14·6	91·3	1st	63·1	9th	28·2
	Dhubri	115	29·722	0	29·793	29·896	14th	29·555	21st	·341	74·2	84·6	−3·6	70·3	+0·8	77·4	−1·7	14·3	97·4	1st	63·3	9th	34·1
	Silchar	104	29·789	+·009	29·845	29·921	14th	29·637	21st	·284	72·8	84·1	−4·0	68·7	−0·3	76·4	−2·1	15·4	92·3	30th	62·4	12th	29·9
	Srimangal		29·778		29·794	29·859	6th	29·626	21st	·313	74·5	88·7	−2·1	67·8	−1·0	78·3	−1·5	20·9	95·7	29th & 30th.	61·3	4th	34·4
	III.—Bengal.																						
5	Cox's Bazar	36	29·845		29·826	29·967	13th	29·679	21st	·288	79·4	88·1		72·4		80·3		15·7	91·7	18th	64·5	11th	27·2
	Chittagong	87	29·784	−·003	29·817	29·917	6th	29·645	21st	·272	77·2	87·1	−1·8	72·0	−1·4	79·5	−1·6	15·1	92·4	18th	62·9	9th	29·5
	Noakhali	43	29·820	+·004	29·810	29·982	6th	29·681	2nd	·301	79·0	87·3	−1·6	72·6	−1·1	79·9	−1·3	14·7	90·8	19th	64·2	12th	26·6
	Barisal	12	29·835	+·001	29·794	29·989	6th	29·727	22nd	·262	80·2	90·3	−1·5	73·4	−1·5	81·9	−1·5	16·9	94·2	28th	66·9	8th	27·3
	Narayanganj	26	29·812	−·006	29·787	29·954	14th	29·690	21st	·264	78·6	89·6	−3·0	72·5	−1·8	81·0	−2·4	17·1	95·7	5th	63·4	13th	32·3
	Mymensingh	63	29·782	0	29·797	29·929	14th	29·645	21st	·284	75·0	87·3	−3·4	71·1	−0·8	79·2	−2·1	16·2	93·9	3rd	63·3	22nd	36·6
	Bogra	75	29·750	+·003	29·777	29·914	14th	29·620	21st	·294	76·9	89·9	−5·8	70·9	−0·8	80·4	−3·3	19·0	104·8	3rd	63·8	22nd	41·0
	Dinajpur	123	29·696	+·006	29·775	29·857	14th	29·542	2nd	·315	75·3	88·9	−5·7	70·1	+0·2	79·5	−2·7	18·8	101·8	2nd	65·0	1st, 9th & 22nd.	36·8
	Jalpaiguri	283	29·518	0	29·794	29·717	6th	29·404	21st	·313	73·0	86·9	−2·6	68·7	+0·5	77·8	−1·1	18·2	92·8	3rd	61·9	9th	30·9

N.B.—Elevations in italics indicate barometrical determinations.

‡ Mean of 28 days.
† " " 24 "

B.

stations in India, etc., in April, 1916.

Wind direction. Number of winds from Calm. (25)	N. (26)	N.E. (27)	E. (28)	S.E. (29)	S. (30)	S.W. (31)	W. (32)	N.W. (33)	Resultant direction. (34)	Normal direction. (35)	Wind velocity. Mean velocity, miles per hour. (36)	Normal. (37)	Departure from normal. (38)	Wind steadiness. Actual percentage. (39)	Departure from normal. (40)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (41)	Departure from normal. (42)	Mean vapour tension at 8 hrs. in inches of mercury. (43)	Departure from normal. (44)	Cloud. Mean cloud amount at 8 hrs. (45)	Departure from normal. (46)	Rainfall. Number of rainy days. (47)	Normal number of rainy days. (48)	Departure from normal. (49)	Rainfall of month. (50)	Normal rainfall of month. (51)	Departure from normal. (52)	Total rainfall from 1st Dec., 1915, to 30th Apl., 1916. (53)	Normal rainfall for this period. (54)	Departure from normal of this period. (55)	Heaviest rainfall during month. (56)	Station. (57)
																																I.—Burma.
1	1	19	8	1	0	0	0	0	N 58° E		6·2			86		79		·861		5·1		10			5·56			7·68			1·28	Victoria Point.
30	0	0	0	0	0	0	0	0	Calm	N 8° W	1·1	1·7	−0·6	(a)		86	+ 4	·898	+·010	2·9	−0·6	7	6·4	+ 0·6	3·23	5·72	− 2·49	7·21	12·28	− 5·07	1.08	Mergui.
18	2	7	1	1	0	0	0	0	N 47° E	N 27° W	1·9	1·2	+0·7	30	+26	78	− 6	·845	−·030	2·6	+0·7	0	4·5	− 4·5	0·10	3·14	− 3·04	1·92	5·70	− 3·78	0·05	Tavoy.
0	1	2	1	7	8	8	0	3	S 6° W	S 34° E	9·1	2·8	+6·3	47	+ 2	75	− 3	·834	−·027	2·8	−1·0	0	4·2	− 4·2	0·13	2·90	− 2·77	3·95	3·84	+ 0·11	0·09	Moulmein.
2	2	0	1	0	4	9	8	4	S 71° W	S 61° W	4·8	4·1	+0·7	53	−17	81	+ 1	·838	−·005	8·9	+5·8?	1	1·9	− 0·9	0·43	1·58	− 1·15	5·40	2·47	+ 2·93	0·42	Rangoon.
3	0	0	0	0	1	2	15	8	N 81° W	N 55° W	5·3	4·5	+0·8	76	+ 9	78†	− 1	·883†	+·012	4·0	+1·0	0	1·6	− 1·6	0	1·25	− 1·25	3·15	2·19	+ 0·96	0	Bassein.
0	3	1	0	0	0	1	11	14	N 58° E	N 47° W	8·5	6·2	+2·3	79	+16	73	− 2	·835	−·023	3·2	−0·4	0	1·0	− 1·0	0	1·03	− 1·03	6·10	2·39	+ 3·71	0	Diamond Island.
4	0	1	2	12	10	0	1	0	S 30° E	S 28° E	3·0	3·4	−0·4	69	− 5	76	+ 3	·836	−·018	3·1	+0·1	4	2·6	+ 1·4	2·08	1·97	+ 0·11	6·10	2·92	+ 3·18	0·68	Toungoo.
12	2	3	2	2	0	0	4	5	N 18° W		3·4*			20		78		·834		5·2		2			1·41			2·12			1·14	Kyaukpyu.
5	7	6	3	1	2	2	2	2	N 20° E	N 48° E	3·2	2·8	+0·4	27	−20	83	+ 2	·840	−·012	4·1	−0·1	6	1·8	+ 4·2	4·36	1·70	+ 2·66	4·48	3·20	+ 1·28	1·66	Akyab.
3	1	0	1	25	0	0	0	0	S 48° E	S 45° E	3·3	7·1	−3·8	82	+34	56	− 6	·638	−·040	2·5	+0·7	1	1·2	− 0·2	0·11	0·93	− 0·82	2·11	1·96	+ 0·15	0·11	Minbu.
11	0	1	0	10	7	1	0	0	S 27° E	S 28° E	1·7	5·0	−3·3	53	−18	64	− 1	·681	−·058	2·0	+0·5	3	2·3	+ 0·7	2·73	1·66	+ 1·07	6·41	2·91	+ 3·50	2·00	Yamethin.
14	1	1	0	7	5	2	0	0	S 24° E	S 3° W	2·4	4·6	−2·2	37	−10	53	− 3	·614	−·062	4·2	+2·3	2	2·4	− 0·4	0·51	1·13	− 0·62	1·33	1·77	− 0·44	0·29	Mandalay.
4	11	1	0	4	4	0	0	6	N 4° W		2·7			30		56	− 3	·593	−·058	3·4	+1·5	1	1·9	− 0·9	0·24	1·08	− 0·84	0·86	1·88	− 1·02	0·11	Monywa.
14	1	7	2	0	0	2	1	3	N 20° E		2·5			23		72	+ 3	·518	+·005	2·6	−2·3	10	4·4	+ 5·6	4·01	2·05	+ 1·96	5·36	3·95	+ 1·41	0·96	Lashio.
18	6	5	0	1	0	0	0	0	N 26° E	N 14° W	1·6	3·1	−1·5	33	0	82	+ 6	·654	+·025	4·9	+1·0	11	4·7	+ 6·3	3·93	1·71	+ 2·22	4·48	4·01	+ 0·47	1·01	Bhamo.
26	0	2	1	1	0	0	0	0	N 77° E		2·5			10		78	+ 2	·613	+·001	5·4	+0·5	9	5·1	+ 3·9	2·29	1·81	+ 0·48	3·73	4·31	− 0·58	0·41	Myitkyina.
																																II.—Assam.
8	2	5	10	4	0	0	0	1	N 77° E		1·2			53		85	− 4	·651	+·018	5·2	−1·3	12	15·7	− 3·7	9·06	11·83	− 2·77	18·48	20·22	− 1·74	1·33	Dibrugarh.
3	6	12	4	1	0	1	1	2	N 35° E	N 48° E	3·4	2·4	+1·0	56	+ 3	88	− 3	·670	−·001	7·3	+0·1	15	14·6	+ 0·4	9·67	10·22	− 0·55	19·60	18·81	+ 0·79	1·42	Sibsagar.
19	0	3	8	0	0	0	0	0	N 79° E		4·0			33		87	+ 3	·660	+·020	5·4	−0·2	12	12·7	− 0·7	5·50	6·52	− 1·02	11·71	10·05	+ 1·66	1·15	Tezpur.
28	1	1	1	1	0	0	0	0	N 67° E		1·9			7		84	+ 2	·636	+·029	5·9	0	11	11·6	− 0·6	5·48	6·43	− 0·95	7·72	10·20	− 2·48	1·06	Gauhati.
1	0	13	13	1	1	0	1	0	N 71° E	N 72° E	6·2	6·4	−0·2	76	+13	83	+ 4	·708	+·029	5·7	+0·8	13	7·5	+ 5·5	10·04	4·75	+ 5·29	10·57	7·82	+ 2·75	1·57	Dhubri.
10	1	10	5	0	1	1	1	1	N 54° E	N 82° E	1·9	2·5	−0·6	40	+15	87	+ 4	·699	−·022	7·2	+1·5	16	14·4	+ 1·6	11·10	14·62	− 3·52	19·55	25·76	− 5·91	2·08	Silchar.
																85	− 1	·729	−·053	4·5		14	12·3	+ 1·7	9·45	11·02	− 1·57	16·80	16·12	+ 0·68	1·94	Srimangal.
																																III.—Bengal.
2	0	3	6	12	7	0	0	0	S 51° E		4·2			69		85		·853		4·5		7			8·29			9·35			2·11	Cox's Bazar.
14	0	0	8	8	0	0	0	0	S 67° E	S 47° E	2·3	5·0	−2·7	49	− 8	87	+ 7	·813	−·014	5·7	+1·2	10	5·2	+ 4·8	14.02	4·76	+ 9·26	14·03	9·55	+ 4·48	2·86	Chittagong.
4	0	2	2	12	7	3	0	0	S 32° E		4·4			63		83	+ 2	·822	−·036	4·3	+0·5	12	5·6	+ 6·4	11·00	5·73	+ 5·27	11·02	10·32	+ 0·70	2·35	Noakhali.
10	0	1	0	2	12	5	0	0	S 5° W	S 8° W	3·1	4·2	−1·1	53	− 2	83	+ 1	·850	−·044	5·6	+1·0	12	5·0	+ 7·0	8·16	4·01	+ 4·15	8·21	8·13	+ 0·08	1·59	Barisal.
3	0	1	5	6	11	4	0	0	S 22° E	S 10° E	3·7	5·3	−1·6	62	+ 5	81	− 2	·796	−·049	4·7	−1·3	12	6·2	+ 5·8	11·47	4·95	+ 6·52	13·77	9·35	+ 4·42	2·27	Narayanganj.
12	0	1	6	10	1	0	0	0	S 61° E	S 68° E	3·0	3·1	−0·1	49	−21	85	+ 4	·742	−·023	7·7	+1·9	12	6·9	+ 5·1	7·69	5·57	+ 2·12	7·88	9·34	− 1·46	2·16	Mymensingh.
8	0	1	13	1	6	1	0	0	S 64° E	S 63° E	2·1	3·4	−1·3	49	−10	85	+ 8	·764	+·020	6·1	+2·5	7	3·4	+ 3·6	4·39	1·92	+ 2·47	4·75	4·64	+ 0·11	1·09	Bogra.
1	1	6	17	1	2	2	0	0	N 87° E	N 86° E	3·9	4·1	−0·2	69	+21	81	+ 9	·711	+·046	5·2	+1·0	8	3·1	+ 4·9	4·17	2·19	+ 1·98	4·49	3·95	+ 0·54	0·95	Dinajpur.
14	1	0	2	8	4	0	0	1	S 41° E	N 88° E	2·4			33	−34	85	+10	·689	+·030	5·2	+2·1	15	5·3	+ 9·7	9·74	3·48	+ 5·26	10·59	5·76	+ 4·83	1·60	Jalpaiguri.

(a) Indeterminate.
* Mean of 11 days.
† " " 24 "

Table

(2) Abstract of observations taken at 8 hrs. at 213 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	III.—Bengal—*concld.*																						
	Saugor Island	10	29·811	−·008	29·766	29·924	14th	29·681	21st	·243	83·3	88·8	−1·7	78·3	−1·4	83·5	−1·5	10·5	92·3	27th	71·9	10th	20·4
	Midnapore	149	29·647	−·020	29·744	29·761	6th	29·524	21st	·237	83·9	101·6	+0·6	77·2	+1·2	89·4	+0·9	24·4	111·4	29th	70·2	7th	41·1
	Calcutta	21	29·789	−·014	29·757	29·910	6th	29·666	22nd	·244	82·0	97·1	+1·5	76·7	+1·0	86·9	+1·3	20·4	105·1	30th	69·9	21st	35·2
	Jessore	30	29·795	0	29·772	29·952	6th	29·657	21st	·295	79·7	92·7	−4·0	73·7	−1·2	83·2	−2·6	19·0	101·5	30th	66·2	9th	35·3
	Burdwan	99	29·699	−·014	29·747	29·828	6th	29·550	21st	·278	80·4	99·1	−1·1	74·5	−0·9	86·8	−1·0	24·6	108·4	29th	68·0	13th	40·4
	Berhampore	67	29·733	−·009	29·750	29·835	6th	29·587	22nd	·298	79·6	96·9	−2·6	74·7	+0·4	85·8	−1·1	22·2	107·6	28th	65·8	13th	41·8
	IV.—Bihar and Orissa.																						
6	Balasore	50	29·773	−·001	29·768	29·883	14th	29·652	21st	·231	83·3	97·7	+0·8	77·1	+1·2	87·4	+1·0	20·6	108·2	29th	67·3	18th	40·9
	Hukitala (False Point).	29	29·812	−·005	29·782	29·918	5th	29·673	21st	·245													
	Cuttack	80	29·755	+·001	29·776	29·856	6th	29·627	21st	·229	83·4	101·0	−0·6	78·3	+0·5	89·6	−0·1	22·7	108·5	29th	72·2	8th	36·3
	Puri	24	29·816	−·006	29·781	29·921	14th	29·697	20th	·224	80·8	86·5	−1·4	79·2	+0·6	82·9	−0·4	7·3	91·5	21st	74·4	21st	17·1
	Angul	455	29·362†	−·008†	29·761†	29·451	14th	29·252	21st	·199	82·8	107·4‡		76·2	+2·1	92·8‡		31·2	103·8	29th & 30th.	72·0	21st	36·8
	Sambalpur	486	29·327	−·015	29·758	29·421	5th	29·207	21st	·214	85·1	103·8	+0·2	76·3	+0·9	90·1	+0·5	27·5	108·0	29th	69·2	21st	38·8
7	Chaibasa	733	29·053	−·021	29·734	29·197	17th	28·929	21st	·268	82·4	103·8	+1·4	76·2	+2·0	90·0	+1·7	27·6	109·9	30th	70·7	8th	39·7
	Ranchi	2,128	27·699	−·003	29·717	27·802	5th	27·579	21st	·223	81·6	97·6	+1·3	73·7	+1·8	85·6	+1·5	23·9	103·0	29th	63·7	17th	39·3
	Purulia	816	28·991	+·009?	29·752?	29·109	14th	28·853	21st	·256	83·1	103·7	+1·9	75·9	+1·5	89·8	+1·7	27·8	113·5	3rd	69·1	18th	44·4
	Daltonganj	730	29·023	−·049	29·704	29·133	5th	28·902	21st	·231	80·4	104·8	+3·9	73·8	+3·5	89·3	+3·7	31·0	109·6	28th	66·4	1st	43·3
8	Purnea	124	29·677	−·008	29·758	29·851	14th	29·512	21st	·339	75·9	92·2§	−4·5§	70·7	+0·9	81·6§	−1·8	21·5	101·7	2nd	64·8	1st & 2nd.	36·9
	Monghyr	155	29·613		29·722	29·769	14th	29·462	21st	·307	80·1	96·9		72·6		84·8		24·3	105·8	30th	66·7	8th	39·
	Darbhanga	165	29·623	−·008	29·744	29·770	14th	29·478	2nd	·292	77·9	94·6	−1·5?	71·3	+0·1	83·0	−0·7?	23·3	104·4	30th	64·6	1st	39·
	Pusa	188	29·599		29·743	29·768	14th	29·453	21st	·315	79·9	98·2		69·6		83·9		28·6	108·1	30th	64·8	2nd	43·
	Patna	183	29·577	−·028	29·715	29·710	14th	29·433	21st	·277	82·8	96·5	−3·3	74·8	+1·4	86·6	−0·9	21·7	104·5	30th	69·6	17th	34·
	Buxar	239	29·523	−·020	29·718	29·646	17th	29·375	22nd	·271	81·1	101·8	+1·7	75·5	+1·9	88·6	+1·8	26·3	108·0	28th	70·8	4th	37·
	Gaya	372	29·410	−·004	29·728	29·526	5th	29·276	22nd	·250	87·5	103·3	+0·6	77·8	+2·7	90·6	+1·7	25·5	109·9	29th	71·2	17th	38·
	Naya Dumka	488	29·805	−·003	29·744	29·431	14th	29·162	22nd	·272	83·0	100·1	+0·2	74·2	+0·1	87·1	+0·1	25·9	110·6	29th	66·4	13th	44·
	V.—United Provinces of Agra and Oudh.																						
9	Gorakhpur	257	29·516	−·003	29·731	29·669	14th	29·362	21st	·307	81·5	99·2	−0·7	73·4	+1·5	86·3	+0·4	25·8	108·0	28th	67·2	17th	40·
	Benares	267	29·512	−·008	29·730	29·626	5th	29·377	22nd	·249	86·2	102·9	+0·4	74·5	+2·9	88·7	+1·7	28·4	109·1	28th	69·0	4th	40·
	Allahabad	309	29·459	−·021	29·721	29·572	5th	29·327	22nd	·235	85·8	103·8	+0·6	74·1	+1·9	89·0	+1·3	29·7	109·3	28th	66·3	1st	43·
	Cawnpore	416	29·354	−·011	29·725	29·458	5th	29·240	22nd	·218	83·6	101·7	+0·8	75·1	+3·1	88·4	+1·9	26·6	106·6	28th	65·1	17th	41·
	Lucknow	368	29·400	−·011	29·722	29·514	5th	29·254	22nd	·260	85·7	101·9	+0·1	74·4	+3·7	88·2	+1·9	27·5	107·1	28th	64·8	17th	42·
	Bahraich	407	29·349	−·015	29·715	29·507	14th	29·205	22nd	·302	81·6	99·3	+0·2	72·5	+3·2	85·9	+1·7	26·8	107·2	28th	62·9	1st	44·
10	Jhansi	824	28·965	−·032	29·735	29·076	5th	28·858	21st	·218	86·9	104·6	+1·3	78·5	+1·5	91·5	+1·5	26·1	108·8	28th	72·8	1st, 4th & 17th.	36·
	Agra	556	29·223	−·016	29·731	29·333	5th	29·104	22nd	·229	87·2	102·6	+1·4	77·0	+3·6	89·8	+2·5	25·6	107·4	14th & 24th.	69·0	17th	38·
	Mainpuri	516	29·249	−·019	29·721	29·354	5th	29·142	22nd	·212	83·4	102·7	+1·6	73·5	+3·9	88·1	+2·7	29·2	107·5	30th	65·9	17th	41·
	Bareilly	568	29·167	−·012	29·715	29·314	14th	29·038	22nd	·276	82·4	99·8	+1·3	72·8	+4·0	86·3	+2·7	27·0	104·5	28th	63·4	1st	41·
	Roorkee	899	28·858	−·010	29·721	28·962	14th	28·705	22nd	·257	79·9	98·4	+1·6	68·7	+3·0	83·5	+2·3	29·7	104·3	14th	55·6	1st	48·

N. B.—Elevations in italics indicate barometrical determinations.

† Mean of 29 days.
‡ " 9 "
§ " 24 ".

B—*continued.*

in India, etc., in April, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1915 to 30th April, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																III.—Bengal—*concld.*
1	0	0	2	0	17	10	0	0	S 12° W	S 18° W	12·8	8·5	+4·3	82	+ 5	80	− 1	·914	−·011	5·1	−0·4	0	2·0	−2·0	0·11	1·19	−1·08	0·70	4·44	−3·74	0·06	Saugor Island.
3	1	0	1	9	11	3	0	2	S 13° E		4·4			60		70*	+ 1	·795*	+·033	3·2	+1·5	3	3·5	−0·5	1·06	1·97	−0·91	1·13	5·25	−4·12	0·40	Midnapore.
0	0	0	1	6	9	4	0	0	S 11° W	S 25° W	5·4	5·1	+0·3	79	+ 9	79	+ 1	·858	+·004	4·3	+0·8	3	3·2	−0·2	1·80	1·75	+0·05	1·80	4·77	−2·97	1·25	Calcutta.
4	0	0	0	5	20	1	0	0	S 7° E	S 1° E	4·0	3·0	+1·0	79	+27	83	+ 2	·845	−·025	3·7	−1·0	11	4·9	+6·1	9·89	3·38	+6·51	11·26	7·32	+3·94	4·25	Jessore.
3	0	1	1	5	11	6	3	0	S 6° W	S 27° W	2·4	3·5	−1·1	59	− 1	78	+ 6	·804	+·032	4·7	+1·1	5	3·6	+1·4	3·33	2·18	+1·15	3·33	5·34	−2·01	1·20	Burdwan.
1	1	2	4	4	11	7	0	0	S 12° E	S 2° E	4·7	3·5	+1·2	53	− 4	77	+ 3	·775	+·014	4·5	+0·6	5	2·7	+2·3	1·46	1·48	−0·02	1·52	4·01	−2·49	0·38	Berhampore.
																																IV.—Bihar and Orissa.
3	0	2	0	0	15	9	0	1	S 17° W	S 29° W	4·8	6·3	−1·5	66	+11	73	− 2	·821	−·014	3·7	+1·1	5	3·8	+1·2	1·53	2·14	−0·61	1·78	6·28	−4·50	0·61	Balasore.
0	0	0	0	6	18	6	0	0	S		14·6			28	+11					4·5	−0·9	0	1·6	−1·6	0·05	0·79	−0·74	1·91	4·09	−2·18	0·05	Hukitala (False Point).
11	0	0	1	0	3	8	6	1	S 55° W	S 39° W	3·7	3·7	0	46	−14	75	+ 1	·857	+·021	4·1	+0·5	2	1·8	+0·2	1·32	1·18	+0·14	1·32	3·41	−2·09	0·73	Cuttack.
0	1	0	0	1	11	14	3	0	S 30° W		13·7			80		86	+ 3	·923	+·011	5·5	+2·0	0	1·3	−1·3	0·07	0·67	−0·60	0·07	2·85	−2·78	0·05	Puri.
10	2	3	4	5	1	0	1	4	N 72° E		4·3			23		67	0	·750	+·041	5·0	+2·7	0	3·6	−3·6	0·20	1·92	−1·72	0·22	5·46	−5·24	0·05	Angul.
1	2	10	5	2	2	6	1	1	N 74° E	S 87° E	3·1	2·8	+0·3	23	+13	49	− 1	·584	−·012	5·3	+3·1	3	1·6	+1·4	1·02	0·72	+0·30	1·23	3·08	−1·85	0·67	Sambalpur.
11	0	0	3	0	1	13	1	1	S 40° W	S 62° W	3·2	1·9	+1·3	40	−19	56	− 5	·619	−·026	2·7	+1·0	2	2·9	−0·9	0·74	1·55	−0·81	1·05	5·11	−4·06	0·30	Chaibassa.
1	0	0	1	3	4	8	6	7	S 63° W	S 51° W	4·0	5·4	−1·4	46	− 2	42	0	·457	+·004	2·1	+0·2	1	2·8	−1·8	0·79	1·09	−0·30	1·22	4·94	−3·72	0·65	Ranchi.
15	0	1	1	5	2	3	1	2	S 11° E		2·3			17		56	+ 2	·601	+·043	3·3	+1·1	4	3·3	+0·7	1·34	1·38	−0·04	1·50	5·00	−3·50	0·61	Purulia.
23	0	1	2	2	1	1	0	0	S 56° E		5·3			10		45	− 1	·461	−·009	1·0	−0·7	0	1·1	−1·1	0·11	0·46	−0·35	1·56	3·39	−1·83	0·07	Daltonganj.
0	1	8	17	2	1	1	0	0	N 82° E	N 68° E	3·8	3·4	+0·4	76	+16	81	+13	·723	+·075	3·7	+1·3	4	1·8	+2·2	2·28	1·15	+1·13	2·77	2·84	−0·07	1·05	Purnea.
3	0	4	11	6	0	1	4	1	S 86° E		6·3			43		68*		·678*		1·9		1			1·19			2·07			1·12	Monghyr.
4	0	1	22	0	1	0	2	0	S 89° E	S 67° E	4·7	4·2	+0·5	69	+16	69	+ 4	·655	+·024	0·9	−0·5	2	1·5	+0·5	1·17	0·70	+0·47	1·73	2·28	−0·55	0·80	Darbhanga.
0	2	3	19	2	0	0	2	2	N 78° E		4·0			63		62		·635		2·1		1			0·31			0·77			0·31	Pusa.
8	0	0	15	1	1	2	3	0	S 75° E	S 81° E		3·6		37	+17	56	+ 4	·594	+·050	2·2	+0·7	0	0·7	−0·7	0·03	0·32	−0·29	0·88	2·19	−1·31	0·03	Patna.
0	1	3	11	1	1	6	7	0	S 45° E		5·6			13		48	+ 6	·496	+·049	2·3	+0·7	1	0·4	+0·6	0·14	0·19	−0·05	0·75	2·17	−1·42	0·10	Buxar.
5	2	6	3	0	2	11	1	0	S 24° W	S 34° W	3·3	2·5	−0·2	10	−23	41	−10?	·518	−·075?	0·8	−1·2	1	0·6	+0·4	0·13	0·24	−0·11	0·74	2·39	−1·65	0·11	Gaya.
10	0	0	4	8	3	2	1	2	S 34° E		3·1			37		58*	+ 6	·621*	+·044	1·0	−0·3	3	2·1	+0·9	0·83	1·00	−0·17	1·07	3·39	−2·32	0·57	Naya Dumka.
																																V.—United Provinces of Agra and Oudh.
3	0	2	18	0	0	0	6	1	N 81° E	N 57° E	3·8	2·6	+1·2	43	+32	51	− 2	·536	−·012	0·4	−1·4	1	0·4	+0·2	0·34	0·47	−0·13	1·29	2·27	−0·98	0·34	Gorakhpur.
2	0	2	4	6	1	7	4	4	S 19° W	S 53° W	3·3	2·6	+0·7	20	− 2	39	− 8	·473	−·028	1·6	0	0	0·3	−0·3	0·08	0·19	−0·11	0·95	2·14	−1·19	0·08	Benares.
7	1	3	5	1	1	3	7	2	N 75° W	N 86° W	2·9	3·9	−1·0	10	−12	33	− 3	·408	−·001	3·7	+1·8	0	0·5	−0·5	0	0·16	−0·16	1·01	1·97	−0·96	0	Allahabad.
8	0	2	0	3	3	1	9	4	S 80° W	S 79° W	2·0	3·0	−1·0	33	+14	41	+ 2	·470	+·036	0·6	−0·3	1	0·5	+0·5	0·19	0·24	−0·05	0·60	1·93	−1·33	0·12	Cawnpore.
17	0	1	7	2	0	0	2	1	E	N 81° W	1·1	2·9	−1·8	21	+ 1	39	0	·475	+·056	1·5	−0·4	1	0·5	+0·5	0·35	0·29	+0·06	1·84	2·34	−0·50	0·32	Lucknow.
7	0	2	7	5	0	2	4	3	S 72° E	N 55° E	3·4	3·0	+0·4	13	+ 7	46	− 5	·486	−·052	0·8	−0·7	1	0·7	+0·3	0·30	0·38	−0·08	1·11	2·94	−1·83	0·21	Bahraich.
0	1	1	0	1	2	11	8	6	S 76° W	S 87° W	4·5	2·6	+1·9	62	+32	23	−12	·285	−·151	1·5	+0·5	0	0·6	−0·6	0·03	0·17	−0·14	0·57	1·84	−1·27	0·06	Jhansi.
11	0	1	1	2	3	7	4	1	S 39° W	S 89° W	2·8	3·7	−0·9	33	− 4	28	− 8	·359	−·033	3·2	+1·7	0	0·6	−0·6	0·06	0·25	−0·19	0·70	1·75	−1·05	0·06	Agra.
10	1	0	2	3	3	4	5	2	S 43° W	S 74° W	1·6	1·8	−0·2	27	+13	37	− 4	·424	+·020	2·6	+0·4	0	0·8	−0·8	0·02	0·42	−0·40	1·02	2·38	−1·36	0·02	Mainpuri.
10	0	3	5	3	0	3	5	1	S 45° E	N 20° W	2·1	2·7	−0·6	3	− 5	55	+ 8?	·603	+·158?	3·0	+1·1	0	0·7	−0·7	0·06	0·29	−0·23	1·23	3·11	−1·88	0·06	Bareilly.
20	1	0	1	6	0	0	0	2	S 62° E	S 60° E	2·6	2·4	+0·2	13	+ 6	34	− 8	·349	−·025	1·2	−0·5	2	1·1	+0·9	0·46	0·47	−0·01	1·40	4·90	−3·50	0·24	Roorkee.

* Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs. at 213 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	VI.—Punjab.																						
11	Delhi	718	29·058	−·009	29·737	29·149	6th	28·915	22nd	·234	81·9	99·4	+0·8	76·9	+3·9	88·1	+2·3	22·5	104·4	14th	67·0	17th	37·4
	Hissar	725	29·037	−·017	29·724	29·124	5th & 6th.	28·883	22nd	·241	82·1	100·6	+1·2	71·3	+2·5	85·9	+2·3	29·3	106·6	14th	65·2	4th	41·4
	Patiala	*818*	28·931	−·033	29·718	29·059	5th	28·780	22nd	·279	78·8	98·1	+3·9	71·2	+4·6	84·6	+4·3	26·9	103·6	15th	65·0	21st	38·6
	Ambala	892	28·857	−·021	29·715	28·949	5th	28·710	22nd	·239	80·5	100·7	+5·3?	70·8	+5·3	85·7	+5·3?	29·9	106·7	14th	63·3	3rd	43·4
	Ludhiana	812	28·949	−·008	29·732	29·027	7th & 17th.	28·791	22nd	·236	78·8	98·4	+2·4	71·4	+4·6	84·9	+3·5	27·0	105·3	14th	63·6	20th	41·7
	Lahore	702	29·058	−·014	29·737	29·120	7th & 8th.	28·890	22nd	·230	77·4	96·8	+0·3	69·0	+4·5	82·9	+2·4	27·8	103·8	14th	60·6	29th	43·2
	Sialkot	830	28·923	−·022	29·731	28·997	5th	28·779	22nd	·218	76·8	95·9	+1·9	66·3	+0·4?	81·1	+1·1?	29·6	104·9	15th	59·6	12th	45·3
	Rawalpindi	1,674	28·114	−·020	29·764	28·189	7th	27·967	22nd	·222	73·1	89·7	+2·8	63·3	+3·9	76·5	+3·3	26·4	98·8	15th	55·6	11th	42·2
12	Khushab	612	29·163	−·015	29·747	29·242	7th	29·036	22nd	·206	80·6	95·3	+1·9	71·2	+4·2	83·3	+3·1	24·1	109·7	17th	62·2	19th	47·5
	Lyallpur	605	29·152		29·783	29·225	8th	28·997	22nd	·228	76·6	94·8		66·3		80·6		28·5	101·5	14th	60·5	3rd	41·0
	Montgomery	558	29·203	−·019	29·734	29·273	7th	29·025	22nd	·248	78·7	97·0	−0·2	69·4	+2·5	83·2	+1·1	27·6	104·7	14th	64·0	2nd	40·7
	Multan	426	29·342	−·024	29·735	29·438	7th	29·205	22nd	·233	79·7	98·4	+0·5	72·2	+3·8	85·3	+2·1	26·2	105·3	14th	67·0	6th	38·3
	VII.—North-West Frontier Province.																						
14	Peshawar	1,113	28·700	−·029	29·804	28·837	7th	28·555	22nd	·282	70·8	88·2	+2·7	62·6	+2·3	75·4	+2·5	25·6	97·2	5th	57·9	30th	39·3
	D. I. Khan	590	29·184	−·045	29·751	29·268	7th	29·075	21st	·193	76·5	93·7	+0·4	68·8	+3·6	81·3	+2·0	24·9	100·1	14th	63·7	3rd	36·4
	VIII.—Sind.																						
16	Jacobabad	186	29·598	−·005	29·744	29·702	30th	29·405	21st	·297	82·8	102·0	+2·4	72·6	+2·9	87·3	+2·7	29·4	106·3	18th & 22nd.	65·4	15th	40·9
	Hyderabad	96	29·710	−·009	29·758	29·832	14th	29·563	19th	·269	81·0	100·7	−1·3	72·9	+0·8	86·8	−0·3	27·8	106·8	18th	68·0	24th	38·8
	Karachi	13	29·848	+·012	29·812	29·867	14th	29·704	19th	·163	79·2	85·0	−0·3	75·0	+1·0	80·0	+0·3	10·0	99·7	30th	72·0	27th	27·7
	IX.—Rajputana.																						
17	Bikaner	*771*	29·012	−·001	29·743	29·103	14th	28·867	22nd	·236	82·1	100·0	−0·2	75·1	+0·2	87·5	0	24·9	106·0	19th	68·9	7th	37·1
	Jodhpur	780	29·029	−·012	29·765	29·132	14th	28·877	19th	·255	81·7	99·4	−1·3	75·4	+2·8	87·4	+0·7	24·0	104·3	18th	71·0	25th	33·3
18	Jaipur	1,431	28·365	−·032	29·734	28·454	5th & 6th.	28·247	19th	·207	82·7	100·5	+0·3	72·5	+1·9	86·5	+1·1	28·0	104·7	19th	67·0	9th	37·7
	Ajmer	1,611	28·210	−·025	29·254	28·322	14th	28·086	19th	·236	81·0	96·6	−1·8	76·3	+4·5	86·5	+1·3	20·3	100·8	12th & 30th.	70·4	16th	30·4
	Kotah	832	28·972	−·012	29·744	29·069	6th & 14th.	28·852	19th	·217	90·1	103·4	+1·5	80·5	+4·0	91·9	+2·7	22·9	108·6	19th	76·2	2nd	32·4
	X.—Bombay.																						
19	Deesa	466	29·401	+·017	29·821	29·499	6th	29·302	19th	·197	81·8	103·8	0	72·3	+0·8	88·1	+0·4	31·5	108·8	18th	68·1	7th	40·7
	Bhuj	334	29·531	+·009	29·817	29·625	14th	29·423	18th	·202	80·3	97·4	−3·0	70·8	−0·7?	84·1	−1·9?	26·6	103·6	18th	67·1	7th	36·5
	Jamnagar	61	29·817	−·00[illegible]	29·835	29·923	7th	29·717	19th	·206	79·7	93·0	−2·3	70·7	+0·1	81·9	−1·1	22·3	98·1	30th	65·7	2nd	32·4
	Dwarka	37	29·861	+·001	29·844	29·962	6th	29·750	19th	·212	79·7	85·4	+0·6	77·4	+1·4	81·4	+1·0	8·0	87·1	18th & 30th.	75·7	1st, 3rd & 6th.	11·4
	Rajkot	429	29·450	+·004	29·829	29·556	7th	29·353	19th	·198	79·9	100·2	−2·0	70·1	+1·0	85·2	−0·5	30·1	104·4	19th	66·5	27th	37·9
	Veraval	*18*	29·877	+·009	29·888	29·972	6th	29·794	18th	·178	78·6	84·7	−1·7	72·6	+1·3	79·2	−0·2	11·1	86·1	15th	68·8	2nd	32·3
	Bhavnagar Para	55	29·834	+·013	29·884	29·922	6th & 7th.	29·749	19th	·173	82·1	102·3	+0·4	73·3	−1·3	87·8	−0·5	29·0	107·2	16th	69·0	2nd	38·2
	Surat	39	29·860	+·011	29·842	29·950	6th	29·773	18th	·177	84·1	99·7	−0·1	75·0	+1·9	87·3	+0·9	24·7	106·7	13th	71·1	8th	34·6
	Ahmadabad	163	29·721	+·016	29·833	29·819	6th & 7th.	29·638	18th	·181	82·5	103·7	−0·9	74·9	0	89·3	−0·5	28·8	107·9	18th	70·9	2nd	37·0
25	Bombay	37	29·868	+·003	29·845	29·950	6th	29·811	25th	·139	84·9	89·7	+1·1	77·9	+0·4	83·8	+0·7	11·8	92·6	7th & 8th.	75·6	1st	17·0
	Ratnagiri	207	29·634	−·005	29·830	29·760	7th	29·624	25th	·136	83·3	88·9	−0·8	77·4	+0·3	83·1	−0·3	11·5	92·3	15th	72·1	9th	20·2
	Marmagao	*60*	29·836	−·009	29·830	29·915	8th	29·773	25th	·142	83·8	90·0	+0·6	78·7	−0·5	84·3	+0·1	11·3	93·2	16th	71·6	18th	21·6
	Karwar	44	29·867	+·009	29·846	29·947	8th	29·800	21st	·147	81·4	89·8	+0·3	77·6	+0·1	83·7	+0·2	12·2	93·8	9th	73·2	23rd	20·6

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in April, 1916—*continued.*

Wind Direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 30th April, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																VI.—Punjab.
9	2	1	0	2	0	1	10	5	N 72° W	N 77° W	2·8	2·8	0	43	+ 6	32	− 7	·339	−·041	1·6	−0·4	0	0·8	−0·8	0·15	0·38	−0·23	1·70	3·06	−1·36	0·06	Delhi.
4	6	1	2	2	6	5	2	2	S 45° W	N 28° W	4·0	3·9	+0·1	13	+11	33	− 9	·353	−·053	1·7	−0·5	1	0·7	+0·3	0·24	0·33	−0·09	0·65	2·00	−1·35	0·21	Hissar.
7	8	1	2	3	0	1	5	3	N 21° W		3·9			27		43	− 4	·413	−·032	1·1	−1·1	1	1·1	−0·1	0·40	0·45	−0·05	1·44	4·61	−3·17	0·40	Patiala.
6	11	0	3	5	1	1	2	1	N 26° E	N 18° W	3·0	2·3	+0·7	27	+13	37	−15?	·377	−·063	0·9	−1·0	1	1·7	−0·7	0·38	0·51	−0·13	1·48	5·66	−4·18	0·32	Ambala.
22	1	2	0	0	1	1	1	0	N 23° W	N 27° E	1·3	1·8	−0·5	2	− 5	37	− 9	·351	−·067	1·4	−1·0	0	1·5	−1·5	0·01	0·85	−0·82	1·62	5·65	−4·03	0·01	Ludhiana.
11	9	3	1	2	2	1	0	1	N 22° E	N 31° E	1·9	2·3	−0·4	27	+ 7	46	− 4	·428	−·004	3·4	+0·8	1	1·5	−0·5	0·16	0·50	−0·34	1·02	3·71	−2·69	0·10	Lahore.
4	7	6	1	2	0	0	3	7	N 5° W	N 20° E	2·7	2·0	+0·7	49	+16	44	− 7	·394	−·042	2·2	+0·2	0	1·8	−1·8	0·13	0·82	−0·69	2·02	6·87	−4·85	0·05	Sialkot.
4	3	2	1	1	1	4	8	6	N 71° W	N 30° W	3·4	2·3	+1·1	43	+14	47	− 9	·378	−·030	6·1	+2·7	3	3·8	−0·8	0·99	1·85	−0·86	7·92	9·84	−1·92	0·63	Rawalpindi.
4	5	10	4	1	1	2	2	1	N 39° E	N 37° E	3·2	4·9	+1·3	43	+ 6	38	− 5	·382	−·011	3·9	+1·7	2	2·1	−0·1	1·03	0·89	+0·14	1·63	4·01	−2·38	0·67	Khushab.
6	1	7	2	3	1	1	2	7	N 11° E		2·0			23		44		·397		4·0		0	1·3	−1·3	0·17	0·49	−0·32	1·41	2·38	−0·97	0·08	Lyallpur.
4	5	6	5	4	2	1	1	2	N 60° E	S 83° E	4·5	4·6	−0·1	33	+ 7	44	+ 7	·422	+·055	2·4	+0·2	1	0·8	+0·2	0·52	0·29	+0·23	1·03	2·18	−1·15	0·45	Montgomery.
10	6	7	1	1	0	2	0	3	N 16° E	N 51° E	1·8	1·6	+0·2	37	+14	47	0	·477	+·031	1·3	−0·5	1	0·7	+0·3	0·45	0·20	+0·25	0·88	1·62	−0·74	0·43	Multan.
																																VII.—North-West Frontier Province.
22	1	0	0	2	1	3	0	1	S 27° W	S 54° W	1·4	2·9	−1·5	10	0	62	+ 1	·478	+·026	4·8	+1·1	7	3·8	+3·2	2·10	1·78	+0·32	5·91	7·35	−1·44	0·83	Peshawar.
14	5	7	0	0	0	0	1	3	N 8° E	N 5° E	2·2	1·8	+0·4	40	+ 7	52	− 4	·469	−·021	4·0	+1·5	2	1·6	+0·4	0·59	0·74	−0·15	1·22	3·16	−1·94	0·43	D. I. Khan.
																																VIII.—Sind.
12	2	0	5	5	0	2	1	3	S 79° E	N 88° E	2·7	3·1	−0·4	13	−14	45	+ 4	·506	+·061	1·7	−0·3	0	0·5	−0·5	0	0·16	−0·16	0·05	1·17	−1·12	0	Jacobabad.
1	3	0	0	0	4	17	4	1	S 54° W	S 48° W	7·2	7·9	−0·7	66	+ 9	51	+ 4	·528	+·024	0	−1·5	0	0·1	−0·1	0	0·04	−0·04	0	0·79	−0·79	0	Hyderabad.
1	1	1	0	0	0	4	19	4	N 86° W	N 89° W	12·8	9·6	+3·2	79	+13	75	− 4	·747	−·021	2·1	−0·3	0	0·2	−0·2	0	0·16	−0·16	0·20	1·54	−1·34	0	Karachi.
																																IX.—Rajputana.
10	2	1	2	1	4	8	1	1	S 30° W	S 51° W	3·6	4·3	−0·7	30	+ 8	48	+10	·528	+·199	0·7	−1·3	2	0·5	+1·5	0·54	0·14	+0·40	0·67	1·16	−0·49	0·24	Bikaner.
3	1	4	0	0	2	19	1	0	S 45° W		4·8			49		30	+ 1	·322	+·016	1·3	−0·7	0	0·5	−0·5	0	0·14	−0·14	0	0·73	−0·73	0	Jodhpur.
7	2	1	1	1	0	0	6	12	N 49° W	N 34° W	4·6	3·7	+0·9	53	+19	29	− 4	·326	−·038	0·9	−1·4	0	0·6	−0·6	0·09	0·19	−0·10	0·33	1·48	−1·15	0·09	Jaipur.
6	0	1	0	0	2	8	10	3	S 75° W	W	6·2	4·2	+2·0	56	+25	31	− 8	·322	−·094	2·4	+0·5?	0	0·5	−0·5	0·08	0·20	−0·12	0·13	1·33	−1·20	0·04	Ajmer.
4	2	0	0	0	0	0	10	14	N 59° W		3·1			76		20	− 5	·282	−·028	1·1	−0·1	0	0·8	−0·8	0	0·43	−0·43	0·03	1·27	−1·24	0	Kotah.
																																X.—Bombay.
2	1	1	0	0	1	8	7	10	N 82° W	N 86° W	7·3	6·6	+0·7	62	+32	58	+17?	·621	+·164?	0·8	−0·4	0	0·1	−0·1	0	0·03	−0·03	0	0·42	−0·42	0	Deesa.
0	1	0	0	0	0	0	23	1	N 87° W	N 75° W	8·0	8·5	−0·5	96	+19	64	+ 5	·655	+·019	0·9	−0·4	0	0·1	−0·1	0	0·09	−0·09	0	0·44	−0·44	0	Bhuj.
1	0	0	0	0	1	9	12	7	S 84° W		9·7			78		20	+12?	·812	+·104?	1·8	+0·7	0	0	0	0	0	0	0	0·42	−0·42	0	Jamnagar.
2	0	0	0	0	0	5	15	8	N 85° W		9·9			79		20	0	·810	−·012	2·2	+0·1	0	0	0	0	0	0	0·19	0·68	−0·49	0	Dwarka.
0	1	0	0	0	0	7	15	7	N 88° W	N 86° W	10·4	7·6	+2·8	82	+ 9	63	− 1	·625	−·022	1·8	+0·6	0	0·1	−0·1	0	0·03	−0·03	0	0·30	−0·30	0	Rajkot.
1	8	0	0	0	0	0	3	13	N 45° W	N 47° W	8·4	6·1	+2·6	76	+13	78	+ 4	·757	+·028	1·9	−0·4	0	0	0	0	0	0	0	0·19	−0·19	0	Veraval.
6	5	0	0	0	0	2	5	18	N 50° W	S 66° W	6·0	7·7	−1·7	84	+17	68	+12?	·748	+·136?	1·9	+0·4	1	0·2	+0·8	0·12	0·13	−0·01	0·12	0·50	−0·37	0·12	Bhavnagar Para.
3	11	3	0	2	2	4	0	5	N 15° W	S 61° W	2·8	5·4	−2·6	33	− 7	55	− 9	·642	−·082	1·5	0	0	0·1	−0·1	0	0·05	−0·05	0	0·27	−0·27	0	Surat.
2	2	1	0	0	0	1	3	21	N 46° W	N 45° W	4·7	3·4	+1·3	79	+38	52	+ 5	·569	+·030	1·1	−0·5	0	0·1	−0·1	0	0·03	−0·03	0	0·27	−0·27	0	Ahmadabad.
1	8	6	6	1	0	2	1	5	N 20° E	N 33° E	7·4	7·7	−0·3	49	+39	74	− 1	·791	−·026	3·2	+0·1	0	0·1	−0·1	0·04	0·06	−0·02	0·04	0·27	−0·23	0·04	Bombay.
0	13	3	1	3	4	2	2	2	N 3° E	N 81° W	8·5	6·1	+2·4	30	+10	65	− 5	·732	−·055	2·3	−0·2	0	0·3	−0·3	0	0·10	−0·10	0	0·38	−0·38	0	Ratnagiri.
0	10	1	5	2	3	1	0	8	N 4° E	N 5° W	6·7	6·2	+0·5	27	+23	76	+ 1	·874	+·008	5·2	+1·5	1	0·9	+0·1	0·45	0·87	−0·42	0·45	1·10	−0·65	0·45	Marmagao.
23	0	1	0	0	0	0	0	6	N 36° W	N 9° W	2·0	3·5	−1·5	20	−23	81	+ 3	·872	+·051	3·1	+0·3	0	1·0	−1·0	0·05	0·57	−0·52	0·05	0·83	−0·78	0·04	Karwar.

Table

(2) Abstract of observations taken at 8 hrs. at 213 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	X.—Bombay—*concld.*																						
26	Malegaon	1,430	28·458	+·016	29·805	28·552	6th	28·371	18th	·181	86·2	106·7	+3·5P	72·6	+1·3	89·6	+2·4P	34·1	110·4	18th & 19th	67·2	3rd	43·2
	Ahmadnagar	2,154	27·757	+·005	29·787	27·878	6th	27·681	21st	·197	83·7	100·9	+1·2	70·5	+0·8	85·7	+1·0	30·4	103·2	18th	62·9	21st	40·3
	Poona	1,846	28·070	+·017	29·837	28·156	6th	28·018	18th & 21st	·138	79·9	101·4	0	69·7	+0·5	85·5	+0·3	31·7	105·2	26th	68·9	9th, 21st & 22nd	41·3
	Sholapur	1,590	28·276	−·008	29·773	28·381	8th	28·213	25th	·168	85·3	104·1	−0·3	75·5	+0·2	89·8	−0·1	28·6	107·7	27th	68·5	21st	39·2
	Bijapur	*1,948*	27·933	−·005	29·766	28·009	6th & 8th	27·881	21st	·128	84·4	101·4	+0·7	75·1	+0·6	88·3	+0·7	26·3	104·5	27th	66·4	21st	38·1
	Belgaum	2,562	27·372	+·004	29·814	27·457	8th	27·313	21st	·144	77·4	93·6	+0·7	66·7	−0·4	81·7	+0·1	29·9	100·3	3rd	58·5	21st & 22nd.	41·8
	XI.—Central India.																						
20	Neemuch	1,626	28·229	−·001	29·772	28·368	6th	28·126	19th & 21st	·242	84·2	99·7	−0·1	73·6	+2·6	86·6	+1·3	26·1	104·1	14th	68·1	2nd	36·0
	Indore	1,823	28·051	+·008	29·780	28·156	6th	27·964	15th	·192	84·9	101·6	+1·6	73·0	+3·2	87·3	+2·4	28·6	104·7	15th	67·3	3rd	37·4
21	Nowgong	754	29·036	−·017	29·739	29·111	6th	28·925	22nd	·216	84·1	102·8	+0·6	73·7	+2·5	88·2	+1·5	29·1	108·0	28th	66·7	4th	41·3
	Sutna	1,041	28·744	−·016	29·725	28·816	5th	28·639	22nd	·207	85·4	101·3	+0·4	73·7	+2·0	87·5	+1·2	27·6	105·8	28th	68·0	1st & 4th	37·8
	XII.—Central Provinces.																						
22	Buldana	2,134									83·6	99·9	+0·1	77·7	+1·3	88·8	+0·7	22·2	108.0	15th	71·9	20th	31·1
	Akola	925	28·917	−·002	29·770	29·027	6th	28·833	21st	·194	89·0	106·7	+1·0	77·3	+2·6	92·0	+1·8	29·4	109·9	27th	71·5	8th	38·4
	Amraoti	1,215	28·626	−·001	29·763	28·752	6th	28·542	21st	·210	88·2	105·7	+0·9	78·9	+2·7	92·3	+1·8	26·8	109·3	7th	73·1	8th & 20th	36·2
23	Khandwa	1,044	28·809	+·007	29·790	28·904	7th	28·725	21st	·179	84·9	104·7	+0·2	77·2	+2·1	91·0	+1·1	27·5	108·0	15th	70·9	3rd & 8th	37·1
	Hoshangabad	1,006	28·846	+·017	29·782	28·945	5th	28·754	21st	·191	88·3	104·2	0	75·6	+2·1	89·9	+1·1	28·6	109·6	20th	67·4	8th	42·2
	Saugor	1,807	28·025	−·013	29·736	28·122	6th	27·929	21st	·193	84·9	100·9	+0·4	75·7	+2·6	88·3	+1·5	25·2	105·6	28th & 29th	71·0	3rd	34·6
	Jubbulpore	1,327	28·480	−·015	29·735	28·398	6th	28·378	21st	·220	84·3	101·4	+0·1	73·7	+3·5	87·5	+1·8	27·7	106·9	28th	65·5	1st	41·4
	Seoni	2,033	27·823	0	29·733	27·939	6th	27·728	21st	·211	87·6	100·6	+0·1	72·7	+1·8	86·6	+0·9	27·9	103·9	28th	67·5	8th	36·4
	Nagpur	1,017	28·807	−·007	29·747	28·927	6th	28·703	21st	·224	89·8	105·8	+0·6	78·2	+2·2	92·0	+1·4	27·6	108·4	17th & 28th	72·0	1st	36·4
24	Pendra	2,040	27·797	−·008	29·724	27·912	7th	27·696	21st	·216	85·5	100·4	+4·2	75·2	+3·9	87·8	+4·1	25·2	104·4	28th	68·4	17th	36·0
	Raipur	970	28·835	−·023	29·734	28·938	6th	28·722	21st	·216	87·7	105·2	+1·8	80·7	+4·2	92·9	+3·0	24·5	107·6	30th	74·1	1st	33·5
	Chanda	*634*	29·128	−·021	29·751	29·323	6th	29·092	19th	·231	90·7	107·7	+1·5	78·0	+1·8	92·9	+1·7	29·7	110·1	18th	70·0	9th	40·1
	Jagdalpur	1,813	28·054		29·773	28·159	5th	27·944	21st	·215	82·5	101·2		72·6		86·9		28·6	104·4	1st	68·1	20th	36·3
	XIII.—Hyderabad.																						
27	Aurangabad	1,905	27·992	+·005	29·786	28·097	6th	27·926	21st	·171	85·6	101·9	−0·4	75·4	+2·4	88·7	+1·0	26·5	104·4	19th	65·1	20th	39·3
	Nizamabad	1,248	28·605	P	29·767	28·747	6th	28·530	21st	·217	88·8	106·0	+2·7	76·6	+0·1	91·3	+1·4	29·4	108·9	13th & 27th	68·7	9th	40·2
	Bidar	*2,168*									86·4	100·6	+2·0	76·3	+1·3	88·5	+1·7	24·3	106·4	6th	72·4	6th	34·0
28	Gulbarga	1,503	28·357	−·009	29·767	28·459	8th	28·289	21st	·170	84·7	105·3	+1·9	76·7	+0·4	91·1	+1·1	28·6	108·4	25th	66·6	21st	41·8
	Raichur	*1,311*	28·559	+·016	29·783	28·651	6th	28·489	25th	·162	86·9	103·9	+1·5	80·0	+1·0	91·9	+1·3	23·9	106·8	26th	71·5	7th	35·3
	Hyderabad (Deccan)	1,719	28·133	−·001	29·774	28·267	6th	28·037	21st	·230	83·3	101·0	−0·3	76·0	−0·2	88·5	−0·3	25·0	104·3	27th	66·4	14th	37·9
	Hanamkonda	877	28·980	+·002	29·790	29·119	6th	28·879	22nd	·240	84·9	103·8	+2·0	78·1	+1·0	90·9	+1·5	25·7	109·0	26th	74·4	21st	34·6
	XIV.—Mysore.																						
29	Chitaldrug	2,405	27·521	+·008	29·798	27·808	6th	27·467	21st	·191	79·8	98·5	+1·7	73·7	+1·2	86·1	+1·5	24·8	100·6	3rd	66·8	22nd & 23rd	33·8
	Hassan	3,149	26·826	+·006	29·817	26·917	7th	26·749	21st	·168	74·0	93·4	+1·4	67·2	+0·7	80·3	+1·1	26·2	95·8	1st	62·6	25th	33·2
	Bangalore	3,021	26·949	+·001	29·804	27·036	7th	26·859	21st	·177	77·3	95·4	+2·1	70·4	+1·1	82·9	+1·6	25·0	97·2	1st	66·8	8th & 22nd	30·4
	Mysore	2,518	27·426	0	29·814	27·519	7th	27·341	21st	·178	77·9	95·6	+1·1	70·6	+0·5	83·1	+0·8	25·0	98·0	3rd	65·2	19th	32·8

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in April, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 30th April, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																X.—Bombay—*concld.*
2	0	0	0	0	1	6	6	15	N 76° W	N 69° W	5·8	6·9	−1·1	69	+ 6	33	− 9	·4 0	−·093	2·2	+0·5	0	0·4	−0·4	0·02	0·13	−0·11	0·03	0·59	−0·56	0·02	Malegaon.
2	9	1	0	2	1	0	4	11	N 33° W	N 1° E	5·2	7·7	−2·5	59	+11	28	−19	·314	−·213	1·3	0	1	1·1	−0·1	0·22	0·34	−0·12	2·92	1·29	+1·63	0·11	Ahmadnagar.
0	0	0	0	0	0	27	1	2	S 50° W	N 83° W	6·1	7·7	−1·6	89	+32	46	+5?	·467	+·055?	0·3	−1·2	0	1·4	−1·4	0	0·60	−0·60	0	0·94	−0·94	0	Poona.
0	5	4	0	3	0	0	3	15	N 28° W	N 45° W	6·7	6·4	+0·3	59	+36	32	− 5	·378	−·059	2·2	+0·1	0	1·1	−1·1	0	0·51	−0·51	0·38	1·33	−0·95	0	Sholapur.
4	6	2	0	1	0	2	4	11	N 40° W	N 82° W	4·3	4·1	+0·2	56	− 2	33	−21	·381	−·217?	1·3	−0·4	1	2·1	−1·1	0·15	0·82	−0·67	0·19	1·48	−1·29	0·13	Bijapur.
25	1	2	1	0	1	0	0	0	N 59° E	S 83° W	5·3	9·6	−4·3	7	−21	55	− 3	·499	−·028	1·9	−0·9	3	3·5	−0·5	0·97	1·74	−0·77	1·75	2·55	−0·80	0·52	Belgaum.
																																XI.—Central India.
3	7	0	1	0	1	0	10	8	N 51° W	N 51° W	7·0	6·4	+0·6	62	+40	35	− 2	·405	−·013	1·0	−0·4	0	0·2	−0·2	0	0·12	−0·12	0·08	0·77	−0·69	0	Neemuch.
1	3	1	0	1	0	1	14	9	N 66° W	N 45° W	6·1	3·2	+2·9	72	+22	41	+ 2	·482	+·028	2·3	+0·6	0	0·3	−0·3	0·05	0·14	−0·09	1·08	0·74	+0·34	0·05	Indore.
9	1	0	1	0	2	5	11	1	S 75° W	S 75° W	2·2	2·3	−0·1	49	+12	31	− 6	·360	−·048	3·0	+0·9	0	0·2	−0·2	0·03	0·17	−0·14	0·45	2·14	−1·69	0·03	Nowgong.
2	1	1	2	1	10	5	8	0	S 33° W	N 55° W	3·2	4·9	−1·7	49	+ 9	33	+ 5	·400	+·075?	2·6	+0·4	0	0·4	−0·4	0·13	0·16	−0·03	1·66	2·66	−1·00	0·06	Sutna.
																																XII.—Central Provinces.
0	0	0	0	1	0	0	13	16	N 65° W		3·2	6·6	−3·4	87		31		·349		2·7		0	0·6	−0·6	0·01	0·23	−0·22	2·72	1·51	+1·21	0·01	Buldana.
0	0	0	0	0	0	5	11	14	N 75° W	N 67° W	4·8	4·3	+0·5	82	+29	21	− 9	·278	−·098	3·1	+1·2	0	0·5	−0·5	0·05	0·17	−0·12	1·54	1·78	−0·24	0·05	Akola.
3	3	6	1	1	1	6	5	4	N 56° W	S 69° W	4·9	3·9	+1·0	27	− 3	20	−15	·260	−·168	2·0	+0·1	0	0·7	−0·7	0	0·26	−0·26	1·02	1·79	−0·77	0	Amraoti.
13	1	0	0	0	0	0	6	10	N 58° W	N 68° W	6·3	4·7	+1·6	49	−14	26	− 3	·315	−·037	1·8	+0·3	0	0·4	−0·4	0	0·13	−0·13	0·82	0·90	−0·08	0	Khandwa.
10	0	2	0	0	0	16	6	2	S 53° W	S 48° W	2·6	2·2	+0·4	46	+29	26	−11	·351	−·083	1·6	0	0	0·3	−0·3	0·02	0·16	−0·14	1·49	1·48	+0·01	0·01	Hoshangabad.
1	2	1	0	1	2	5	11	7	N 86° W	S 53° W	6·9	3·4	+3·5	59	+42	20	−10	·235	−·106	1·7	+0·2	0	0·4	−0·4	0·02	0·37	−0·35	1·18	2·22	−1·04	0·02	Saugor.
4	1	0	1	6	4	8	5	1	S 27° W	S 18° W	2·0	2·4	−0·4	46	+13	26	− 9	·301	−·081	2·5	+0·9	0	0·7	−0·7	0·02	0·27	−0·25	1·04	2·43	−1·39	0·02	Jubbulpore.
4	8	1	1	2	3	1	4	6	N 37° W	S 86° W	3·8	2·8	+1·0	33	+24	22	−14	·287	−·117	2·9	+0·8	1	1·3	−0·3	0·13	0·50	−0·37	1·34	3·02	−1·68	0·10	Seoni.
0	5	0	2	3	0	0	7	13	N 45° W	N 83° W	4·8	4·4	+0·4	56	+48	23	−12	·327	−·106	2·3	0	1	1·2	−0·2	0·21	0·56	−0·35	1·49	2·39	−0·90	0·18	Nagpur.
4	1	1	0	6	8	4	2	4	S 15° W		5·3			37		26	− 4	·309	0	2·5	+0·5	0	3·1	−3·1	0·07	1·50	−1·43	1·85	5·69	−3·84	0·04	Pendra.
0	1	0	1	1	4	11	9	3	S 61° W	S 56° W	4·6	4·6	0	62	+25	29	− 8	·373	−·074	1·2	−0·9	0	1·4	−1·4	0	0·66	−0·66	0·92	2·43	−1·51	0	Raipur.
5	0	0	2	5	3	5	7	3	S 42° W	S 52° E	3·9	2·6	+1·3	33	+14	27	−14	·386	−·128	2·2	+0·1	0	1·6	−1·6	0·08	0·65	−0·57	0·30	2·66	−2·36	0·08	Chanda.
0	2	1	0	2	9	19	5	1	S 37° W		4·0			59		54		·588		2·7		2			1·30			1·34			0·90	Jagdalpur.
																																XIII.—Hyderabad.
1	9	3	0	1	1	4	6	5	N 43° W		3·1			46		29	0	·348	−·005	2·6	+1·4	1	0·6	+0·4	0·20	0·27	−0·07	1·40	1·24	+0·16	0·20	Aurangabad.
3	6	1	1	1	2	4	5	7	N 59° W		3·4			40		27	−24	·365	−·281	2·8	+0·5	0	1·9	−1·9	0·10	0·93	−0·83	0·25	2·15	−1·90	0·08	Nizamabad.
5	2	2	0	0	1	8	3	9	N 78° W		5·3			47		33	−19	·408	−·190	1·7	+0·2	1	2·9	−1·9	0·27	1·41	−1·14	0·32	2·61	−1·79	0·22	Bidar.
4	5	7	1	2	2	3	3	3	N 1° E	N 78° W	5·2	6·6	−1·4	22	+15	39	−11	·457	−·144	1·4	−0·4	1	2·3	−1·3	1·07	1·05	+0·02	1·13	1·93	−0·80	1·07	Gulbarga.
0	1	2	2	3	2	11	3	6	S 61° W	S 58° W	5·6	6·2	−0·6	33	− 9	63	+12	·804	+·187?	1·9	−0·4	1	1·5	−0·5	0·36	0·84	−0·48	0·36	1·59	−1·23	0·2	Raichur.
12	1	0	1	2	1	4	2	7	N 84° W	S 72° W	3·6	3·3	+0·3	23	+ 4	58	+ 6	·653	+·059	2·7	+0·5	3	1·3	+1·2	2·90	1·05	+1·85	2·90	2·33	+0·57	0·92	Hyderabad (Deccan).
1	1	1	0	13	14	0	0	0	S 24° E		4·8			76		58	− 4	·685	−·004	2·3	−0·7	0	2·2	−2·2	0	1·04	−1·04	0·04	2·09	−2·05	0	Hanamkonda.
																																XIV.—Mysore.
0	0	0	0	0	0	15	14	1	S 69° W	S 70° W	4·6	4·9	−0·3	89	+26	62	+ 1	·623	+·017	3·1	+0·6	0	2·3	−2·3	0	1·21	−1·21	0·22	2·05	−1·83	0	Chitaldrug.
9	2	0	0	0	0	2	13	3	N 83° W	S 82° W	5·1	2·5	+2·6	57	+28	74	+ 4	·623	+·003	3·6	−0·2	3	4·4	−1·4	1·53	2·34	−0·81	1·63	3·59	−1·96	0·98	Hassan.
2	0	1	0	3	6	8	8	2	S 46° W	S 41° W	5·1	3·5	+1·6	56	+ 2	67	− 4	·628	−·017	3·5	+0·6	3	2·4	+0·6	0·51	1·37	−0·86	0·90	2·47	−1·57	0·23	Bangalore.
8	0	1	1	1	1	9	6	3	S 66° W	S 68° W	4·5	5·8	−1·3	43	− 9	71	− 3	·677	−·006	2·8	−1·9	3	4·9	−1·9	1·24	2·65	−1·41	1·80	3·59	−1·99	0·36	Mysore.

Table

(2) Abstract of observations taken at 8 hrs. at 213 stations

Serial number in Table (1)	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	XV.—Madras.																						
30	Mangalore	72	29·841	—·005	29·844	29·928	7th	29·769	21st	·157	84·6	92·5	+0·8	78·9	+0·7	85·7	+0·7	13·6	96·8	17th	71·2	8th	25·4
	Calicut	27	29·875	—·004	29·831	29·967	7th	29·803	21st	·164	83·9	90·8	—0·2	79·2	+1·2	85·0	+0·5	11·6	92·7	15th	75·6	13th	17·1
	Cochin	9	29·896	—·004	29·833	29·990	7th	29·826	21st	·164	84·3	91·9	+0·3	78·9	+0·5	85·4	+0·4	13·0	94·3	5th	73·4	10th	20·9
	Trivandrum	198	29·703	+·003	29·830	29·787	7th	29·610	21st	·177	83·1	90·1	+2·5	78·7	+0·5	84·4	+1·5	11·4	92·4	15th	75·0	17th & 22nd.	17·4
31	Pamban	37	29·851	—·008	29·815	29·950	7th	29·764	21st	·186	84·6	91·5	0	81·6	+2·5	86·6	+1·3	9·9	93·5	26th & 30th.	78·5	5th & 18th.	15·0
	Madura	447	29·446	—·002	29·820	29·539	7th	29·348	21st	·191	86·0	97·8*	—1·4*	78·5	+1·8	88·2*	+0·2	19·3	102·2	24th	71·9	21st	30·3
	Pudukkottai	318	29·587	+·007	29·834	29·682	7th	29·488	21st	·194	85·6	101·3	+2·0	79·6	+2·0	90·4	+2·0	21·7	105·0	24th	74·2	21st	30·8
	Negapatam	31	29·869	+·005	29·829	29·982	7th	29·774	21st	·188	85·8	93·7	+1·0	80·4	+1·1	87·0	+1·1	13·3	98·1	23rd	76·8	21st	21·3
	Trichinopoly	255	29·648	+·005	29·824	29·741	7th	29·551	21st	·190	86·7	102·1	+1·0	79·0	+1·3	90·6	+1·1	23·1	104·3	25th	75·0	21st	29·3
	Coimbatore	1,341	28·575	+·017	29·836	28·663	7th	28·477	21st	·186	81·0	98·9	+1·7	74·4	+0·9	86·6	+1·3	24·5	102·2	1st	71·1	23rd	31·1
	Salem	913	28·993	+·012	29·829	29·072	6th & 7th.	28·887	21st	·185	85·1	102·3	+1·5	78·1	+1·9	90·2	+1·7	24·2	106·0	25th	70·6	10th	35·4
	Cuddalore	37	29·860	+·002	29·827	29·956	7th	29·747	21st	·209	85·0	93·2	+0·2	78·3	+1·0	85·8	+0·6	14·9	99·1	23rd	75·2	28th	23·9
	Vellore	707	29·189	+·005	29·828	29·278	7th	29·090	21st	·188	83·2	101·4	+2·8	75·5	—1·0?	88·4	+0·9?	25·9	106·4	25th	71·6	28th	34·8
	Madras	22	29·870	—·002	29·824	29·960	6th	29·750	21st	·210	85·5	94·0	+0·9	78·3	+0·9	86·2	+0·9	15·7	101·2	25th	74·8	3rd	26·4
32	Cuddapah	428	29·427	—·012	29·785	29·525	6th	29·331	21st	·194	88·8	107·2	+1·7	82·5	+1·8	94·8	+1·7	25·7	111·8	25th	79·1	23rd	32·5
	Bellary	1,475	28·393	—·009	29·772	28·476	6th	28·313	25th	·163	87·0	104·2	+0·6	77·8	+0·6	91·0	+0·6	26·4	107·1	25th	70·7	22nd	36·4
	Kurnool	923	28·948	+·011	29·794	29·059	5th	28·869	25th	·190	87·4†	104·6‡	+0·8‡	79·7	+1·2	92·2‡	+1·0	24·9	109·5	26th	71·6	22nd	37·9
33	Nellore	66	29·795	—·011	29·796	29·889	5th	29·673	21st	·216	83·9	100·0	—0·4	77·8	+0·4	88·9	0	22·2	108·6	23rd	75·0	1st	33·6
	Masulipatam	15	29·865	—·007	29·815	29·967	6th	29·743	21st	·244	84·9	93·9	—0·9	77·7	0	85·8	—0·5	16·2	98·1	25th	73·3	28th	24·8
	Cocanada	26	29·854	—·009	29·817	29·971	6th	29·732	21st	·239	83·9	97·7	+1·7	78·6	+0·1	88·2	+0·9	19·1	102·7	25th	74·1	10th	28·6
	Waltair (Vizagapatam).	*226*	29·678	—·008	29·804	29·731	5th	29·500	21st	·231	82·9	91·1	+1·7	78·4	+0·2	84·7	+0·9	12·7	94·6	25th	76·1	8th	18·5
	Calingapatam	19	29·834		29·790	29·930	5th	29·714	21st	·216	83·8	92·3		78·8		85·5		13·5	98·1	26th	75·8	8th	22·3
	Gopalpur	33	29·797	—·008	29·770	29·886	14th	29·683	21st	·203	79·8	86·8	—1·1	77·4	+0·3	82·1	—0·4	9·4	90·4	26th	74·9	7th	15·5
	Bay Islands.																						
1	P. V. Fraser	8	29·830		29·777	29·950	6th	29·667	20th	·283	82·5												
	Port Blair	58	29·838	—·009	29·836	29·951	7th	29·743	21st	·208	85·5	93·9	+1·6	80·2	+1·4	87·1	+1·5	13·7	95·8	25th	78·5	5th	17·3
	Kashmir.																						
13	Muzaffarabad		27·474			27·632	29th	27·331	22nd	·301	63·5	80·4		58·2		69·3		22·2	91·8	15th	54·1	29th	37·7
	Srinagar	5,204	24·897	—·001	24·868	24·996	6th	24·796	22nd	·200	53·1	66·9	+0·3	47·0	+2·0	56·9	+1·1	19·9	81·7	15th	40·8	3rd	50·9
	Dras	*10,050*	20·821	+·017	20·789	20·955	14th	20·694	20th	·261	34·0	48·8	+5·0	28·1	+8·3	38·5	+6·2	20·7	59·8	15th	17·5	3rd	42·3
	Leh	*11,503*	19·731	+·025	19·899	19·867	14th	19·591	23rd	·276	43·2	60·0	+4·5	32·8	+2·5	46·4	+3·5	27·2	69·4	15th	28·2	4th	41·2
	Skardu	*7,505*	22·863	—·017	22·833	22·994	5th	22·724	20th	·270	53·6	67·7	+6·2	45·8	+3·6	56·8	+4·9	21·9	77·8	15th	33·0	21st	44·9
	Gilgit	4,890	25·148	+·014	25·121	25·266	11th	24·997	21st	·269	61·6	75·6	+4·1	54·5	+1·7	65·0	+2·9	21·1	87·7	14th	47·2	29th	40·5

N.B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 20 days.
† " " 27 "
‡ " " 28 "

B—*continued.*

in India, etc., in April, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 30th April, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																XV.—Madras.
5	8	4	9	2	1	0	0	1	N 54° E	N 60° E	5·0	2·3	+2·7	53	+22	69	0	·822	+·011	3·8	−0·5	2	2·2	− 0·2	0·39	1·48	− 1·09	9·41	2·16	− 1·75	0·21	Mangalore.
6	6	2	3	0	0	2	1	10	N 21° W	N 13° E	6·2	7·5	−1·3	46	+13	78	+ 1	·905	+·033	3·9	−0·6	2	4·7	− 2·7	0·69	3·86	− 3·17	0·96	6·11	− 5·15	0·40	Calicut.
3	0	6	16	5	0	0	0	0	N 88° E	N 27° E	5·6	4·4	+1·2	79	+19	75	− 2	·876	−·009	3·7	−0·7	6	6·7	− 0·7	3·46	5·21	− 1·75	5·74	10·28	− 4·54	1·04	Cochin.
9	7	4	1	0	0	0	0	8	N 3° W	N 4° E	4·5	4·3	+0·2	53	+ 1	76	− 3	·856	−·003	5·9	+1·5	6	7·0	− 1·0	3·77	4·72	− 0·95	7·07	9·89	− 2·82	2·59	Trivandrum.
10	0	0	3	10	4	2	0	1	S 24° E	S 38° E	4·3	5·3	−1·0	49	+ 3	77	− 1	·908	−·019	2·0	−0·2	2	3·5	− 0·5	1·13	1·96	− 0·83	9·97	13·00	− 3·03	0·40	Pamban.
0	4	5	7	4	2	1	2	5	N 52° E	N 41° E	3·8	2·3	+1·5	27	+ 1	68	− 3	·845	+·005	6·0	+2·5	2	3·0	− 1·0	2·02	2·25	− 0·23	3·57	5·53	− 1·96	1·75	Madura.
3	2	4	2	0	3	7	2	2	S 56° W		4·3			10		69	− 6	·843	−·014	4·6	−0·3	1	2·4	− 1·4	0·14	1·42	− 1·28	4·88	4·80	+ 0·08	0·14	Pudukkottai.
0	0	1	4	17	2	2	4	0	S 37° E	S 6° E	9·0	5·0	+4·0	62	+32	76	+ 2	·933	+·030	4·7	+0·4	0	1·1	− 1·1	0·03	0·69	− 0·66	11·06	14·83	− 3·77	0·03	Negapatam.
2	3	3	1	3	7	7	1	3	S 24° W	S 24° W	3·3	3·9	−0·6	27	+10	64	− 5	·814	−·003	2·7	−1·1	1	1·8	− 0·8	0·21	1·77	− 1·56	3·22	6·17	− 2·95	0·21	Trichinopoly.
13	2	6	1	2	2	3	1	0	N 78° E	S 1° W	2·2	2·2	0	10	− 5	77	− 4	·815	−·003	2·8	−1·3	1	3·1	− 2·1	0·55	1·67	− 1·12	1·22	4·23	− 3·01	0·53	Coimbatore.
6	1	8	2	2	3	2	6	0	N 61° E	S 67° E	4·8	3·4	+1·4	7	− 6	65	− 8	·774	−·065	3·7	+0·1	1	3·7	− 2·7	0·40	3·03	− 1·63	0·82	4·31	− 3·49	0·33	Salem.
5	0	0	0	3	8	9	4	1	S 30° W	S 39° W	5·3	2·0	+3·3	59	+ 7	76	− 2	·909	−·030	5·6	+1·9	1	1·2	− 0·2	0·10	0·69	− 0·59	3·89	10·39	− 6·70	0·10	Cuddalore.
20	0	0	0	3	1	2	4	0	S 36° W		3·2			19		71	− 2	·804	−·011	1·9	−0·7	0	1·5	− 1·5	0	1·01	− 1·01	0·87	6·76	− 5·89	0	Vellore.
0	0	0	0	1	14	15	0	0	S 21° W	S 10° W	5·6	5·5	+0·1	89	+16	75	0	·914	+·012	2·5	−1·8	0	0·8	− 0·8	0·02	0·61	− 0·59	0·49	8·27	− 7·78	0·02	Madras.
0	0	3	5	8	6	2	3	3	S 35° E	S 41° E				37	0	49	− 7	·659	−·089	2·2	−0·5	0	1·0	− 1·0	0·04	0·53	− 0·49	0·16	2·12	− 1·96	0·04	Cuddapah.
7	1	1	1	2	2	1	6	9	N 67° W	N 69° W	3·8	3·9	−0·1	37	+ 7	51	+ 1	·642	+·049	1·2	−1·7	1	2·0	− 1·0	0·50	0·85	− 0·35	0·51	1·35	− 0·84	0·50	Bellary.
1	0	2	1	1	7	11	3	4	S 43° W	S 10° E	4·5			49	+42	51*	− 4	·699*	+·026	1·8	−0·5	0	1·9	− 1·9	0·13	0·71	− 0·58	0·13	1·56	− 1·43	0·09	Kurnool.
2	0	1	1	0	19	7	0	0	S 8° W	S 29° E	5·2	6·0	−0·8	76	+ 9	76	+ 2	·873	−·009	3·1	−1·1	0	0·5	− 0·5	0	0·41	− 0·41	0·42	5·18	− 4·76	0	Nellore.
1	0	0	0	7	12	8	2	0	S 7° W	S 1° E	6·7	5·6	+1·1	76	+ 9	75	− 6	·897	−·091	4·1	−0·6	0	0·8	− 0·8	0·11	0·66	− 0·55	0·11	2·55	− 2·44	0·08	Masulipatam.
2	0	0	0	1	2	12	11	1	S 61° W	S 66° W	5·8	5·5	+0·3	72	+25	79	+ 3	·917	+·019	6·3	+2·0	1	1·0	0	0·18	0·62	− 0·44	0·32	2·79	− 2·47	0·18	Cocanada.
0	0	0	0	0	4	21	5	0	S 46° W	S 75° W	7·6			92	+19	75	+ 4	·835	+·022	3·0	−1·3	0	1·9	− 1·9	0·02	0·96	− 0·94	0·25	3·99	− 3·74	0·02	Waltair (Vizag.).
2	0	0	0	0	4	15	9	0	S 53° W		9·7			83		76		·882		2·0		0	4·0	− 4·0	0·02	2·43	− 2·41	1·73	5·94	− 4·21	0·02	Calingapatam.
0	1	1	1	0	13	13	0	1	S 22° W	S 35° W	12·4	13·1	−0·7	69	+ 2	88	+ 6	·889	+·016	1·3	+0·1	1	1·5	− 0·5	0·44	0·79	− 0·35	0·71	3·03	− 2·32	0·22	Gopalpur.
																																Bay Islands.
0	0	2	0	2	5	20	1	0	S 32° W					77		84		·929		4·6		0			0·10			0·23			0·04	P. V. Fraser.
6	2	11	4	1	0	0	0	5	N 34° E	N 32° W	3·9	3·5	+0·4	53	+23	73	−10	·896	−·026	3·3	−1·1	0	4·3	− 4·3	0·02	2·88	− 2·86	12·54	12·48	+ 0·06	0·02	Port Blair.
																																Kashmir.
28	0	0	0	0	2	2	0	0	S 18° W		1·3			10		69		·490		4·7		7			2·78			17·51			0·64	Muzaffarabad.
6	1	1	0	7	2	4	4	5	S 46° W	S 29° E	3·0	3·5	−0·5	27	+16	80	− 5	·324	+·002	5·5	+0·4	9	7·4	+ 1·6	2·27	3·65	− 1·38	7·50	14·36	− 6·85	0·46	Srinagar.
26	0	0	0	0	0	2	2	0	S 67° W		2·7			10		79†	− 9	·174†	+·027	5·1	0	5	9·1	− 4·1	1·98	4·01	− 2·03	11·82	14·66	− 2·84	0·82	Dras.
17	9	1	1	4	6	1	0	0	S 23° E	S 66° W	3·7	2·3	+1·4	33	+ 5	39‡	−10	·167‡	−·004	5·2	−0·5	0	0·7	− 0·7	0	0·22	− 0·22	0·36	1·40	− 1·04	0	Leh.
24	0	0	0	0	0	0	1	4	1	W	5·2			18		42	−18	·169	−·048	4·9	−0·7	2	2·8	− 0·8	0·48	1·11	− 0·63	1·10	3·71	− 2·61	0·22	Skardu.
29	0	0	0	0	0	0	1	0	0	S 45° W	0·2			3		59	+ 8	·315	+·071	5·2	−0·9	1	2·9	− 1·9	0·23	1·05	− 0·79	1·20	2·07	− 0·87	0·11	Gilgit.

* Mean of 27 days.

† Mean of 17 days.
‡ " " 23 "

Table

(2) Abstract of observations taken at 8 hrs. at 213 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Baluchistan.																						
15	Fort Sandeman	4,614	25·357		25·326	25·445	10th	25·258	22nd	·187	60·2	80·4		55·0		67·7		25·4	85·3	13th, 17th & 22nd	47·9	27th	37·4
	Quetta	5,502	24·600	—·037	24·560	24·670	10th	24·426	21st	·244	54·2	72·7	—1·2	46·7	+0·9	59·7	—0·1	26·0	80·3	21st	37·9	30th	42·4
	Chaman	4,311	25·637	—·050	25·599	25·712	7th	25·464	21st	·248	61·9	76·5	—0·8	54·8	+0·6	65·7	—0·1	21·7	84·6	21st	46·8	30th	37·8
	Kalat	6,630	23·708		23·670	23·788	17th	23·575	22nd	·213	49·5	63·4	—4·8	43·4	+6·6	56·4	+0·9	28·0	78·3	17th	36·3	28th	42·0
	Dalbandin	2,772	27·070		27·033	27·191	30th	26·865	21st	·326	63·9	86·2		57·5		71·9		28·7	91·9	17th	48·4	1st	46·5
	Pasni		29·850		29·810	29·985	14th	29·696	21st	·289	73·4	89·3		65·9		77·6		23·4	98·4	19th	59·2	25th	39·2
	Panjgur		26·685		26·643	26·784	14th	26·536	22nd	·248	62·7	85·1		59·3		72·2		25·8	92·8	17th	50·4	1st	42·4
	Robat		26·879		26·837	27·087	30th	26·642	21st	·445	65·9	85·3							96·3	21st			
	Seistan (c)		28·107			28·300	30th	27·840	21st	·460	64·7	81·5		59·1		70·3		22·4	90·8	21st	51·0	1st & 6th	39·8
	Hill stations, excluding Kashmir and Baluchistan.																						
	Para Chinar	6,000	24·420	+·002	24·396	24·491	5th	24·334	22nd	·157	56·3	69·7	+2·1	48·0	+1·3	58·9	+1·7	21·7	76·6	4th	41·3	30th	35·3
	Cherat	*4,956*	25·680	+·005	25·648	25·749	5th & 7th	25·563	21st	·186	62·1*	74·1*	+2·3*	56·6*	+1·6*	65·4*	+1·9*	17·5	81·2	17th	35·1	30th	46·1
	Drosh (c)		25·117			25·200	30th	25·050	19th & 24th	·150	54·7	68·0	—1·7	50·8	+2·0	59·4	+0·1	17·2	80·7	14th	37·4	30th	43·3
	Murree	6,333	23·832	+·005	23·800	23·905	5th	23·73[illegible]	21st	·175	58·0	66·6	—0·4	52·6	+1·7	59·6	+0·7	14·0	76·0	14th	40·6	30th	35·4
	Simla	7,222	23·110	+·014	23·072	23·232	14th	22·952	21st	·280	58·3	66·6	+1·4	53·4	+2·0	60·0	+1·7	13·2	73·3	15th	44·4	20th	28·9
	Sanain		23·149	+·014	23·111	23·257	14th	22·984	21st	·273	50·4	67·2	+3·1	45·0	+2·9	56·1	+3·0	22·2	75·2	14th	39·4	3rd	35·8
	Kalabagh																						
	Chakrata	7,072	23·406		23·368	23·523	14th	23·231	21st	·292	61·8	73·9	+4·6	53·9	+2·3	63·9	+3·5	20·0	79·7	14th	44·2	20th	35·5
	Mukteswar	7,592	22·851	+·001	22·810	22·959	14th	22·677	21st	·282	58·8	70·6	+1·3	52·9	+2·5	61·8	+1·9	17·7	76·5	14th	42·2	20th	34·3
	Darjiling	7,432	22·935	—·007	22·890	23·056	6th	22·778	21st	·278	53·8	63·3	+1·1	49·1	+0·6	56·4	+0·9	14·5	70·3	28th	42·7	10th	27·6
	Shillong	4,920	25·116	+·011	25·068	25·241	6th	24·965	21st	·276	63·8	71·5	—2·3	56·7	+0·1	64·1	—1·1	14·8	78·1	30th	49·9	10th	28·2
	Cherrapunji	4,309	25·674	—·001	25·625	25·786	5th	25·519	21st	·267	62·7	69·4	—1·1	58·3	—0·2	63·8	—0·7	11·1	75·5	29th	52·1	3rd	23·4
	Maymyo	3,546	26·431	+·006	26·376	26·534	5th	26·298	21st	·236	69·9	83·6	—0·7	59·5	+0·1	71·6	—0·3	24·1	90·6	30th	53·6	23rd	36·7
	Pachmarhi	3,528	26·438	—·003	26·386	26·531	6th	26·340	21st	·191	79·7	93·1	+1·9	71·6	+2·2	82·4	+1·6	21·5	97·5	27th & 28th	59·9	20th	37·6
	Mount Abu	3,945	26·037	—·009	25·987	26·127	14th	25·938	19th	·189	73·1	82·9	—1·9	66·9	—1·8	74·9	—1·9	16·0	88·2	15th	60·8	2nd	27·4
	Mercara	3,781	26·228	—·006	26·161	26·296	7th	26·14[illegible]	21st	·148	71·9	85·9	+1·9	63·0	—0·9	74·5	+0·5	22·9	92·0	5th	59·7	3rd	32·3
	Ootacamund	*7,397*	23·089	+·019	23·025	23·143	7th	23·033	21st	·110	64·3	74·2	+3·1	51·3	—0·6	62·7	+1·3	22·9	77·7	5th	47·0	29th	30·7
	Kodaikanal	7,18[illegible]	22·881	+·009	22·796	22·920	7th	22·800	21st	·120	60·9	71·8	+2·5	53·9	+0·2	62·8	+1·3	17·9	75·6	25th	50·5	14th	25·1
	Extra India.																						
	Singapore (a)	10	29·833	—·087	29·764	29·909	7th	29·760	24th	·149	84·7	89·1	+0·5	75·1	+0·5	82·1	+0·5	14·0	91·5	6th	72·5	11th & 25th	19·0
	Penang (a)	17	29·829	—·085	29·771	29·995	8th	29·730	21st	·265	82·8	90·3	—0·7	74·4	0	82·3	—0·3	15·9	94·0	9 days	72·0	7th & 9th	22·0
	Trincomalee	99	29·794	+·004	29·822	29·835	7th	29·695	21st	·190	81·5	96·0	+4·5†	78·4	+0·7	87·2	+2·6†	17·6	101·0	21st	73·3	22nd	27·7
	Colombo	24	29·878	—·012	29·827	29·959	7th	29·800	21st	·159	77·8	89·3	0	75·9	—0·3	82·6	—0·1	13·4	96·8	12th	69·8	16th	27·0
	Hambantota	64	29·838		29·828	29·919	7th	29·764	21st	·155	78·1	89·3		76·3		83·0		12·5	93·8	23rd	74·6	1st	19·2
	Minicoy	7	29·929	+·019		29·997	7th	29·889	21st	·108													
	Amini Divi	*13*	29·305	+·006	29·846	30·004	7th	29·848	21st	·156	86·5	94·0	+3·1	79·9	0	87·0	+1·5	14·1	96·2	16th	75·3	6th & 16th	20·9
	Gyantse	13,110	18·564		18·524	18·667	5th & 14th	18·398	8th	·269	39·6	58·5		20·5†		39·6†		38·0	74·6	27th	6·5	5th	68·1
	Phari jong	14,600																					
	Gangtok	5,867	24·502	+·052	24·457	24·537	30th	24·444	8th	·093	62·2	70·3	—0·1	53·4	+6·3	61·8	+6·1	16·9	73·9	20th	48·4	9th	25·5
	Gartok (c)	15,100																					

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(c) Aneroid.

* Mean of 22 days.

† Mean of 28 days.

B—*continued.*

in India, etc., in April, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 30th April, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Baluchistan.
29	0	0	0	0	0	0	1	0	W		2·6			3		55		·284		0·5		4			1·32			2·89			0·41	Fort Sandeman.
22	1	2	3	1	1	0	0	0	N 82° E	S 45° W	2·1	2·6	−0·5	17	+10	69	+18	·292	+·026	3·5	+1·1	5	3·0	+2·0	1·99	1·04	+0·95	6·45	7·82	−1·37	0·85	Quetta.
3	1	0	6	11	8	1	0	0	S 40° E	S 2° W	4·4	5·9	−1·5	66	+23	52	+ 2	·282	−·023	4·6	+1·8	5	1·6	+3·4	1·77	0·56	+1·21	6·91	6·17	+0·74	0·62	Chaman.
30	0	0	0	0	0	0	0	0	Calm	S 35° W	4·9			(a)		69	+20	·242	+·011	2·1		4	1·4	+2·6	1·39	0·45	+0·94	4·41	5·07	−0·66	0·51	Kalat.
10	1	7	3	0	3	2	2	2	N 41° E		5·6			13		51		·296		2·8		3			0·82			4·41			0·34	Dalbandin.
4	1	0	1	0	0	3	16	5	N 83° W		7·9			69		86		·705		2·3		2			1·11			5·20			0·90	Pasni.
15	3	5	3	1	0	1	1	1	N 40° E		5·1			27		65		·363		1·8		1			0·25			6·06			0·22	Panjgur.
5	1	3	1	0	6	13	1	0	S 30° W		4·5			46		44		·275		1·8		3			0·94			3·89			0·55	Robat.
10	9	2	0	0	0	0	0	9	N 16° W		7·6			59		65		·390		0·7		1			0·15			2·18			0·15	Seistan.
																																Hill stations, excluding Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm		1·0			(a)		60	+ 5	·269	+·021	3·2	−0·3	10	8·7	+1·3	4·11	3·82	+0·29	9·98	13·59	−3·61	1·54	Para Chinar.
3	24	1	0	0	0	0	0	2	N 2° W	N 11° W	9·3	9·6	−0·3	86	+34	53*	+ 3	·275*	+·003	4·7	+1·6	7	5·1	+1·9	2·32	2·62	−0·30	7·30	13·81	−6·51	0·65	Cherat.
22	0	4	2	1	0	0	1	0	N 64° E		2·1			17		69	+ 5	·286	+·018	6·2	+2·7	11	8·1	+2·9	5·48	4·17	+1·31	13·14	10·11	+3·03	1·23	Drosh.
14	3	0	0	9	2	0	0	2	S 51° E	N 63° E	5·9	6·3	−0·9	23	+ 3	48	0	·224	0	5·5	+1·6	5	6·6	−1·6	1·86	3·67	−1·81	16·93	17·85	−0·92	0·74	Murree.
																40	0	·196	+·008	3·1	−0·2	6	3·7	+2·3	1·45	1·75	−0·30	6·38	11·38	−5·00	0·41	Simla.
																65	+13	·238	+·030	4·2	+0·8	5	5·6	−0·6	2·27	2·75	−0·48	19·03	23·85	−4·82	0·69	Sarain.
																																Kalabagh.
5	0	23	1	0	0	0	1	0	N 45° E	N 17° E	8·4	5·5	+2·9	72	+34	40	− 6	·211	+·001	1·8	−0·9	3	4·0	−1·0	0·79	1·59	−0·80	4·19	14·39	−10·20	0·42	Chakrata.
5	0	1	3	1	0	1	15	4	N 82° W		7·3			46		39	− 1	·187	+·004	2·7	−0·1	2	3·6	−1·6	0·92	1·40	−0·48	2·58	8·70	−6·12	0·77	Mukteswar.
28	0	0	0	0	0	0	2	0	W	S 28° E	1·9	6·3	−4·4	7	− 1	84	+ 6	·339	+·003	7·5	+2·6	11	7·1	+3·9	9·76	3·66	+6·10	11·80	7·28	+4·52	5·32	Darjiling.
8	1	0	1	0	10	10	0	0	S 21° W		4·8			56		71	+10	·415	+·047	6·0	+2·6	17	9·6	+7·4	10·55	4·21	+6·34	10·97	8·14	+2·83	2·71	Shillong.
7	1	1	1	0	2	10	8	0	S 61° W		5·8			46		89	+ 4	·508	+·013	8·8	+2·0	21	18·0	+3·0	37·28	33·18	+4·08	58·27	45·09	+13·18	7·31	Cherrapunji.
27	0	0	0	0	0	3	0	0	S 45° W.		1·7			10		72	+ 3	·525	−·014	1·7	−0·6	3	3·0	0	1·46	1·88	−0·42	3·80	3·06	+0·74	0·80	Maymyo.
2	3	3	2	0	1	3	4	12	N 45° W	N 88° W	4·5	4·4	+0·1	46	+19	27	− 3	·270	−·028	1·6	−0·2	1	0·7	+0·3	0·22	0·32	−0·10	2·32	2·44	−0·12	0·18	Pachmarhi.
0	0	2	0	0	0	13	9	6	S 81° W	N 53° W	7·0	6·4	+0·6	69	+26	29	− 1	·230	−·031	0·7	−0·6	0	0·4	−0·4	0	0·15	−0·15	0	1·08	−1·08	0	Mount Abu.
20	3	5	1	0	0	0	1	0	N 28° E	N 21° W	2·2	2·9	−0·7	27	−13	73	− 6	·563	−·020	3·9	−0·6	4	5·3	−1·3	1·32	2·60	−1·28	1·64	4·53	−2·89	0·63	Mercara.
5	0	1	8	8	5	1	1	1	S 50° E		3·1			53		50	− 4	·296	−·011	5·2	+1·9	2	6·6	−4·6	1·03	2·40	−1·37	2·72	8·31	−5·59	0·37	Ootacamund.
0	7	12	6	2	0	0	0	3	N 40° E		8·7			69		59	0	·311	−·001	2·7	−0·4	5	7·4	−2·4	1·86	4·28	−2·42	7·66	15·48	−7·52	0·94	Kodaikanal.
																																Extra India.
10	0	5	4	2	4	2	0	3	S 78° E					17						6·1	+1·3	6	11·7	−5·7	3·06	8·65	−5·59	29·86	45·45	−15·59	0·82	Singapore.
0	8	6	7	5	2	1	1	0	N 65° E					46						6·9	+5·9	11	10·3	+0·7	7·73	7·53	+0·20	24·36	28·70	−4·34	1·65	Penang.
0	0	0	1	0	4	19	6	0	S 47° W	S 39° W	5·4	5·0	+0·4	79	+11	83	− 1	·888	−·034	4·3	+1·7	2	3·2	−1·2	0·89	2·06	−1·17	14·05	25·40	−11·35	0·61	Trincomalee.
18	0	7	1	1	0	1	0	2	N 43° E	S 12° E	3·6	4·6	−1·0	27	−25	91	+ 8	·860	−·046	9·4	+4·5	17	10·6	+6·4	8·99	10·27	−1·28	15·61	25·69	−10·08	1·45	Colombo.
2	14	2	0	0	0	0	4	8	N 21° W		6·2			72		89		·852		3·6		6			2·81	3·12	−0·31	14·98	15·05	−0·07	0·66	Hambantota.
11	7	3	2	0	0	0	1	6	N 4° W	N 59° W	2·8	5·4	−2·6	43	−12					3·2	−0·9	2	4·2	−2·2	1·13	3·24	−2·11	6·00	9·83	−3·83	0·63	Minicoy.
0	8	2	0	1	0	0	4	15	N 34° W		5·7			77		73	0	·924	+·028	4·5	−0·2	2	2·0	0	0·44	1·90	−1·46	1·17	3·46	−2·29	0·31	Amini Divi.
13	0	0	1	8	1	4	1	2	S 6° E		4·7			30		48†		·122†				0			0·07			0·16			0·04	Gyantse.
																																Pharijong.
23	0	4	0	0	0	0	0	3	N 11° E		1·2			17		72	− 3	·402	+·017	?	?	20	14·7	+5·3	16·73	11·43	+5·30	26·20	20·98	+5·22	2·36	Gangtok.
																																Gartok.

(a) Indeterminate.

* Mean of 22 days.
† „ „ 15 „

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20*	21	22	23	24
	Extra India—*concld.*																						
	Kashgar (b)	4,255	25·442	—·108		25·690	8rd	24·900	25th	·790	58·9	75·1	+4·6	51·5	+3·6	63·3	+4·1	23·6	91·8	17th	39·3	1st	52·5
	Kabul (b)		24·136	—·104		24·250	12th	24·030	20th & 22nd.	·220	47·3	69·8	—0·2	46·0	+2·6	57·9	+1·2	23·8	78·8	4th	36·8	29th	42·0
	Meshed	3,104									54·1	68·1	—0·1	46·4	—0·5	57·2	—0·3	21·7	84·4	21st	35·0	1st	49·4
	Jask	13	29·874	+·004	29·841	30·009	14th	29·736	21st	·273	73·8	83·8	—2·7	70·1	—3·1	76·9	—2·9	13·7	89·5	21st & 30th.	64·3	13th	25·2
	Muscat	20	P	P	P	P	P	P	P	P	78·2	85·5	—1·0	74·5	—5·2	80·0	—3·1	11·0	93·1	18th	67·1	12th	26·0
	Bahrein	18																					
	Bushire	14	29·879	—·017	29·855	30·056	17th	29·714	12th	·342	70·8	77·8	—3·4	65·5	—1·6	71·6	—2·5	12·3	89·7	20th	59·0	13th	30·7
	Busrah	25	29·894	—·041	29·825*	30·121	16th	29·710	11th	·411	69·5*	83·4	—0·4	62·7	—2·3	73·1	—1·5	20·7	98·1	29th	54·8	6th	43·3
	Kerman																						
	Ispahan (b)	*5,817*	24·244	—·126		24·480	30th	24·020	12th	·460	50·9	68·5	—3·5	45·3	—0·5	56·9	—2·0	23·2	77·9	20th	41·2	1st, 7th & 16th.	36·7
	Tehran (b)	*4,002*																					
	Baghdad	127																					
	Beirut (a)																						
	Aden	94	29·809	—·044	29·826	29·883	17th	29·711	2nd	·172	81·1	87·3	—1·4	79·1	+1·4	83·2	0	8·2	92·2	22nd	76·4	2nd	15·8
	Zanzibar	72	29·916	—·020	29·914	29·954	10th	29·851	2nd	·103	79·7	84·1	—0·3	76·7	—0·6	80·4	—0·5	7·4	87·9	9th	73·0	14th	14·9

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(a) 8½ hrs. observations.
(b) Aneroid.

* Mean of 3 days.

B—*concluded.*

stations in India, etc., in April, 1916—*concluded.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915, to 30th April, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Extra India—*concld.*
18	3	3	0	1	0	0	1	4	N 8° W	N 21° W	1·8	3·4	−1·6	23	+11	53	+ 6	·258	+·045	4·7	+0·3	2	1·1	+0·9	0·45	0·28	+0·17	0·84	1·01	−0·17	0·25	Kashgar.
0	2	3	1	2	0	8	11	3	S 86° W	N 89° W				47	+34	85	+19	·276	+·011	3·3	+0·8	9	6·1	+2·9	8·10	2·86	+5·24	11·67	10·35	+1·32	2·31	Kabul.
25	2	0	0	2	1	0	0	0	S 77° E		1·4			6		71	+ 3	·294	−·018	5·2	+0·7	5	4·5	+0·5	1·46	1·75	−0·29	7·05	6·56	+0·49	0·48	Meshed.
0	7	8	1	1	0	0	0	13	N 5° W	N 45° W	9·1	7·2	+1·9	69	+54	73	+ 5	·601	−·072	0·9	−0·6	5	0·2	+4·8	2·32	0·06	+2·26	5·91	3·75	+2·16	1·03	Jask.
5	0	2	2	1	0	0	0	20	N 34° W	N 51° W	2·9	3·1	−0·2	59	+29	64	+ 5	·610	−·046	2·4	+1·3	8	0·4	+7·6	3·87	0·11	+3·76	9·36	3·35	+6·01	0·86	Muscat.
																							0·9			0·17			2·32			Bahrein.
6	3	2	6	4	1	0	3	5	N 42° E	N 1° E	5·1	6·6	−1·5	20	−17	75	+ 9	·570	+·025	3·6	+0·4	8	1·1	+6·9	2·05	0·18	+1·57	7·99	9·38	−1·39	0·50	Bushire.
4	1	0	8	6	1	4	5	1	S 34° E		4·7			23		79*		·568*		2·8		4	1·5	+2·5	1·48	0·48	+1·00	8·44	4·61	+3·83	0·68	Busrah.
																																Kerman.
20	0	1	0	0	0	4	5	0	S 74° W	N 83° W	2·0	4·7	−2·7	23	−14	65	+ 4	·245	−·034	3·4	+0·7	3	2·4	+0·6	0·53	0·53	0	0·96†	3·52	−2·56	0·18	Ispahan.
										S 63° W		3·2											3·0			1·13			7·07			Tehran.
										N 2° W		3·1											2·1			0·81			5·80			Baghdad.
																																Beirut.
5	1	23	1	0	0	0	0	0	N 45° E	N 80° E	13·6	11·2	+2·4	76	+ 2	81	+ 7	·852	+·049	3·9	+0·3	0	0·4	−0·4	0	0·20	−0·20	0·10	1·56	−1·46	0	Aden.
4	0	0	0	2	11	12	1	0	S 21° W	S 15° W	4·2	5·2	−1·0	73	−11	87	0	·883	+·015	3·3	+1·4	21	14·8	+6·2	33·35	13·85	+19·50	41·38	31·18	+10·20	10·80	Zanzibar.

* Mean of 3 days.

† Rainfall since 20th March 1916.

Table C.—Abstract of observations taken at 8 hrs. at 56 fourth and fifth class stations in India, etc., in April, 1916.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
6	Bishnath	71·0*	82·2	−0·9	67·4*	+4·7*	74·8*	+1·9*	14·8	92·7	17th	62·7	3rd, 4th & 9th.	30·0	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	71·5	84·2	−1·8	65·1	+0·6	74·7	−0·6	19·1	93·4	17th	60·4	6th & 10th.	33·0	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira †	71·3	84·3	−4·7	66·8	+0·5	75·5	−2·1	17·5	96·9	18th	61·4	14th	35·5	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	68·0	82·5	+3·6	64·4	+2·3	73·5	+2·9	18·1	94·0	17th	56·2	5th	37·8	...	...	...	...	...	...	...	...	...	...	...
	Dikom	70·7	81·0	+0·8	65·2	+1·2	73·1	+1·0	15·8	92·8	17th	56·0	5th	36·8	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	71·0	80·5	−1·6	65·6	...	73·1	...	14·9	89·7	17th	59·8	5th	29·9	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	74·3‡	84·2	−3·1	69·3‡	+1·6‡	76·7‡	−0·7‡	14·9	93·4	29th	62·0	2nd & 12th.	31·4	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	70·9	86·5	−1·3	66·8	+1·1	73·7	−0·1	18·7	96·3	17th	61·6	4th	28·7	...	...	...	...	...	...	...	...	...	...	...
	Lumding	72·9	86·7	...	66·4	...	76·6	...	20·3	96·1	30th	62·8	11th	33·3	...	...	...	...	...	...	...	...	...	...	...
	Messa	71·9	87·0	−2·8	61·4	−2·8	74·2	−2·8	25·6	93·4	27th	57·0	10th	36·4	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	69·0	84·0	+0·5	66·5	+2·9	75·3	+1·7	17·5	91·3	16th	60·3	14th	31·0	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	79·6	88·3	−3·0	70·1	−0·3	79·6	−1·9	18·6	94·3	6th	61·3	6th	33·0	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	78·3	92·5	−2·5	70·9	−0·8	81·7	−1·7	21·6	103·1	30th	62·1	13th	41·0	...	...	...	...	...	...	...	...	...	...	...
	Pabna	78·6	93·7	−3·5	72·7	+2·1	83·2	−0·7	21·0	105·2	29th	65·9	13th	39·3	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	70·5	88·5	−0·8	65·3	+1·1	76·9	+0·1	23·2	93·8	23rd	59·1	27th	34·7	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	77·1	88·1	+0·9	65·8	+0·3	76·9	+0·6	22·3	92·1	18th	59·0	1st	33·1	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	75·9	86·1	−1·8	66·4	+0·1	76·2	−0·7	19·7	91·1	1st & 18th.	59·0	22nd	32·1	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 28 days.
† " " 25 "
‡ " " 29 "

C.

and fifth class stations in India, etc., in April, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915, to 30th April, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					II.—Assam.
...	...	...	...	...	91*	0	·690*	+·038	...	...	13	12·5	+0·5	7·29	6·73	+0·56	12·76	11·69	+1·07	1·02	Bishnath.
...	...	...	...	...	82	−4	·610	−·032	...	...	11	10·4	+0·6	6·11	5·11	+1·00	10·82	8·44	+2·38	0·87	Borjuli.
...	...	...	...	...	94	+8	·724	−·018	...	...	17	12·8	+4·2	15·24	12·40	+2·84	19·98	18·07	+1·91	3·23	Chandkhira.
...	...	...	...	...	88	−4	·602	−·020	...	...	10	15·0	−5·0	7·70	11·12	−3·42	17·68	21·16	−3·48	1·97	Doom Dooma.
...	...	...	...	...	86	−4	·648	+·020	...	...	12	15·5	−3·5	8·35	11·05	−2·70	18·57	20·63	−2·06	1·98	Dikom.
...	...	...	...	...	92	+3	·698	+·033	...	...	19	13·0	+6·0	11·28	6·52	+4·76	21·56	11·46	+10·10	2·04	Golaghat.
...	...	...	...	...	85†	−3	·721†	+·030	...	...	19	14·8	+4·2	13·32	14·49	−1·17	26·32	22·38	+3·94	2·65	Hailakandi.
...	...	...	...	...	91	+4	·687	+·043	...	...	15	13·3	+1·7	8·14	7·81	+0·23	17·93	13·21	+4·72	1·43	Jorehat.
...	...	...	...	...	81	...	·649	...	...	...	11	8·3	+2·7	4·36	3·86	+0·50	6·97	7·45	−0·48	0·90	Lumding.
...	...	...	...	...	61	−18	·479	−·194	...	...	13	10·0	+3·0	4·58	5·16	−0·58	10·48	8·73	+1·75	0·78	Messa.
...	...	...	...	...	91	+5	·644	+·072	...	...	6	10·7	−4·7	3·28	6·59	−3·31	8·00	11·16	−3·16	1·02	Panerihat.
																					III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	13	6·9	+6·1	12·69	6·37	+6·32	15·25	10·65	+4·60	2·12	Comilla.
...	...	...	...	...	80	0	·763	+·017	...	...	11	7·8	+3·2	10·18	6·76	+3·42	13·58	10·91	+2·67	2·13	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	11	6·0	+5·0	10·58	4·53	+6·05	15·38	8·25	+7·13	2·06	Faridpur.
...	...	...	...	...	85	+8	·822	+·023	...	...	11	6·3	+4·7	6·72	4·45	+2·27	9·30	7·87	+1·43	1·55	Goalundo.
...	...	...	...	...	83	+4	·820	+·013	...	...	10	4·7	+5·3	7·25	3·12	+4·13	10·75	6·05	+4·70	1·99	Pabna.
...	...	...	...	...	...	...	...	...	...	...	7	5·0	+2·0	5·64	3·29	+2·35	6·35	5·92	+0·43	1·61	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	4	2·9	+1·1	1·87	1·90	−0·03	1·89	4·06	−2·17	0·58	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	4	2·0	+2·0	2·67	1·03	+1·64	2·82	3·45	−0·63	0·92	Malda.
...	...	...	...	...	...	...	...	...	...	...	10	4·3	+5·7	4·68	2·99	+1·69	8·53	5·37	+3·16	0·97	Rangpur.
...	...	...	...	...	90	+4	·672	−·033	...	...	10	6·7	+3·3	8·14	5·68	+2·46	10·07	8·95	+1·12	2·76	Dam Dim.
...	...	...	...	...	75	−3	·710	−·035	...	...	10	9·0	+1·0	6·47	5·89	+0·58	9·44	9·21	+0·23	1·37	Kalchini.
...	...	...	...	...	73	0	·610	+·031	...	...	10	8·8	+1·2	8·50	5·94	+2·56	9·42	10·44	−1·02	2·90	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	15	6·4	+8·6	12·98	4·99	+7·99	14·05	7·85	+6·20	2·19	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	8	3·8	+4·2	6·09	2·34	+3·75	6·44	5·64	+0·80	2·69	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	5	3·1	+1·9	2·78	1·38	+1·40	2·83	4·05	−1·22	1·20	Bankura.
...	...	...	...	...	...	...	...	...	...	...	3	2·8	+0·2	1·77	1·57	+0·20	2·02	4·20	−2·18	1·36	Raniganj (Asansol).
																					IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	1	1·5	−0·5	0·31	0·54	−0·23	1·18	3·61	−2·43	0·24	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	1	1·6	−0·6	1·07	0·76	+0·31	1·43	2·73	−1·30	1·02	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	1	1·0	0	0·86	0·43	+0·43	1·73	2·09	−0·36	0·86	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	2	1·2	+0·8	2·28	0·85	+1·43	3·07	2·50	+0·57	1·12	Motihari.
...	...	...	...	...	...	...	...	...	...	...	2	0·7	+1·3	1·09	0·32	+0·77	2·92	2·06	+0·86	0·64	Chapra.
...	...	...	...	...	...	...	...	...	...	...	1	0·5	+0·5	0·18	0·29	−0·11	0·86	2·36	−1·50	0·18	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	0·6	−0·6	0·05	0·20	−0·15	0·66	2·30	−1·64	0·03	Dehri.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	84·9	99·8	...	73·0	...	86·4	...	26·8	104·5	28th	63·8	12th	40·7	13	2	0	0	1	0	1	4	9	N 55° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	86·3	104·4	...	77·8	...	91·1	...	26·6	107·4	25th	71·9	29th	35·5	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	84·0	100·0	...	78·2	...	89·1	...	21·8	108·9	23rd	70·5	20th	38·4	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	80·8	93·8	...	71·7	...	82·8	...	22·1	102·6	15th	64·8	21st	37·8	0	15	13	0	0	1	1	0	0	N 21° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	49·1	68·1	...	32·5	...	50·3	...	35·6	78·1	14th & 15th.	27·0	4th	51·1	0	13	4	2	0	1	2	0	8	N 6° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	74·5	86·0	−1·6	67·8	+1·0	76·9	−0·3	18·2	91·3	1st	52·8	9th	38·5	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	64·6	70·8	−0·6	56·0	−1·8	63·4	−1·2	14·8	75·7	2nd	50·6	11th	25·1	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	64·3	+5·4	43·2	+4·4	53·8	+4·9	21·1	72·8	14th & 15th.	36·1	21st	36·7	16	0	0	5	2	0	2	5	0	S	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	73·6	−2·2	46·1	+2·7	59·8	+0·3	27·5	81·2	21st	38·0	30th	43·2	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in April, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 30th April, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	0·8	−0·8	0·01	0·33	−0·32	1·17	3·47	−2·30	0·01	Meerut.
...	...	...	...	...	...	...	...	...	...	...	1	1·7	−0·7	0·38	0·70	−0·32	2·47	7·15	−4·68	0·35	Dehra Dun.
																					IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	0·5	−0·5	0	0·25	−0·25	0·07	0·67	−0·60	0	Udaipur.
																					XII.—Central Provinces.
3·3	...	...	40	...	28	...	·332	...	3·1	...	0	...	...	0·07	...	...	1·29	...	...	0·03	Chhindwara.
																					XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	0·8	−0·8	0	0·37	−0·37	2·66	0·90	+1·76	0	Parbhani.
																					XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	1	4·2	−3·3	1·54	2·88	−1·34	5·25	9·60	−4·35	1·46	Tinnevelly.
...	...	...	...	...	66	...	·823	...	1·5	...	0	1·1	−1·1	0·14	0·53	−0·39	0·14	0·89	−0·75	0·08	Anantapur.
...	...	...	...	...	81	...	·937	...	...	...	2	0·8	+1·2	1·11	0·52	+0·59	1·11?	2·23	−1·12?	0·86	Guntur.
																					Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	5·6	...	...	3·38	...	...	16·95	...	...	Car Nicobar.
																					Kashmir.
...	...	...	83	...	34	...	·347	...	1·8	...	1	1·7	−0·7	0·38	0·88	−0·50	3·24	9·83	−6·59	0·34	Jammu.
...	...	...	...	...	...	...	...	...	...	...	15	13·0	+2·0	7·21	10·26	−3·05	40·04	53·86	−13·82	1·01	Sonamarg.
...	...	...	63	...	46	...	·159	...	5·8	...	2	4·0	−2·0	0·34	1·88	−1·54	2·50	6·58	−4·08	0·16	Kargil.
																					Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	1·5	−0·5	0·58	0·49	+0·09	2·21	5·17	−2·96	0·28	Harnai.
																					Hill stations, exclusive of Kashmir.
...	...	...	...	...	69	+ 8	·579	+·032	...	...	9	5·5	+3·5	8·37	3·55	+4·82	9·15	7·06	+2·09	2·87	Panighatta.
...	...	...	...	...	83	+20	·569	+·144	...	...	13	6·7	+6·3	7·76	4·39	+3·37	9·24	9·08	+0·16	1·75	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	20	...	...	19·24	...	...	56·79	...	...	3·59	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	19	...	...	6·12	...	...	13·19	...	...	1·00	Lachung.
...	...	...	...	...	...	...	...	...	...	...	18	...	...	14·42	...	...	24·75*	...	...	2·15	Ringim.
...	...	...	...	...	...	...	...	...	...	...	4	2·3	+1·7	1·08	1·10	−0·02	5·32	9·83	−4·51	0·41	Mussooree.
...	...	...	9	...	...	...	...	...	5·5	+1·7	4	4·5	−0·5	1·19	2·20	−1·01	4·90	10·78	−5·88	0·50	Poo.
...	...	...	...	...	...	...	...	...	...	...	...	6·3	...	...	3·17	...	...	13·68	...	...	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	2·6	...	4	1·9	+2·1	1·73	0·71	+1·02	6·92	7·50	−0·58	0·71	Pishin.

* Rainfall since 1st January 1916.

Table

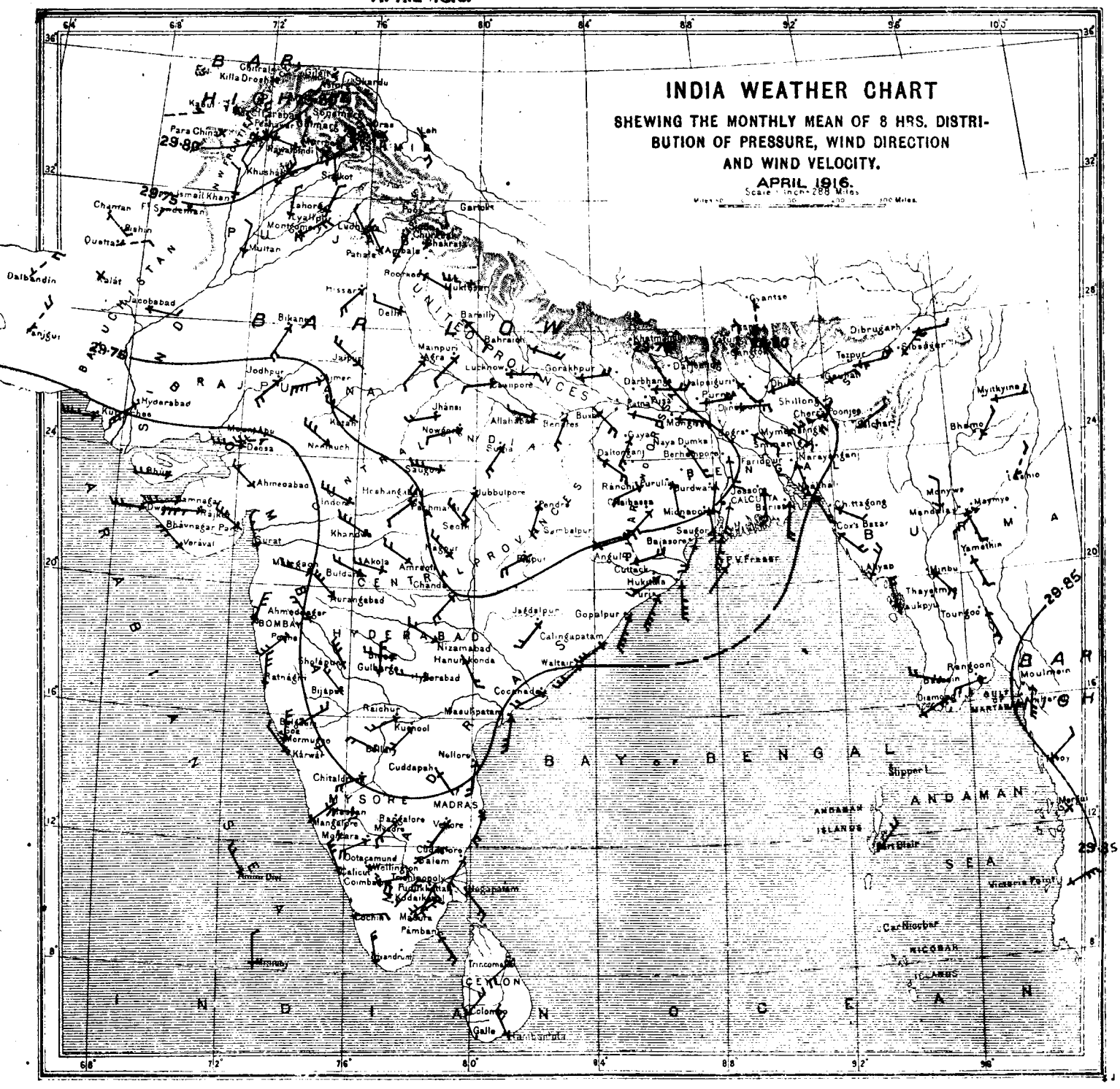
Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi	38·4	?	?	30·4	...	?	...	...	?	...	25·0	2nd	...	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Prison Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

and fifth class stations in India, etc., in April, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915 to 30th April, 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					Extra India.
...	...	...	...	...	95	...	·222	...	0·8	...	4	...	...	1·35	...	...	4·69	...	...	0·45	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	20	19·0	+1·0	18·59	24·31	−5·72	32·04	41·80	−9·76	3·10	Pemba.
...	...	...	...	...	...	...	...	...	...	...	...	14·9	...	...	15·26	...	...	30·69	...	...	Prison Island.

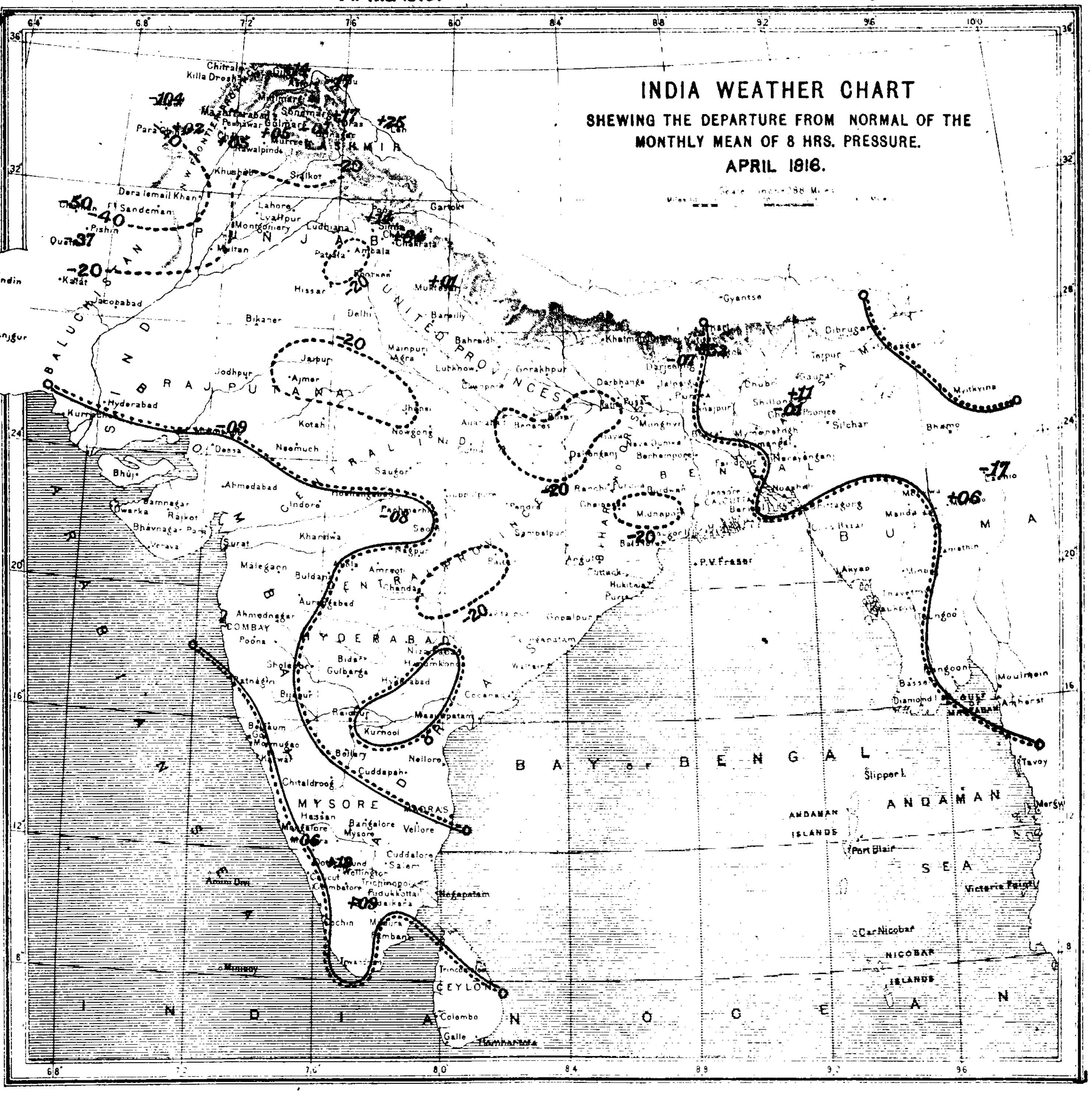


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one	feather	added	to	the	wind	arrow.
,, ,,	2 to 5	,, ,,	,,	two	feathers	,,	,,	,,	,,	
,, ,,	5 to 10	,, ,,	,,	three	,,	,,	,,	,,	,,	
,, ,,	10 to 20	,, ,,	,,	four	,,	,,	,,	,,	,,	
	over 20	,, ,,	,,	five	,,	,,	,,	,,	,,	

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020 or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

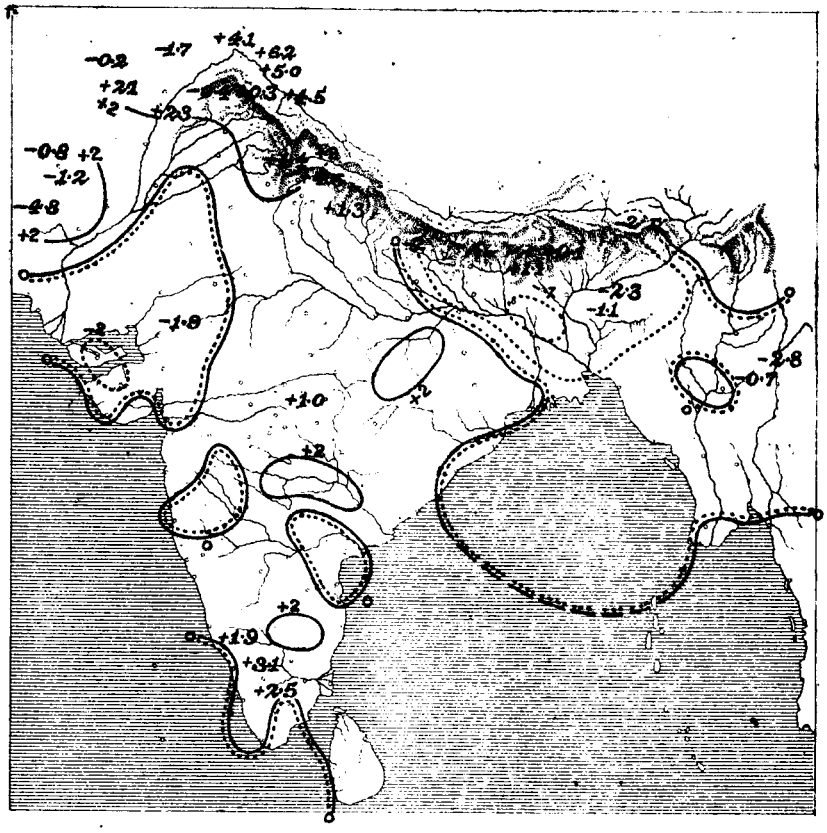


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

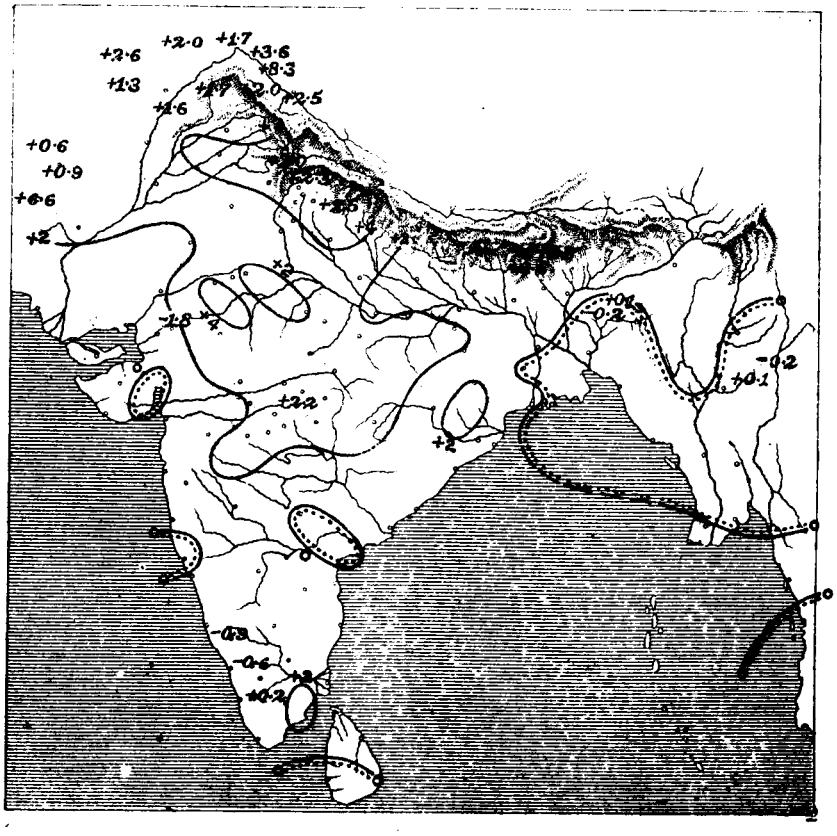


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE.

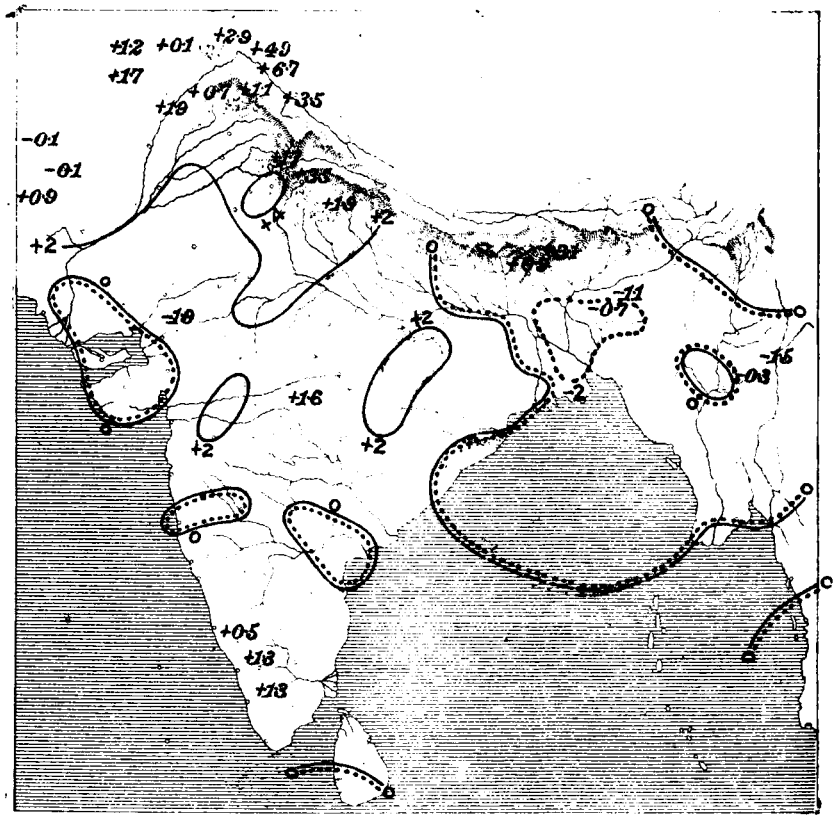


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

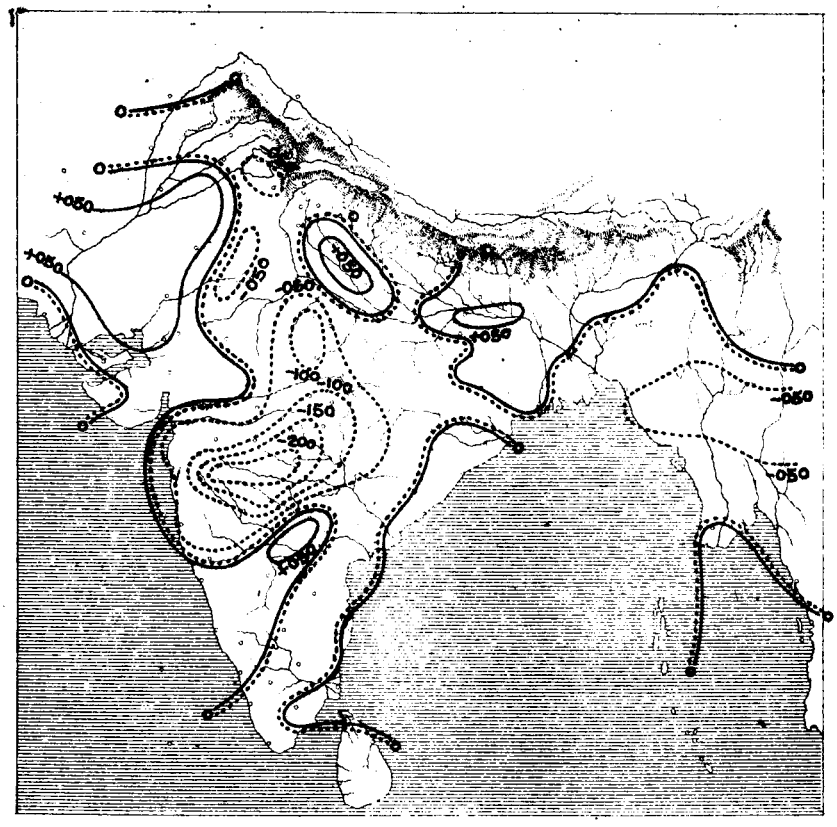


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

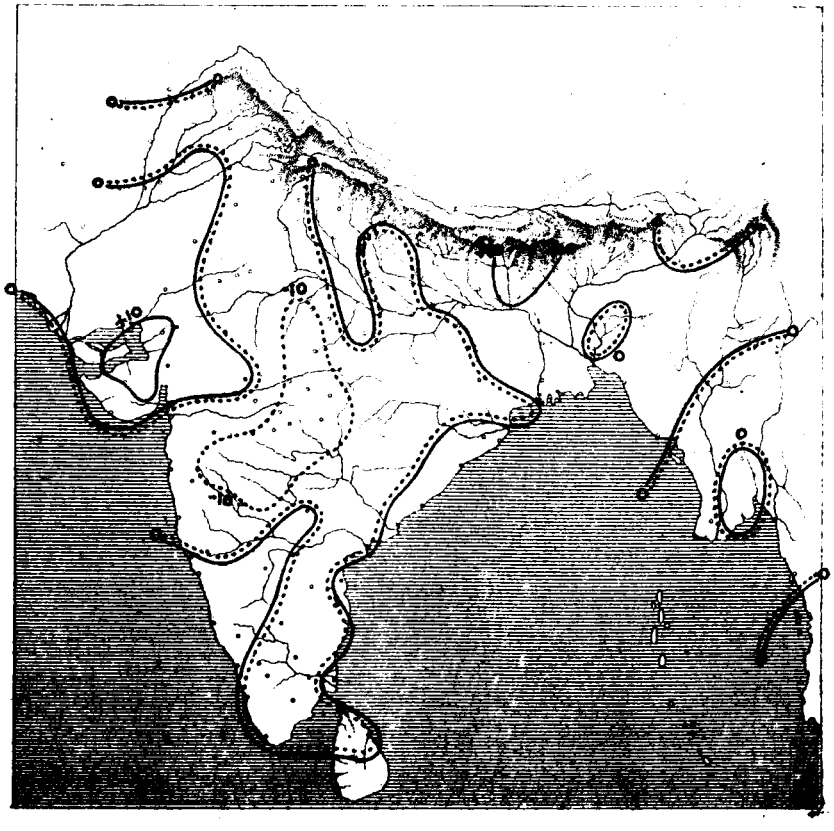


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

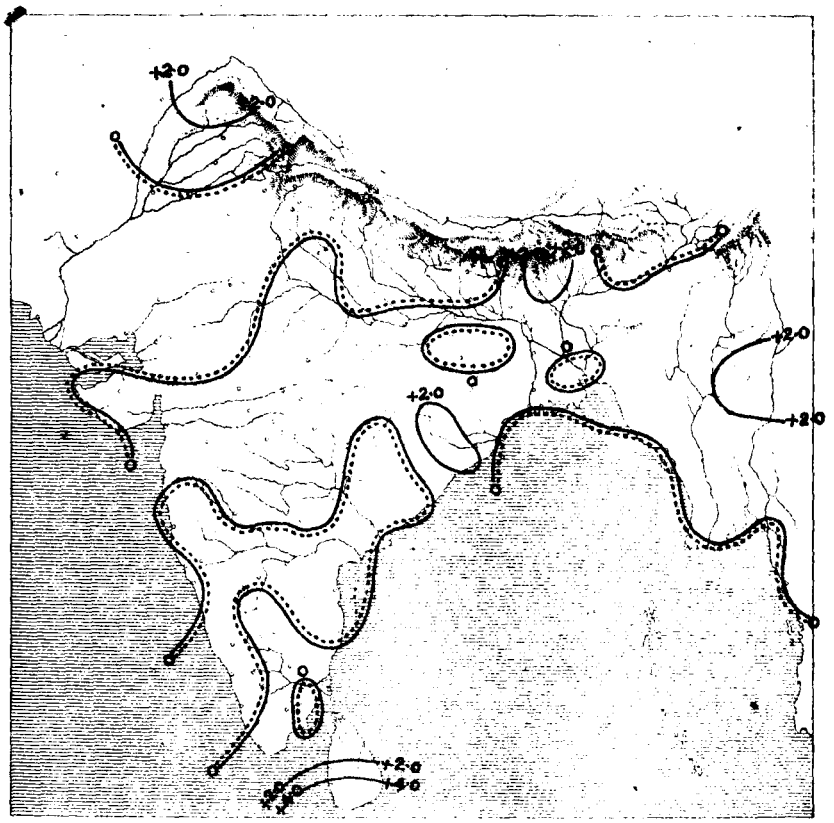
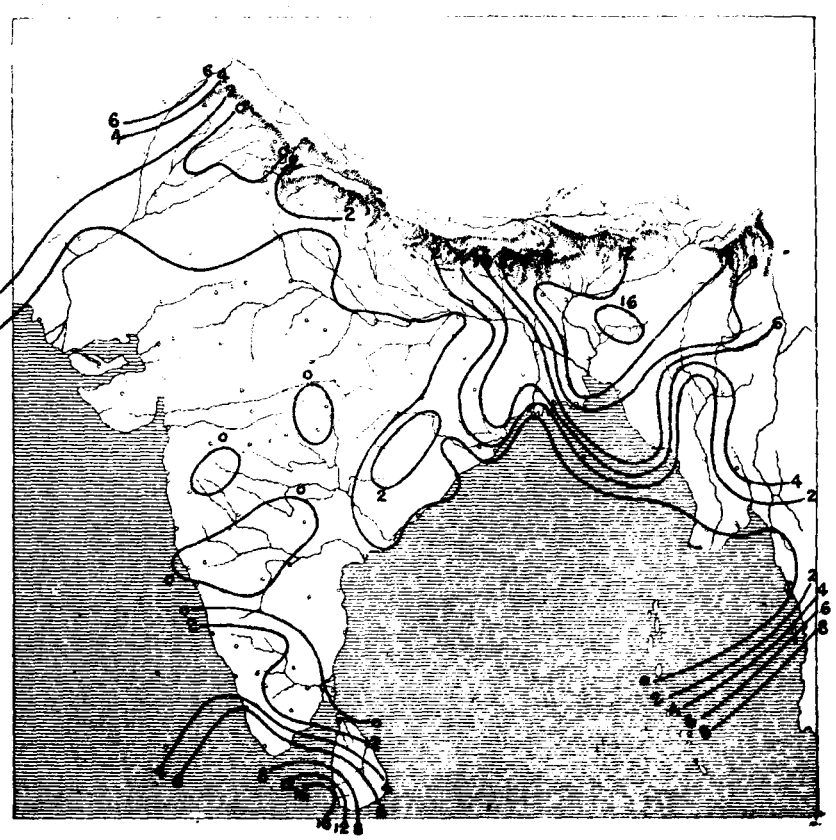
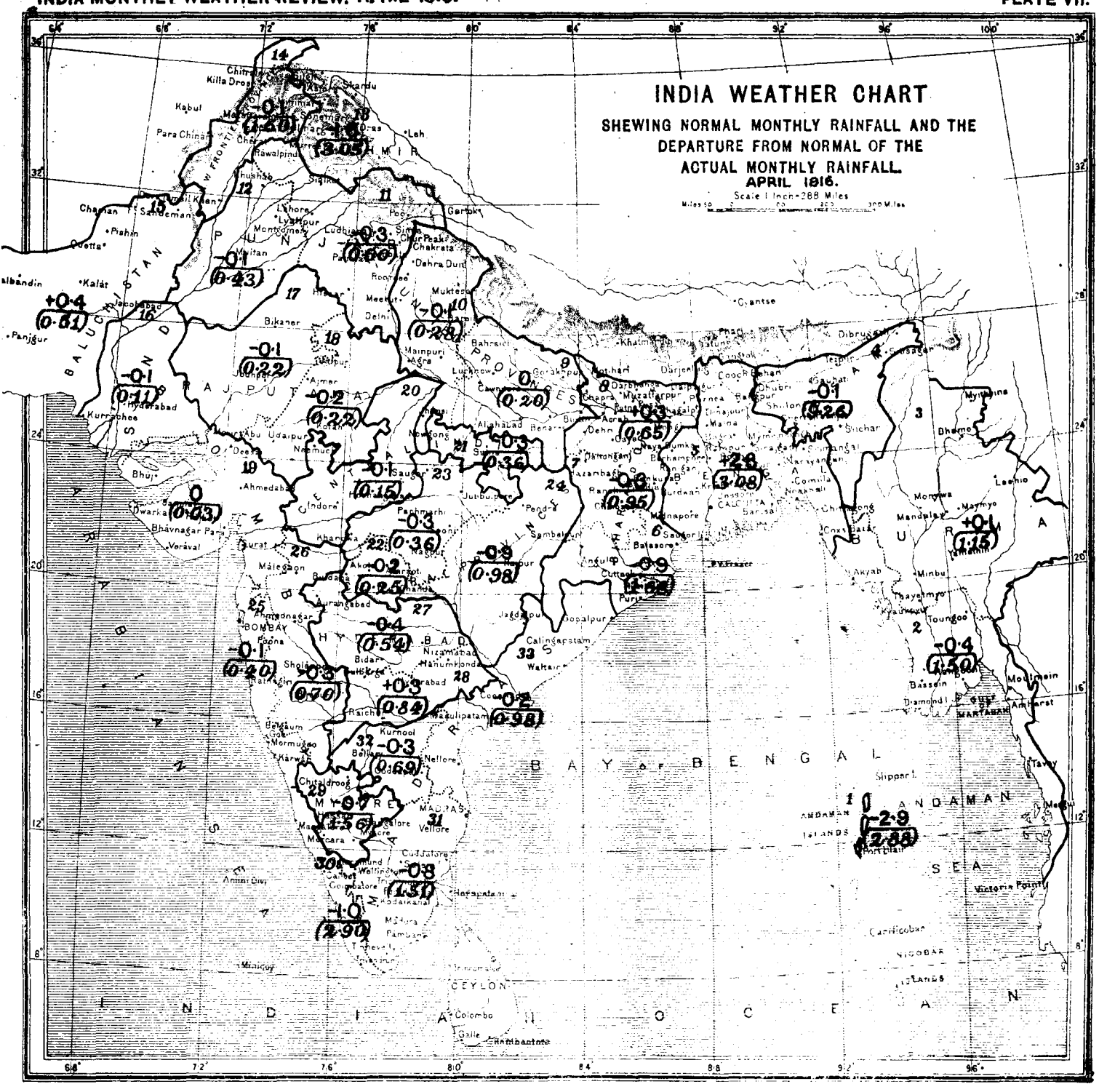


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

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METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW.

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THE GOVERNMENT OF INDIA.

CALCUTTA, MAY, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of May, 1916, is based on observations taken daily at 8 hrs. at 213 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. Several disturbances of the winter type affected the weather in north-west India, but they were of small vitality and do not seem to have resulted in any unusual snowfall in the surrounding hills. During the greater part of the month there was an inflow of damp air across the Bengal coast, but owing to the abnormal position of the trough of low pressure it did not extend up the Gangetic plain, with the result that over nearly the whole tract of country from Bengal to the east Punjab the weather was drier than usual. Similar weather prevailed in Burma, but over the greater part of the Peninsula and of the Central Provinces thunderstorms were unusually abundant.

In the Bay a temporary advance of monsoon winds occurred at the beginning of the month and gave rise to a cyclonic storm which travelled northwards from its origin near Port Blair and disappeared in Upper Burma on the 6th. In the Arabian Sea also weather was disturbed during the fourth week owing to the formation of a storm in front of the permanent advance of the monsoon; this was encountered by the *S. S. Caledonia* on the night of the 26th to the north-east of Socotra.

At the close of the month the conditions on the west coast of the Peninsula suggested the approach of the monsoon there.

The total rainfall of the month was distinctly in defect in Burma, Bengal, Bihar and Orissa, the United Provinces East, Kashmir, Madras South-east and the Madras Coast North; it was well above normal in the Punjab South-west, the North-West Frontier Province, Rajputana West, Gujarat, Central India West, Berar, the Central Provinces West, the Bombay Deccan, Hyderabad, the Madras Deccan and Mysore, and was about the average in the rest of the country.

Of the other climatic elements cloud was appreciably in defect in the United Provinces and most of north-east India, and in excess in Baluchistan, the Central Provinces, Hyderabad, Kathiawar, the Konkan and the Bombay Deccan; while the relative humidity was decidedly low in Chota Nagpur, Bihar, the United Provinces, Rajputana, Central India and Gujarat, and high in Baluchistan, upper Sind and Hyderabad South. Temperature exceeded the normal by 2½° in Bengal and Bihar and Orissa, and was in defect between 2° and 3° in Baluchistan, Kashmir, the Punjab and the North-West Frontier Province.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculae on all the days of the month except on the 19th. Prominences could not be observed on two days.

Sunspots.—Twenty-two new groups of spots were observed as against twenty-three in April. The daily average number was 4·8 and the average life of a spot was 5·0 days, while for the preceding month the averages were 3·9 and 4·7 respectively. The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North	4	4	3	15°·6	7° & 25°
South	...	11	...	15°·6	11° & 19°

Prominences.—Eighty-four large, one eruptive and two metallic prominences were recorded. The highest prominence ever observed here was photographed on the 26th in the form of an arch extending from + 50° to + 67°. It ascended very rapidly and attained the unusual height of over 15 minutes (the limb of the plate) at 9h. 9m. ; at 9h. 19m. and 9h. 27m. only faint streaks showed on the photograph and at 9h. 36m. the whole eruption had disappeared.

Magnetic disturbances.—There was one "moderate" disturbance recorded on the 1st instant.

T. ROYDS,

for *Director*,

Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10°\ 13'\ 50''$; $\lambda = 77°\ 28'\ 00''$; $h = 2343$ m. *Subsoil* Rock.

Apparatus.—*Milne's Horizontal Pendulum Seismograph.*

TABLE 2.

	V	T_0	G	$\frac{r}{T_0^2}$
AN :				
AM :	9·76	17·9	1	2·5
AZ :				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (μ). AN.	AM.	AZ.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
May. 9th	P	.....	...	...	...	...	...	No preliminary tremors.
	L	14 49 18	...	...	...	...	...	
	M	14 43 18	...	...	589	...	...	
	F	15 22 18	...	...	...	...	...	
„ 15th	e P	22 38 48	...	...	...	...	...	Widening of line.
	F	22 47 30	...	...	...	...	...	
„ 23rd	e P	22 54 36	...	...	...	...	...	Widening of line.
	F	23 06 54	...	...	...	...	...	

T. ROYDS,

Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of May 1916 the traces showed 7 calm days, and 24 days of small disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 4th, 14th, 15th, 18th and 27th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	S	25	S
2	S	10	S	18	C	26	S
3	S	11	S	19	S	27	C
4	C	12	S	20	S	28	S
5	S	13	C	21	S	29	S
6	S	14	C	22	S	30	S
7	S	15	C	23	S	31	S
8	C	16	S	24	S		

C = calm ; S = small ; M = moderate ; G = great ; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of

the horizontal force and the declination for the month are as follow :—

Easterly declination . . .	0° 37′ 21″
Horizontal force	0·36867 C. G. S. unit.
Vertical force	0·16780 C. G. S. unit.
Inclination	24° 28′·5.
Horizontal force range . . .	0·00048 C. G. S. unit.
Horizontal force summed range .	0·00314 C. G. S. unit.
Declination range . . .	4′·9.
Declination summed range . .	20′·7.

(NOTE.—Summed range means sum without regard to signs of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$m. *Subsoil* Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
An:				
Ae:	9	21	1	
Az:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
May 1st		6 39 00	...	...	...	...	...	Thickening of line.
„ 4th		9 9 to 12m.	...	...	...	...	...	„
„ 8th		8 21 00	...	...	...	...	...	„
„ 9th		7 32 00	...	...	...	...	...	
„ 9th	P	14 39 42	...	...	...	...	...	„
	M	14 47 15	...	...	200	...	...	
	F	...	...	...	...	...	...	End lost in shifting time.
„ 17th		14 48 00	...	...	...	...	...	Thickening of line.
1916.		h. m. s.						
May 17th		14 58 00	...	...	...	...	...	Thickening of line.
„ 18th		6 18 to 20m.	...	...	...	...	...	„
„ 29th		7 31 00	...	...	...	...	...	„
„ 29th	P	11 41 57	...	...	...	...	...	
	M	11 48 25	...	...	33	...	...	
	F	11 58 11	...	...	...	...	...	

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·30.″

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5. CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32' 00''$ N; $\lambda = 88° 20' 00''$ E; $h = 6·4$ m.
Subsoil Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To_2}$
An:	29	19	1	
Ae:	29	38	1	
Az:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
May 1st	P	11 53 00	...	...	...	...	...	
	F	12 12 18	...	...	..	...	...	
„ 9th	P	14 38 30	5	...	...	...	...	

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
May 9th	S	14 45 30	7	...	...	...	...	
	L	14 49 24	12	...	...	...	...	
	M	14 51 36	...	...	121	...	...	
	F	15 07 18	...	...	...	...	...	
„ 17th	P	14 53 36	...	...	..	...	...	
	F	15 16 00	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

The Simla seismograph notes will appear in a future number of this Review.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.
		h. m.	sec.		
Drosh	May 2nd	8 15	4	4	1

Solar radiation.—Observations not recorded owing to absence of officers on war service.

G. C. SIMPSON,
Imperial Meteorologist, Simla.

Weather in the Indian Ocean.

7. The deficiency of pressure in the Peninsula and Ceylon extended over the Indian Ocean as far south as Mauritius where on the mean of the month the barometer read a tenth of an inch lower than usual; this result was however partly due to the proximity of a cyclone apart from which the deficiency would probably have been appreciably less. Winds were exceedingly light and variable during nearly the whole month at Seychelles, and were more westerly than usual but of normal strength at Zanzibar; rainfall was in excess by 38 per cent. at the former station and markedly in defect at the latter.

TABLE 7.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·106*	—·023	—·060
Actual mean wind direction . .	S 77° E*	S 21° W	S 18° E
Normal mean wind direction . .	S 65° E*	S 7° W	S 43° E
Actual mean wind velocity (miles per diem).	276*	145	84
Normal mean wind velocity (miles per diem).	210*	142	120
Rainfall departure from normal . .	+3·45*	—7·07	+2·29

* Based on weekly telegrams.

Depressions and cyclonic storms.

8. Six disturbances appeared over Persia in the course of the month and travelled roughly along a line joining Tehran, Meshed, Kabul and Leh. They were apparently troughs of low pressure rather than definite depressions and their effect on Indian weather was confined to Baluchistan and the extreme north. According to the Egyptian charts no disturbances passed eastwards through the east Mediterranean.

Two storms were recorded over the Indian seas; one in the Bay of Bengal and the other in the Arabian Sea. The following is a brief statement of their history.

Cyclonic storm of the 1st to 6th May in the Bay of Bengal.—This formed probably over the south of the Andaman Sea, to the east of Port Blair, during the 1st in front of a temporary advance of monsoon winds. On the morning of the 3rd it lay a short distance to the north-west of Port Blair, where the barometer read a sixth of an inch below the normal height. It travelled over a distance of about 115 miles in a north-westerly direction during the next twenty-four hours and then began to turn north, and by the morning of the 5th had reached a position about 280 miles due west of Diamond Island. From here it advanced with an increasing rate of motion towards the Arakan coast which it crossed near to Akyab at about midnight, and by the morning of the 6th had reached the neighbourhood of Mandalay. It disappeared during the day without any appreciable change in its position.

The available marine information indicates that its barometric depth increased from about three-tenths of an inch on the morning of the 4th to at least two-thirds of an inch on the afternoon of the 5th when it passed near to the *S.S. Bangala* and *Tosa Maru*. It was encountered by the *S.S. Kohinur* some 60 miles to the west by south of Akyab at about 23 hours, and the readings of the aneroid barometer on board show that the defect of pressure then was nearly an inch and a half. At Akyab, however, about an hour later the barometer fell only half an inch below the average. Even after allowing for the obstructive action of the Arakan hills and for the somewhat greater distance of the centre from Akyab than from the *S.S. Kohinur* it appears improbable that a rise of nearly an inch in pressure could have occurred within such a short interval. Further as aneroid

barometers are by no means reliable, the defect of an inch and a half recorded on *the Kohinur* is in any case very doubtful. Winds of hurricane violence with mountainous seas were experienced by several vessels involved in the storm area on the 5th, and although there is no direct evidence of a calm centre the fact that the disturbance was a very severe one makes the existence of a calm centre extremely probable.

The statement below gives the approximate positions of the storm centre at 8 hours on each day from the 3rd to the 6th and also the distance travelled in the intervals :—

TABLE 8.

Date.	Position at 8 hrs.				Distance travelled in 24 hours.
	Lat.		Long.		
	°	′	°	′	Miles.
3rd	12	08	92	0	
4th	13	07	90	45	115
5th	16	30	90	10	240
6th	22	25	95	35	560

Cyclonic storm of the 24th to the 28th in the Arabian Sea.—The marine information relating to this storm is unusually scanty. It however shows that for several days before the formation of the storm light irregular winds prevailed over the centre of the Arabian Sea; while at the same time the monsoon current was approaching this area from the south and south-west. The intrusion of monsoon winds and the attendant squally weather into this region on the 23rd gave rise to a storm which travelling roughly in a northwesterly direction passed into Arabia near the Kuria Muria Islands, presumably on the 28th. It was encountered on the night of the 26th by the mail steamer *Caledonia* which experienced winds of force 8 to 9, furious squalls and a high confused sea. The lowest reading of the barometer recorded by her was at 2 hrs. of the 27th and was nearly six-tenths of an inch below normal. The disappearance of the storm was followed by the advance of the monsoon current on to the west coast of the Peninsula.

Local storms.

Of the local storms reported in newspapers the following were noteworthy :—

(*a*) A severe storm, probably a nor'wester, struck the river steamers *Arjuna* and *Pobha* somewhere near Singri (some 20 miles east of Tezpur) between 2 and 3 hours of the 4th, causing the loss of the latter.

(*b*) A storm of great severity passed over Purnea at about 11 P.M. on the 8th causing much damage, particularly to the mango crop. One person was killed and several were injured.

(*c*) On the 26th a violent storm affected Gauhati for 20 minutes a little after 20 hrs., and inflicted much damage. It is reported to have affected also the Digaro railway station, about 18 miles away, and levelled it to the ground.

Pressure.

9. Pressure was in decided defect of the normal in the Andamans, Ceylon and over the western half of the Peninsula and in considerable excess on the Orissa coast and in the Punjab, the North-West Frontier Province and the adjacent districts of Sind and Rajputana; elsewhere in the plains pressure conditions were fairly normal. As a consequence of these abnormalities the trough of low pressure was confined to the United Provinces, the east of Central India and the north-east of the Central Provinces instead of extending in the usual manner from Chota Nagpur to the north-west frontier.

The departures in opposite directions nearly counterbalanced each other, with the result that the geographical mean for the whole of India differed from the normal only by ·001″.

The excess of pressure in the Punjab and the North-West Frontier Province was chiefly a feature of the lower atmospheric strata, for at the level of the neighbouring hill stations it was either less pronounced or replaced by a defect; elsewhere the vertical distribution of pressure differed to no great extent from the normal.

TABLE 9.

Division.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·006
Assam	+·095
Bengal	+·003
Bihar and Orissa	+·009
United Provinces	+·004
Punjab	+·036
North-West Frontier Province	+·035
Sind	+·029
Rajputana	+·016
Bombay	—·026

Division.	Departure from normal of mean 8 hrs. pressure.
	"
Central India	+·005
Central Provinces	—·005
Hyderabad	—·012
Mysore	—·026
Madras	—·016

A reference to the chart of the departures of mean temperature from normal will show that the abnormalities of pressure were determined only partially by those of temperature.

TABLE 10.

Hill station.	Departure from normal pressure. A	Plain station.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	—·002	Jacobabad	+·051	+·053
Leh	—·019	Lahore	+·048	+·067
Murree	+·005	Peshawar	+·040	+·035
Simla	+·014	Ludhiana	+·041	+·027
Mukteswar	—·003	Bareilly	—·001	+·002
Darjiling	+·015	Dhubri	+·007	—·008
Mount Abu	0	Deesa	—·012	—·012
Pachmarhi	—·013	Khandwa	—·026	—·013
Kodaikanal	—·024	Madura	—·026	—·002

Temperature.

10. Maximum temperature was appreciably below normal in Baluchistan, the North-West Frontier Province, Kashmir and the greater part of the Punjab and was higher than usual in Bengal, Chota Nagpur, Bihar, the north-east of the United Provinces, and at a few stations in Upper Burma. In the rest of the country the departures from normal were small. The distribution of minimum temperature was similar to that of the maximum, but the departures were not as strongly marked.

The high temperatures in the north-east occurred chiefly from the 1st to the 5th and the 24th to the 28th, and during the latter period unprecedentedly high maxima were recorded at Berhampore, Burdwan, Dinajpur, Purnea, Darbhanga, Monghyr, Buxar and Naya Dumka. At Jacobabad, usually the hottest place in India, the thermometer rose to 121° on the afternoon of the 28th; while the highest temperature at that station observed in May previous to this year has been 126°.

TABLE 11.

Sub-division.	Actual temperature.					Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
1. Eng Islands	88·0	78·0	83·0	10·0	17·3	—0·7	—0·5	—0·2
2. Lower Burma	90·1	76·6	83·4	13·5	23·4	+0·2	—0·3	+0·5
3. Upper Burma	98·0	75·7	86·9	22·3	37·1	+2·6	+0·9	+1·7
4. Assam	88·1	72·6	80·3	15·4	29·8	+0·8	+0·6	+0·2
5. Bengal	95·4	77·8	86·6	17·6	34·6	+3·1	+1·9	+1·2
6. Orissa	101·3	81·0	91·1	20·3	36·3	+1·4	+1·1	+0·3
7. Chota Nagpur	106·5	79·6	93·1	26·9	46·7	+3·5	+2·1	+1·4
8. Bihar	104·1	78·1	91·1	26·0	43·7	+4·5	+1·5	+3·0
9. United Provinces, East	106·8	78·0	92·4	28·8	46·5	+2·3	—0·1	+2·4

Sub-division.	Actual temperature.					Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
10. United Provinces, West	107·0	77·8	92·4	29·1	46·3	+1·4	—1·2	+2·6
11. Punjab, East and North	102·2	73·3	87·7	28·9	50·0	—1·3	—1·7	+0·4
12. Do., South-west	102·4	73·0	87·7	29·4	50·5	—3·3	—3·7	+0·4
13. Kashmir	70·9	47·3	59·1	23·7	47·1	—3·2	—1·8	—1·4
14. North-West Frontier Province	97·8	69·7	83·7	28·1	51·2	—3·1	—2·5	—0·6
15. Baluchistan	90·2	61·1	75·7	29·1	51·9	—4·1	—0·2	—3·9
16. Sind	102·2	77·2	89·7	25·0	49·4	—0·5	—1·0	+0·5
17. Rajputana, West	106·1	78·5	92·3	27·5	47·1	—0·9	—3·0	+2·1
18. Do., East	106·0	80·1	93·0	25·9	44·6	—0·4	—1·3	+0·9
19. Gujarat	100·9	78·1	89·5	22·8	40·3	+1·3	+0·3	+1·0
20. Central India, West	105·5	77·9	91·7	27·7	46·1	+2·2	+1·1	+1·1
21. Do., East	107·2	79·3	93·2	27·9	46·3	+0·7	—0·5	+1·2
22. Berar	107·4	81·4	94·4	26·0	42·5	+1·8	+0·9	+0·9
23. Central Provinces, West	106·8	80·1	93·4	26·8	43·9	+0·5	+0·2	+0·7
24. Do., East	105·7	80·1	92·9	25·5	39·3	+0·8	+1·2	—0·4
25. Konkan	89·8	79·4	84·6	10·4	17·5	—0·5	—0·9	+0·4
26. Bombay Deccan	102·1	73·9	88·0	28·2	40·6	+0·8	+0·9	—0·1
27. Hyderabad, North	104·3	79·0	91·6	25·3	37·6	+0·7	+1·1	—0·4
28. Do., South	104·2	79·8	92·0	24·4	35·3	+0·1	—0·4	+0·5
29. Mysore	92·2	69·7	81·0	22·5	33·8	+0·7	+0·4	+0·3
30. Malabar	89·7	78·0	83·9	11·7	20·4	+0·2	—0·1	+0·3
31. Madras, South-east	98·3	79·1	88·7	19·2	30·6	—0·4	+0·5	—0·9
32. Do. Deccan	104·6	80·8	92·6	23·7	35·4	—0·1	+0·2	—0·3
33. Do. Coast, North	96·5	80·9	88·7	15·6	25·5	—0·2	—0·1	—0·1

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	+1·3	+0·2	+0·8
Assam	+0·8	+0·6	+0·7
Bengal	+3·1	+1·9	+2·5
Bihar and Orissa	+3·2	+1·6	+2·4
United Provinces	+1·9	—0·6	+0·6
Punjab	—1·9	—2·3	—2·1
North-West Frontier Province	—3·1	—2·5	—2·8

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	—0·5	—1·0	—0·8
Rajputana	—0·6	—2·0	—1·3
Bombay	+0·7	+0·2	+0·5
Central India	+1·5	+0·3	+0·9
Central Provinces	+0·8	+0·7	+0·8
Hyderabad	+0·3	+0·3	+0·3
Mysore	+0·7	+0·4	+0·5
Madras	—0·2	+0·2	0

Winds.

11 (*a*). Winds were stronger and steadier than usual in Assam and the Punjab and were weak and unsteady in Rajputana, Bombay, Central India and Hyderabad. In the North-West Frontier Province and Sind the velocity alone was low; while in the Central Provinces and Mysore winds were of about normal strength, but their steadiness was below the average.

(*b*). In Bengal winds blew more directly from the south than usual, while in the submontane districts from Bareilly to Lahore the normal easterly component in the mean wind direction was replaced by a westerly element. These deflections suggest that the damp winds across the head of the Bay were mainly restricted to Bengal and Assam. Winds were abnormal also in east Gujarat and the adjacent districts to the east where they contained an undue northerly element, an indication that the flow of comparatively moist air across the Kathiawar coast was diverted from its usual easterly course south-westwards into Berar and the west of the Central Provinces.

According to logs of vessels light irregular winds prevailed over the western half of the equatorial belt, except in the neighbourhood of the African coast where the air movement was of about the usual character. The equatorial belt of calms thus occupied a position which is normal for the middle of April.

TABLE 13.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	0	— 4
Assam	+0·6	+24
Bengal	—0·1	— 1
Bihar and Orissa	0	+ 4
United Provinces	—0·4	+ 1
Punjab	+0·6	+18
North-West Frontier Province	—0·8	+ 3
Sind	—2·3	— 4
Rajputana	—0·9	—36
Bombay	—2·1	—20
Central India	—0·7	—28
Central Provinces	—0·1	—26
Hyderabad	—1·5	—16
Mysore	—0·5	—16
Madras	—0·1	— 2

Humidity and cloud.

12. The air was considerably drier than usual, both absolutely and relatively, over the region extending from west Bengal and Bihar to Gujarat and Rajputana as well as in the east and north Punjab and Kashmir, and was unusually damp in upper Sind, the south-west Punjab and the region defined by Hyderabad, Raichur and Bellary. In Baluchistan and the North-West Frontier Province the quantity of vapour in the air was less than usual, but owing to the lowness of temperature the relative humidity was either normal or above it.

Skies were on the whole clouded to more than the customary extent over the greater part of north-west India and of the northern half of the Peninsula, and were unusually free from cloud generally in the United Provinces, north-east India, Upper Burma and in the central parts of the Madras Presidency.

TABLE 14.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	78	— 2	·841	—·018	5·7	—0·1
Assam	84	— 3	·803	—·002	5·4	—0·8
Bengal	77	— 4	·891	—·003	4·6	—0·5
Bihar and Orissa	56	—10	·698	—·068	2·5	—0·3

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
United Provinces	34	—12	·452	—·162	1·0	—0·5
Punjab	35	— 4	·404	—·091	1·6	+0·2
North-West Frontier Province.	43	— 2	·459	—·085	1·7	+0·1
Sind	57	— 1	·713	—·014	1·3	—0·3
Rajputana	31	— 8	·405	—·126	1·4	+0·4
Bombay	63	— 3	·730	—·031	3·2	+0·8

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Central India	35	— 9	·482	—·062	1·7	0
Central Provinces	34	— 5	·455	—·065	2·5	+0·6
Hyderabad	51	+ 1	·638	+·014	3·3	+0·7
Mysore	77	+ 3	·683	+·017	5·0	—0·1
Madras	71	+ 1	·862	+·009	4·1	—0·2

Rainfall.

13. The only parts of the Indian region where the rainfall of the month appreciably exceeded the normal were the Bay Islands, the Punjab South-west, the North-West Frontier Province, Rajputana West, Gujarat, Central India West, Berar, the Central Provinces West, the Bombay Deccan, Hyderabad, Mysore and the Madras Deccan, and even there the excess was less than an inch in amount except in the case of the Bay Islands, the Bombay Deccan and Mysore. In the area of scanty rainfall the defect amounted to about 4″ or 50 per cent. in Bengal, 2″ or 15 per cent. in Lower Burma, 1½″ or 69 per cent. in Bihar, 1⅓″ or 23 per cent. in Upper Burma and about 1″ in Chota Nagpur and Orissa.

Over the plains of India as a whole the aggregate fall of the month fell short of the normal by a third of an inch or 13 per cent.

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	15·0	16·4	19·19	16·90	+2·29	+ 14
2. Lower Burma	13·4	13·0	11·14	13·08	—1·94	— 15
3. Upper Burma	5·7	7·8	4·42	5·76	—1·34	— 23
4. Assam	11·8	14·3	11·17	11·92	—0·75	— 6
5. Bengal	3·8	9·0	3·88	7·79	—3·91	— 50
6. Orissa	2·9	4·5	1·80	2·87	—1·07	— 37
7. Chota Nagpur	1·6	3·3	0·86	1·79	—0·93	— 52
8. Bihar	1·0	3·2	0·71	2·26	—1·55	— 69
9. United Provinces, East	0·6	1·2	0·26	0·62	—0·36	— 58
10. Do., West	0·9	1·3	0·49	0·59	—0·10	— 17
11. Punjab, East and North	1·3	1·4	0·54	0·59	—0·05	— 9
12. Punjab, South-west	1·6	0·9	0·60	0·38	+0·22	+ 58

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure fro normal.
			"	"	"	
13. Kashmir	3·7	3·8	1·69	2·12	—0·43	— 20
14. North-West Frontier Province	3·0	1·8	1·60	0·85	+0·75	+ 88
15. Baluchistan	0·8	0·5	0·26	0·21	+0·05	+ 24
16. Sind	0·4	0·2	0·09	0·11	—0·02	— 18
17. Rajputana, West	1·2	0·5	0·65	0·22	+0·43	+195
18. Do., East	0·8	0·9	0·37	0·37	0	0
19. Gujarat	0·5	0·3	0·30	0·17	+0·13	+ 76
20. Central India, West	1·1	0·6	0·68	0·21	+0·47	+224
21. Do., East	0·4	0·6	0·12	0·21	—0·09	— 43
22. Berar	2·0	0·9	1·19	0·42	+0·77	+183
23. Central Provinces, West	1·2	0·9	0·74	0·36	+0·38	+106
24. Do., East	1·5	1·2	0·61	0·54	+0·07	+ 13
25. Konkan	2·4	1·7	1·46	1·38	+0·08	+ 6
26. Bombay Deccan	4·4	2·3	2·48	1·29	+1·19	+ 92
27. Hyderabad, North	2·5	1·4	1·35	0·65	+0·70	+108
28. Do., South	2·9	1·8	1·11	0·83	+0·28	+ 34
29. Mysore	8·7	5·6	5·72	3·61	+2·11	+ 58
30. Malabar	9·3	7·7	7·02	7·18	—0·16	— 2
31. Madras, South-east	3·5	3·9	2·04	2·63	—0·62	— 23
32. Do. Deccan	4·1	2·8	2·18	1·61	+0·57	+ 35
33. Do. Coast, North	2·7	3·0	1·52	2·03	—0·51	— 25

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	7·06	8·63	—1·57	— 18
Assam	11·17	11·92	—0·75	— 6
Bengal	3·88	7·79	—3·91	— 50
Bihar and Orissa	1·02	2·30	—1·28	— 56
United Provinces	0·38	0·60	—0·22	— 37
Punjab	0·56	0·54	+0·02	+ 4
North-West Frontier Province	1·60	0·85	+0·75	+ 88

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·09	0·11	—0·02	— 18
Rajputana	0·45	0·32	+0·13	+ 41
Bombay	1·59	0·94	+0·65	+ 69
Central India	0·43	0·21	+0·22	+105
Central Provinces	0·82	0·45	+0·37	+ 82
Hyderabad	1·23	0·73	+0·50	+ 68
Mysore	5·72	3·61	+2·11	+ 58
Madras	2·36	2·76	—0·40	— 14
Mean of India	2·30	2·65	—0·35	— 13

Snowfall.

I.—AFGHANISTAN.

14. On the 24th the unmelted residue of winter accumulations on the Paghman, Qilla Qazi, Shakardara and Hindu Kush ranges varied in depth between 2 and 3 feet.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—No snowfall occurred. There were however local hailstorms and temperature was low.

(*b*) *Tochi* (*North Waziristan*).—No snow fell in this agency.

(*c*) *Dera Ismail Khan.*—No snow fell on the ranges in this district.

(*d*) *Kurram.*—At Parachinar it rained intermittently, but no snowfall occurred. At the end of the month the depth of snow lying on the neighbouring passes was less than usual.

(*e*) *Kohat.*—No snow fell on the Samana range.

(*f*) *Drosh.*—During the first three weeks rain fell on fourteen days. At the end of the period the snowline was at an altitude of 12,000 feet.

(*g*) *Khybar* (*Landi Kotal*).—There was no snowfall, but 2·4″ of rain were recorded during the month.

(*h*) *Malakand.*—Snow to a depth of about 1 foot is reported to have fallen on the Lowari pass and other higher elevations in the upper Swat.

(*i*) *Hazara.*—Snow varying from 2″ to 9″ in depth fell in the Kagan valley on heights between 11,000 and 17,000 feet.

III.—KASHMIR.

(*a*) *Mountains around Srinagar.*—There was no snowfall.

(*b*) *Sonamarg.*—No snow fell.

(*c*) *Skardu.*—Slight snow fell on the summits of the surrounding hills from the 21st to the 23rd.

(*d*) *Dras.*—Snowstorms occurred on the surrounding hills on the 1st, 2nd, 26th and 30th, and extended to the level of the station on the 1st and 2nd.

(*e*) *Kargil.*—Light snowfall occurred on the neighbouring high mountains on the 2nd, 26th and 30th. At the close of the month the accumulations were as follows:—

Archulla ...	...	4′
Nakthulla ...	...	2½′
Sinculla ...	...	1′ to 2′
Narianulla ...	...	1′

IV.—PUNJAB.

(*a*) *Chamba.*—*Bharmaur range.*—Snow fell down to about 8,500 feet on the 9th, 10th and 11th. Depth of snow on the higher passes not known.

Dalhousie range.—No snow fell.

Bhandal range.—Snowfall occurred on the 10th and 11th on elevations above 8,000 feet, but did not lie.

Tisa range.—Snow storms occurred on the 9th and 10th down to about 9,000 feet.

Bhatliyat range.—No snow fell on this range during the month; nor was any lying up to 9,500 feet on the 31st.

Chamba range.—No snow fell, but hailstorms occurred on the 10th and 28th. The *gaddis* crossing from Kangra into Chamba found about 2′ of snow on the Bakani (11,500 feet), Basou (12,000 feet) and Chitrari (13,200 feet) passes.

(*b*) *Kulu* (*Kangra*).—Snow fell between the 9th and 12th down to 10,000 feet.

(*c*) *Kilba* (*Simla Hills*).—Snowfall occurred on the 1st, and again daily from the 8th to the 11th down to 11,000 feet at which level the total fall amounted to about 10″ in depth.

TABLE 17.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Rupin pass	4	6½
Brua "	5	6¾
Shatul "	5	5

By the end of the month the snow line had retreated to a level of 13,000 feet.

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—Snowfall was confined to the higher peaks and was lighter than usual.

(*b*) *Almora.*—During the first twenty-four days snow fell to a total depth of about 6′ in Byans, 4′ in Malla Danpur, 3½′ in Malla Darma and 1′ in Chaudas and Malla Johar. The lowest descent below the perpetual snows was to a distance of 6½ miles in Malla Darma.

TABLE 18.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	11	20½
Pindari peak	4	2½
Kaphini "	4	2½
Kuntela "	4	2½
Lipulekh pass	9	8½
Lampia "	9	10½
Binkaru "	4	14
Untadhura	½	8½
Ralamdhura	½	6
Milamdhura	½	5

SUMMARY.

15. In the mountain zone bordering upper India there were occasional falls of snow, but they were neither widespread nor heavy. The unmelted residue of the winter accumulations at the end of the month was distinctly below the average, except perhaps locally in the Afghan hills and the Kumaon Himalayas.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in May, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·722	29·591	·131	29·659	—·002	29·626	97·9	80·0	17·9	104·6	69·5	35·1	91·2	94·9	88·7	+3·0	75·7	80·0	79·4	78·4
	VI.—Punjab.																					
11	Lahore . .	702	28·997	28·911	·086	28·942	+·043	29·594	101·5	72·5	29·0	111·8	59·8	52·0	92·3	100·6	86·7	—2·2	60·9	69·1	70·9	67·0
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·318	28·212	·106	28·260	+·016	29·573	106·2	78·3	27·9	112·5	66·0	46·5	97·4	104·1	91·4	—0·2	60·9	67·9	68·4	65·6
	X.—Bombay.																					
25	Bombay . .	37	29·807	29·705	·102	29·755	—·019	29·732	91·3	81·0	10·3	93·5	77·5	16·0	86·7	88·4	85·1	+0·5	74·4	79·6	80·3	78·1
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·893	26·773	·120	26·840	—·093	29·630	91·4	69·2	22·2	98·0	65·6	32·4	82·2	87·3	78·6	+0·1	65·5	72·1	70·4	69·3
	XV.—Madras.																					
31	Padukkottai .	318	29·509	29·367	·142	29·438		29·677	100·3	79·2	21·1	107·0	70·9	36·1	90·8	96·6	89·7			77·1	77·6	
	Madras . .	22	29·778	29·665	·113	29·729	—·004	29·682	96·8	80·7	16·1	103·4	74·7	28·7	93·7	90·7	87·6	—1·1	77·5	80·4	81·3	79·8
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sanain . . .		23·143	23·097	·046	23·111		23·073	72·3	48·5	23·8	80·0	40·0	40·0	66·2	69·0	60·5			49·6	50·9	
	Kalabagh . .																					
	Katmandu . .	4,388	25·639	25·560	·079	25·595	+·102†	25·549	88·4	59·5	28·9	96·5	50·0	46·6	79·3	84·0	74·1	+3·3†	56·1	64·1	66·3	62·2
	Kodaikanal . .	7,638	22·823	22·764	·059	22·793		22·729	70·1	54·6	15·5	73·3	52·0	21·3	66·4	63·8	62·4		50·2	57·7	58·7	55·5
	Extra India.																					
	Seychelles . .	15																				
	Mauritius . .	181																				

N.B.—Elevations in Italics indicate barometric determinations.

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

† Departure from old normal.

A.

at 11 stations in India, etc., in May, 1916.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·833	·875	·798	·844	−·039	81	60	50	67	− 8	2·7	2·7	2·7	−1·6	3	2	1	4	3	15	33	1	0	S 25° W	S 9° W	68	67	140	123	3·86	2·16	Calcutta.	5
																															VI.—Punjab.	
·385	·402	·358	·393	−·061	49	29	20	33	− 3	2·2	1·5	1·9	−0·3	12	8	7	3	9	2	0	4	17	N 6° W	N 12° E	27	18	54	56	0·37	0·27	Lahore.	11
																															IX.—Rajputana.	
·329	·318	·250	·301	−·147	34	19	12	23	−12	0·6	2·2	1·4	−0·9	2	3	4	3	4	2	9	17	18	N 75° W	N 72° W	45	48	122	110	0·18	0·09	Jaipur.	18
																															X.—Bombay.	
·758	·909	·917	·874	−·015	72	72	69	74	− 2	4·4	3·4	3·9	+1·3	0	0	0	0	0	3	8	34	17	N 86° W	N 83° W	84	71	150	177	0·07	00·6	Bombay.	25
																															XIV.—Mysore.	
·585	·668	·544	·613	+·008	83	61	44	65	+ 2	4·4	6·4	5·4		3	2	4	9	5	3	7	20	9	S 89° W	S 81° W	26	66	126	110	6·85	1·52	Bangalore.	29
																															XV.—Madras.	
	·745	·688				52	41			5·1	6·4	5·7		8	2	1	3	9	13	13	8	5	S 25° W		40		95		4·11	1·75	Pudukkottai.	31
·908	·862	·938	·917	+·021	87	55	65	71	+ 1	2·5	1·7	2·1	−1·6	0	0	0	5	31	14	9	1	2	S 8° E	S 9° E	67	66	129	159	0·03	0·02	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·184	·189				30	31			3·0	5·0	4·0																	2·95	1·44	Sarain.	
																															Kalabagh.	
·421	·431	·447	·427	−·063	81	44	40	55	−13	3·5	4·6	4·1	−1·1	0	0	1	15	0	0	1	44	1	N 88° W	S 89° W	48	39	36	31	2·30	1·05	Katmandu.	
·317	·385	·440	·381		74	61	74	70		3·5	6·3	5·1		0	13	9	11	8	6	1	1	13	N 37° E		32		199		7·41	1·32	Kodaikanal.	
																															Extra India.	
													†											S 43° E		59		120			Seychelles.	
																															Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 213 stations in India, etc., in May, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.								Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Absolute range during month.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°	°									"	"	"
Burma	—·006	93·4	+1·3	76·2	+0·2	84·8	+0·8	17·2	29·0	0	—4	78	— 2	·841	—·018	5·7	—0·1	7·06	8·63	—1·57
Assam	+·005	88·1	+0·8	72·6	+0·6	80·3	+0·7	15·4	29·8	+0·6	+24	84	— 3	·803	—·002	5·4	—0·8	11·17	11·92	—0·75
Bengal	+·003	95·4	+3·1	77·8	+1·9	86·6	+2·5	17·6	34·6	—0·1	—1	77	— 4	·891	—·003	4·6	—0·5	3·88	7·79	—3·91
Bihar and Orissa	+·009	102·9	+3·2	79·3	+1·6	91·6	+2·4	23·5	42·2	0	+4	56	—10	·698	—·068	2·5	—0·3	1·02	2·30	—1·28
United Provinces of Agra and Oudh	+·004	106·9	+1·9	77·9	—0·6	92·4	+0·6	28·9	46·4	—0·4	+1	34	—12	·452	—·162	1·0	—0·5	0·38	0·60	—0·22
Punjab	+·036	102·3	—1·9	73·2	—2·3	87·7	—2·1	29·1	50·2	+0·6	+18	35	— 4	·404	—·091	1·6	+0·2	0·56	0·54	+0·02
North-West Frontier Province	+·035	97·8	—3·1	69·7	—2·5	83·7	—2·8	28·1	51·2	—0·8	+3	43	— 2	·459	—·085	1·7	+0·1	1·60	0·85	+0·75
Sind	+·029	102·2	—0·5	77·2	—1·0	89·7	—0·8	25·0	49·4	—2·3	—4	57	— 1	·713	—·014	1·3	—0·3	0·09	0·11	—0·02
Rajputana	+·016	106·0	—0·6	79·5	—2·0	92·7	—1·3	26·5	45·7	—0·9	—36	31	— 8	·405	—·126	1·4	+0·4	0·45	0·32	+0·13
Bombay	—·028	98·9	+0·7	77·0	+0·2	88·0	+0·5	21·9	35·6	—2·1	—20	63	— 3	·730	—·031	3·2	+0·8	1·59	0·94	+0·65
Central India	+·005	106·4	+1·5	78·5	+0·3	92·5	+0·9	27·8	46·2	—0·7	—28	35	— 9	·482	—·062	1·7	0	0·43	0·21	+0·22
Central Provinces	—·005	106·6	+0·8	80·4	+0·7	93·5	+0·8	26·2	42·2	—0·1	—26	34	— 5	·455	—·065	2·5	+0·6	0·82	0·45	+0·37
Hyderabad	—·012	104·2	+0·3	79·5	+0·3	91·8	+0·3	24·8	36·3	—1·5	—16	51	+ 1	·638	+·014	3·3	+0·7	1·23	0·73	+0·50
Mysore	—·026	92·2	+0·7	69·7	+0·4	81·0	+0·5	22·5	33·8	—0·5	—18	77	+ 3	·683	+·017	5·0	—0·1	5·72	3·61	+2·11
Madras	—·016	97·1	—0·2	79·6	+0·2	88·3	0	17·6	28·1	—0·1	—2	71	+ 1	·862	+·009	4·1	—0·2	2·36	2·76	—0·40

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	I.—Burma.																						
	Victoria Point	147	29·728		29·805	29·809	6th	29·628	15th	·181	81·0	86·0		76·5		81·3		9·5	88·4	4th	73·1	31st	15·3
	Mergui	66	29·804	−·015	29·799	29·871	6th	29·684	15th	·187	80·1	88·0	−1·0	73·3	−0·5	80·9	−0·7	14·2	91·9	6th	72·0	31st	19·9
	Tavoy	19	29·848	−·023	29·840	29·924	6th	29·712	15th	·212	80·8	91·5	+3·0	76·0	+0·6	83·8	+1·8	15·5	98·0	6th	74·0	31st	24·0
	Moulmein	94	29·778	+·012	29·809	29·858	10th	29·640	15th	·218	79·5	90·9	+1·7	75·7	−0·1	83·3	+0·8	15·2	97·7	1st	72·0	4th	25·7
	Bangoon	18	29·829	+·005	29·784	29·920	7th	29·695	15th	·225	80·7	90·6	−1·1	76·4	−0·9	83·5	−1·0	14·2	98·0	9th	73·9	23rd	24·1
	Bassein	27	29·802	−·009	29·766	29·905	7th	29·677	15th	·228	81·8	91·3	−0·3	77·0	−0·3	84·1	−0·3	14·3	99·5	3rd	74·2	29th	25·3
	Diamond Island	41	29·780	−·018	29·755	29·899	7th	29·666	15th	·233	84·2	88·5	0	80·0	+1·1	84·2	+0·5	8·5	90·4	13th	67·6	29th	22·8
	Toungoo	164	29·673	+·010	29·780	29·765	7th	29·537	15th	·228	82·1	95·6	−0·2	75·2	−1·4	85·4	−0·8	20·4	102·5	1st	71·0	28th	31·5
	Kyaukpyu	18	29·797		29·755	29·816	7th	29·681	15th	·225	82·2	88·9		78·4		83·6		10·5	95·3	5th	72·5	28th	22·8
	Akyab	20	29·791	+·001	29·752	29·812	7th	29·582	15th	·230	82·6	90·2	−0·6	77·0	−1·1	83·6	−0·9	13·2	92·1	19th	69·6	7th	22·5
3	Minbu	*165*	29·628	−·004	29·735	29·718	7th	29·502	15th	·216	83·6	100·4	+1·7	78·7*	+0·8*	89·5*	+1·2	21·7	108·3	1st	73·0	4th	35·3
	Yamethin	644	29·170	+·009	29·759	29·260	10th	29·054	15th	·206	82·5	98·2	+1·6	77·0	+0·4	87·6	+1·0	21·2	106·1	1st	72·2	28th	33·9
	Mandalay	250	29·559	+·004	29·745	29·653	10th	29·421	6th	·232	87·7	103·7	+4·1	80·8	+1·7	92·2	+2·9	22·9	111·6	1st	73·5	6th	38·1
	Monywa	*280*	29·506	−·014	29·731	29·632	7th	29·292	6th	·340	85·6	102·8	+2·7	80·4	+1·6	91·6	+2·1	22·4	112·6	1st	71·8	6th	40·8
	Lashio	*2,820*	27·021	−·027	26·967	27·114	10th	26·923	15th	·191	76·1	91·0	+3·4	68·3	+1·5	79·7	+2·5	22·7	98·1	17th	62·0	8th	36·1
	Bhamo	*361*	29·415	+·001	29·728	29·537	10th	29·305	15th	·232	79·3	96·4	+2·7	71·9	−0·4	84·1	+1·1	24·5	105·4	18th	66·2	9th	39·2
	Myitkyina	458	29·306	−·019	29·723	29·424	10th	29·195	15th	·229	77·5	93·8	+1·9	72·9	+0·4	83·3	+1·1	20·9	103·6	17th	67·2	9th	36·4
	II.—Assam.																						
4	Dibrugarh	353	29·443	−·012	29·760	29·620	8th	29·301	26th	·319	75·8	83·3	−1·1	71·0	+0·5	77·2	−0·3	12·3	94·7	17th	65·8	27th	28·9
	Sibsagar	333	29·466	+·017	29·777	29·649	10th	29·323	26th	·326	76·2	84·8	−0·7	71·0	−0·5	77·9	−0·6	13·8	94·2	17th	65·5	7th	28·7
	Tezpur	252	29·552	+·007	29·763	29·711	9th	29·394	26th	·317	75·8	87·0	+0·4	71·9	−0·3	79·4	+0·1	15·1	96·9	17th	67·9	9th	29·0
	Gauhati	196	29·605	0	29·758	29·774	10th	29·438	26th	·336	78·6	88·4	+0·6	72·8	+0·9	80·6	+0·7	15·6	95·0	17th	65·2	27th	29·8
	Dhubri	115	29·662	+·007	29·732	29·857	10th	29·502	24th	·355	78·9	87·8	+1·5	74·4	+1·5	81·1	+1·5	13·4	94·9	4th	68·2	9th	26·7
	Silchar	104	29·710	+·010	29·767	29·842	10th	29·558	6th	·284	76·9	90·4	+1·6	73·6	+1·0	82·0	+1·3	16·8	96·7	16th	66·6	9th	30·1
	Srimangal	66	29·698†		29·713†	29·828	10th	29·563	24th	·265	81·4	94·7	+3·4	73·6	+1·4	84·2	+2·4	21·1	100·4	18th	65·0	28th	35·4
	III.—Bengal.																						
5	Cox's Bazar	36	29·759		29·741	29·892	10th	29·632	29th	·260	83·1	90·2		75·8		83·0		14·4	93·3	12th	61·9	6th	31·4
	Chittagong	87	29·700	−·003	29·732	29·828	10th	29·561	6th	·267	82·0	89·5	+0·7	76·6	+1·2	83·0	+0·8	12·9	93·2	5th	65·9	6th	27·3
	Noakhali	43	29·746	+·013	29·736	29·882	10th	29·653	26th	·229	83·9	90·7	+1·4	78·2	+2·5	84·5	+2·0	12·5	94·2	5th	68·0	6th	26·2
	Barisal	12	29·766	+·016	29·725	29·922	10th	29·661	26th	·261	84·4	92·4	+0·7	77·8	+1·1	85·1	+0·9	14·6	95·5	16th	66·6	9th	28·9
	Narayanganj	26	29·738	−·001	29·713	29·898	10th	29·616	26th	·282	83·7	92·6	+1·5	78·1	+2·8	85·4	+1·9	14·5	95·6	26th	68·6	9th	27·0

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.
† " " 30 "

B.

stations in India, etc., in May, 1916.

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																I.—Burma.
11	0	5	3	4	4	1	1	2	S 67° E		6·3			23		83		·869		5·9		18			12·19			12·19			3·11	Victoria Point.
28	0	0	1	2	1	0	0	1	S 45° E	S 81° W	1·5	1·4	+0·1	10	−13	89	+ 1	·911	+·004	5·5	+0·2	15	17·9	−2·9	7·90	18·20	−10·30	7·90	18·20	−10·30	1·32	Mergui.
14	4	5	2	2	4	0	0	0	N 73° E	S 61° W	2·0	1·2	+0·3	23	+14	85	− 3	·886	−·006	5·0	−0·3	11	16·9	−7·9	9·68	25·49	−15·81	9·68	25·49	−15·81	4·43	Tavoy.
0	0	3	2	14	6	3	2	1	S 31° E	S 47° E	7·3	2·5	+4·8	59	+23	88	+ 1	·878	−·005	8·3	+1·0	14	17·6	−3·6	9·73	20·89	−11·16	9·73	20·89	−11·16	1·73	Moulmein.
3	3	5	6	3	3	3	2	3	N 75° E	S 39° W	3·6	3·4	+0·2	17	−37	87	+ 1	·905	−·008	9·4	+2·6	15	13·6	+1·4	8·95	12·23	− 3·28	8·95	12·23	− 3·28	1·82	Rangoon.
11	0	0	2	3	2	1	7	5	S 80° W	S 51° W	3·4	3·5	−0·1	23	− 6	85	0	·928	−·003	7·2	+1·7	15	11·5	+3·5	11·07	10·27	+ 0·80	11·07	10·27	+ 0·80	2·62	Bassein.
1	0	0	4	5	2	7	7	5	S 49° W	S 64° W	8·8	5·7	+3·1	33	− 7	77	− 2	·902	−·011	5·4	−1·2	10	11·0	−1·0	5·52	11·16	− 5·64	5·52	11·16	− 5·64	1·65	Diamond Island.
7	0	1	0	10	11	2	0	0	S 19° E	S 28° E	2·8	3·4	−0·6	66	− 2	83	+ 2	·900	−·027	6·6	+0·1	13	10·1	+2·9	6·50	6·98	− 0·48	6·50	6·98	− 0·48	1·29	Toungoo.
6	2	3	3	8	2	1	1	5	S 83° E		3·9			17		84		·927		6·9		13			15·31			15·31			3·60	Kyaukpyu.
9	2	3	3	2	4	2	2	4	N 72° E	N 81° E	4·1	2·6	+1·5	1	−49	83	− 1	·950	−·026	5·2	−0·9	7	10·3	−3·3	12·51	11·62	+ 0·89	12·51	11·62	+ 0·89	6·86	Akyab.
2	0	0	1	25	3	0	0	0	S 43° E	S 38° E	3·6	7·5	−3·9	92	+18	70	− 2	·801	−·020	4·0	−0·3	5	6·6	−1·6	3·91	5·00	− 1·09	3·91	5·00	− 1·09	1·04	Minbu.
4	0	0	0	13	12	1	0	0	S 20° E	S 28° E	2·7	5·9	−3·2	82	+ 8	71	− 4	·790	−·034	3·3	−0·9	4	8·7	−4·7	5·20	6·15	− 0·95	5·20	6·15	− 0·95	3·07	Yamethin.
6	0	0	0	12	13	0	0	0	S 21° E	S 4° E	4·3	5·4	−1·1	72	+11	61	− 8	·787	−·035	3·5	−0·4	3	7·6	−4·6	2·60	5·65	− 3·05	2·60	5·65	− 3·05	1·39	Mandalay.
3	1	0	2	15	7	1	0	2	S 33° E		3·5			62		63	− 6	·768	−·029	5·1	+0·7	6	6·7	−0·7	3·27	5·94	− 2·67	3·27	5·94	− 2·67	0·93	Monywa.
15	1	4	0	1	2	7	1	0	S 33° W		2·4			17		70	−11	·629	−·037	4·9	−1·7	5	11·4	−6·4	3·58	6·05	− 2·47	3·58	6·05	− 2·47	1·38	Lashio.
21	4	3	0	1	0	2	0	0	N 19° E	N 53° W	1·2	2·3	−1·1	13	− 7	77	− 3	·760	−·017	4·7	−0·9	7	9·7	−2·7	3·69	5·80	− 2·11	3·69	5·80	− 2·11	1·19	Bhamo.
29	0	1	0	1	0	0	0	0	E		2·0			5		78	0	·728	−·021	5·5	−0·7	9	9·5	−0·5	9·84	5·42	+ 4·42	9·84	5·42	+ 4·42	2·73	Myitkyina.
																																II.—Assam.
11	2	9	4	2	0	2	0	1	N 57° E		1·7			40		86	− 3	·754	−·011	5·7	−0·8	14	19·3	−0·3	17·95	9·22	+ 8·73	17·95	9·22	+ 8·73	4·45	Dibrugarh.
9	7	10	2	0	0	0	0	3	N 24° E	N 60° E	3·0	2·1	+0·9	59	+26	86	− 5	·775	−·036	6·4	−1·5	13	15·7	−2·7	12·59	11·77	+ 0·82	12·59	11·77	+ 0·82	4·54	Sibsagar.
22	0	5	3	1	0	0	0	0	N 69° E		4·1			23		86	− 1	·764	−·014	5·0	−1·2	15	14·4	+0·6	10·57	8·25	+ 2·32	10·57	8·25	+ 2·32	1·61	Tezpur.
31	0	0	0	0	0	0	0	0	Calm		1·8			(a)		81	− 5	·790	+·001	5·5	−1·1	13	13·6	−0·6	5·81	9·45	− 3·64	5·81	9·45	− 3·64	0·97	Gauhati.
2	0	13	12	3	0	0	0	1	N 71° E	N 67° E	6·8	5·2	+1·6	79	+25	83	− 4	·819	+·018	5·7	−0·5	10	15·5	−5·5	13·99	14·94	− 0·95	13·99	14·94	− 0·95	7·71	Dhubri.
20	0	6	5	0	0	0	0	0	N 65° E	N 84° E	1·5	2·3	−0·8	33	+20	85	0	·835	+·006	7·0	+0·5	11	16·1	−5·1	11·90	15·22	− 3·32	11·90	15·22	− 3·32	3·77	Silchar.
																82	− 3	·882	+·021	2·8		5	13·2	−8·2	4·45	12·99	− 8·54	4·45	12·99	− 8·54	2·03	Srimangal.
																																III.—Bengal.
4	1	2	6	10	7	1	0	0	S 43° E		4·1			59		82		·932		4·5		5			7·15			7·15			3·58	Cox's Bazar.
16	0	0	9	6	1	0	0	0	S 68° E	S 50° E	2·5	4·7	−2·2	46	−19	85	+ 4	·931	+·041	5·1	−0·3	6	10·7	−4·7	4·15	9·31	− 5·16	4·15	9·31	− 5·16	2·40	Chittagong.
4	0	1	1	11	10	3	1	0	S 18° E		4·1			65		79	− 4	·920	+·005	4·9	+0·6	4	10·6	−6·6	2·41	11·66	− 9·25	2·41	11·66	− 9·25	0·94	Noakhali.
4	0	3	0	2	14	6	1	1	S 9° W	S 9° E	3·4	3·7	−0·3	56	+ 6	79	− 3	·938	−·020	6·4	+1·0	6	9·7	−3·7	6·11	8·89	− 2·78	6·11	8·89	− 2·78	3·57	Barisal.
3	1	0	3	6	14	3	1	0	S 12° E	S 26° E	3·7	4·9	−1·2	66	+12	80	− 4	·924	+·004	4·8	−1·2	4	10·9	−6·9	3·26	8·94	− 5·68	3·26	8·94	− 5·68	1·55	Narayanganj.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	III.—Bengal—*concld.*																						
	Mymensingh	63	29·709	0	29·723	29·868	10th	29·574	24th	·294	82·5	94·6	+5·7	77·4	+3·3	86·0	+4·5	17·2	101·9	25th	67·3	29th	34·6
	Bogra	75	29·680	0	29·706	29·876	10th	29·521	24th	·355	83·1	97·9	+5·5	77·1	+2·9	87·5	+4·2	20·8	109·7	26th	67·8	29th	41·9
	Dinajpur	123	29·618	—·005	29·696	29·831	10th	29·462	24th	·369	82·0	95·7	+3·8	75·9	+2·2	85·8	+3·0	19·8	109·8	27th	66·9	9th	43·8
	Jalpaiguri	283	29·483	0	29·725	29·680	10th	29·339	24th	·341	77·0	89·9	+1·0	72·6	+0·2	81·3	+0·6	17·3	96·2	4th	66·7	9th	29·5
	Saugor Island	10	29·740	+·016	29·695	29·907	10th	29·627	25th	·280	85·8	90·9	—0·9	80·3	—0·6	85·6	—0·7	10·6	93·2	12th	68·9	29th	24·3
	Midnapore	149	29·568	—·003	29·663	29·738	10th	29·445	25th	·293	87·9	104·8	+4·9	80·3	+2·0	92·5	+3·5	24·5	114·0	25th	69·5	28th	44·5
	Calcutta	21	29·712	+·001	29·680	29·898	10th	29·596	25th	·302	85·3	98·2	+3·7	80·1	+2·6	89·2	+3·1	18·1	105·4	1st	69·5	10th	35·9
	Jessore	30	29·723	+·012	29·700	29·887	10th	29·601	26th	·286	83·4	96·3	+1·8	78·3	+1·7	87·3	+1·7	18·0	101·9	25th	69·7	9th	32·2
	Burdwan	99	29·620	—·003	29·666	29·807	10th	29·494	24th	·313	85·1	103·9	+6·1	79·1	+1·6	91·5	+3·9	24·8	114·6	25th	68·4	9th	46·2
	Berhampore	67	29·657	—·005	29·672	29·863	10th	29·492	24th	·371	85·1	103·6	+7·0	80·1	+3·7	91·9	+5·3	23·5	115·1	25th	69·2	9th	45·9
	IV.—Bihar and Orissa.																						
6	Balasore	50	29·696	+·021	29·690	29·842	10th	29·582	25th	·260	86·2	100·5	+3·3	79·5	+0·9	90·0	+2·1	21·0	111·6	25th	67·1	10th	44·5
	Hukitala (False Point).	29	29·734	+·024	29·701	29·875	10th	29·655	28th	·220									—				
	Cuttack	80	29·671	+·021	29·691	29·861	10th	29·586	28th	·275	86·4	103·3	+1·8	81·0	+1·0	92·2	+1·4	22·3	110·5	27th	71·8	12th	38·7
	Puri	24	29·739	+·022	29·703	29·929	10th	29·651	28th	·278	84·3	89·9	0	82·2	+1·3	86·0	+0·7	7·7	98·8	6th	76·3	29th	22·5
	Angul	455	29·282	+·017	29·676	29·487	10th	29·177	28th	·310	87·2	105·7	+1·2	80·2	+1·7	92·9	+1·5	25·5	111·8	26th	74·0	6th	37·8
	Sambalpur	486	29·244	+·014	29·667	29·423	10th	29·129	28th	·294	91·1	107·2	+0·6	82·0	+0·8	94·6	+0·7	25·2	111·0	26th	72·9	6th	38·1
7	Chaibasa	*733*	28·976	+·003	29·647	29·112	10th	28·853	28th	·259	87·5	107·4	+3·5	80·4	+2·5	93·9	+3·0	27·0	113·2	26th	70·6	11th	42·6
	Ranchi	2,128	29·632	+·020	29·629	29·763	10th	29·519	28th	·244	85·5	101·2	+2·0	77·7	+2·2	89·4	+2·1	23·5	107·7	26th	63·7	11th	44·0
	Purulia	*816*	28·912*	+·019*	29·659*	29·083	10th	28·790	22 nd & 27th.	·293	89·7	108·3	+6·2	81·2	+3·9	94·7	+5·1	27·1	118·5	22nd	66·2	10th	52·3
	Daltonganj	*730*	28·951	—·013	29·617	29·120	10th	28·813	22nd	·307	82·2	109·1	+2·2	79·2	0	94·2	+1·1	29·9	115·1	23rd & 24th.	67·1	6th	48·0
8	Purnea	124	29·606	—·007	29·684	29·810	10th	29·472	24th	·338	82·3	98·0	+3·0	75·6	+1·4	86·8	+2·2	22·4	111·1	27th	63·0	9th	48·1
	Monghyr	155	29·534		29·639	29·774	10th	29·387	25th	·387	86·5	103·9		77·5		90·7		26·4	112·4	27th	70·1	7th	42·3
	Darbhanga	165	29·547	—·004	29·665	29·785	10th	29·380	25th	·405	83·8	100·6	+4·8	76·4	+0·4	88·5	+2·6	24·2	110·0	26th & 27th.	67·1	5th	42·9
	Pusa	188	29·520		29·661	29·764	10th	29·357	25th	·407	86·0	104·6		74·5		89·5		30·1	114·1	27th	62·7	5th	51·4
	Patna	183	29·504	—·008	29·632	29·733	10th	29·339	25th	·394	87·5	103·2	+3·0	78·8	+1·1	91·0	+2·1	24·4	109·9	27th	73·2	7th	36·7
	Buxar	239	29·438	—·005	29·638	29·677	10th	29·292	27th	·385	86·7	106·9	+3·9	79·8	+0·6	93·3	+2·3	27·1	113·9	24th & 27th.	70·0	4th	43·9
	Gaya	372	29·327	+·017	29·640	29·564	10th	29·181	22nd & 27th.	·383	92·7	108·9	+4·2	81·9	+2·2	95·4	+3·2	27·0	115·3	27th	72·4	4th	42·9
	Naya Dumka	489	29·228	+·008	29·660	29·430	10th	29·092	24th	·338	89·3	106·9	+8·1	80·5	+3·4	93·7	+5·7	26·4	115·6	25th, 26th & 28th.	74·2	9th	41·4
	V.—United Provinces of Agra and Oudh.																						
9	Gorakhpur	257	29·431	—·006	29·643	29·651	10th	29·264	25th	·387	85·7	104·2	+3·3	76·6	—0·3	90·4	+1·5	27·6	113·3	26th	67·9	5th	45·4
	Benares	267	29·421	+·008	29·695	29·634	10th	29·280	23rd	·354	91·8	107·9	+2·6	77·9	—0·9	92·9	+0·9	30·0	115·0	27th	67·7	4th	47·3
	Allahabad	309	29·371	+·003	29·628	29·566	10th	29·231	22nd	·335	91·5	108·8	+1·9	78·9	—0·7	93·8	+0·6	29·9	116·0	27th	68·7	4th	47·3
	Cawnpore	416	29·274	+·020	29·638	29·475	10th	29·128	21st	·347	89·2	106·8	+1·0	79·3	+0·2	93·0	+0·6	27·5	115·2	27th	66·1	4th	47·1

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B—*continued.*

stations in India, etc., in May, 1916—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																III.—Bengal —*concld.*
11	0	0	7	8	3	1	1	0	S 50° E	S 81° E	2·9	3·0	−0·1	46	−22	81	−3	·907	+·068	6·9	+0·7	5	13·3	−8·3	2·29	13·03	−10·74	2·29	13·03	−10·74	0·96	Mymensingh.
6	0	3	6	2	9	2	0	0	S 40° E	S 72° E	2·1	3·2	−1·1	43	−17	78	−3	·880	+·049	6·1	+1·3	5	10·0	−5·0	2·29	8·34	−6·05	2·29	8·34	−6·05	0·88	Bogra.
2	1	4	17	4	3	0	0	0	S 85° E	N 88° E	4·0	3·4	+0·6	76	+4	75	−4	·825	+·026	4·0	−1·9	3	8·9	−5·9	4·61	7·49	−2·88	4·61	7·49	−2·88	3·40	Dinajpur.
17	0	0	5	3	5	1	0	0	S 39° E	N 88° E	2·8			33	+1	86	+3	·796	+·006	4·8	+0·5	11	12·6	−1·6	13·52	11·39	+2·13	13·52	11·39	+2·13	3·70	Jalpaiguri.
0	1	1	1	2	14	12	0	0	S 14° W	S 5° W	12·3			76	+1	79	−2	·977	−·023	5·1	−1·1	3	5·8	−2·8	3·06	4·48	−1·42	3·06	4·48	−1·42	2·64	Saugor Island.
5	0	1	1	6	11	6	0	1	S 3° E		5·0			58		63*	−11	·824*	−·061	2·1	−0·2	4	7·3	−3·3	2·38	5·05	−2·67	2·38	5·05	−2·67	0·94	Midnapore.
1	0	1	1	2	7	17	1	1	S 29° W	S 6° W	5·9	5·1	+0·8	72	+4	75	−4	·909	−·028	3·3	−1·4	2	7·2	−5·2	3·86	5·74	−1·88	3·86	5·74	−1·88	2·18	Calcutta.
8	0	0	1	6	14	1	0	1	S 12° E	S 16° E	4·9	3·4	+1·5	62	+8	79	−4	·906	−·046	3·7	−1·8	4	9·6	−5·6	3·74	8·05	−4·31	3·74	8·05	−4·31	1·70	Jessore.
5	1	1	0	4	11	6	1	2	S 11° W	S 11° W	3·2	3·4	−0·2	49	−5	70	−7	·841	−·047	3·4	−1·8	2	7·4	−5·4	0·88	6·36	−5·48	0·88	6·36	−5·48	0·56	Burdwan.
1	0	1	3	5	13	8	0	0	S 4° E	S 37° E	4·5	3·7	+0·8	69	+19	71	−10	·861	−·019	3·5	−1·8	1	7·4	−6·4	0·60	5·24	−4·64	0·60	5·24	−4·64	0·51	Berhampore.
																																IV.—Bihar and Orissa.
0	0	0	1	1	14	14	0	1	S 20° W	S 29° W	6·1	6·4	−0·3	86	+11	71	−4	·836	−·036	3·4	+0·1	5	6·3	−1·3	3·99	4·75	−0·76	3·99	4·75	−0·76	2·02	Balasore.
0	1	0	2	3	17	5	1	2	S 5° W		13·7			66	−9					5·1	−1·0	3	4·3	−1·3	1·42	4·35	−2·93	1·42	4·35	−2·93	0·66	Hukitala (False Point).
7	0	0	1	1	9	9	4	0	S 28° W	S 46° W	3·6	5·7	−0·1	59	+19	73	0	·917	+·006	4·4	−0·1	3	5·5	−2·5	2·66	3·99	−1·33	2·66	3·99	−1·33	1·23	Cuttack.
0	1	1	0	1	13	14	1	0	S 22° W		15·2			78		84	−1	·884	−·028	4·4	+0·1	1	3·1	−2·1	0·51	2·73	−2·22	0·51	2·73	−2·22	0·47	Puri.
0	1	6	2	7	1	1	1	2	E		4·9			26		63	−4	·813	−·012	3·2	+1·2	4	3·8	+0·2	1·41	1·54	−0·13	1·41	1·54	−0·13	0·65	Angul.
0	3	4	2	4	6	11	1	0	S 6° W	S 7° E	3·1	3·1	0	27	−5	43	−7	·628	−·078	3·1	+0·2	2	2·5	−0·5	0·74	1·31	−0·57	0·74	1·31	−0·57	0·33	Sambalpur.
5	0	1	1	1	5	18	0	0	S 30° W	S 58° W	3·0	2·0	+1·0	69	+22	52	−12	·678	−·071	2·6	+0·3	5	5·6	−0·6	1·70	3·34	−1·64	1·70	3·34	−1·64	0·68	Chaibasa.
2	1	1	0	6	5	9	4	3	S 33° W	S 43° W	4·0	5·7	−1·7	46	−1	41	−10	·491	−·089	2·5	+0·2	3	4·6	−1·6	4·26	2·29	+1·97	4·26	2·29	+1·97	2·73	Ranchi.
13	1	1	1	2	0	5	3	5	N 87° W		2·5			22		46	−20	·616	−·120	1·6	−0·8	2	5·1	−3·1	0·62	2·74	−2·12	0·62	2·74	−2·12	0·50	Purulia
23	0	1	1	1	1	2	2	0	S 27° W		3·6			6		36	−12	·463	−·151	1·4	−0·1	0	1·1	−1·1	0·03	0·51	−0·48	0·03	0·51	−0·48	0·02	Daltonganj.
0	2	5	20	4	0	0	0	0	N 84° E	N 82° E	4·2	3·3	+0·9	86	+11	77	0	·846	+·035	2·6	−1·1	3	5·6	−2·6	2·04	4·45	−2·41	2·04	4·45	−2·41	0·90	Purnea
1	1	2	14	5	2	3	2	1	S 70° E		6·3			48		61*		·768*		1·2		0			0·07			0·07			0·07	Monghyr.
6	0	2	22	0	0	0	1	0	N 87° E	S 79° E	5·4	4·5	+0·9	72	−4	64	−8	·737	−·058	1·3	−1·0	1	3·9	−2·9	0·38	2·86	−2·48	0·38	2·86	−2·48	0·16	Darbhanga.
2	1	7	13	4	2	2	0	0	S 89° E		3·8			62		58		·712		1·7		1			0·37			0·37			0·30	Pusa.
5	0	0	17	3	1	2	3	0	S 73° E	N 87° E				53	−15	54	−10	·681	−·071	2·5	+0·5	1	3·0	−2·0	0·15	1·66	−1·51	0·15	1·66	−1·51	0·11	Patna.
4	0	2	8	4	2	3	7	1	S 22° E		5·3			19		38	−14	·470	−·166	2·0	+0·2	2	1·4	+0·6	0·40	0·67	−0·27	0·40	0·67	−0·27	0·26	Buxar.
3	0	4	3	3	4	11	3	0	S 14° W	S 78° W	3·3	3·9	−0·6	37	+9	35	−23	·501	−·271?	1·1	−1·4	1	1·7	−0·7	0·27	1·03	−0·76	0·27	1·03	−0·76	0·26	Gaya.
17	0	0	2	3	6	1	1	1	S 12° E		3·0			27		49	−18	·669	−·097	0·5	−2·5	0	4·8	−4·8	0	3·27	−3·27	0	3·27	−3·27	0	Naya Dumka.
																																V.—United Provinces of Agra and Oudh.
2	0	5	20	1	0	0	2	1	N 81° E	N 76° E	3·7	2·6	+1·1	69	+26	52	−11	·623	−·105	0·6	−1·4	2	2·8	−0·8	0·69	1·42	−0·73	0·69	1·42	−0·73	0·42	Gorakhpur.
2	2	2	4	5	3	6	4	3	S 15° W	N 72° E	3·0	3·7	−0·7	17	+5	35	−17	·502	−·171	0·7	−0·9	2	0·9	+1·1	0·24	0·51	−0·27	0·24	0·51	−0·27	0·13	Benares.
12	1	1	3	0	1	2	9	1	W	N 2° E	2·8	5·0	−2·2	24	+15	27	−15	·394	−·189	2·0	+0·3	0	0·8	−0·8	0·03	0·26	−0·23	0·03	0·26	−0·23	0·02	Allahabad.
7	2	3	2	0	3	4	3	7	N 64° W	S 56° W	2·3	3·6	−1·3	23	+8	33	−6	·440	−·153	0·3	−0·9	1	0·7	+0·3	0·18	0·28	−0·10	0·18	0·28	−0·10	0·18	Cawnpore.

(a) Indeterminate.

* Mean of 30 days.

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	V.—United Provinces of Agra and Oudh—*concld.*																						
	Lucknow	368	29·313	+·004	29·630	29·534	10th	29·166	27th	·368	91·4	107·6	+2·5	78·6	+1·0	93·1	+1·7	28·0	114·9	27th	68·5	4th	46·4
	Bahraich	407	29·263	−·014	29·624	29·505	10th	29·104	25th & 27th.	·401	86·5	105·4	+2·8	76·8	−0·2	91·1	+1·3	28·6	113·5	24th	68·2	4th	45·3
10	Jhansi	824	28·886	−·002	29·642	29·031	10th	28·746	21st	·285	92·6	109·3	+0·9	82·9	−1·5	96·1	−0·3	26·4	116·0	22nd	70·2	4th	45·8
	Agra	556	29·144	+·020	29·645	29·321	10th	29·011	28th	·310	92·4	107·5	+0·8	81·1	−0·4	94·3	+0·2	26·4	114·8	27th	72·3	4th	42·5
	Mainpuri	516	29·161	+·005	29·625	29·357	10th	29·022	28th	·335	90·0	108·7	+1·5	78·3	−0·4	93·5	+0·5	30·4	116·1	27th	68·1	4th	48·0
	Bareilly	568	29·101	−·001	29·621	29·322	10th	28·949	27th	·374	86·9	105·6	+2·5	75·8	−0·6	90·7	+0·9	29·8	113·1	27th	66·2	4th	46·9
	Roorkee	899	28·779	+·007	29·630	29·020	10th	28·629	27th	·391	84·7	103·8	+1·3	71·1	−3·1	87·5	−0·9	32·7	111·9	27th	63·4	3rd & 6th	48·5
	VI.—Punjab.																						
11	Delhi	718	28·880	+·027	29·652	29·177	10th	28·841	28th	·336	86·5	104·5	0	80·5	+0·1	92·5	+0·1	24·0	112·4	27th	69·8	10th & 30th.	42·6
	Hissar	725	28·972	+·043	29·643	29·129	10th	28·818	29th	·311	87·2	104·8	−2·0	73·7	−3·7	89·2	−2·9	31·1	114·4	27th	61·0	11th	53·4
	Patiala	*818*	28·858	+·005	29·630	29·070	10th	28·687	28th	·383	85·8	102·1	−0·8	73·7	−2·8	87·9	−1·8	28·4	111·4	29th	64·0	5th	47·4
	Ambala	992	28·777	+·008	29·621	29·010	10th	28·630	28th	·389	86·6	105·0	+0·9	73·8	−1·8	89·4	−0·5	31·2	113·7	27th & 29th	63·3	5th	50·4
	Ludhiana	912	28·881	+·041	29·682	29·098	10th	28·703	29th	·395	84·0	103·6	−0·6	74·9	−0·8	89·2	−0·7	28·7	113·3	29th	65·6	2nd	47·7
	Lahore	702	28·990	+·038	29·658	29·160	2nd	28·785	29th	·375	83·3	101·8	−3·6	72·5	−0·9	87·2	−2·3	29·3	111·8	29th	59·8	3rd	52·0
	Sialkot	830	28·862	+·041	29·661	29·057	10th	28·672	28th	·385	81·2	100·4	−2·8	70·5	−4·5	85·5	−3·7	29·9	111·9	29th	58·4	4th	53·5
	Rawalpindi	1,674	28·053	+·024	29·378	28·197	2nd & 10th.	27·860	29th	·337	81·0	95·2	−2·8	66·6	−1·9	80·9	−2·3	28·6	108·5	29th	55·6	2nd	52·9
12	Khushab	612	29·104	+·064	29·679	29·281	11th	28·870	28th	·414	86·6	104·7	−2·7	74·9	−2·0	88·3	−2·3	26·8	111·6	29th	62·2	3rd	49·4
	Lyallpur	605	29·062		29·652	29·262	2nd	28·864	28th	·398	84·1	101·2		70·3		85·8		30·9	110·7	29th	60·5	3rd & 4th	50·2
	Montgomery	558	29·132	+·052	29·652	29·221	2nd	28·897	29th	·421	85·5	102·1	−5·4	73·2	−4·8	87·6	−4·9	28·9	112·2	29th	63·5	4th	48·7
	Multan*	426	29·254	+·035	29·640	29·261	2nd	29·095	28th	·426	85·1	104·7	−2·2	73·7	−4·4	89·2	−3·3	31·0	114·6	29th	60·9	3rd	53·7
	VII.—North-West Frontier Province.																						
13	Peshawar	1,113	28·634	+·040	29·720	28·796	2nd	28·432	29th	·364	78·9	95·9	−2·2	66·6	−3·3	81·2	−2·7	29·3	109·2	28th	55·9	2nd	53·3
	D. I. Khan	590	29·118	+·030	29·675	29·301	2nd	28·871	28th	·430	84·0	99·7	−4·1	72·8	−1·8	86·2	−2·9	26·9	111·7	29th	62·6	4th	49·1
	VIII.—Sind.																						
16	Jacobabad	186	29·517	+·051	29·659	29·739	2nd	29·315	29th	·424	86·1	110·0	−2·0	77·1	−1·2	93·6	−1·6	32·9	120·5	29th	62·2	2nd	58·3
	Hyderabad	96	29·620	+·019	29·667	29·830	1st	29·452	29th	·378	87·0	106·6	−0·6	77·2	−1·0	91·9	−0·8	29·4	116·1	25th	62·6	2nd	54·1
	Karachi	13	29·753	+·016	29·717	29·948	1st	29·599	30th	·345	82·6	90·0	+1·2	77·4	−0·9	83·7	+0·1	12·6	106·8	22nd	71·0	2nd	35·8
	IX.—Rajputana.																						
17	Bikaner	*771*	28·945	+·046	29·667	29·134	2nd	28·615	26th	·319	87·4	106·0	−1·4	78·3	−4·6	92·1	−3·0	27·7	114·0	26th & 27th	66·9	9th	47·1
	Jodhpur	780	28·956	+·015	29·679	29·141	2nd	28·826	22nd	·315	86·5	106·1	−0·4	78·8	−1·4	92·4	−0·9	27·3	113·5	26th	66·4	2nd	47·1
18	Jaipur	1,431	28·306	+·006	29·653	28·421	2nd	28·195	21st	·236	89·3	106·2	−0·3	78·1	−0·2	92·2	−0·3	28·1	112·5	21st	66·0	4th	46·5
	Ajmer	1,611	28·149	+·010	29·670	28·290	2nd	28·032	22nd	·258	86·9	103·1	−0·7	78·4	−1·6	90·7	−1·1	24·7	109·2	26th	64·6	3rd	44·6
	Kotah	832	28·690	+·004	29·653	29·052	2nd	28·749	23rd	·303	94·0	108·6	−0·3	83·7	−2·0	96·2	−1·1	24·9	115·0	23rd	71·6	30th	43·4

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.

B—*continued.*

stations in India, etc., in May, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																V.—United Provinces of Agra and Oudh—*concld.*
18	0	0	4	1	1	3	2	2	S 19° W	N 72° E	1·4	2·9	−1·5	7	−6	31	−15	·434	−·148	0·5	−1·3	0	1·4	−1·4	0·04	0·88	−0·84	0·04	0·88	−0·84	0·04	Lucknow.
7	0	0	12	3	0	1	4	4	E	S 72° E	3·2	3·6	−0·4	21	−25	38	−21	·464	−·249	1·1	−0·3	2	2·9	−0·9	0·39	1·53	−1·14	0·39	1·53	−1·14	0·22	Bahraich.
2	3	3	2	2	1	5	8	5	N 75° W	N 70° W	4·8	3·4	+1·4	30	−10	21	−17?	·306	−·255?	1·1	0	0	1·2	−1·2	0	0·35	−0·35	0	0·35	−0·35	0	Jhansi.
6	2	1	2	1	1	5	8	5	N 85° W	S 49° W	3·5	4·5	−1·0	40	+1	33	−5	·499	−·027?	1·2	0	0	1·4	−1·4	0·11	0·48	−0·37	0·11	0·48	−0·37	0·08	Agra.
7	5	1	1	2	2	2	6	5	N 60° W	N 84° W	2·2	2·0	+0·2	30	+15	28	−13	·385	−·159	0·3	−1·7	0	0·7	−0·7	0	0·33	−0·33	0	0·33	−0·33	0	Mainpuri.
14	0	1	4	0	0	3	7	2	W	S 75° E	2·6	3·1	−0·5	19	+6	47	−2?	·591	−·015?	1·6	+0·1	0	1·7	−1·7	0·10	0·70	−0·60	0·10	0·70	−0·60	0·08	Bareilly.
21	0	1	0	3	0	0	0	6	N 27° W	S 45° E	3·6	2·7	+0·9	10	−19	30	−9	·349	−·122	1·5	+0·2	3	1·3	+1·2	1·15	0·83	+0·32	1·15	0·83	+0·32	0·53	Roorkee.
																																VI.—Punjab.
1	5	2	2	1	0	2	8	10	N 47° W	S 73° W	3·7	3·2	+0·5	53	+28	29	−10	·349	−·145	1·2	−0·8	0	1·8	−1·8	0	0·63	−0·63	0	0·63	−0·63	0	Delhi.
5	8	1	0	2	2	5	2	6	N 51° W	S 39° W	5·2	4·5	+0·7	33	+8	30	−8	·365	−·139	2·4	+0·5	2	1·5	+0·5	1·80	0·61	+1·19	1·80	0·61	+1·19	1·62	Hissar.
3	9	1	5	1	0	2	1	9	N 8° W		5·0			45		42	−2	·510	−·048	1·0	−0·2	1	1·7	−0·7	0·52	0·63	−0·11	0·52	0·63	−0·11	0·52	Patiala.
3	15	1	5	1	0	2	3	1	N 5° E	S 83° E	4·5	2·3	+2·2	46	+38	25	−19	·307	−·229	0·7	−0·4	1	1·6	−0·6	0·40	0·60	−0·20	0·40	0·60	−0·20	0·37	Ambala.
20	4	1	0	1	2	1	0	2	N 15° W	S 44° E	2·3	1·9	+0·4	10	−4	29	−10	·335	−·152	0·7	−0·8	0	1·5	−1·5	0	0·60	−0·60	0	0·60	−0·60	0	Ludhiana.
9	4	6	1	3	0	0	1	7	N 7° E	N 72° E	2·2	2·3	−0·1	37	+15	38	−3	·415	−·089	2·4	+0·8	2	1·4	+0·6	0·37	0·67	−0·30	0·37	0·67	−0·30	0·27	Lahore.
10	8	2	4	3	0	0	0	4	N 25° E	N 41° E	2·7	2·3	+0·4	37	−2	41	0	·419	−·093	1·5	+0·2	3	2·2	+0·8	0·93	1·09	−0·16	0·93	1·09	−0·16	0·47	Sialkot.
12	2	3	1	2	1	1	5	4	N 47° W	N 14° E	3·7	2·2	+1·5	20	+2	36	−6	·359	−·093	3·1	+1·0	2	2·7	−0·7	3·10	1·42	+1·68	3·10	1·42	+1·68	2·81	Rawalpindi.
5	3	7	10	1	1	0	2	2	N 58° E	N 14° E	6·6	5·1	+1·5	46	+28	29	−5	·344	−·098	1·9	+0·8	4	1·5	+2·5	1·23	0·77	+0·46	1·23	0·77	+0·46	0·49	Khushab.
8	1	7	1	5	0	4	0	5	N 45° E		2·5			13		35		·377		2·3		1	1·1	−0·1	0·26	0·40	−0·14	0·26	0·40	−0·14	0·19	Lyallpur.
2	10	7	4	2	2	0	2	2	N 28° E	S 48° E	4·7	5·5	−0·8	49	+35	41	+10	·436	+·048	1·7	+0·7	1	1·0	0	0·22	0·36	−0·14	0·22	0·36	−0·14	0·22	Montgomery.
11	13	0	1	4	0	0	0	0	N 21° E	S 12° E	1·5	1·9	−0·4	39	+32	45	+7	·582	+·032	0·7	+0·1	2	0·7	+1·3	0·68	0·29	+0·39	0·68	0·29	+0·39	0·42	Multan.
																																VII.—North-West Frontier Province.
25	1	1	0	1	0	0	0	2	N 13° W	N 50° W	1·5	3·4	−1·9	10	−1	46	+3	·448	−·039	2·0	−0·2	3	2·1	+0·9	0·94	0·93	+0·01	0·94	0·93	+0·01	0·46	Peshawar.
13	3	3	2	1	0	0	1	8	N 10° W	N 16° E	2·1	1·8	+0·3	33	+8	41	−7	·469	−·151	1·3	+0·3	0	0·9	−0·9	0·08	0·42	−0·34	0·08	0·42	−0·34	0·06	D. I. Khan.
																																VIII.—Sind.
14	3	0	6	6	1	1	0	0	S 73° E	S 53° E	2·5	3·4	−0·9	30	+1	50	+8	·719	+·087	1·0	+0·2	2	0·4	+1·6	0·56	0·14	+0·42	0·56	0·14	+0·42	0·15	Jacobabad.
4	2	1	0	0	7	13	3	0	S 45° W	S 45° W	6·7	10·6	−3·9	53	−37	45	−9	·562	−·108	0·3	−0·5	0	0·3	−0·3	0	0·17	−0·17	0	0·17	−0·17	0	Hyderabad.
1	3	0	0	0	1	6	18	2	S 88° W	S 56° W	10·3	12·3	−2·0	79	+25	77	−3	·859	−·020	2·5	−0·7	0	0·1	−0·1	0	0·06	−0·06	0	0·06	−0·06	0	Karachi.
																																IX.—Rajputana.
4	0	1	4	5	7	5	1	4	S 5° E	S 36° W	5·2	5·8	−0·6	37	−28	52*	+8	·659*	+·034	1·2	+0·1	2	1·2	+0·8	2·61	0·64	+1·97	2·61	0·64	+1·97	1·78	Bikaner.
4	0	4	6	0	1	11	3	2	S 36° W		4·7			20		27	−15	·341	−·188	1·3	+0·2	2	0·7	+1·3	1·76	0·25	+1·51	1·76	0·25	+1·51	1·50	Jodhpur.
9	4	5	3	2	0	0	4	4	N 7° E	S 88° W	4·6	4·6	0	30	−20	26	−11	·335	−·162	0·8	−0·6	0	1·4	−1·4	0·18	0·53	−0·35	0·18	0·53	−0·35	0·08	Jaipur.
19	0	3	0	0	1	3	4	1	S 87° W	S 79° W	4·4	6·4	−2·0	16	−59	30	−14	·362	−·205	3·0	+1·9	2	1·6	+0·4	0·93	0·55	+0·38	0·93	0·55	+0·38	0·62	Ajmer.
6	4	4	1	1	0	4	5	6	N 45° W		2·9			33		22	−6	·327	−·110	0·9	+0·3	2	1·2	+0·8	0·99	0·43	+0·56	0·99	0·43	+0·56	0·74	Kotah.

* Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	X.—Bombay.																						
19	Deesa	466	29·303	−·012	29·713	29·445	2nd	29·129	23rd	·316	90·0	110·9	+3·9	79·0	+1·6	85·0	+2·7	31·9	119·0	24th	66·2	3rd	54·8
	Bhuj	334	29·439	−·001	29·721	29·600	2nd	29·289	22nd	·311	85·7	103·3	+1·9	75·4	−1·1	89·4	+0·4	27·9	113·0	24th	61·9	2nd	51·1
	Jamnagar	61	29·722	−·019	29·728	29·855	2nd	29·563	23rd	·292	86·0	98·1	+0·2	76·8	+0·1	87·4	+0·1	21·3	109·9	24th	67·9	2nd	42·0
	Dwarka	37	29·765	−·015	29·748	29·902	2nd	29·597	23rd	·305	83·2	88·7	+1·0	79·9	−0·2	84·2	+0·4	8·8	92·3	2nd	76·2	2nd	16·1
	Rajkot	429	29·355	−·025	29·727	29·469	2nd & 10th	29·193	23rd	·276	85·5	105·6	+0·2	75·7	+0·7	90·7	+0·5	29·9	113·9	24th	64·6	2nd	49·3
	Veraval	*18*	29·788	−·030	29·747	29·903	10th	29·607	23rd	·296	81·9	86·4	0	78·1	−0·2	82·3	−0·1	8·3	97·4	3rd	69·6	2nd	27·8
	Bhavnagar Para	55	29·733	−·035	29·734	29·850	10th	29·556	23rd	·294	87·4	106·1	+1·0	78·9	+0·7	92·5	+0·9	27·2	112·8	24th	70·2	4th	42·6
	Surat	39	29·765	−·034	29·747	29·893	10th	29·587	23rd	·306	86·4	98·7	+1·0	78·9	+0·5	88·8	+0·7	19·8	108·1	4th	73·3	5th	34·8
	Ahmadabad	163	29·620	−·028	29·730	29·750	10th	29·442	23rd	·308	88·2	109·9	+2·3	79·9	+0·5	94·9	+1·4	30·0	117·8	22nd	72·0	4th	45·8
25	Bombay	37	29·799	−·035	29·776	29·914	8th	29·622	23rd	·292	84·1	91·2	+0·4	81·0	+0·3	86·1	+0·3	10·2	93·5	28th	77·5	6th	16·0
	Ratnagiri	207	29·629	−·034	29·775	29·738	8th	29·469	23rd	·269	83·2	89·0	−2·0	78·5	−1·2	83·8	−1·6	10·5	91·9	25th	74·7	19th	17·2
	Marmagao*	*60*	29·780	−·039	29·774	29·885	8th	29·629	23rd	·256	84·3	90·1	+0·3	79·4	−1·6	84·8	−0·7	10·7	94·4	25th	73·9	25th	20·5
	Karwar	44	29·806	−·028	29·784	29·914	8th	29·648	22nd	·266	84·2	89·0	−0·7	78·7	−1·0	83·8	−0·9	10·3	91·1	17th	75·0	25th	16·1
26	Malegaon	1,430	28·363	−·023	29·704	28·485	8th	28·231	23rd	·254	89·2	108·9	+4·4?	76·2	+1·0	92·5	+2·7?	32·7	115·6	23rd	68·5	28th	47·1
	Ahmadnagar	2,154	27·685	−·020	29·703	27·777	10th	27·568	22nd	·209	84·9	102·7	+1·6	73·7	+1·9	88·2	+1·7	29·0	109·1	23rd	67·5	8th	41·6
	Poona	1,846	28·012	−·041?	29·769	28·119	8th	27·874	23rd	·245	81·0	101·4	+1·7	73·0	+1·2	87·2	+1·5	28·4	107·2	23rd	68·9	6th	38·3
	Sholapur*	1,590	28·275	−·027	29·710	28·311	8th	28·093	22nd	·218	84·7	104·2	−0·6	77·4	+0·7	90·8	+0·1	26·8	108·3	21st	66·1	18th	42·2
	Bijapur	*1,948*	27·874	−·032	29·708	27·965	8th	27·746	22nd	·219	82·6	100·9	−0·4	75·3	+0·9	88·1	+0·3	25·6	105·0	23rd	69·3	27th	35·7
	Belgaum	2,562	27·317	−·023	29·762	27·414	8th	27·199	22nd	·215	75·8	94·8	+1·7	68·1	0	81·4	+0·9	26·7	101·3	12th	62·5	8th	38·8
	XI.—Central India.																						
20	Neemuch	1,626	28·147	−·003	29·670	28·294	2nd	28·012	23rd	·282	88·9	105·4	+1·6	78·4	+1·0	91·9	+1·3	27·0	112·9	24th	66·6	4th	46·3
	Indore	1,823	27·965	−·012	29·670	28·088	2nd	27·821	23rd	·267	89·2	105·7	+2·8	77·3	+1·1	91·5	+1·9	28·4	114·0	24th	68·1	3rd	45·9
21	Nowgong	754	28·957	+·014	29·649	29·094	11th	28·808	21st	·286	90·2	108·2	+0·9	78·9	−1·0	93·5	−0·1	29·3	115·9	22nd	56·0	3rd & 4th	49·9
	Satna	1,041	28·668	+·019	29·633	28·813	2nd	28·520	22nd	·293	91·7	106·2	+0·6	79·6	−0·1	92·9	+0·3	26·6	113·8	24th	71·0	3rd & 5th.	42·8
	XII.—Central Provinces.																						
22	Buldana	2,134									86·3	103·1	+1·6	79·4	+1·7	91·3	+1·7	23·7	109·9	2nd	73·1	8th	36·8
	Akola	925	28·629	−·021	29·676	28·953	10th	28·677	22nd	·276	91·5	110·1	+2·0	81·4	+0·2	95·7	+1·1	28·7	117·2	22nd	70·3	3rd	46·9
	Amraoti	1,215	28·541	−·010	29·663	28·662	10th	28·403	22nd	·259	92·6	108·9	+1·1	83·4	+3·2?	96·1	+2·1?	25·5	115·0	21st	71·3	29th	43·7
23	Khandwa	1,044	28·709	−·026	29·680	28·826	10th	28·551	22nd	·275	88·2	108·7	+1·9	81·9	+0·7	95·3	+1·3	26·8	116·8	24th	69·3	30th	47·5
	Hoshangabad	1,006	28·747	−·001	29·670	28·878	10th	28·601	22nd & 23rd.	·277	92·6	108·4	+1·0	81·2	+0·8	94·8	+0·9	27·2	115·5	22nd	70·4	29th	45·1
	Saugor	1,807	27·949	−·004	29·634	28·077	10th	27·815	23rd	·262	90·4	105·8	+0·8	80·8	+1·8	93·3	+1·3	24·9	113·4	23rd	71·1	4th	42·3
	Jubbulpore	1,327	28·396	−·004	29·630	28·538	10th	28·250	22nd	·288	89·9	106·3	+0·6	78·6	−0·1	92·4	+0·3	27·7	112·8	23rd	69·3	3rd	43·5
	Seoni	2,033	27·744	+·008	29·636	27·864	10th	27·637	22nd	·227	90·5	103·1	−0·8	75·9	−0·8	89·5	−0·8	27·2	109·7	22nd	65·5	7th	44·2
	Nagpur	1,017	28·725	+·006	29·659	28·856	10th	28·611	21st & 22nd.	·245	92·1	108·7	−0·5	81·9	−0·1	95·3	−0·3	26·8	113·6	18th & 22nd.	72·8	7th	40·8
24	Pendra	2,940	27·727	+·017	29·631	27·866	10th	27·597	22nd	·269	89·8	104·0	+1·7	78·9	+0·4	91·4	+1·1	25·1	110·8	23rd	70·2	5th	40·6

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B—*continued.*

stations in India, etc., in May, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																X.—Bombay.
0	3	5	1	2	1	7	5	7	N 65° W	S 83° W	8·1	9·8	−1·7	33	−32	44	−13	·589	−·095	1·5	−0·5	1	0·4	+0·6	0·20	0·19	+ 0·01	0·20	0·19	+ 0·01	0·20	Deesa.
2	2	0	0	0	0	0	27	0	N 86° W	S 77° W	8·1	12·7	−4·6	89	+ 6	57	− 9	·687	−·114	1·5	+0·3	0	0·2	−0·2	0	0·07	− 0·07	0	0·07	− 0·07	0	Bhuj.
0	2	0	0	0	1	6	16	6	N 88° W		11·9			79		72	+6?	·891	+·084?	2·4	+1·2	0	0·1	−0·1	0	0·02	− 0·02	0	0·02	− 0·02	0	Jamnagar.
2	2	0	0	0	0	8	12	7	N 87° W		10·4			76		79	− 2	·894	−·031	3·5	+1·2	0	0	0	0	0·01	− 0·01	0	0·01	− 0·01	0	Dwarka.
0	2	0	0	0	0	10	11	8	N 89° W	N 89° W	11·1	10·5	+0·6	79	− 3	56	−12	·674	−·126	2·5	+1·0	0	0·4	−0·4	0	0·17	− 0·17	0	0·17	− 0·17	0	Rajkot.
0	4	0	0	0	1	3	13	10	N 70° W	N 89° W	8·4	6·9	+1·5	76	0	79	− 3	·867	−·037	2·0	−1·3?	0	0·1	−0·1	0	0·05	− 0·05	0	0·05	− 0·05	0	Veraval.
0	3	0	0	1	0	7	3	17	N 64° W	S 62° W	5·8	10·3	−4·5	69	−12	69	+ 7?	·887	+·108?	2·5	+0·7	0	0·4	−0·4	0·05	0·15	− 0·10	0·05	0·15	− 0·10	0·05	Bhavnagar Para.
5	4	1	0	1	8	7	3	2	S 47° W	S 54° W	4·8	8·1	−3·3	33	−35	63	− 4	·791	−·045	3·6	+0·7	1	0·2	+0·8	0·91	0·10	+ 0·81	0·91	0·10	+ 0·81	0·89	Surat.
5	2	2	0	0	1	7	1	12	N 64° W	S 81° W	4·2	5·1	−0·9	49	−14	48	−10	·633	−·100	1·4	−0·8	0	0·2	−0·2	0·04	0·08	− 0·04	0·04	0·08	− 0·04	0·04	Ahmadabad.
0	3	2	2	4	4	4	4	8	N 86° W	N 81° W	6·4	7·4	−1·0	20	−27	76	+ 2	·891	+·012	5·5	+1·5	0	0·7	−0·7	0·07	0·71	− 0·64	0·07	0·71	− 0·64	0·06	Bombay.
1	10	2	1	2	5	3	0	7	N 23° W	N 48° W	8·3	7·1	+1·2	27	−30	74	+ 5	·837	−·002	3·7	+0·2	6	1·3	+4·7	3·49	1·17	+ 2·32	3·99	1·17	+ 2·32	1·58	Ratnagiri.
0	6	4	2	1	6	2	1	8	N 22° W	N 28° W	7·2	8·0	−0·8	23	−39	78	+ 2	·914	+·006	7·0	+2·2	4	2·3	+1·7	1·27	1·78	− 0·51	1·27	1·78	− 0·51	0·60	Marmagao.
19	5	0	0	0	0	3	0	4	N 41° W	N 30° W	2·4	4·2	−1·8	27	−26	81	+ 4	·886	+·028	4·1	+0·2	7	3·1	+3·9	3·03	2·68	+ 0·35	3·03	2·68	+ 0·35	0·88	Karwar.
5	2	1	0	0	1	8	5	9	N 81° W	N 79° W	6·4	9·7	−3·3	53	−27	41	− 8	·530	−·086	3·2	+1·7	6	1·1	+4·9	3·34	0·86	+ 2·48	3·34	0·86	+ 2·48	1·68	Malegaon.
0	5	0	0	1	1	1	11	12	N 60° W	N 34° W	5·8	10·9	−5·1	69	+ 1	40	−13?	·459	−·150?	3·3	+1·7	4	1·4	+2·6	1·86	0·69	+ 1·17	1·86	0·69	+ 1·17	0·88	Ahmadnagar.
0	0	0	0	0	0	22	9	0	S 58° W	N 80° W	6·3	11·2	−4·9	92	+ 9	61	+ 7	·640	+·092	0·9	−1·4?	5	1·5	+3·5	2·15	1·18	+ 0·97	2·15	1·18	+ 0·97	0·71	Poona.
4	3	1	2	1	2	4	2	11	N 57° W	N 55° W	7·5*	8·2	−0·7	37	−39	50	+ 5	·579	+·046	4·2	+1·3	3	2·1	+0·9	2·57	0·94	+ 1·63	2·57	0·94	+ 1·63	1·26	Sholapur.
2	4	0	0	0	2	6	10	7	N 82° W	N 81° W	5·2	6·1	−0·9	62	−15	51	−10	·562	−·098	3·1	+0·4	4	2·5	+1·5	1·27	1·09	+ 0·18	1·27	1·09	+ 0·18	0·81	Bijapur.
21	0	1	1	1	2	2	2	1	S 33° W	N 67° W	7·1	12·8	−5·7	13	−41	74	+ 5	·668	+·048	4·4	+0·7	5	4·5	+0·5	5·71	2·45	+ 3·26	5·71	2·45	+ 3·26	1·85	Belgaum.
																																XI.—Central India
1	4	4	8	0	3	2	8	1	N 13° E	S 84° W	7·0	8·8	−1·8	10	−59	39	−10	·504	−·116	1·1	+0·2	1	0·8	+0·2	0·19	0·38	− 0·19	0·19	0·38	− 0·19	0·18	Neemuch.
3	5	6	1	0	0	0	8	8	N 30° W	N 71° W	5·5	4·6	+0·9	56	−19	43	− 8	·571	−·058	2·2	+0·8	2	1·1	+0·9	0·78	0·47	+ 0·31	0·78	0·47	+ 0·31	0·56	Indore.
9	2	1	2	0	1	2	13	1	N 85° W	N 82° W	2·4	2·7	−0·3	40	−14	27	− 8	·379	−·113	1·8	−0·7	0	0·7	−0·7	0·08	0·29	− 0·21	0·08	0·29	− 0·21	0·08	Nowgong.
2	7	0	2	2	6	7	2	3	S 60° W	N 73° W	4·1	5·9	−1·8	23	−21	33	+ 3?	·475	+·040	1·7	−0·3	0	1·2	−1·2	0·09	0·37	− 0·28	0·09	0·37	− 0·28	0·07	Sutna.
																																XII.—Central Provinces.
0	0	0	0	1	0	1	15	14	N 70° W		7·6	8·9	−1·3	34		42		·508		2·5		2	1·1	+0·9	0·82	0·52	+ 0·30	0·82	0·52	+ 0·30	0·66	Buldana.
1	0	1	0	1	0	4	11	13	N 74° W	N 68° W	5·5	7·0	−1·5	72	−14	33	− 6	·468	−·064	4·4	+2·6	2	0·8	+1·2	0·71	0·37	+ 0·34	0·71	0·37	+ 0·34	0·54	Akola.
6	1	3	0	2	1	7	5	6	W	N 77° W	5·1	5·0	+0·1	34	−34	28	−12	·408	−·159	2·0	+0·2	1	1·4	−0·4	1·02	0·54	+ 0·48	1·02	0·54	+ 0·48	1·00	Amraoti.
16	0	0	0	0	0	0	6	9	N 63° W	N 70° W	7·2	7·5	−0·3	43	−43	35	− 7	·457	−·086	1·5	+0·3	1	0·8	+0·2	1·23	0·33	+ 0·90	1·23	0·33	+ 0·90	1·23	Khandwa.
6	0	8	0	2	0	13	0	2	S 45° W	S 66° W	2·4	3·0	−0·6	13	−49	30	− 9	·423	−·119	2·4	+1·2	2	1·1	+0·9	1·27	0·53	+ 0·74	1·27	0·53	+ 0·74	0·94	Hoshangabad.
0	2	8	5	8	1	1	10	3	N 19° W	S 88° W	6·1	3·9	+2·2	17	−33	23	−10	·308	−·149	1·6	+0·2	0	0·9	−0·9	0·09	0·46	− 0·37	0·09	0·46	− 0·37	0·09	Saugor.
2	2	3	2	4	5	7	4	2	S 25° W	S 78° W	2·4	3·1	−0·7	27	−27	29	− 3	·406	−·040	1·2	−0·1	1	1·2	−0·2	0·50	0·49	+ 0·01	0·50	0·49	+ 0·01	0·50	Jubbulpore.
1	7	1	2	3	6	4	4	3	S 75° W	N 29° W	4·5	3·4	+1·1	13	−25	27	− 6	·361	−·089	2·5	+0·6	1	1·9	−0·9	0·74	0·69	+ 0·05	0·74	0·69	+ 0·05	0·59	Seoni.
0	7	1	2	7	3	2	5	4	N 52° W	N 48° W	4·7	5·8	−1·1	7	−40	33	+ 1	·477	−·005	2·9	+0·6	3	1·8	+1·2	1·37	0·75	+ 0·62	1·37	0·75	+ 0·62	0·80	Nagpur.
2	2	1	0	5	11	6	1	3	S 12° W		5·0			46		30	− 1	·410	+·001	2·3	+0·4	1	1·3	−0·3	0·28	0·91	− 0·63	0·28	0·91	− 0·63	0·18	Pendra.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	XII.—Central Provinces—*concld.*																						
	Raipur	970	28·750	−·002	29·639	28·918	10th	28·643	22nd	·275	91·7*	103·4*	+1·2*	82·9*	+2·1*	96·2*	+1·7*	24·5	113·7	27th	75·6	5th	38·1
	Chanda	*624*	29·105	−·017	29·667	29·228	10th	29·011	21st	·217	92·4	109·2	−0·5	82·3	+1·2	95·2	+0·3	25·9	114·1	18th	73·8	20th	40·3
	Jagdalpur	1,813	27·976		29·681	28·108	10th	27·878	31st	·230	84·1	101·0		74·4†		87·7†		26·6	105·4	18th	67·1	10th	38·3
	XIII.—Hyderabad.																						
27	Aurangabad	1,905	27·920	−·023	29·702	28·021	8th	27·794	22nd	·227	87·8	103·9	−0·3	77·1	+1·9	90·5	+0·8	26·8	110·2	23rd	70·7	8th	39·5
	Nizamabad	1,248	28·530	P	29·683	28·627	10th	28·427	21st	·200	90·3	107·0	+0·8	81·7	+0·5	94·3	+0·7	25·3	111·2	22nd	71·9	5th	39·3
	Bidar	*2,165*									86·5	101·9	+1·6	78·2	+0·9	90·0	+1·3	23·7	106·4	21st	72·4	5th	34·0
28	Gulbarga	1,503	28·292	−·029	29·704	28·378	8th	28·192	22nd	·186	83·7	105·7	+1·0	78·1	−0·4	91·9	+0·3	27·6	111·2	4th	72·8	31st	38·4
	Raichur	*1,811*	28·497	−·006	29·722	28·587	8th	28·358	22nd	·229	85·6	103·0	−0·5	79·6	+0·2	91·3	−0·1	23·4	106·8	3rd	73·0	27th & 29th.	33·8
	Hyderabad (Deccan)	1,719	28·061	−·010	29·689	28·149	11th	27·963	22nd	·186	85·5	102·8	−0·7	79·8	−0·6	91·3	−0·7	23·0	107·3	27th	71·2	5th	36·1
	Hanamkonda	877	28·900	+·007	29·703	29·019	10th	28·793	22nd	·226	87·7	105·4	+0·4	81·7	−0·7	93·5	−0·1	23·7	109·0	18th & 27th.	76·0	29th	33·0
	XIV.—Mysore.																						
21	Chitaldrug	2,405	27·459	−·024	29·741	27·555	7th	27·329	22nd	·226	77·9	95·9	+1·6	72·4	+0·9	84·2	+1·3	23·5	101·0	1st & 2nd	67·1	28th	33·9
	Hassan	3,149	26·773	−·019	29·761	26·863	7th	26·648	22nd	·215	73·5	89·6	+0·9	67·8	+0·9	78·7	+0·9	21·8	97·7	3rd	63·1	5th	34·6
	Bangalore	3,021	26·887	−·026	29·742	26·973	7th & 8th.	26·767	22nd	·206	75·6	91·9	+0·3	69·2	0	80·5	+0·1	22·7	98·0	3rd	65·6	5th	32·4
	Mysore	2,518	27·366	−·036	29·760	27·463	7th	27·262	23rd	·201	76·3	91·5	−0·2	69·4	−0·3	80·5	−0·3	22·1	97·3	4th	62·9	17th	34·4
	XV.—Madras.																						
30	Mangalore	72	29·783	−·043	29·786	29·895	8th	29·634	22nd	·261	83·3	90·5	−1·3	78·1	−0·5	84·3	−0·9	12·4	94·1	5th	70·0	18th	24·1
	Calicut	27	29·816	−·042	29·772	29·918	8th	29·671	22nd	·247	82·4	89·4	−0·8	78·3	+0·2	83·8	−0·3	11·1	93·4	3rd	73·1	28th	20·3
	Cochin	9	29·845	−·040	29·782	29·933	7th	29·709	22nd	·224	83·0	90·1	+0·4	78·0	+0·5	84·0	+0·5	12·1	92·9	12th	72·7	1st	20·2
	Trivandrum	198	29·649	−·040	29·777	29·753	7th	29·505	22nd	·248	82·3	88·9	+2·5	77·7	−0·4	83·3	+1·1	11·2	92·0	14th	75·0	14th	17·0
31	Pamban	37	29·776	−·030	29·740	29·894	7th	29·678	22nd	·216	85·1	92·1	+0·7	81·9	+0·7	87·0	+0·7	10·2	94·2	18th	79·5	20th & 23rd.	14·7
	Madura	447	29·366	−·026	29·739	29·482	7th	29·264	22nd	·218	85·2	98·3	−1·7	78·5	+0·9	88·4	−0·4	19·8	103·6	5th	69·9	5th	33·7
	Pudukkottai	318	29·604	−·021	29·750	29·801	7th	29·408	22nd	·193	85·6	100·4	−0·9	78·9	−0·3	89·7	−0·6	21·5	107·0	18th	70·9	30th	36·1
	Negapatam	31	29·780	−·017	29·740	29·890	7th	29·684	22nd	·206	86·5	95·7	−1·9	80·8	+0·6	88·2	−0·7	14·9	103·1	19th	78·7	20th	24·4
	Trichinopoly	255	29·565	−·016	29·749	29·679	7th	29·470	22nd	·209	87·1	103·3	+1·6	79·9	+1·2	91·6	+1·4	23·4	108·5	17th	73·3	30th	35·2
	Coimbatore	1,341	28·503	−·014	29·764	28·606	7th	28·397	22nd	·209	80·4	95·7	+0·9	73·7	+0·2	84·6	+0·5	22·0	99·9	1st	68·1	9th	31·8
	Salem	913	28·919	−·010	29·754	29·012	7th	28·812	22nd	·200	83·8	101·1	+1·6	77·1	+0·9	89·1	+1·3	24·0	106·4	17th	66·4	8th	40·0
	Cuddalore	37	29·770	−·009	29·737	29·867	7th	29·671	22nd	·196	86·9	96·3	−2·4	80·6	+0·5	88·5	−0·9	15·7	103·3	13th	73·9	30th	29·4
	Vellore	707	29·102	−·018	29·734	29·203	10th	29·004	22nd	·199	86·0	102·9	+3·1†	78·0	−0·5	90·4	+1·3†	24·9	107·7	18th	73·5	11th	34·2
	Madras	22	29·775	−·010	29·726	29·883	10th	29·685	22nd	·198	87·9	96·7	−1·3	81·1	−0·1	88·9	−0·9	15·6	103·5	5th	77·1	12th	26·4
32	Cuddapah	428	29·262	−·028	29·718	29·457	7th	29·242	22nd	·215	89·4	107·2	+0·9	83·7	+0·3	95·4	+0·6	23·5	110·6	9th	75·9	31st	34·7

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.
† " " 30 "

B—*continued.*

stations in India, etc., in May, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																XII.—Central Provinces—*concld.*
0	2	2	4	2	5	8	6	2	S 41° W	S 76° W	5·6	5·8	−0·2	30	−13	33*	− 2	·495*	−·010	1·7	−1·1	1	2·1	−1·1	0·12	0·92	−0·79	0·13	0·92	−0·79	0·12	Raipur.
0	0	3	4	7	5	8	3	1	S 7° E	S 84° W	4·5	3·5	+1·0	43	+20	38	+ 1	·564	+·009	4·1	+1·9	4	1·6	+2·4	1·00	0·65	+0·35	1·00	0·65	+0·35	0·36	Chanda.
2	0	1	0	0	10	8	8	2	S 47° W		4·6			62		55		·633		3·2		6			1·68			1·68			0·46	Jagdalpur.
																																XIII.—Hyderabad.
0	0	1	0	1	0	5	11	7	N 68° W		8·9			62		38	− 3	·485	−·005	3·2	+2·0	4	1·4	+2·6	1·70	0·65	+1·05	1·70	0·65	+1·05	0·73	Aurangabad.
2	1	1	1	3	3	12	6	2	S 49° W		4·2			53		39	−10	·542	−·115	3·9	+1·4	5	0·9	+4·1	1·83	0·31	+1·52	1·83	0·31	+1·52	0·83	Nizamabad.
2	1	1	0	1	1	11	6	4	S 70° W		7·2			65		46	− 8	·572	−·079	1·8	0	2	2·1	−0·1	0·31	0·80	−0·49	0·31	0·80	−0·49	0·16	Bidar.
2	0	2	1	1	3	5	10	7	S 87° W	N 44° W	5·6	9·1	−3·5	49	−12	52	− 4	·594	−·080	2·6	−0·1	6	2·2	+3·8	1·13	1·01	+0·12	1·13	1·01	+0·12	0·30	Gulbarga.
0	2	1	1	12	2	4	6	4	S 66° W	N 83° W	7·4	8·4	−1·0	46	−23	67	+11	·815	+·172	2·6	−0·3	6	1·2	+4·8	1·46	0·64	+0·82	1·46	0·64	+0·82	0·58	Raichur.
2	0	3	1	2	2	1	9	3	S 67° W	S 82° W	4·8	4·7	+0·1	46	−14	64	+16	·770	+·176	4·3	+1·6	1	1·7	−0·7	0·39	0·79	−0·40	0·39	0·79	−0·40	0·22	Hyderabad (Deccan).
3	2	0	1	2	12	1	0	1	S 26° E		4·0			66		53	+ 5	·688	+·062	3·9	+0·6	2	1·5	+0·5	0·15	0·52	−0·07	0·45	0·52	−0·07	0·20	Hanamkonda.
																																XIV.—Mysore.
1	0	0	0	1	9	12	15	2	S 73° W	S 81° W	5·6	6·6	−1·6	82	− 1	73	+ 2	·691	+·023	4·5	−0·4	7	4·5	+2·5	6·23	3·05	+3·18	6·23	3·05	+3·18	2·76	Chitaldrug.
12	0	0	1	1	0	3	9	5	N 86° W	N 80° W	4·7	2·9	+1·8	42	−36	79	+ 4	·658	+·011	4·6	−0·8	12	7·3	+4·7	7·41	5·24	+2·17	7·41	5·24	+2·17	2·00	Hassan.
0	0	0	1	2	2	6	15	5	S 79° W	S 75° W	5·4	4·6	+0·8	66	−17	77	+ 2	·677	+·013	4·9	+0·6	10	6·8	+3·2	6·85	4·34	+2·51	6·85	4·34	+2·51	1·52	Bangalore.
3	1	1	0	0	3	11	10	2	S 68° W	S 74° W	4·2	7·4	−3·2	66	−10	78	+ 2	·704	+·020	5·9	0	12	7·8	+4·2	8·26	5·06	+3·20	8·26	5·06	+3·20	1·96	Mysore.
																																XV.—Madras.
0	8	3	5	5	4	0	1	5	N 45° E	N 18° E	5·7	2·8	+2·9	27	+ 2	74	+ 1	·881	−·028	5·8	−0·8	9	6·4	+2·6	5·07	6·26	−1·19	5·07	6·26	−1·19	2·22	Mangalore.
5	3	1	2	2	2	1	1	14	N 38° W	N 15° W	5·5	8·2	−2·7	37	− 3	84	+ 5	·927	+·040	6·0	+0·5	10	8·3	+1·7	10·00	7·79	+2·21	10·00	7·79	+2·21	2·53	Calicut.
1	0	9	12	6	1	0	2	0	N 87° E	N 29° E	5·3	4·5	+0·8	69	+22	79	− 2	·889	−·007	5·4	−0·4	9	12·1	−3·1	12·33	11·39	+0·94	12·33	11·39	+0·94	3·10	Cochin.
1	8	3	0	2	0	0	1	16	N 24° W	N 16° W	4·9	5·2	−0·3	72	+ 4	77	− 4	·841	−·028	7·1	+1·0	7	10·1	−3·1	6·04	8·67	−2·63	6·04	8·67	−2·63	1·82	Trivandrum.
3	2	0	0	5	4	6	1	0	S 5° W	S 29° W	7·1	8·5	−1·4	66	− 7	77	− 2	·918	−·047	3·4	+0·3	4	1·5	+2·5	2·10	0·80	+1·30	2·10	0·80	+1·30	1·40	Pamban.
2	4	5	3	0	1	1	6	9	N 28° W	N 38° W	3·8	4·5	−0·7	46	−11	70	+ 3	·850	+·033	6·3	+2·0	5	4·7	+0·3	3·27	2·87	+0·40	3·27	2·87	+0·40	1·92	Madura.
7	4	0	0	0	1	5	6	8	N 72° W		3·9			52		67	− 2	·820	−·019	4·2	−1·1	5	3·4	+1·6	4·11	2·26	+1·85	4·11	2·26	+1·85	1·75	Pudukkottai.
1	0	0	1	8	1	12	6	2	S 34° W	S 46° W	6·9	5·8	+1·1	56	−16	75	+ 7	·941	+·063	5·4	+1·3	1	2·0	−1·0	0·36	1·81	−1·45	0·36	1·81	−1·45	0·30	Negapatam.
0	0	1	1	2	4	7	13	2	S 65° W	S 76° W	4·4	4·5	−0·1	62	−13	61	− 5	·762	−·021	3·8	−0·5	2	4·3	−2·3	0·47	3·24	−2·77	0·47	3·24	−2·77	0·31	Trichinopoly.
17	1	3	0	0	4	8	0	0	S 23° W	S 22° W	2·4	3·3	−0·9	20	−48	76	− 5	·793	−·035	3·2	−1·1	9	4·9	+4·1	3·28	2·47	+0·81	3·28	2·47	+0·81	0·94	Coimbatore.
13	0	0	0	0	9	0	9	0	S 45° W	S 48° W	3·9	3·0	+0·9	43	− 7	72	− 1	·840	−·004	4·2	+0·2	6	7·7	−1·7	4·62	4·90	−0·28	4·62	4·90	−0·28	1·41	Salem.
1	0	1	1	1	10	15	1	1	S 27° W	S 47° W	4·9	2·1	+2·8	72	+ 4	68	− 3	·868	−·044	4·7	+1·4	1	1·1	−0·1	0·80	0·74	+0·06	0·80	0·74	+0·06	0·71	Cuddalore.
13	0	0	1	4	0	0	9	4	W		3·0			26		67	+ 2	·833	+·038	2·2	−0·8	3	4·2	−1·2	1·20	2·76	−1·56	1·20	2·76	−1·56	0·65	Vellore.
1	0	0	0	2	15	12	0	2	S 20° W	S 41° W	5·5	6·6	−1·1	79	+ 7	60	+ 4	·901	+·039	3·4	−0·9	0	1·1	−1·1	0·03	1·08	−1·05	0·03	1·08	−1·05	0·02	Madras.
0	2	0	1	6	3	3	6	10	S 88° W	N 89° W				32	−29	58	− 29	·795	−·054?	3·1	−0·7	5	2·8	+2·2	1·74	1·58	+0·16	1·74	1·58	+0·16	0·74	Cuddapah.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean of 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	XV.—Madras—*concld.*																						
	Bellary	1,475	28·333	−·034	29·714	28·439	7th	28·203	22nd	·236	85·5	102·4	−0·1	77·4	−0·2	89·9	−0·1	25·0	107·3	3rd	69·7	15th	37·6
	Kurnool	923	28·885	−·005	29·728	28·970	8th	28·764	22nd	·206	87·1†	104·1*	−1·0*	81·4	+0·4	92·5*	−0·3	22·7	107·6	10th	73·6	16th	34·0
33	Nellore	66	29·713	−·005	29·714	29·838	10th	29·620	22nd	·218	87·3	102·6	−2·6?	79·8	−1·8	91·2	−2·2?	22·8	106·6	5th & 19th	74·3	21st	32·3
	Masulipatam	15	29·774	+·005	29·724	29·891	10th	29·672	29th	·219	88·3	98·0	−1·9	81·6	−0·1	89·8	−1·0	16·4	107·4	29th	78·3	31st	29·1
	Cocanada	26	29·774	+·017	29·737	29·894	10th	29·682	29th	·212	86·9	98·8	−1·1	81·0	−1·2	89·9	−1·2	17·8	105·8	28th	74·1	6th	31·7
	Waltair (Vizagapatam)	*996*	29·559	+·019	29·723	29·710	10th	29·480	29th	·230	86·2	93·7	+1·8	81·1	+0·2	87·4	+1·0	12·6	96·8	3rd	78·2	12th	18·6
	Calingapatam	19	29·754		29·710	29·842	10th	29·672	29th	·270	87·0	95·7		80·9		88·3		14·8	99·5	4th	73·4	10th	26·1
	Gopalpur	23	29·719	+·016	29·692	29.906	10th	29·634	28th	·272	84·2	90·3	+0·3	81·0	+0·9	85·6	+0·6	9·3	94·0	7th	78·5	12th	15·5
	Bay Islands.																						
1	P. V. Fraser	8	29·748		29·705	29·867	10th	29·667	15th	·200	84·8												
	Port Blair	58	29·775	−·028	29·763	29·894	10th	29·654	3rd	·240	82·0	88·0	−0·7	78·0	−0·5	83·0	−0·6	10·0	91·8	10th	74·5	2nd	17·3
	Kashmir.																						
13	Muzaffarabad		27·419			27·542	8th	27·239	29th	·303	70·0	87·1		61·5		74·3		25·6	99·8	30th	51·1	2nd	48·7
	Srinagar	5,204	24·854	+·001	24·825	24·966	5th	24·733	22nd	·233	59·0	73·7	−2·0	49·5	−2·3	61·6	−2·1	24·2	84·2	29th	38·7	4th	45·5
	Dras	*10,059*	20·815	−·007	20·783	20·893	13th	20·735	22nd	·158	42·9	55·8	−4·6	34·0	+0·9	44·9	−1·9	21·8	65·1	29th	13·7	15th	51·4
	Leh	*11,503*	19·729	−·019	19·697	19·815	13th	19·641	3rd	·174	46·3	61·8	−1·8	35·2	−1·5	48·5	−1·7	26·6	69·5	23rd & 31st.	24·2	4th	45·3
	Skardu	*7,505*	22·864	−·001	22·834	22·982	18th	22·725	31st.	·257	56·7	69·5	−1·8	47·8	−1·5	58·7	−1·7	21·7	80·0	31st	33·0	4th	47·0
	Gilgit	4,890	25·135	+·032	25·108	25·282	2nd	25·026	29th	·256	65·0	77·7	−5·8	55·6	−4·7	66·6	−5·1	22·1	91·2	31st	46·7	2nd	44·5
	Baluchistan.																						
15	Fort Sandeman	4,614	25·336		25·305	25·435	17th	25·228	7th	·207	69·6	89·0		60·8		74·9		28·2	99·9	29th	50·3	1st	49·6
	Quetta	5,502	24·600	−·002	24·569	24·727	2nd	24·469	29th	·258	61·4	80·8	−2·6	49·2	−2·7	65·0	−2·7	31·6	92·1	31st	36·7	1st	55·4
	Chaman	4,311	25·618	−·022	25·580	25·764	2nd	25·492	30th	·272	72·3	86·6	−4·3	61·2	−2·8	73·9	−3·5	25·4	99·2	31st	47·7	1st	51·5
	Kalat	6,630	23·731		23·693	23·835	2nd	23·654	29th	·181	58·4	78·1	−5·5	47·4	+4·8	62·8	−0·3	30·7	89·7	31st	35·2	2nd	54·5
	Dalbandin	2,772	27·039		27·002	27·221	2nd	26·880	30th	·341	74·5	97·9		62·4		80·1		35·5	109·4	31st	47·8	1st	61·6
	Pasni		29·748		29·708	29·952	1st	29·603	31st	·349	80·1	96·4		70·4		83·4		26·0	105·7	4th	62·0	3rd	43·7
	Panjgur		26·662		26·620	26·818	2nd	26·531	30th	·287	70·5	96·0		65·8		80·9		30·2	107·0	31st	49·4	1st	57·6
	Robat		26·908		26·866	27·115	2nd	26·773	29th	·342	76·3	96·6		71·7†		84·7†		24·9	105·2	26th	62·8	20th	41·4
	Seistan (c)		28·073			28·330	2nd	27·890	29th & 30th.	·440	·745	91·6		67·7		79·7		23·9	100·9	28th	56·3	1st	44·6
	Hill stations, excluding Kashmir and Baluchistan.																						
	Para Chinar	6,000	24·403	+·028	24·379	24·491	5th	24·291	29th	·200	62·7	74·2	−4·8	50·9	−4·8	62·5	−4·8	23·3	85·4	30th	40·5	1st	44·9
	Cherat	*4,956*	25·638	+·031	25·608	25·746	2nd	25·506	29th	·240	67·5	79·1	−8·0	58·8	−7·3	69·5	−7·7	19·3	93·4	29th	42·2	22nd	51·1
	Drosh (c)		25·076			25·200	1st & 2nd.	24·950	28th	·250	58·7	71·7	−10·0	53·4	−5·2	62·6	−7·6	18·3	87·7	30th	38·4	1st	49·3
	Murree	6,332	23·806	+·005	23·774	23·903	5th	23·716	22nd	·187	62·0	71·3	−4·2	56·5	−2·4	63·9	−3·6	14·8	83·5	28th	45·9	11th	37·6

N.B.—Elevations in italics indicate barometrical determinations.

(c) Aneroid.

* Mean of 23 days.

† " " 25 "

NOTE.—The barometric readings are not reduced to sea-level, in the case

B—*continued.*

stations in India, etc., in May, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month	Departure from normal.	Total rainfall from 1st to 31st May 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																XV.—Madras—*concld.*
10	2	1	2	2	1	1	6	6	N 61° W	N 74° W	4·6	6·2	−1·6	27	−38	62	+ 9	·758	+·138	3·9	−0·4	6	3·3	+2·7	2·92	2·04	+0·88	2·92	2·04	+0·88	1·53	Bellary
1	0	0	0	1	1	10	7	11	S 87° W	N 84° W	5·4*			69	+33	60†	+ 4	·756†	+·044	3·3	−0·1	4	2·2	+1·8	1·02	0·95	+0·07	1·02	0·95	+0·07	0·46	Kurnool
3	1	1	0	1	16	6	1	2	S 17° W	S 69° W	4·8	6·4	−1·6	62	+30	70	+ 7	·893	+·031	4·2	−0·6	2	1·0	+1·0	1·48	0·69	+0·79	1·48	0·69	+0·79	1·07	Nellore.
2	0	0	0	5	10	8	4	2	S 23° W	S 36° W	7·1	6·5	+0·6	66	+25	70	− 8?	·929	−·136?	3·3	−1·6	2	1·8	+0·2	0·21	1·14	−0·93	0·21	1·14	−0·93	0·11	Masulipatam.
4	1	0	0	4	2	11	7	2	S 52° W	S 56° W	6·3	5·9	+0·4	56	+ 2	77	+ 4	·976	+·018	5·2	+0·5	5	2·4	+2·6	1·98	1·16	+0·82	1·98	1·16	+0·82	0·79	Cocanada
2	0	1	0	0	5	15	8	0	S 50° W	S 72° W	6·6			76	− 7	72	− 1	·900	+·007	3·5	−2·3?	1	3·0	−2·0	0·18	2·31	−2·13	0·18	2·31	−2·13	0·13	Waltair (Vizagapatam).
8	1	0	0	0	5	10	7	0	S 52° W		9·4*			55		72		·926		2·2		1	3·3	−2·3	0·21	2·03	−1·82	0·21	2·03	−1·82	0·12	Calingapatam.
2	1	1	1	0	12	13	1	0	S 23° W	S 30° W	12·5	12·8	−0·3	69	+ 1	31	− 1	·945	−·023	1·9	0	1	3·1	−2·1	0·83	1·94	−1·11	0·83	1·94	−1·11	0·82	Gopalpur.
																																Bay Islands.
0	0	0	2	1	10	15	1	2	S 27° W					71		83		·998		3·8		2			0·86			0·86			0·65	P. V. Fraser.
7	4	0	0	2	7	3	1	7	S 76° W	S 73° W	5·8	5·4	+0·4	23	−38	84	− 2	·912	−·041	6·4	−0·7	15	16·4	−1·4	19·19	16·90	+2·29	19·19	16·90	+2·29	4·70	Port Blair.
																																Kashmir.
14	1	1	0	1	6	6	1	1	S 29° W		1·6			32		51		·361		3·1		4			2·24			2·24			1·09	Muzaffarabad.
12	4	1	0	8	2	1	1	2	S 55° E	S 49° E	3·2	3·1	+0·1	10	−26	71	−12	·351	−·085	3·5	0	4	5·7	−1·7	1·37	2·63	−1·26	1·37	2·63	−1·26	0·52	Srinagar.
21	0	0	0	1	0	1	7	1	S 85° W		4·3			27		64§	− 9	·184§	−·036	3·9	+0·1	7	5·9	+1·1	1·66	3·09	−1·43	1·66	3·09	−1·43	0·42	Dras.
14	0	0	2	3	8	4	0	0	S 5° E	S 44° W	3·7	2·3	+1·4	43	− 2	38‡	− 3	·121‡	−·010	4·7	+0·1	1	0·7	+0·3	0·44	0·21	+0·23	0·44	0·21	+0·23	0·29	Leh.
25	0	0	2	0	0	2	2	0	S 45° W		4·0			3		47	− 8	·215	−·045	4·9	+0·4	0	2·7	−2·7	0·14	1·27	−1·13	0·14	1·27	−1·13	0·08	Skardu.
28	1	0	0	0	0	1	1	0	N 79° W		0·2			5		57	+10	·342	+·028	4·5	+0·1	4	2·7	+1·3	1·10	0·94	+0·16	1·10	0·94	+0·16	0·40	Gilgit.
																																Baluchistan.
28	0	0	0	0	0	2	1	0	S 59° W		2·3			7		38		·260		0·4		1			0·38			0·38			0·16	Fort Sandeman.
29	0	0	0	0	0	0	0	2	N 45° W	N 80° W	3·2	2·4	+0·8	3	− 1	58	+14	·317	−·007	1·8	+0·8	1	1·0	0	0·75	0·38	+0·37	0·75	0·38	+0·37	0·73	Quetta.
3	1	0	1	10	10	4	1	1	S 11° E	S 32° W	5·5	5·5	0	59	+12	31	− 4	·241	−·086	1·4	+0·6	1	0·4	+0·6	0·41	0·11	+0·30	0·41	0·11	+0·30	0·31	Chaman.
31	0	0	0	0	0	0	0	0	Calm	S 34° W	6·5			(a)		54	+10	·266	−·026	0·5		1	0·8	+0·2	0·50	0·25	+0·25	0·50	0·25	+0·25	0·50	Kalat.
10	0	6	5	4	2	1	1	2	N 89° E		5·2			29		23		·194		1·7		0			0			0			0	Dalbandin.
4	0	0	1	1	0	2	18	5	N 86° W		7·4			69		82		·831		2·6		0			0			0			0	Pasni.
18	0	7	2	0	1	1	0	1	N 59° E		4·4			27		48		·371		1·2		0			0			0			0	Panjgur.
12	0	3	2	2	1	6	5	0	S 40° W		3·4‖			23		26		·241		1·6		0			0			0			0	Robat.
5	10	0	0	0	0	0	0	16	N 28° W		8·4‖			29		56		·477		0·6		0			0			0			0	Seistan.
																																Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		0·9			(a)		49	+ 3	·275	−·035	1·9	−0·5	8	7·8	+0·2	3·38	2·76	+0·62	3·38	2·76	+0·62	1·44	Para Chinar.
2	22	1	0	0	4	0	1	0	N 1° W	N 6° W	9·0	8·8	+0·2	64	+17	42	+ 5	·266	−·031	2·5	+0·6	4	2·8	+1·2	2·12	1·74	+0·38	2·12	1·74	+0·38	0·85	Cherat.
21	0	3	3	0	0	0	1	0	N 64° E		3·1			13		82	+ 2	·301	−·065	4·4	+2·1	8	4·6	+3·4	3·09	2·38	+0·71	3·09	2·38	+0·71	0·66	Drosh.
5	8	0	1	10	3	0	0	4	N 81° E	N 7° E	5·8	5·3	0	17	− 2	39	+ 2	·202	−·067	3·4	+0·9	2	5·2	−3·2	2·67	2·95	−0·28	2·67	2·95	−0·28	2·34	Murree.

of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 29 days.
† " " 25 "
§ " " 27 "
‡ " " 28 "
‖ " " 30 "

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 213

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Hill stations, excluding Kashmir and Baluchistan —concld.																						
	Simla	7,232	22·087	+·014	23·049	23·158	1st	23·021	28th	·137	62·1	72·0*	−1·2*	57·9	−0·4	65·1*	−0·8	14·1	79·6	23rd	47·8	30th	31·8
	Sarain		23·123	−·002	23·085	23·211	5th	23·051	28th	·160	57·9	72·5	+0·4	48·6	−0·8	60·6	−0·2	23·9	80·0	24th	40·0	12th	40·0
	Kalabagh †		20·121		20·083	20·199	8th	20·064	3rd	·135	46·1	54·3		40·9		47·6		13·4	61·8	25th	31·7	12th	30·1
	Chakrata	7,072	23·374	+·064	23·324	23·473	1st	23·300	25th & 28th.	·173	67·2	78·8	+4·6	58·4	+1·6	68·6	+3·1	20·4	86·0	20th & 22nd.	47·0	10th	39·0
	Mukteswar	7,592	22·832	−·003	22·791	22·938	1st	22·758	25th	·180	64·0	74·8	−0·2	57·7	+2·3	66·2	+1·1	17·1	83·0	23rd	43·2	10th	39·8
	Darjiling	7,432	22·941	+·015	22·896	23·066	10th	22·856	24th	·210	57·9	68·8	+4·8	54·0	+1·9	61·4	+3·3	14·8	75·2	18th	47·6	7th	27·6
	Shillong	4,920	25·096	+·016	25·048	25·232	10th	24·978	24th & 25th.	·254	68·0	75·8	+1·4	59·9	+1·1	67·9	+1·3	15·9	83·8	4th	53·7	6th	30·1
	Cherrapunji	4,309	25·647	+·007	25·598	25·758	10th	25·499	6th	·259	67·8	74·8	+2·5	61·8	+1·8	68·3	+2·1	13·0	79·7	16th, 17th & 18th.	52·5	28th	27·2
	Maymyo	3,546	26·392	+·012	26·337	26·489	10th	26·284	6th	·205	73·2	84·5	+1·8	64·9	+0·7	74·7	+1·3	19·6	93·0	3rd	56·8	8th & 9th	36·2
	Pachmarhi	3,528	26·375	−·013	26·322	26·478	10th	26·265	22nd	·213	83·9	97·7	+2·1	75·2	−0·1	86·4	+1·0	22·5	105·0	22nd & 23rd.	65·6	29th	39·4
	Mount Abu	3,945	25·990	0	25·940	26·075	6th	25·890	23rd	·185	80·3	90·3	+2·1	72·5	+1·3	81·4	+1·7	17·8	97·2	24th	64·4	9th	32·8
	Mercara	3,781	26·171	−·039	26·104	26·259	7th	26·045	22nd	·214	70·6	82·2	+1·8	63·2	−1·3	72·7	+0·3	19·0	86·6	11th	60·0	13th	26·6
	Ootacamund	*7,227*	23·040	−·010	22·976	23·126	7th	22·936	22nd	·190	63·3	71·5	+1·6	52·4	−0·4	61·9	+0·6	19·1	75·1	4th	48·7	6th & 7th	26·4
	Kodaikanal	7,688	22·812	−·024	22·747	22·892	7th & 8th.	22·712	22nd	·180	60·8	70·3	+1·3	54·6	−0·3	62·5	+0·5	15·7	73·8	1st	52·0	19th	21·8
	Extra India.																						
	Singapore (a)	10	29·816	−·109	29·747	29·885	9th	29·711	29th	·174	84·4	88·8	+0·1	75·0	−0·1	81·9	0	13·8	90·5	6th & 28th	71·0	13th	19·5
	Penang (a)	17	29·812	−·098	29·752	29·882	10th	29·708	31st	·174	82·7	89·5	−1·2	74·1	−0·6	81·8	−0·9	15·4	93·0	5th	72·0	26th & 30th.	21·0
	Trincomalee	99	29·717	−·020	29·744	29·829	7th	29·616	21st	·213	80·9	95·5	+2·4	77·6	−1·1	86·6	+0·7	17·9	100·6	2nd	72·1	30th	28·5
	Colombo	24	29·829	−·048	29·779	29·937	7th	29·712	22nd	·225	77·7	87·0	−1·1	75·2	−2·9	81·1	−2·0	11·8	89·3	4th	70·2	20th	19·1
	Hambantota	64	29·787		29·777	29·891	7th	29·675	21st	·216	78·7	87·1		76·5		81·8		10·6	90·0	1st	73·3	9th	16·7
	Minicoy	7	29·883	−·017		29·975	8th	29·730	22nd	·245													
	Amini Divi	*13*																					
	Gyantse	13,110	18·585		18·526	18·649	14th	18·528	23rd	·121	49·1	65·2		25·4		45·3		39·8	74·8	22nd	18·0	4th	56·8
	Pharijong	14,400																					
	Gangtok	5,667	24·522	+·101	24·477	24·546	18th	24·486	28th	·060	65·7	73·2	+0·8	55·7	+5·2	64·4	+3·0	17·5	74·7	21st	53·7	10th	21·0
	Gartok (c)	15,100																					
	Kashgar (c)	4,255	25·499	−·051		25·660	3rd, 17th & 23rd.	25·240	10th	·420	63·8	79·3	−1·7	55·8	−1·9	67·5	−1·8	23·5	95·3	31st	42·8	3rd	51·5
	Kabul (c)		24·108	−·132		24·210	1st	24·030	31st	·180	50·9	80·1	−1·5	50·5	−1·2	65·3	−1·4	29·6	96·8	30th	40·0	1st	56·8
	Meshed	3,104	25·892		28·855	26·051	2nd	25·742	24th	·309	64·2	81·3	+3·0	53·4	−2·1	67·3	+0·5	27·9	91·4	25th & 26th.	40·8	1st	50·6
	Jask	13	29·745	−·008	29·711	29·932	2nd	29·616	31st	·366	82·3	93·0	+0·8	77·9	−0·5	85·4	+0·1	15·1	100·2	25th	70·2	2nd	30·0
	Muscat	20	29·762†	+·009†	29·731†	30·001	2nd	29·641	30th	·360	88·6	97·2	+3·6	84·3	−1·4	90·8	+1·1	13·9	105·3	24th	74·7	2nd	30·6
	Bushire	14	29·773	−·018	29·718	29·979	2nd	29·599	28th	·380	84·1	89·4	+0·3	78·2	+2·6	83·8	+1·5	11·2	96·7	18th & 21st.	69·4	10th	27·3
	Busrah	25	29·796	−·056	29·876‡	30·026	1st	29·566	27th	·460	84·4‡	97·6	+3·7	77·1	+2·8	87·4	+3·3	20·5	104·8	8th	72·1	7th	32·7
	Kerman																						
	Ispahan (c)	*5,817*	24·346	−·034		24·520	2nd	24·190	29th	·330	65·5	82·3	−0·1	56·9	+3·3	69·6	+1·6	25·4	91·9	29th	50·2	1st	41·7
	Tehran (c)	*4,009*																					
	Baghdad	127																					
	Aden	94	29·729	−·050	29·755	29·875	3rd	29·513	28th	·362	83·7	91·5	−1·3	81·5	+0·2	86·5	−0·5	10·0	97·8	26th	76·9	31st	20·9
	Zanzibar	72	29·982	−·023	29·981	30·032	11th & 12th.	29·910	3rd	·122	77·5	83·1	+0·6	75·4	−0·2	79·2	+0·2	7·7	86·1	9th	73·2	31st	12·9

N.B.—Elevations in italics indicate barometrical determinations

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(c) Aneroid.

* Mean of 27 days.
† " " 30 "
‡ " " 11 "

B—*concluded.*

stations in India, etc., in May, 1916—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Hill stations, excluding Kashmir and Baluchistan—*concld.*
																32	−12	·178	−·076	2·4	−0·1	4	4·8	−0·8	2·25	2·68	−0·43	2·25	2·68	− 0·43	1·07	Simla.
																49	+ 1	·223	−·025	3·2	+0·8	4	4·6	−0·6	2·95	2·04	+0·91	2·95	2·04	+ 0·91	1·44	Sarain.
4	14	0	0	0	9	1	0	2	N 16° W		7·1			20		46*		·145*		3·3		4			3·41			3·41			1·19	Kalabagh.
6	1	15	8	0	0	0	0	1	N 55° E	N 21° E	7·9	5·7	+2·2	69	+59	32	−16	·194	−·085	1·7	−0·3	4	5·2	−1·2	2·12	2·46	−0·34	2·12	2·46	− 0·34	0·93	Chakrata.
7	0	1	6	2	1	1	12	1	S 72° W		7·9			17		31	−17	·166	−·106	1·8	−0·7	3	5·4	−2·4	4·11	2·09	+2·02	4·11	2·09	+ 2·02	2·81	Mukteswar.
29	0	0	0	1	0	0	1	0	S 23° W	S 58° W	2·3	5·0	−2·7	2	− 9	87	− 1	·420	+·003	8·0	+1·2	11	13·9	−2·9	5·22	8·74	−3·52	5·22	8·74	− 3·52	1·47	Darjiling.
12	0	1	0	1	8	8	0	1	S 22° W		4·9			46		65	− 7	·442	−·029	6·8	+1·5	11	16·1	−5·1	4·91	9·17	−4·26	4·91	9·17	− 4·26	1·38	Shillong.
4	1	4	4	1	5	8	4	0	S 16° W		6·3			23		82	− 4	·553	+·003	7·4	+0·7	14	21·4	−7·4	101·72	32·16	+69·56	101·72	32·16	+69·56	31·97	Cherrapunji.
25	0	0	0	1	1	4	0	0	S 26° W		1·3			20		78	− 2	·638	−·003	3·0	−1·7	6	12·5	−6·5	3·62	9·31	−5·69	3·62	9·31	− 5·69	1·22	Maymyo.
2	1	3	1	5	1	5	7	6	S 85° W	N 81° W	4·6	5·5	−0·9	27	−36	35	0	·392	0	1·1	−0·6	2	1·2	+0·7	0·50	0·55	−0·05	0·50	0·55	− 0·05	0·26	Pachmarhi.
1	6	7	0	2	0	9	1	5	N 34° W	S 72° W	6·5	7·9	−1·4	30	−38	32	− 5	·304	−·037	2·4	+1·7	1	1·2	−0·2	2·95	0·72	+2·23	2·95	0·72	+ 2·23	2·95	Mount Abu.
15	1	2	2	0	1	1	5	4	N 55° W*	N 45° W	2·3	3·9	−1·6	20	−45	83	− 3	·622	+·011	6·8	+0·5	13	8·7	+4·3	7·00	5·79	+1·21	7·00	5·79	+ 1·21	1·00	Mercara.
5	1	0	8	10	5	1	1	0	S 49° E		2·6			59		66	+ 3	·277	+·012	5·2	+0·9	16	11·7	+4·3	6·40	7·84	−1·44	6·40	7·84	− 1·44	1·51	Ootacamund.
0	9	6	3	5	2	0	0	6	N 29° E		3·3			46		73	+ 6	·372	+·018	3·9	−0·3	11	11·5	−0·5	7·41	5·85	+1·55	7·41	5·86	+ 1·55	1·82	Kodaikanal.
																																Extra India.
14	0	0	0	10	0	4	1	2	S 12° E					27						6·1	+1·2	9	8·9	+0·1	9·43	5·96	+3·47	9·43	5·96	+ 3·47	3·32	Singapore.
0	5	4	7	6	3	0	5	1	N 81° E					27						6·9	+5·5	17	10·9	+6·1	9·96	8·48	+1·48	9·96	8·48	+ 1·48	1·25	Penang.
0	0	0	0	0	1	15	14	1	S 67° W	S 45° W	5·7	8·8	−3·1	89	− 8	79	− 2	·825	−·090	5·0	+2·4	8	3·4	+2·6	5·10	2·36	+2·74	5·10	2·36	+ 2·74	1·40	Trincomalee.
14	0	6	3	2	0	4	1	1	N 80° E	S 45° W	3·3	6·7	−3·4	13	−65	91	+ 8	·867	−·063	9·4	+2·9	17	12·8	+4·2	23·13	10·70	+22·43	23·13	10·70	+22·43	7·95	Colombo.
1	2	0	0	0	0	4	19	5	N 84° W		8·7			82		90		·881		4·9		12			9·04	3·21	+5·83	9·04	3·21	+ 5·83	2·31	Hambantota.
3	5	1	0	0	0	3	7	12	N 55° W	N 69° W	5·1	7·4	−2·3	65	−11					4·9	−0·3	7	8·9	−1·9	5·14	5·68	−0·54	5·14	5·68	−0·54	2·72	Minicoy.
																							4·3			3·14			3·14			Amini Divi.
22	1	0	0	7	0	0	0	1	S 53° E		5·5			16		35†		·124†				1			0·62			0·62			0·60	Gyantse.
																																Pharijong.
26	0	2	0	0	0	1	0	2	N 27° W		1·2			6		75	− 7	·475	+·001	1·5	−2·5	16	20·2	−4·2	14·30	19·45	−5·15	14·30	19·45	− 5·15	2·10	Gangtok.
																																Gartok.
25	4	0	0	8	0	0	0	1	N 11° W‡	N 50° W	1·6	3·3	−1·7	17	+ 4	50	+ 6	·289	+·002	5·1	+2·0	1	1·2	−0·2	0·37	0·70	−0·33	0·37	0·70	− 0·33	0·37	Kashgar.
0	2	2	1	0	0	13	11	2	S 78° W	N 34° W				61	+50	84	+29	·317	−·031	2·9	+1·7	7	2·4	+4·6	1·80	0·95	+0·85	1·80	0·95	+ 0·85	0·42	Kabul.
7	2	0	0	0	0	0	1	1	N 34° W		0·6			13		60	0	·358	−·059	3·5	+0·9	5	3·3	+1·7	0·91	1·39	−0·48	0·91	1·39	− 0·48	0·30	Meshed.
0	6	1	8	0	0	2	2	12	N 13° W	N 60° E	8·1	8·0	+0·1	46	+40	64	− 4	·700	−·113	0·7	+0·2	0	0	0	0	0	0	0	0	0	0	Jask.
3	0	3	3	4	0	0	0	18	N 21° W	N 36° W	2·9	3·1	−0·2	43	+ 1	51	− 8	·665	−·143	1·1	+0·4	0	0	0	0	0	0	0	0	0	0	Muscat.
11	2	2	0	1	1	1	7	6	N 62° W	N 25° W	5·4	6·9	−1·5	37	−13	64	+ 2	·747	+·069	2·0	−0·2	0	0	0	0	0·02	−0·02	0	0·02	− 0·02	0	Bushire.
6	2	2	1	2	2	2	5	7	N 67° W		3·1§			24		63§		·747§		1·5		0	1·2	−1·2	0·01	0·46	−0·45	0·01	0·46	− 0·45	0·01	Busrah.
																																Kerman.
27	0	0	0	0	0	1	3	0	S 76° W	N 58° W	1·4	3·4	−2·0	13	−35	63	+ 2	·403	+·002	3·0	+0·8	0	0·9	−0·9	0·24	0·25	−0·01	0·24	0·25	− 0·01	0·08	Ispahan.
										S 46° W		2·6											1·9			0·45			0·45			Tehran.
										N 1° E		2·9											0·7			0·23			0·23			Baghdad.
9	4	16	0	0	0	1	1	0	N 23° E	S 87° E	10·1	8·2	+1·9	59	+20	80	+ 8	·926	+·011	3·8	+0·5	0	0·3	−0·3	0·01	0·13	−0·12	0·01	0·13	− 0·12	0·0	Aden.
0	0	0	0	1	15	14	1	0	S 21° W	S 7° W	6·0	5·9	+0·1	90	+ 3	79	− 7	·749	−·065	5·9	−0·8	8	12·3	−4·2	7·35	11·42	−7·07	4·35	11·42	− 7·07	1·91	Zanzibar.

* Mean of 27 days.
† " " 28 "
‡ One wind less.
§ Mean of 11 days.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry-bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	74·1	86·8	0	71·1	+3·8	78·9	+1·9	15·7	97·7	17th	67·1	4th	30·6	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	77·8	89·5	+1·6	70·3	+0·4	79·9	+1·0	19·2	97·6	17th	63·7	3rd	33·9	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	a82·3	b94·9	+5·2	b73·2	+4·0	84·1	+4·6	21·7	101·9	17th	65·0	8th	36·9	...	...	...	...	...	...	...	...	...	...	...
	Doom-Dooma	74·0	87·2	+0·9	69·8	+1·5	78·4	+1·2	17·6	98·3	17th	61·4	7th	36·9	...	...	...	...	...	...	...	...	...	...	...
	Dikom	75·8	85·7	−0·5	70·4	+0·4	78·1	−0·1	15·3	96·8	17th	65·8	9th	31·0	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	76·6	86·8	+1·0	70·6	...	78·7	...	16·2	95·9	17th	65·5	8th	30·3	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	81·1	90·8	+0·7	75·3	+3·4	83·3	+2·1	15·5	96·8	17th	67·0	9th	29·8	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	76·6	86·4	+0·2	71·9	+0·8	79·1	+0·5	14·5	95·1	17th	67·2	7th	27·9	...	...	...	...	...	...	...	...	...	...	...
	Lumding	77·6	91·6	...	70·9	...	81·3	...	20·7	101·9	4th	64·8	7th	37·1	...	...	...	...	...	...	...	...	...	...	...
	Messa	79·7	92·2	+0·5	67·1	−1·6	79·6	−0·5	25·0	100·7	17th	62·0	1st	38·7	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	72·3	87·7	+2·7	70·3	+1·5	79·0	+2·1	17·4	95·9	17th	65·5	10th	30·4	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
1	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	84·2	93·1	+2·2	76·3	+2·6	84·7	+2·4	16·8	96·8	17th	65·9	29th	30·9	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	84·1	96·4	+3·8	76·2	+2·8	83·3	+3·3	20·2	104·1	1st	66·1	9th	38·0	...	...	...	...	...	...	...	...	...	...	...
	Pabna	84·0	97·7	+2·0	78·8	+5·5	88·3	+3·7	13·9	105·8	26th	70·5	9th	35·3	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur-Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam-Dim	75·7	92·5	+2·0	69·9	0	81·2	+1·0	22·6	98·4	16th	63·8	2nd	34·3	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	79·1	88·1	−0·7	69·8	−0·5	78·9	−0·5	18·3	94·6	4th	64·0	8th	30·6	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	79·5	89·2	+0·9	70·0	−0·2	79·6	+0·3	19·2	94·1	16th	63·0	27th & 29th.	31·1	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

a—mean of 28 days
b— " " 29 "
d— " " 30 "

C.

and fifth class stations in India, etc., in May, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					II.—Assam.
...	...	...	...	...	91	− 1	·769	−·032	...	...	20	14·0	+6·0	17·08	8·15	+ 8·93	17·08	8·15	+8·93	4·26	Bishnath.
...	...	...	...	...	86	− 1	·822	+·024	...	...	13	13·4	−0·4	9·05	8·39	+ 0·66	9·05	8·39	+0·66	2·27	Borjuli.
...	...	...	...	...	91*	+ 7	·1000*	+·201	...	...	11	15·4	−4·4	8·01	12·82	− 4·81	8·01	12·82	−4·81	1·30	Chandkhira.
...	...	...	...	...	87	− 5	·725	−·057	...	...	12	12·7	−0·7	12·64	7·94	+ 4·71	12·64	7·94	+4·70	3·44	Doom Dooma
...	...	...	...	...	85	− 2	·761	+·008	...	...	12	13·2	−1·2	15·34	8·81	+ 6·53	15·34	8·81	+6·53	3·38	Dikom.
...	...	...	...	...	89	− 1	·808	+·009	...	...	9	12·7	−3·7	5·27	8·25	− 2·98	5·27	8·25	−2·98	1·47	Golagha
...	...	...	...	...	80	− 7	·847	+·050	...	...	11	14·5	−3·5	9·58	12·25	− 2·67	9·58	12·25	−2·67	1·57	Hailakandi.
...	...	...	...	...	90	+ 4	·823	+·042	...	...	11	13·2	−2·2	7·87	8·94	− 1·07	7·87	8·94	−1·07	3·99	Jorehat.
...	...	...	...	...	81	...	·766	...	...	...	7	8·8	−1·8	3·06	4·57	− 1·51	3·06	4·57	−1·51	0·94	Lumding.
...	...	...	...	...	63	−18	·617	−·186	...	...	10	13·8	−3·8	6·67	7·76	− 1·09	6·67	7·76	−1·09	2·39	Messa.
...	...	...	...	...	92	+ 1	·728	+·617	...	...	13	15·0	−2·0	16·06	10·78	+ 5·28	16·06	10·78	+5·28	3·64	Panerihat.
																					III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	5	11·9	−6·9	3·80	11·30	− 7·50	3·80	11·30	−7·50	1·13	Comilla.
...	...	...	...	...	76	− 6	·897	+·022	...	...	3	11·3	−8·3	1·59	10·63	− 9·04	1·59	10·63	−9·04	1·15	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	5	10·7	−5·7	4·30	8·54	− 4·24	4·30	8·54	−4·24	3·03	Faridpur.
...	...	...	...	...	80	+ 1	·935	+·049	...	...	5	9·7	−4·7	4·64	7·52	− 2·88	4·64	7·52	−2·88	2·04	Goalundo.
...	...	...	...	...	87	+ 5	1·024	+·138	...	...	7	8·0	−1·0	4·35	6·49	− 2·14	4·35	6·49	−2·14	1·44	Pabna.
...	...	...	...	...	...	...	...	...	...	...	3	10·5	−7·5	2·20	8·11	− 5·91	2·20	8·11	−5·91	1·50	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	1	7·6	−6·6	1·27	5·69	− 4·42	1·27	5·69	−4·42	1·25	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	1	5·7	−4·7	0·26	4·48	− 4·22	0·26	4·48	−4·22	0·26	Malda.
...	...	...	...	...	...	...	...	...	...	...	5	12·0	−7·0	3·13	11·28	− 8·15	3·13	11·28	−8·15	1·59	Rangpur.
...	...	...	...	...	88	− 1	·776	−·036	...	...	18	13·5	+4·5	11·65	12·26	− 0·61	11·65	12·26	−0·61	2·00	Dam Dim.
...	...	...	...	...	79	− 3	·801	−·043	...	...	29	12·7	+7·3	31·43	11·17	+20·26	31·43	11·17	+20·26	6·43	Kalchini.
...	...	...	...	...	79	− 4	·785	+·016	...	...	14	14·5	−0·5	13·28	12·65	+ 0·63	13·28	12·65	+0·63	4·23	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	18	14·3	−1·3	25·92	16·44	+ 9·48	25·92	16·44	+9·48	8·13	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	3	7·8	−4·8	2·33	6·60	− 4·27	2·33	6·60	−4·27	0·99	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	3	5·9	−2·9	4·84	4·24	+ 0·60	4·84	4·24	+0·60	2·65	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	5·4	−5·4	0·02	3·95	− 3·93	0·02	3·95	−3·93	0·02	Raniganj (Asansol).
																					IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	4	4·0	0	3·96	2·19	+1·77	3·96	2·19	+1·77	1·76	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	1	4·0	−3·0	0·18	3·26	−3·08	0·18	3·26	−3·08	0·18	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	2	3·6	−1·6	0·59	2·54	−1·95	0·59	2·54	−1·95	0·36	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	3	4·1	−1·1	0·58	2·81	−2·23	0·58	2·81	−2·23	0·38	Motihari.
...	...	...	...	...	...	...	...	...	...	...	1	1·8	−0·8	1·10	1·38	−0·28	1·10	1·38	−0·28	1·05	Chapra.
...	...	...	...	...	...	...	...	...	...	...	1	2·0	−1·0	0·10	1·37	−1·27	0·10	1·37	−1·27	0·10	Arrah.
...	...	...	...	...	...	...	...	...	...	...	1	1·4	−0·4	0·18	0·72	−0·54	0·18	0·72	−0·54	0·10	Dehri.

* Mean of 26 days.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry-bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	88·4	103·8	...	77·3	...	90·6	...	26·5	111·0	22nd	66·9	29th	44·1	17	1	0	1	1	1	2	3	5	N 81°W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	85·7	103·6	...	79·1	...	91·3	...	24·5	106·2	10th	71·3	31st	34·9	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	87·4	104·2	...	81·1	...	92·6	...	23·1	110·5	18th	66·0	7th	44·5	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	84·4	97·1	...	75·9	...	86·5	...	21·2	108·5	30th	63·3	12th	45·2	0	9	16	0	1	0	1	1	3	N 23° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	53·5	70·9	...	36·7	...	53·8	...	34·2	82·2	31st	28·2	2nd & 4th	54·0	0	14	6	3	1	1	2	0	4	N 13° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	79·1	88·9	+1·0	71·9	+1·8	80·4	+1·4	17·0	95·9	4th	65·0	28th	30·9	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	69·0	74·4	+1·7	62·2	+1·6	68·2	+1·7	12·1	77·5	26th	56·7	10th	20·8	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	68·1	+0·2	46·2	−0·5	57·3	−0·1	22·2	75·1	19th	36·1	5th	39·0	17	0	0	0	0	0	9	2	0	S* 53° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	83·0	−5·4	49·0	−1·9	66·0	−3·7	34·0	95·4	31st	36·0	2nd	59·4	...	...	...	...	...	...	...	...	...	...	...

* 3 winds less.

C—*continued.*

and fifth class stations in India, etc., in May, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	2	1·5	+ 0·5	0·88	0·58	+ 0·30	0·88	0·58	+ 0·30	0·74	Meerut.
...	...	...	...	...	...	...	...	...	...	...	2	3·3	− 1·3	1·28	1·48	− 0·20	1·28	1·48	− 0·20	0·86	Dehra Dun.
																					IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	2	1·6	+ 0·4	0·60	0·79	− 0·19	0·60	0·79	− 0·19	0·34	Udaipur.
																					XII.—Central Provinces.
2·3	...	...	19	...	38	...	·500	...	1·6	...	1	...	...	0·85	...	...	0·85	...	...	0·71	Chhindwara.
																					XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	3	1·2	+ 1·8	3·20	0·53	+ 2·67	3·20	0·53	+ 2·67	2·23	Parbhani.
																					XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	4	2·7	+ 1·3	5·34	1·51	+ 3·83	5·34	1·51	+ 3·83	2·93	Tinnevelly.
...	...	...	...	...	71	...	·869	...	3·3	...	2	2·9	− 0·9	0·51	1·65	− 1·14	0·51	1·65	− 1·14	0·17	Anantapur.
...	...	...	...	...	73	...	·944	...	...	...	2	2·9	− 0·9	1·25	1·69	− 0·44	1·25	1·69	− 0·44	0·59	Guntur.
																					Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	16·5	...	...	13·72	...	...	13·72	...	...	Car Nicobar.
																					Kashmir.
...	...	...	74	...	32	...	·352	...	3·1	...	3	2·1	+ 0·9	1·09	0·77	+ 0·32	1·09	0·77	+ 0·32	0·65	Jammu.
...	...	...	...	...	...	...	...	...	...	...	11	9·8	+ 1·2	4·65	5·82	− 1·17	4·65	5·82	− 1·17	0·75	Sonamarg.
...	...	...	61	...	41	...	·167	...	5·0	...	0	3·4	− 3·4	0·04	1·63	− 1·59	0·04	1·63	− 1·59	0·02	Kargil.
																					Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	0·6	− 0·6	0·10	0·24	− 0·14	0·10	0·24	− 0·14	0·06	Harnai.
																					Hill stations, exclusive of Kashmir.
...	...	...	...	...	71	− 2	·699	−·007	...	...	16	12·0	+ 4·0	7·66	8·58	− 0·92	7·66	8·58	− 0·92	0·92	Panighatta.
...	...	...	...	...	97	+18	·694	+·183	...	...	7	12·8	− 5·8	3·92	9·13	− 5·21	3·92	9·13	− 5·21	1·02	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	25	...	...	12·88	...	...	12·88	...	...	2·13	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	16	...	...	6·91	...	...	6·91	...	...	1·00	Lachung.
...	...	...	...	...	...	...	...	...	...	...	25	...	...	41·90	...	...	41·90	...	...	4·73	Ringim.
...	...	...	...	...	...	...	...	...	...	...	4	4·3	− 0·3	3·02	2·25	+ 0·77	3·02	2·25	+ 0·77	1·59	Mussoorce.
...	...	...	36	...	...	...	...	...	4·1	+1·1	2	2·3	− 0·3	0·62	1·05	− 0·43	0·62	1·05	− 0·43	0·32	Poo.
...	...	...	...	...	...	...	...	...	...	...	...	6·0	...	...	2·60	...	...	2·60	...	...	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	0·2	...	1	0·6	+ 0·4	0·18	0·18	0	0·18	0·18	0	0·10	Pishin.

Table

Abstract of observations taken at 8 hrs. at 56 fourth and

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry-bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi	48·2	P	...	40·0	...	P	...	...	P	P	28·0	4th, & 6th	29·3	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Prison Island . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

fifth class stations in India, etc., in May, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					Extra India.
...	...	...	...	...	88	...	·300	...	1·9	...	7	...	...	2·19	...	...	2·19	...	...	0·48	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	11	19·2	−8·2	13·02	18·29	−5·27	13·02	18·29	−5·27	4·21	Pemba.
...	...	...	...	...	...	...	...	...	...	...	...	12·0	...	...	12·11	...	...	12·11	...	...	Prison Island.

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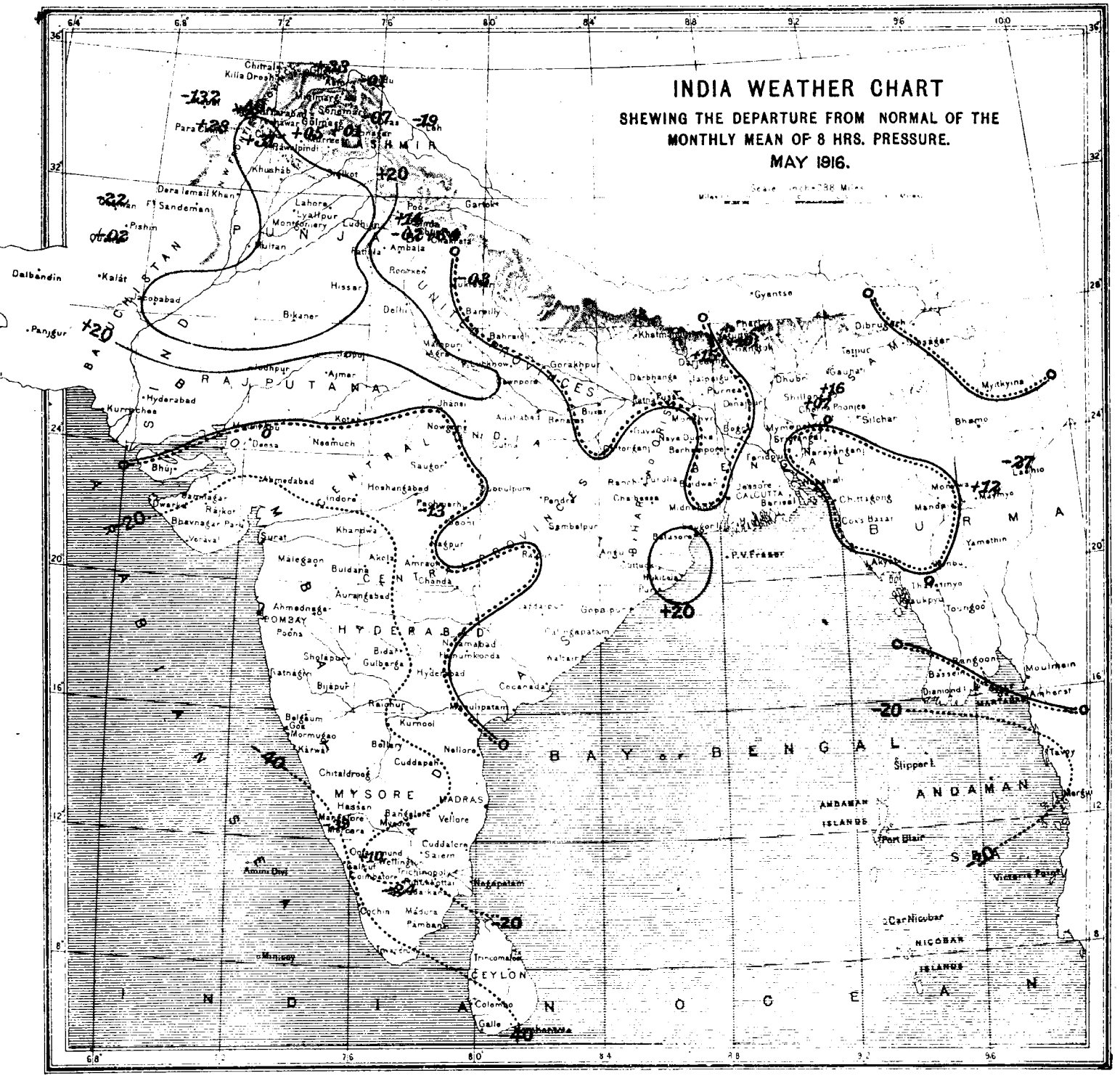
The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	..	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020 or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

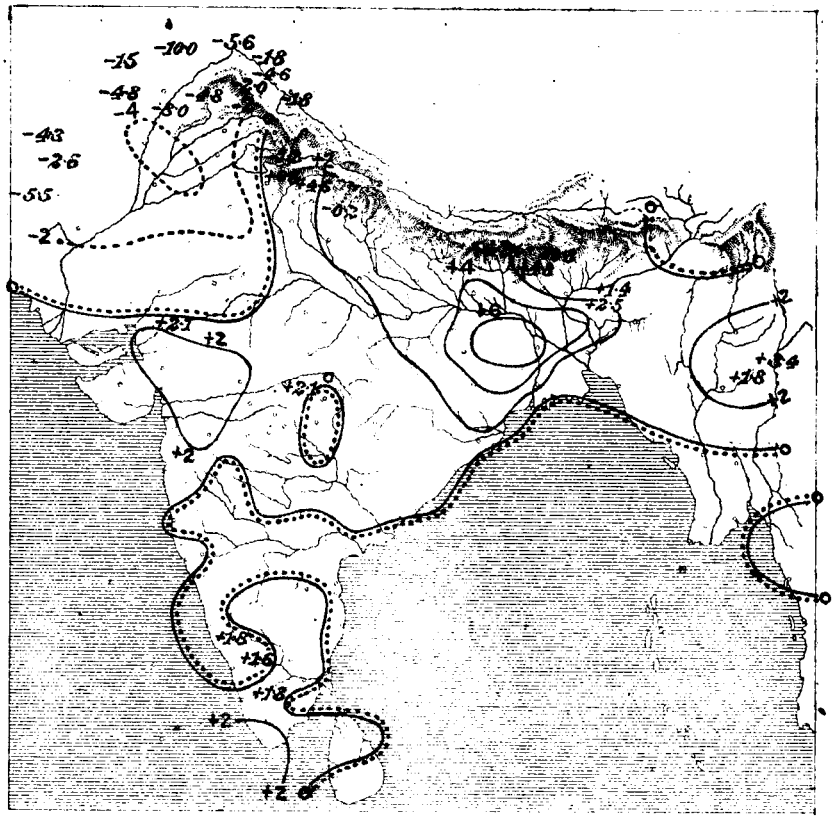


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

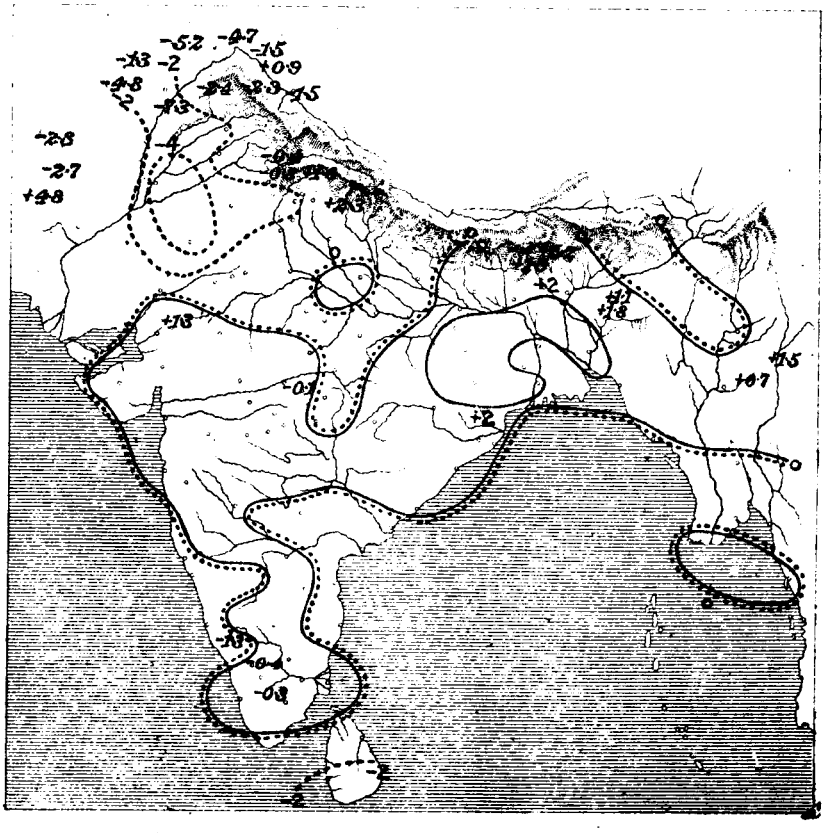


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

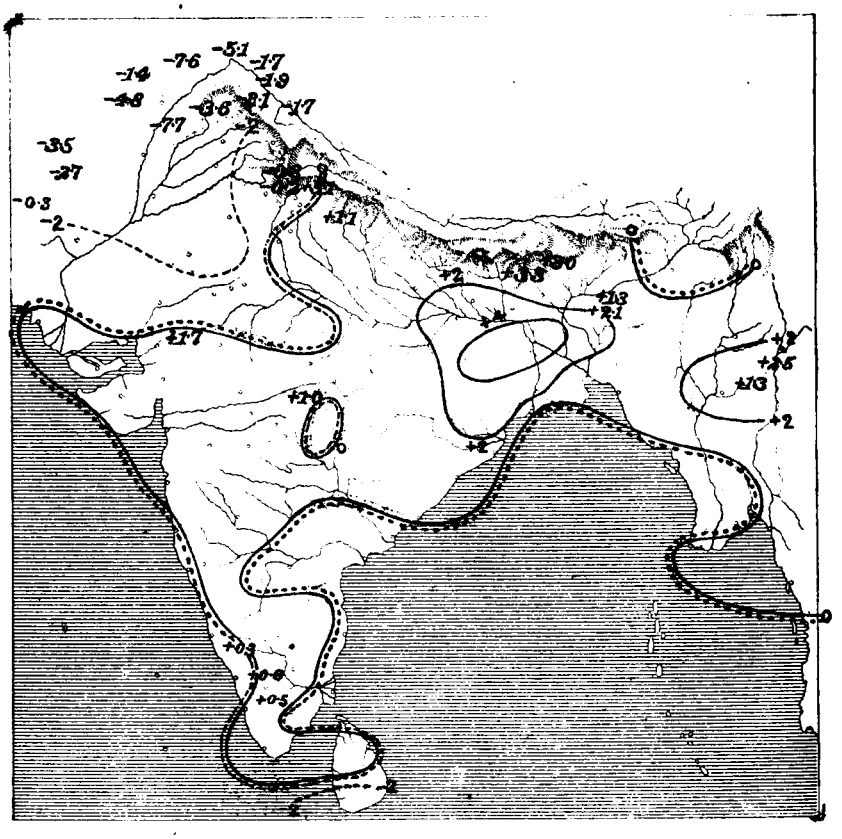


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

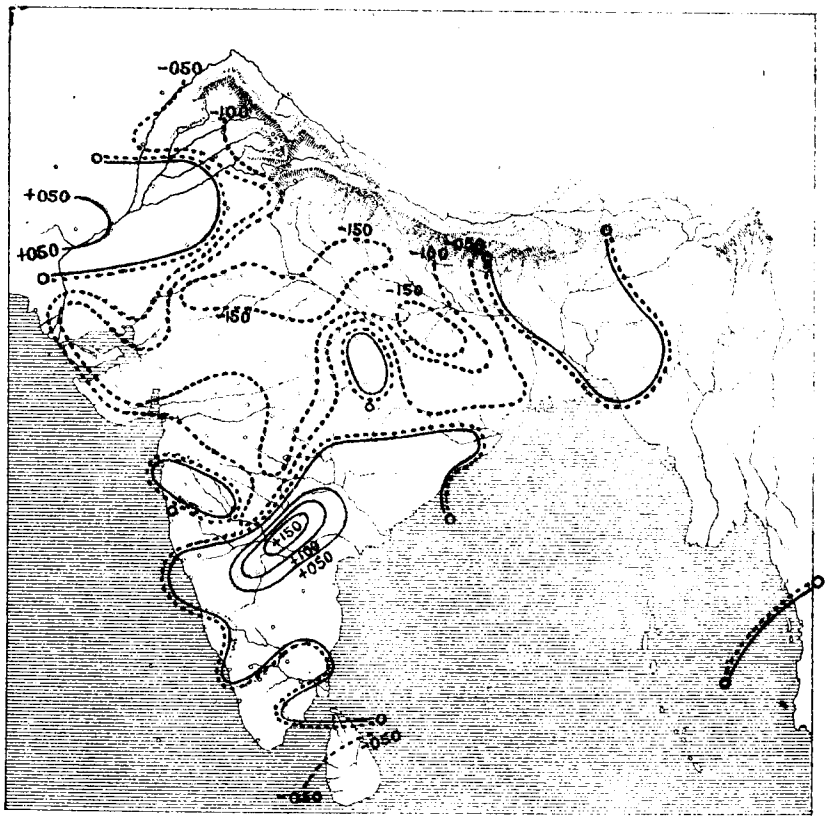


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

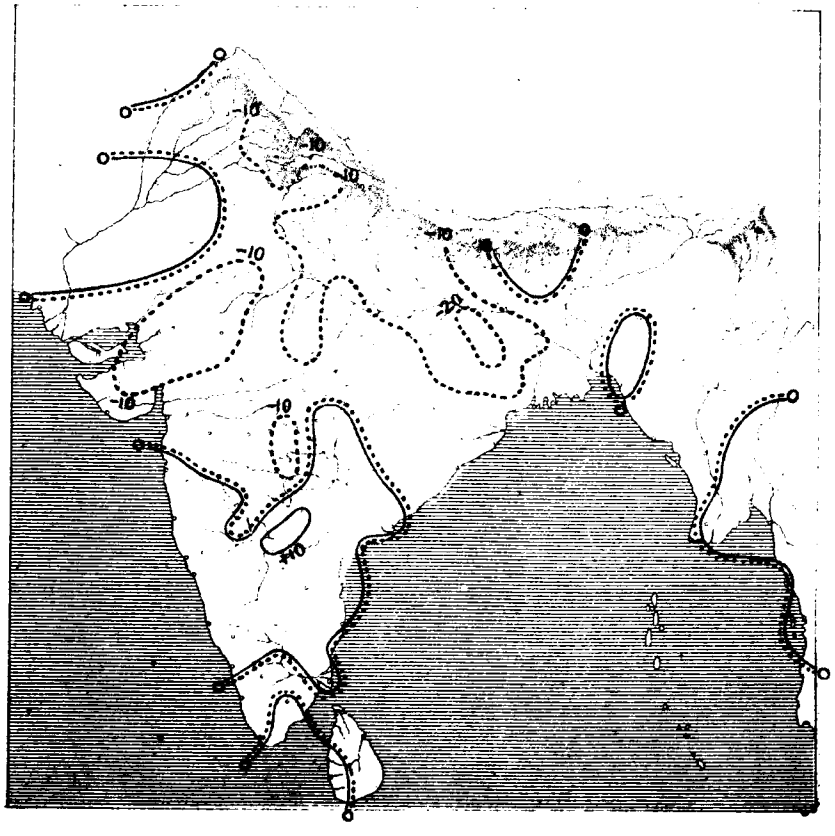


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

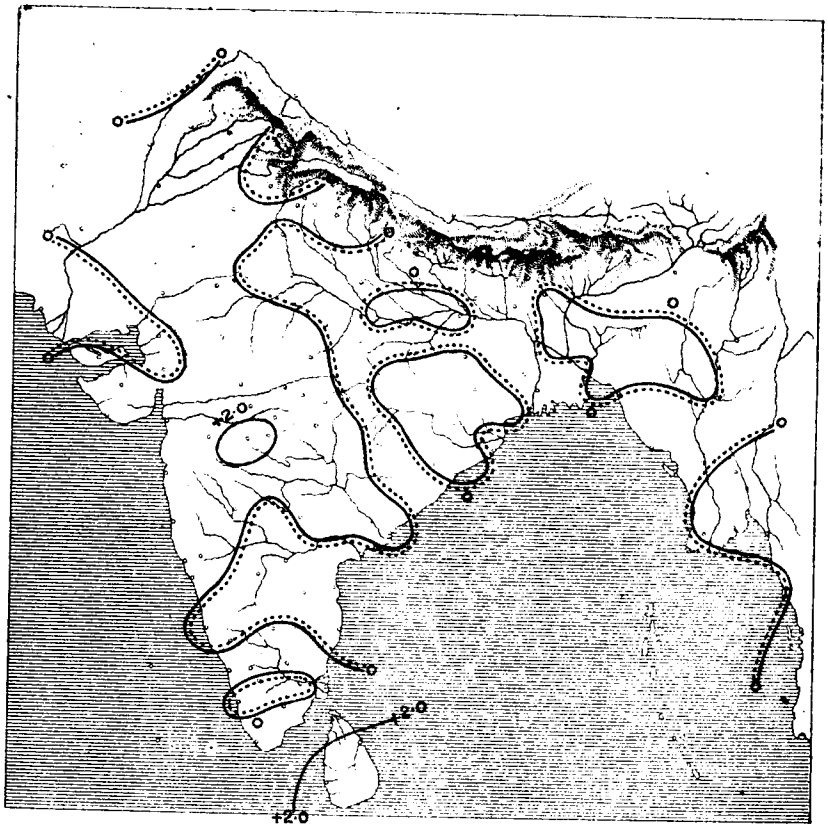
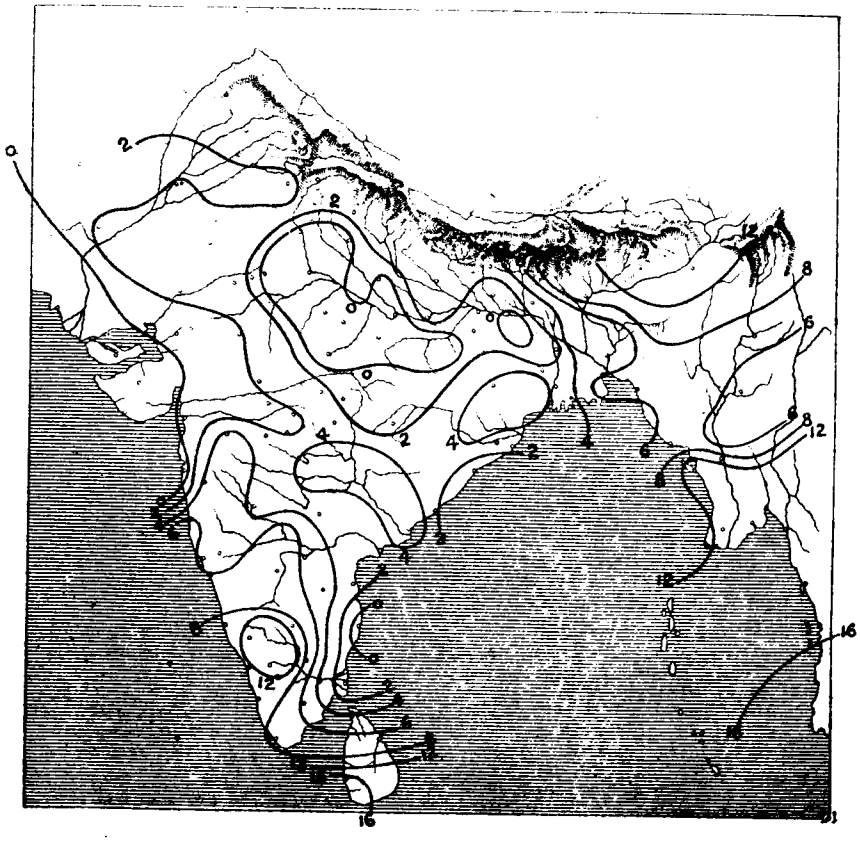


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)



The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, JUNE, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of June, 1916, is based on observations taken daily at 8 hrs. at 216 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review. The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The Arabian Sea monsoon arrived on the west coast at about the average date, while the Bay current appeared in north-east India upwards of a week earlier than usual. The establishment of monsoon conditions in the interior occurred in the normal manner. Both currents were more active than usual until the 26th, when a break set in over by far the greater part of the country.

The total rainfall given by the monsoon currents during the month in the plains of India was above normal by 1·9″ or 27 per cent.; the excess was not, however, entirely general, for the recorded amounts fell appreciably short of the normal in Assam, the North-West Frontier Province, Rajputana West, Gujarat and Madras South-east. On the other hand in Lower Burma, Orissa, Bihar, the United Provinces, Kashmir, Central India, Berar, the Central Provinces West, and Hyderabad South, the month's fall was more than 40 per cent. in excess.

In keeping with the general character of rainfall distribution temperature was lower, the air damper, and cloud more abundant than usual over a large part of the country.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The weather was not very favourable for solar observations during the month. The sun could not be examined for spots and faculæ on six days and prominences could not be observed on thirteen days.

Sun spots.—Twenty-two new groups of spots were observed, which was also the number observed in May. The daily average number was 3·8, and the average life of a spot 4·2 days, while for the preceding month the averages were 4·8 and 5·0 respectively. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North . . .	1	10	1	15°·0	9° & 24°
South . . .	...	6	4	18°·8	13° & 24°

Prominences.—Forty-two large, one metallic and two eruptive prominences were recorded during the month. The highest was only 150″ and was observed on the 1st at latitude —26° East.

Magnetic disturbances.—Only "small" disturbances were recorded during the month.

T. ROYDS,
for *Director*,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2{,}343$ m. Subsoil-Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϑ	$\frac{r}{To^2}$
Ar:				
As:	9·76	18·1	1	24
Az:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1916		h. m. s.						
June 14th	e P	14 19 24	...	...	...	...	...	
	e L	14 20 12	...	...	...	...	...	
	M	14 21 12	...	...	50	...	...	
	F	14 39 18	...	...	...	...	...	
„ 15th	e P	11 32 00	...	...	...	...	...	
	e L	11 39 48	...	...	...	...	...	
	M	11 43 54	...	...	110	...	...	
	F	12 40 00	...	...	...	...	...	
„ 21st	e P	20 09 36	...	...	...	...	...	
	i L	20 09 48	...	...	...	..	...	
	M	20 10 36	...	...	100	...	...	
	F	20 23 36	...	...	...	...	...	
„ 21st	e P	21 53 36	...	...	...	...	...	
	e L	22 03 48	...	...	...	...	...	
	M	22 10 00	...	...	50	..	...	
	F	22 57 42	...	...	...	...	...	
1916.		h. m. s.						
June 30th	e P	4 20 12	...	...	...	...	...	Confused by air tremors.
	e L	4 32 48	...	...	...	...	...	
	M	4 33 48	...	...	120	...	...	
	e F	5 22 48	...	...	...	...	...	

T. ROYDS,
Assistant Director.

GOVERNMENT OBSERVATORY.

Alibag magnetic record.

4. During the month of June 1916 the traces showed 10 calm days, and 20 days of small disturbances.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 2nd, 5th, 16th, 24th, and 29th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	S	25	S
2	C	10	C	18	S	26	S
3	C	11	S	19	S	27	S
4	C	12	S	20	S	28	S
5	C	13	S	21	S	29	C
6	S	14	C	22	S	30	S
7	S	15	C	23	S	...	...
8	S	16	C	24	C	...	...

C.=calm; S.=small; M.=moderate; G.=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follow :—

Easterly declination	0° 36′ 30″.
Horizontal force	0·36876 C.G.S. unit.
Vertical force	0·16785 C.G.S. „
Inclination	24° 38′·4.
Horizontal force range	0·00051 C.G.S. „
Horizontal force summed range	0·00366 C.G.S. „
Declination range	5′·2.
Declination summed range	22′·1.

(Summed range means sum without regard to signs of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m. Subsoil Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϑ	$\frac{r}{To^2}$
AN:				
AE:	9	21	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
June 1st.		11 43 0	...	...	...	...	...	Thickening of line.
" 15th	P	11 33 33	...	...	...	...	...	
	M	11 49 21	...	...	111	...	...	
	F	12 15 15	...	...	...	...	...	
" 21st	P	.....	...	...	...	...	...	Beginning mixed in tremors.
	M	20 5 21	...	...	67	...	...	
	F	.....	...	...	...	...	...	End mixed in tremors.
" "	P	.....	...	...	...	...	...	Beginning mixed in tremors.
	M	22 49 47	...	...	44	...	...	
	F	.....	...	...	...	...	...	End mixed in tremors.
" 22nd	...	1 12 to 15	...	...	...	...	...	Thickening of line.
" "	...	12 21 9	...	...	...	...	...	
" 24th	P	.....	...	...	...	...	...	Beginning mixed in tremors.
	M	4 12 19	...	...	56	...	...	
	F	.....	...	...	...	...	...	End mixed in tremors.
" 30th	P	.....	...	...	...	...	...	Beginning mixed in tremors.
	M	4 31 26	...	...	56	...	...	
	F	5 15 39	...	...	...	...	...	

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·30″ from 1st to 22nd and 0·32″ from 23rd to 30th.

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32'$ N ; $\lambda = 88° 20'$ E ; $h = 6·4$ m. Subsoil Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϑ	$\frac{r}{To^2}$
AN:	29	20	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
June 21st.	P	20 3 0	...	...	...	...	...	
	S	20 5 6	3	...	...	...	...	
	L	20 7 6	6	...	...	...	...	
	F	20 27 0	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.
		h. m.	Sec.		
Drosh	June 17th	9 19	2	3	1
Mandalay	" 29th	19 25	2	6	2
"	" 30th	12 35	3	3	2

Solar radiation.—Observations not recorded owing to absence of officers on war service.

G. C. SIMPSON,
Imperial Meteorologist Simla.

Weather in the Indian Ocean.

7. Barometric pressure was distinctly low at all the three representative stations. Winds were slightly above normal strength at Zanzibar and Seychelles, and at the former station their direction was somewhat more westerly than usual. Rainfall was in defect by 23 per cent. at Zanzibar and by 11 per cent. at Seychelles.

The general conditions in the Indian Ocean were thus such as are associated with a strong monsoon in India.

TABLE 7.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·057*	—·047	—·038
Actual mean wind direction . .	S 61° E*	S 26° W	S 32° E
Normal mean wind direction . .	S 61° E*	S 13° W	S 27° E
Actual mean wind velocity (miles per diem).	252*	163	202
Normal mean wind velocity (miles per diem).	250*	154	188
Rainfall departure from normal . .	—0·99*	—0·41	—0·51

* Based on weekly telegrams.

Depressions and cyclonic storms.

8. The advance of the monsoon over the east of the Arabian Sea was as usual preceded by a wave of low pressure and squally weather, but the marine information shows that the low pressure conditions never concentrated into a regular depression.

Over the Bay on the other hand the advance of the monsoon resulted in a feeble storm of which the following is a brief history.

Cyclonic storm of the 3rd to the 6th.—According to the observations from ships this developed slowly during the first three days off the Arakan coast, and on the morning of the 4th was about 150 miles to the west of Kyaukpyu. From here it travelled in a north-westerly direction and crossing the coast between Saugor Island and Barisal on the morning of the 5th lay over south-east Bihar at 8 hrs. of the 6th. It disappeared during the day without any appreciable change in position. The storm was throughout of slight intensity, but occasioned moderate to heavy rain in Bengal on the 4th and 5th and in Bihar on the 5th and 6th.

A second storm formed three days later.

Cyclonic storm of the 10th to the 16th.—This was generated over the north-west angle of the Bay between the 9th and the 11th, and at 8 hrs. of the 12th the centre was in the neighbourhood of Saugor Island. Thence it moved along the southern margin of the plateau of Chota Nagpur, and by the morning of the 15th had reached a position between Pendra and Raipur. At 8 hrs. of the 16th it lay in the neighbourhood of Saugor, where it disappeared within the next twenty-four hours. Its depth, which was initially about a third of an inch, became reduced to about a sixth of an inch on nearing Saugor. It had the effect of concentrating rainfall on the southern side of its path.

Pressure.

9. Atmospheric pressure was below normal throughout the country by amounts ranging from about ·04″ in the extreme south of the Peninsula to upwards of a tenth of an inch in south Rajputana, north Gujarat and the valley of the Indus.

On the average of all the plains stations there was a deficiency of 078″ which has never been surpassed during the past forty-two years.

The statement below giving the most noteworthy negative departures in previous years shows the extraordinary character of the pressure conditions prevailing in June 1916.

TABLE 8.

Month and year.	Departure from normal of geographical mean of pressure in the plains of India.
	″
January 1887	—·071
March 1892	—·074
February 1898	—·077
October 1915	—·074

The low pressure conditions were not peculiar to India, but extended northwards at least as far as Kashgar, westwards as far as Bushire and Aden and southwards as far as Mauritius.

The lowness was not a mere effect of temperature as recorded in the lower atmospheric strata, for over by far the greater part of the country temperature was either normal or in defect.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.	Departure from normal of mean temperature.
	″	°
Burma	—·056	—0·8
Assam	—·073	+1·5
Bengal	—·076	—1·0
Bihar and Orissa	—·069	—3·2
United Provinces	—·076	—3·9
Punjab	—·087	—0·3

DIVISION.	Departure from normal of mean 8 hrs. pressure.	Departure from normal of mean temperature.
	"	°
North-West Frontier Province	—·117	+1·3
Sind	—·106	+0·9
Rajputana	—·103	—2·5
Bombay	—·087	—0·9
Central India	—·093	—5·2
Central Provinces	—·087	—4·8
Hyderabad	—·073	—3·0
Mysore	—·052	—2·1
Madras	—·050	—0·9

As the defect in pressure was more marked in the north than in the south, the gradient was steeper than usual by ·07″ between Colombo and Karachi and by 05″ between Colombo and Calcutta.

Over northern India the deficiency in pressure was greater in the plains than at the level of the observing hill stations, while in the Peninsula there was a slight tendency in the opposite direction.

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	—·043	Jacobabad	—·097	—·054
Leh	—·067	Lahore	—·089	—·022
Murree	—·065	Peshawar	—·113	—·048
Simla	—·060	Ludhiana	—·071	—·011
Mukteswar	—·071	Bareilly	—·066	+·005
Darjiling	—·050	Dhubri	—·070	—·020
Mount Abu	—·081	Deesa	—·103	—·022
Pachmarhi	—·112	Khandwa	—·096	+·016
Kodaikanal	—·051	Madura	—·044	+·007

Temperature.

10. Maximum temperature was appreciably in excess in Kashmir, was nearly normal in Burma, Assam, Bengal, the west Punjab, the North-West Frontier Province, Sind, west Rajputana, Gujarat and south Madras; and was in defect over the rest of the country. The defect ranged between 4° and 8° in the United Provinces and between 5° and 10° in Central India and the Central Provinces, in which areas it was greatest. The coolness in these areas was obviously due to excess of rain.

The departures from normal of minimum temperature had a distribution very similar to that of the maximum, although in general the magnitude of the departures was smaller.

Over the central parts of the country the lowness of temperature persisted through the greater part of the month.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.					DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
1. Bay Islands	85·5	77·6	81·5	7·9	16·5	—0·4	—0·2	—0·2
2. Lower Burma	84·4	75·0	79·7	9·4	17·4	—1·8	—1·3	—0·5
3. Upper Burma	90·3	75·7	83·0	14·6	24·1	—0·2	0	—0·2
4. Assam	90·1	76·6	83·4	13·5	23·1	+1·8	+1·1	+0·7
5. Bengal	88·3	77·5	82·9	10·8	22·0	—1·6	—0·5	—1·1
6. Orissa	90·1	78·2	84·2	11·9	25·7	—4·1	—1·7	—2·4
7. Chota Nagpur	90·1	76·5	83·3	13·7	29·6	—7·0	—2·5	—4·5
8. Bihar	91·1	78·1	84·5	13·0	29·2	—4·4	—0·9	—3·5
9. United Provinces, East	93·7	79·5	86·6	14·2	32·0	—6·7	—1·8	—4·9
10. Do. do., West	97·1	80·8	89·0	16·3	36·5	—4·9	—1·9	—3·0
11. Punjab, East and North	101·8	82·0	91·9	19·8	39·4	—2·9	+1·3	—4·2

Sub-division.	Actual temperature.					Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Absolute range during month.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°	°
12. Punjab South-west	107·6	85·7	96·7	21·8	38·5	—0·4	+2·5	—2·9
13. Kashmir	83·9	59·3	71·6	24·6	39·9	+3·4	+5·2	—1·8
14. North-West Frontier Province	107·6	81·1	94·3	26·5	42·5	+0·7	+1·9	—1·2
15. Baluchistan	95·2	67·2	81·2	28·1	47·6	—4·1	—0·9	—3·2
16. Sind	103·2	84·5	93·8	18·8	34·1	+0·2	+1·7	—1·5
17. Rajputana, West	104·2	83·0	93·6	21·2	43·9	—1·7	—1·1	—0·6
18. Do., East	98·9	81·5	90·2	17·4	38·3	—4·8	—1·8	—3·0
19. Gujarat	95·7	80·6	88·2	15·1	26·7	—0·5	+0·3	—0·8
20. Central India, West	92·1	75·0	83·5	17·1	37·0	—4·9	—1·7	—3·2
21. Do. do., East	91·7	77·9	84·8	13·9	35·1	—9·7	—4·7	—5·0
22. Berar	91·4	74·7	83·0	16·7	35·5	—5·0	—1·6	—3·4
23. Central Provinces, West	90·5	75·3	82·9	15·2	37·1	—7·7	—3·1	—4·6
24. Do. do., East	89·1	74·9	82·0	14·3	32·9	—7·4	—3·0	—4·4
25. Konkan	85·1	76·6	80·9	8·5	15·3	—1·6	—1·1	—0·5
26. Bombay Deccan	88·1	71·6	79·8	16·5	27·0	—2·8	—0·6	—2·2
27. Hyderabad, North	90·4	72·4	81·4	18·1	29·9	—4·4	—1·7	—2·7
28. Do., South	92·5	74·8	83·4	18·2	30·1	—4·0	—2·0	—2·0
29. Mysore	80·3	67·3	73·8	13·1	26·7	—3·8	—0·5	—3·3
30. Malabar	83·3	74·2	78·8	9·1	16·9	—1·3	—0·7	—0·6
31. Madras, South-east	95·5	78·2	86·9	17·2	24·5	—0·9	+0·3	—1·2
32. Do., Deccan	95·8	77·4	86·6	18·4	26·2	—1·6	—0·4	—1·2
33. Do. Coast, North	93·0	79·5	86·2	13·5	25·3	—2·3	—1·4	—0·9

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—1·0	—0·7	—0·8
Assam	+1·8	+1·1	+1·5
Bengal	—1·6	—0·5	—1·0
Bihar and Orissa	—4·9	—1·5	—3·2
United Provinces	—5·9	—1·9	—3·9
Punjab	—2·2	+1·6	—0·3
North-West Frontier Province	+0·7	+1·9	+1·3

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	+0·2	+1·7	+0·9
Rajputana	—3·5	—1·5	—2·5
Bombay	—1·5	—0·3	—0·9
Central India	—7·3	—3·2	—5·2
Central Provinces	—7·0	—2·7	—4·8
Hyderabad	—4·2	—1·9	—3·0
Mysore	—3·8	—0·5	—2·1
Madras	—1·4	—0·4	—0·9

Winds.

11. (a) The air movement was distinctly above the normal in the Punjab, Mysore and Madras, and was weaker even than usual in the North-West Frontier Province; elsewhere the velocities did not differ appreciably from the average.

(b) Steadiness was decidedly high in the United Provinces and the Punjab, and low in Bengal and the North-West Frontier Province. It was also appreciably above normal in Bombay and Hyderabad.

(c) The only areas where the mean directions departed to any marked extent from the normal were the United Provinces and Central India East, but the deviations were irregular and therefore of no significance.

TABLE 13.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·5	+ 1
Assam	+0·3	+ 3
Bengal	—0·5	—11
Bihar and Orissa	+0·2	— 1
United Provinces	—0·4	+11
Punjab	+1·0	+13
North-West Frontier Province	—1·0	— 7
Sind	—0·4	+ 6
Rajputana	—0·3	—6
Bombay	—0·3	+10
Central India	0	— 2
Central Provinces	+0·2	— 3
Hyderabad	+0·7	+12
Mysore	+2·0	+ 5
Madras	+1·2	+ 6

Humidity and cloud.

12. The quantity of aqueous vapour in the air was appreciably greater than usual generally in the United Provinces, the east of Central India and of the Central Provinces as well as in the Punjab, the North-West Frontier Province, Kashmir and upper Sind, and was below the normal in the Coromandel coast districts and in Baluchistan; elsewhere it was either up to the average or in slight defect.

Relative humidity was markedly in excess in upper Sind, the east and north Punjab, the south and west of the United Provinces, the east of Central India and the greater part of the Central Provinces, and was almost normal over the rest of the country. The greatest excess occurred in the Simla-Mussooree hills and the east of Central India and of the Central Provinces, where low temperatures coincided with high absolute humidity.

There was considerably more cloud than usual in Tenasserim, lower Bengal, Orissa, Chota Nagpur, north Bihar, the west and south of the United Provinces, the Central Provinces, Central India, Rajputana, the south-east Punjab, the east and north of Hyderabad and along the coasts of the Peninsula, while in Assam and south Bihar the cloud proportion was markedly low.

TABLE 14.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	89	+ 1	·872	—·019	8·3	+0·7
Assam	87	— 3	·915	+·005	6·2	—1·5
Bengal	88	+ 1	·932	—·025	7·8	+0·7
Bihar and Orissa	82	+ 4	·880	—·012	7·1	+1·5
United Provinces	72	+ 8	·856	+·050	5·5	+1·6
Punjab	57	+ 9	·763	+·097	2·5	+0·5
North-West Frontier Province.	51	+ 9	·718	+·114	2·7	+1·2
Sind	70	+ 4	·943	+·071	3·1	0
Rajputana	57	+ 2	·714	—·013	4·4	+1·6
Bombay	78	+ 3	·845	+·004	6·8	+0·6
Central India	75	+11	·772	+·028	7·7	+2·4
Central Provinces	75	+11	·745	+·025	6·9	+1·4
Hyderabad	77	+ 8	·735	+·017	7·0	+1·1
Mysore	84	+ 3	·641	—·013	8·1	+0·1
Madras	73	0	·798	—·030	6·8	+0·6

Rainfall.

13. The first burst of monsoon rainfall on the Malabar coast was reported at the beginning of the month, and by the 3rd the wave of moderately heavy rainfall had reached the latitude of Bombay. The monsoon penetrated inland and gave the first effective fall of the rainy season in the Central Provinces on the 8th.

Over the Bay also the advance of the monsoon occurred during the first week, simultaneously with that over the Arabian Sea, and resulted in a storm which crossed the coast on the 5th, and travelling in a north-westerly direction, disappeared in Bihar on the 6th. Although only of moderate intensity the storm gave moderate to heavy rain on the 4th and 5th in Bengal and on the 5th and 6th in Bihar, where ordinarily the first burst of monsoon rains occurs about the middle of June. The dispersion of the disturbance was followed by an extension of the Bay current up the Gangetic plain into the Punjab for about five days.

Between the 9th and the 11th a storm was generated over the head of the Bay and travelled in a westerly direction to the north of the Central Provinces where it disappeared on the 16th. It was of considerable intensity in the early part of its existence and had the effect of concentrating rainfall along the belt from east Bengal to lower Sind.

During the next eight days the Bay current gave rain chiefly in Burma and north-east India, while the Arabian Sea current was directed largely to the United Provinces and the east of Central India; very heavy rain occurred around Sutna and Allahabad. During the remainder of the month the Arabian Sea current was exceedingly weak and an almost complete break prevailed in the Indian area outside of Burma, north-east India and the west coast.

The month was on the whole one of abundant rainfall, the aggregate quantity received in the plains of India being in excess by 1·9″ or 27 per cent. The local distribution was however rather irregular. Thus the month's total fall was in defect by 16 per cent. in Gujarat, 26 per cent. in Assam, 27 per cent. in the North-West Frontier Province, 32 per cent. in Rajputana, West, and 42 per cent. in Madras South-east, normal in Upper Burma, the Punjab East and North, Sind, the Bombay Deccan and the Madras Deccan; and above the average elsewhere. The excess amounted to about 10½″ or 41 per cent. in Lower Burma, 12″ or 36 per cent. in Malabar, 6″ or 135 per cent. in Central India East, 5½″ or 63 per cent. in Orissa, 5½″ or 113 per cent. in the United Provinces East and 5⅓″ or 21 per cent. in the Konkan. It was also considerable in Bengal, Bihar, the United Provinces West, Central India West, the Central Provinces and Hyderabad South. Rainfall was up to the average in Baluchistan and 63 per cent. in excess in Kashmir.

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	21·0	21·2	17·72	19·24	— 1·52	— 8
2. Lower Burma	26·7	22·5	36·35	25·81	+10·54	+ 41
3. Upper Burma	11·3	10·6	8·11	7·56	+ 0·55	+ 7
4. Assam	14·7	17·7	13·37	18·06	— 4·69	— 26
5. Bengal	16·9	14·0	17·98	14·25	+ 3·73	+ 26
6. Orissa	14·2	10·6	14·58	8·93	+ 5·65	+ 63
7. Chota Nagpur	12·3	9·6	10·06	8·15	+ 1·91	+ 23
8. Bihar	12·2	8·6	11·12	7·80	+ 3·32	+ 43
9. United Provinces, East	8·9	5·5	10·43	4·89	+ 5·54	+113
10. Do. do., West	6·4	4·8	6·21	4·11	+ 2·10	+ 51
11. Punjab, East and North	3·1	2·9	2·19	2·08	+ 0·11	+ 5
12. Do., South-west	1·3	1·4	0·92	0·80	+ 0·12	+ 15
13. Kashmir	4·6	3·8	3·49	2·14	+ 1·35	+ 63
14. North-West Frontier Province	1·7	1·7	0·66	0·90	— 0·24	— 27
15. Baluchistan	0·5	0·5	0·22	0·25	— 0·03	— 12

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
16. Sind	0·6	0·7	0·49	0·52	— 0·03	— 6
17. Rajputana, West	1·6	1·9	0·86	1·26	— 0·40	— 32
18. Do., East	4·6	3·7	3·11	2·48	+ 0·63	+ 25
19. Gujarat	5·4	5·3	4·00	4·78	— 0·78	— 16
20. Central India, West	7·8	5·7	7·42	4·72	+ 2·70	+ 57
21. Do. do., East	9·0	4·9	10·12	4·31	+ 5·81	+ 135
22. Berar	9·1	8·0	9·22	5·67	+ 3·55	+ 63
23. Central Provinces, West	10·6	8·5	10·58	6·90	+ 3·68	+ 53
24. Do. do., East	11·0	9·5	11·14	8·43	+ 2·71	+ 32
25. Konkan	24·8	18·3	30·67	25·30	+ 5·37	+ 21
26. Bombay Deccan	8·5	8·0	4·85	5·18	— 0·33	— 6
27. Hyderabad, North	9·3	7·9	6·37	5·46	+ 0·91	+ 17
28. Do., South	9·4	7·0	6·82	4·31	+ 2·51	+ 58
29. Mysore	8·6	7·1	6·23	4·77	+ 1·46	+ 31
30. Malabar	28·8	22·9	44·93	32·95	+ 11·98	+ 36
31 Madras, South-east	2·1	2·9	0·89	1·53	— 0·64	— 42
32. Do. Deccan	5·2	4·6	2·28	2·51	— 0·23	— 9
33. Do. Coast, North	8·8	6·3	5·76	4·57	+ 1·19	+ 26

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	19·21	14·73	+ 4·48	+ 30
Assam	13·37	18·06	— 4·69	— 26
Bengal	17·98	14·25	+ 3·73	+ 26
Bihar and Orissa	11·74	8·17	+ 3·57	+ 44
United Provinces	8·14	4·47	+ 3·67	+ 82
Punjab	1·88	1·77	+ 0·11	+ 6
North-West Frontier Province	0·66	0·90	— 0·24	— 27

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·49	0·52	— 0·03	— 6
Rajputana	2·43	2·10	+ 0·33	+ 16
Bombay	9·21	8·66	+ 0·55	+ 6
Central India	8·61	4·51	+ 4·10	+ 91
Central Provinces	10·41	7·15	+ 3·26	+ 46
Hyderabad	6·58	4·92	+ 1·66	+ 34
Mysore	6·23	4·77	+ 1·46	+ 31
Madras	6·51	5·41	+ 1·10	+ 20
Mean of India	8·96	7·05	+ 1·91	+ 27

Snowfall.

I.—AFGHANISTAN.

14. No snow fell on the mountains near Kabul.

II.—NORTH-WEST FRONTIER PROVINCE.

(a) *Kurram.*—
(b) *Drosh.*—
(c) *Khyber.*—
(d) *Hazara.*—
} No snowfall occurred on the mountains in these districts.

(e) *Malakand.*—Some snow fell on the higher hills of Dir and Swat Kohistan.

III.—KASHMIR.

(a) *Gulmarg.*—Light snowfall occurred on the surrounding mountains on the 22nd, 23rd and 24th.

(b) *Skardu.*—There was a sprinkling of snow on the higher peaks of the neighbouring mountains on the 23rd, 24th and 30th.

(c) *Srinagar.*—
(d) *Dras.*—
(e) *Kargil.*—
} No snow storms occurred on the hills surrounding these places. At the end of the month a few inches of snow still lay unmelted on the summits of higher mountains around Kargil.

(f) *Leh.*—Snow fell on the neighbouring mountains on the 1st and 2nd.

IV.—PUNJAB.

(a) *Chamba-Dalhousie Range.*—There was a light fall on the 23rd down to 12,000 feet.

Chamba Range.—No snow fell. The *gaddis* found one foot of snow lying on the Balani and Maibla passes.

Bharmaur Range.—Light snow fell on the 22nd and 23rd down to a level of 12,000 feet.

Tisa Range.—No snow fell.

Pangi Range.—Light snow fell on the 22nd and 23rd on the higher mountains down to a level of 11,000 feet.

(b) *Kangra.*—Very light snowfall occurred on the Rohtang pass on the 24th and descended to 12,000 feet on the southern slopes.

(c) *Kilba (Simla Hills).*—On the neighbouring range snow fell on the 7th, 9th, 10th, 14th and 18th down to 11,000 feet at which level the total fall amounted to about 3 inches.

All the passes in the Chini Tahsil are reported to be clear of snow.

V.—UNITED PROVINCES.

(a) *Garhwal.*—Snowfall occurred on the higher peaks in the north of the district on the 12th, 21st and 27th.

(b) *Almora.*—The total snowfall of the month was estimated at 4½ feet in Byans and Malla Darma, 4 feet in Malla Danpur and 1 foot in Chaudas. No snow fell in Malla Johar.

TABLE 17.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nawe pass	12½	17
Lampia "	4	8½
Lipulekh "	2½	6½
Binkaru "	3	13½
Pindari peak	4	2
Kaphini "	4	2
Kuntela "	4	1½

SUMMARY.

15. There were some light local falls of snow, such as usually occur during June, and did not affect the previous accumulations which in general continued below the average depth.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in June, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·500	29·411	·089	29·461	—·088	29·429	88·9	78·7	10·2	95·2	74·3	20·9	85·3	84·9	83·5	—1·0	76·7	80·1	79·7	78·3
	VI.—Punjab.																					
11	Lahore . . .	702	28·731	28·627	·104	28·671	—·102	29·306	105·9	83·5	22·4	112·1	73·9	38·2	95·8	104·9	94·3	+1·3	75·1	79·1	81·0	78·4
	IX.—Rajputana.																					
18	Jaipur . . .	1,481	28·098	27·997	·101	28·046	—·087	29·364	100·3	80·5	19·8	111·0	70·4	40·6	91·0	97·6	89·2	—1·4	72·8	75·8	76·7	75·1
	X.—Bombay.																					
25	Bombay . .	37	29·635	29·566	·069	29·602	—·071	29·579	87·1	79·4	7·7	89·9	76·2	13·7	84·1	84·2	82·1	—0·3	75·3	79·8	79·5	78·2
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·812	26·731	·081	26·778	—·045	29·613	82·0	66·5	15·5	85·7	64·0	20·8	75·8	78·5	72·5	—1·5	65·2	68·2	68·5	67·3
	XV.—Madras.																					
31	Pudukkottai . .	318	29·457	29·341	·116	29·399		29·639	97·8	79·0	19·8	102·1	74·2	27·6	89·9	94·0	87·9			75·3	76·2	
	Madras . .	22	29·691	29·564	·127	29·636	—·063	29·589	99·8	80·5	19·3	104·5	74·6	29·9	91·1	92·3	88·9	+0·5	73·7	76·7	78·3	76·2
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain . . .		22·986	29·240	·046	22·958		22·920	71·7	58·1	13·6	77·3	45·2	32·1	66·0	69·9	64·1			60·3	61·9	
	Katmandu . .	4,388	25·498	25·431	·067	25·461	+·058	25·414	82·8	67·1	15·7	90·4	59·4	31·0	77·1	79·1	74·1	+0·2†	64·9	69·9	71·4	68·7
	Kodaikanal . .	7,688	22·746	22·694	·052	22·720		22·655	63·3	53·0	10·3	67·9	50·7	17·2	60·5	58·7	58·2		49·8	56·0	55·9	53·9
	Extra India.																					
	Seychelles . .	15	29·945	29·869	·076	29·909	—·038†	29·847	82·7	78·1	4·6	84·3	75·0	9·3	81·1	81·9	79·3	+1·7†	71·2	75·8	75·8	74·3
	Mauritius . .	181																				

N.B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

A.

at 11 stations in India, etc., in June, 1916.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·891	·958	·944	·941	—·030	91	79	79	85	+ 2	8·8	9·2	9·1	+1·6	3	1	2	8	10	10	17	5	3	S 5° W	S 3° W	40	59	96	104	16·99	4·73	Calcutta . .	5
																															VI.—Punjab.	
·757	·768	·734	·771	+·144	66	46	34	50	+ 6	0·7	0·2	0·5	—2·4	13	3	4	1	19	4	4	4	8	S 29° E	N 18° E	17	7	60	63	0·56	0·40	Lahore . .	11
																															IX.—Rajputana.	
·711	·705	·660	·699	+·043	69	49	39	54	+ 2	4·3	5·3	4·8	+0·4	0	4	6	5	1	1	14	17	12	N 79° W	N 70° W	43	43	127	119	2·17	0·94	Jaipur . .	18
																															X.—Bombay.	
·818	·968	·946	·925	—·013	82	82	81	84	+ 1	8·9	8·8	8·9	+1·8	0	0	0	1	3	11	10	32	3	S 65° W	S 63° W	70	64	207	266	23·55	6·52	Bombay . .	25
																															XIV.—Mysore.	
·607	·604	·578	·603	—·020	93	68	60	76	+ 2	8·9	8·9	8·9		0	0	0	0	0	0	13	45	2	S 82° W	S 72° W	94	81	258	163	1·50	0·61	Bangalore . .	29
																															XV.—Madras.	
	·676	·660				49	42			5·0	8·4	6·7		9	2	0	0	0	3	18	19	9	S 79° W		65		101		0·54	0·47	Pudukkottai .	31
·737	·722	·776	·762	—·071	72	50	53	60	— 6	5·3	8·2	6·7	+0·5	0	1	0	0	6	5	12	35	1	S 67° W	S 37° W	7	57	145	154	4·22	0·95	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·465	·473				74	66			7·2	6·8	7·0																	13·00	3·10	Sarain.	
·591	·649	·681	·639	—·001	89	71	69	76	0	7·4	7·9	7·7	+1·5	0	0	1	30	0	0	1	27	1	N 78° E	N 87° W	3	20	27	23	9·48	2·71	Katmandu.	
·322	·400	·419	·381		80	77	85	81		7·8	8·9	8·3		0	2	0	2	0	2	4	37	13	N 82° W		78		270		2·30	0·43	Kodaikanal.	
																															Extra India.	
·671	·822	·813	·785	+·094	70	77	74	76	— 3	5·4	6·0	5·7	—1·4†	5	0	0	0	40	13	2	0	0	S 32° E	S 27° E	84	81	202	188	4·29	2·18	Seychelles.	
																															Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 216 stations in India, etc., in June, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.								Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Absolute range during month.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°	°			%		"				"	"	"
Burma	−·056	86·8	−1·0	75·3	−0·7	81·1	−0·8	11·5	20·2	+0·5	+ 1	89	+ 1	·872	−·019	8·3	+0·7	19·21	14·73	+4·48
Assam	−·073	90·1	+1·8	76·6	+1·1	83·4	+1·5	13·5	23·1	+0·3	+ 3	87	− 3	·915	+·005	6·2	−1·5	13·37	18·06	−4·69
Bengal	−·076	88·2	−1·6	77·5	−0·5	82·9	−1·0	10·8	22·0	−0·5	−11	88	+ 1	·932	−·025	7·8	+0·7	17·98	14·25	+3·73
Bihar and Orissa	−·069	90·6	−4·9	77·7	−1·5	84·1	−3·2	12·8	28·3	+0·2	− 1	82	+ 4	·880	−·012	7·1	+1·5	11·74	8·17	+3·57
United Provinces of Agra and Oudh	−·076	95·3	−5·9	80·1	−1·9	87·7	−3·9	15·1	34·1	−0·4	+11	72	+ 8	·856	+·050	5·5	+1·6	8·14	4·47	+3·67
Punjab	−·087	103·7	−2·2	83·3	+1·6	93·5	−0·3	20·5	39·1	+1·0	+13	57	+·9	·763	+·097	2·5	+0·5	1·88	1·77	+0·11
North-West Frontier Province	−·117	107·6	+0·7	81·1	+1·9	94·3	+1·3	26·5	42·5	−1·0	− 7	51	+ 9	·713	+·114	2·7	+1·2	0·66	0·90	−0·24
Sind	−·106	103·2	+0·2	84·5	+1·7	93·8	+0·9	18·8	31·1	−0·4	− 6	70	+ 5	·943	+·071	3·1	0	0·49	0·52	−0·03
Rajputana	−·103	101·0	−3·5	82·1	−1·5	91·5	−2·5	18·9	40·5	−0·3	− 6	57	+ 2	·714	−·013	4·4	+1·6	2·43	2·10	+0·23
Bombay	−·087	94·1	−1·5	76·9	−0·2	84·0	−0·9	14·1	24·4	−0·3	+10	78	+ 3	·845	+·004	6·8	+0·6	9·21	8·66	+0·55
Central India	−·093	91·9	−7·3	76·4	−3·2	84·1	−5·2	15·5	36·1	0	− 2	75	+11	·772	+·028	7·7	+2·4	8·61	4·51	+4·10
Central Provinces	·087	90·3	−7·0	75·1	−2·7	82·7	−4·8	15·2	35·4	+0·2	− 3	75	+11	·795	+·025	6·9	+1·4	10·41	7·15	+3·26
Hyderabad	−·073	91·6	−4·2	73·5	−1·9	82·5	−3·0	18·2	30·0	+0·7	+12	77	+ 8	·735	+·017	7·0	+1·1	6·58	4·92	+1·66
Mysore	−·052	80·3	−3·8	67·3	−0·5	73·8	−2·1	13·1	20·7	+2·0	+ 5	84	+ 3	·641	−·013	8·1	+0·1	6·23	4·77	+1·46
Madras	−·050	92·7	−1·4	77·8	−0·4	85·3	−0·9	15·0	23·6	+1·2	+ 6	73	0	·798	−·030	6·8	+0·6	6·51	5·41	+1·10

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	I.—Burma.																						
2	Victoria Point	147	29·699		29·777	29·846	25th	29·611	12th	·235	78·8	83·6		74·8		79·2		8·8	88·1	7th, 12th & 16th.	72·4	10th & 13th.	13·7
	Mergui	66	29·766	−·035	29·762	29·900	25th	29·661	18th	·239	75·7	81·8	−4·0	71·8	−1·9	76·8	−2·9	10·0	87·4	7th	69·3	26th	18·1
	Tavoy	12	29·799	−·059	29·745	29·917	25th	29·685	12th	·232	76·8	82·4*	−2·2*	72·5*	−0·5*	78·4*	−1·9	7·9	89·0	8th	71·9	29th	17·7
	Moulmein	94	29·699	−·026	29·731	29·839	29th	29·575	12th	·264	75·8	82·3	−2·4	73·5	−1·1	77·9	−1·9	8·8	87·0	8th	71·0	27th	16·0
	Rangoon	18	29·731	−·045	29·686	29·873	27th	29·617	13th	·256	79·0	84·7	−1·6	75·4	−1·2	80·0	−1·4	9·3	88·9	2nd & 22nd.	72·5	25th	16·4
	Bassein	27	29·696	−·058	29·680	29·849	30th	29·575	4th & 18th.	·274	78·1	85·5	−0·8	76·1	−0·4	80·8	−0·6	9·4	89·4	7th	73·9	25th	15·5
	Diamond Island	41	29·672	−·066	29·649	29·834	26th	29·550	3rd	·284	80·8	85·5	0	76·3	+1·5P	81·9	+0·7P	7·2	90·2	7th	73·4	13th	16·8
	Toungoo	164	29·564	−·047	29·571	29·707	30th	29·439	13th	·268	78·6	86·9	−2·1	73·8	−1·6	80·3	−1·9	13·1	92·0	3rd	71·6	27th	20·4
	Kyaukpyu	18	29·611		29·599	29·769	30th	29·497	4th & 13th.	·292	79·3	85·1		76·5		80·8		8·6	93·1	4th	72·4	27th	20·7
	Akyab	20	29·617	−·078	29·578	29·753	26th	29·473	13th	·280	79·4	86·3	+0·4	79·5	−2·4	80·9	−1·0	10·8	91·9	4th	73·0	13th & 26th.	18·9
	Minbu	*165*	29·495	−·067	29·602	29·613	30th	29·324	13th	·289	80·5	91·1	−1·2	77·3	−0·4	84·2	−0·8	13·8	97·8	2nd & 5th.	75·0	27th	22·3
	Yamethin	648	29·018	−·052	29·641	29·186	30th	28·918	13th	·268	78·6	89·2	−1·8	75·0	−0·3	82·1	−1·1	14·8	96·5	3rd	72·0	28th	24·5
	Mandalay	250	29·426	−·049	29·622	29·525	30th	29·305	13th	·220	82·6	94·0	−0·7	77·9	−0·8	85·9	−0·7	16·1	101·7	3rd	75·2	3rd & 10th.	26·5
	Myingyan	*280*	29·377	−·068	29·603	29·573	30th	29·265	13th	·268	81·7	94·1	+0·8	78·8	+0·3	86·2	+0·5	15·3	99·8	3rd	75·6	3rd, 4th & 8th.	24·2
	Lashio	*2,820*	26·901	−·060	26·847	27·014	30th	26·789	13th	·225	73·7	84·1	−0·4	70·3	+0·7	77·2	+0·1	13·8	91·1	3rd	66·8	10th	24·3
	Bhamo	*361*	29·286	−·043	29·557	29·675	30th	29·169	13th	·206	80·0	91·8	+1·0	75·0	+0·2	83·0	+0·6	16·0	96·6	10th	71·4	8th	25·2
	Myitkyina	458	29·165	−·070	29·580	29·851	30th	29·069	13th	·195	78·1	88·7	+1·0	75·7	+0·4	82·2	+0·7	19·0	95·2	10th	73·6	28th	21·6
	II.—Assam.																						
1	Dibrugarh	358	29·280	−·069	29·548	29·873	1st	29·131	23rd	·252	80·2	88·5	+1·4	75·5	+1·6	82·0	+1·5	13·0	96·2	6th	71·1	22nd & 30th.	25·1
	Sibsagar	338	29·294	−·063	29·572	29·848	1st	29·171	13th	·277	81·4	90·0	+1·2	75·3	−1·0P	82·7	+0·1P	14·7	95·8	6th	71·3	14th	24·5
	Tezpur	252	29·346	−·064	29·555	29·494	1st	29·229	23rd	·265	80·2	90·6	+2·1	77·4	+0·8	84·0	+1·5	13·2	95·0	15th	74·0	1st	21·0
	Gauhati	198	29·394	−·076	29·543	29·546	1st	29·267	22nd & 23rd.	·279	82·8	91·3	+2·1	77·5	+1·3	84·4	+1·7	13·8	95·1	15th & 18th.	73·3	3rd	22·8
	Dhubri	115	29·454	−·070	29·527	29·619	1st	29·332	13th	·287	80·6	86·4	+0·5	77·5	+1·4	81·9	+0·9	8·9	91·8	16th	72·0	3rd	19·8
	Silchar	108	29·508	−·075	29·564	29·654	1st	29·356	13th	·298	81·1	92·3	+2·1	77·0	+0·9	84·7	+2·0	15·3	98·2	11th	73·6	19th	24·6
	Srimangal	68	29·500*		29·515*	29·672	1st	29·375	13th	·297	81·1	91·9	+1·8	76·1	+0·7	84·0	+1·3	15·8	97·0	5th	72·8	1st	24·2
	III.—Bengal.																						
5	Cox's Bazar	36	29·573		29·554	29·712	26th	29·114	13th	·298	79·9	85·7		75·7		80·7		10·0	92·3	4th	73·7	5th & 12th.	18·6
	Chittagong	37	29·512	−·072	29·485	29·648	26th & 30th.	29·324	13th	·324	79·4	86·5	−0·9	76·0	−0·9	81·3	−0·6	10·5	91·8	3rd	73·2	24th	18·6
	Noakhali	43	29·511	−·077	29·531	29·696	1st	29·366	13th	·330	80·6	86·5	−0·7	77·7	+0·5	82·1	−0·1	8·8	92·8	5th	75·4	3rd	17·4
	Barisal	12	29·519	−·077	29·508	29·724	1st	29·339	13th	·385	82·1	87·2	−1·6	78·1	−0·1	82·6	−0·9	9·1	91·9	1st	75·0	30th	16·9
	Narayanganj	26	29·529	−·078	29·513	29·699	1st	29·362	13th	·338	88·1	88·2	−0·8	77·6	−0·6	82·9	−0·[illegible]	10·6	94·9	5th	74·9	3rd	20·0
	Mymensingh	68	29·514	−·076	29·529	29·674	1st	29·360	13th	·314	81·5	88·7	+1·3	77·7	+0·8	83·2	+1·4	11·0	94·1	5th	74·1	3rd	20·0
	Bogra	75	29·491	−·067	29·517	29·660	1st	29·331	13th	·329	81·1	88·4	−1·1	77·1	−0·1	82·7	−0·6	11·3	95·1	5th	70·8	1st	24·3
	Dinajpur	123	29·432	−·062	29·500	29·596	1st	29·278	13th	·318	80·8	88·2	−1·2	77·3	+0·2	82·9	−0·9	11·0	95·5	5th	70·5	3rd	25·0
	Jalpaiguri	283	29·296	−·057	29·535	29·461	1st	29·179	23rd	·282	78·8	89·1	+0·8	75·2	−0·5	82·2	+0·1	13·9	96·2	5th	70·3	3rd	25·9
	Saugor Island	10	29·520	−·073	29·475	29·700	1st	29·267	13th	·433	83·0	87·5	−3·0	78·5	−3·1	83·0	−3·1	9·0	92·8	5th	73·6	3rd	19·2
	Midnapore	149	29·368	−·082	29·459	29·842	1st	29·180	13th	·462	82·6	89·0	−4·2	76·6	−0·4	84·3	−2·3	11·3	97·4	5th	74·7	3rd	22·7
	Calcutta	21	29·501	−·084	29·470	29·684	1st	29·247	13th	·437	82·0	89·1	−2·4	78·5	−0·3	83·8	−1·3	10·6	95·2	2nd	74·3	29th	20·9

* Mean of 20 days.

N. B.—Elevations in italics indicate barometrical determinations.

B.

at 216 stations in India, etc., in June, 1916.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																I.—Burma.
6	0	1	2	6	5	7	5	0	S 13° W		5·6			42		87		·856		8·0		25			29·26			41·46			3·08	Victoria Point.
19	0	0	3	6	0	1	0	1	S 54° E	S 79° W	2·2	1·3	+0·9	27	−20	98	+ 6	·872	−·096	8·8	+2·6	28	24·2	+3·7	36·38	29·29	+ 7·09	44·28	47·49	− 3·21	6·66	Mergui.
12	1	1	0	7	8	1	0	0	S 22° E	S 55° W	2·6	1·5	+1·1	43	+28	94	+ 2	·868	−·019	8·9	+1·6	29	25·6	+3·4	68·76	42·67	+26·09	78·44	68·16	+10·28	7·10	Tavoy.
0	0	1	0	13	10	3	2	1	S 14° E	S 14° E	9·7	2·7	+7·0	69	+17	96	+ 4	·859	−·029	10·0	+1·8	30	25·8	+4·2	56·53	35·52	+21·01	66·26	56·41	+ 9·85	8·00	Moulmein.
2	1	0	1	8	14	3	1	0	S 9° E	S 37° W	4·6	3·7	+0·9	69	+ 2	92	0	·906	−·022	9·8	+1·1	27	22·8	+4·2	25·86	17·57	+ 8·29	34·81	29·80	+ 5·01	4·83	Rangoon.
9	0	0	0	1	13	4	3	0	S 17° W	S 13° W	3·8	3·4	+0·4	59	0	93	+ 1	·927	−·016	8·5	+1·2	28	23·8	+4·2	35·50	22·99	+12·51	46·57	33·26	+13·31	5·02	Bassein.
1	1	0	0	2	12	4	1	0	S 38° W	S 39° W	10·0	7·0	+3·0	69	− 1	87	+ 3	·910	−·011	7·5	−0·6	26	21·0	+5·0	34·65	23·77	+10·88	40·17	34·93	+ 5·24	5·08	Diamond Island.
2	0	0	0	11	14	2	0	0	S 14° E	S 32° E	3·6	3·7	−0·1	82	− 3	91	+ 2	·881	−·046	9·2	+0·3	25	20·7	+4·3	14·39	14·35	+ 0·04	30·69	21·33	− 0·44	1·61	Toungoo.
4	0	0	1	21	4	0	0	0	S 40° E		4·2			78		91		·913		9·2		25			49·62			64·95			4·58	Kyaukpyu.
2	1	1	3	12	4	8	1	0	S 26° E	S 48° E	4·8	2·8	+2·0	56	+ 4	93	+10	·931	−·040	8·2	−0·5	28	23·9	+4·1	62·05	45·06	+16·98	74·55	56·68	+17·87	5·65	Akyab.
1	0	0	21	9	2	0	0	0	S 36° E	S 48° E	4·9	8·5	−3·6	82	+11	83	0	·856	−·031	7·2	+0·6	9	9·8	−0·8	5·29	5·55	− 0·26	9·20	10·55	− 1·35	1·77	Minbu.
2	0	0	1	15	11	1	0	0	S 26° E	S 29° E	3·3	7·2	−3·9	82	− 4	84	+ 1	·825	−·026	7·0	+0·2	17	8·8	+8·2	7·43	5·09	+ 2·34	12·63	11·24	+ 1·37	1·77	Yamethin.
11	0	0	0	12	6	1	0	0	S 27° E	S 1° W	5·4	6·4	−1·0	56	−16	83	+ 7	·913	+·049	4·1	−1·5	8	7·0	+1·0	6·28	5·38	+ 0·90	8·88	11·03	− 2·15	1·50	Mandalay.
1	0	0	2	24	3	0	0	0	S 44° E		3·8			92		79	− 2	·845	−·044	9·3	+1·1	6	5·9	+0·1	9·86	4·63	+ 5·23	13·13	10·57	+ 2·56	5·11	Monywa.
5	1	3	1	0	3	16	1	0	S 39° W		3·3			96		84	− 3	·693	−·037	8·8	+0·5	9	15·0	−7·0	4·45	10·37	− 6·42	8·03	16·92	− 8·89	1·05	Lashio.
24	2	2	0	0	0	1	0	1	N	N 81° W	0·7	1·8	−1·1	11	+ 1	89	− 1	·901	+·009	8·1	+0·3	13	19·1	−6·1	13·09	14·41	− 1·32	16·78	20·21	− 3·43	4·45	Bhamo.
27	0	0	0	0	2	1	0	0	S 15° W		1·5			10		90	0	·865	−·001	8·3	−0·7	19	19·6	−0·6	16·70	13·91	+ 2·79	26·54	19·33	+ 7·21	3·55	Myitkyina.
																																II.—Assam.
12	0	0	5	1	1	0	4	0	N 59° E		1·3			23		83	− 4	·900	+·026	5·5	−2·3	19	20·1	−1·1	20·44	18·97	+ 1·47	38·29	28·19	+10·20	6·36	Dibrugarh.
5	0	3	0	0	3	5	9	3	N	N 79° E	3·4	2·0	+1·4	24	− 1	85	− 7	·905	−·028	6·8	−1·9	11	17·0	−6·0	14·00	14·20	− 0·20	26·59	25·97	+ 0·62	3·59	Sibsagar.
24	0	2	3	0	0	0	1	0	N 67° E		3·6			19		89	− 2	·915	+·011	6·2	−1·2	13	16·1	−3·1	13·99	11·35	+ 2·63	29·56	19·60	+ 4·95	2·88	Tezpur.
25	0	1	2	0	0	0	1	1	N 38° E		1·3			3		83	− 7	·916	+·006	6·8	−1·3	12	16·6	−4·6	6·96	14·73	− 7·77	12·77	24·18	−11·41	1·84	Gauhati.
6	0	3	7	3	4	2	0	0	S 81° E	N 77° E	4·2	4·2	0	43	− 1	89	− 2	·926	+·020	7·9	0	16	18·2	−2·2	11·62	24·20	−12·58	25·61	39·14	−13·53	2·67	Dhubri.
25	0	1	4	0	0	0	0	0	N 81° E	N 85° E	1·4	2·0	−0·6	17	+12	84	− 1	·927	+·004	5·8	−2·1	12	21·1	−9·1	11·64	22·27	−10·63	23·54	37·49	−13·95	2·39	Silchar.
																87	− 1	·916	−·005	4·6		16	20·6	−4·0	10·16	17·30	− 7·14	19·61	30·29	−15·68	2·85	Srimangal.
																																III.—Bengal.
4	0	0	2	17	5	1	0	0	S 39° E		4·2			72		91		·924		8·0		20			19·59			56·74			5·85	Cox's Bazar.
8	0	0	10	10	1	0	1	0	S 63° E	S 44° E	2·3	5·1	−2·8	59	−15	90	+ 4	·905	−·010	8·4	+1·1	19	16·0	+3·0	25·42	20·39	+ 5·03	29·57	29·70	− 0·13	3·58	Chittagong.
6	0	1	1	18	4	0	0	0	S 41° E		3·7			70		89	+ 1	·827	−·028	6·7	+1·0	19	18·4	+0·6	21·60	20·98	+ 0·62	24·01	32·64	− 8·63	3·86	Noakhali.
10	0	2	1	5	9	3	0	0	S 16° E	S 17° E	1·9	3·2	−1·3	46	+ 5	88	+ 1	·864	−·027	8·7	+1·3	21	16·6	+4·4	18·96	15·38	+ 3·58	25·07	24·27	+ 0·80	3·38	Barisal.
1	0	0	3	12	10	2	1	0	S 22° E	S 32° E	3·4	5·5	−2·1	72	+ 2	86	− 3	·839	−·043	8·4	0	19	14·2	+4·8	11·21	12·62	− 1·41	14·47	21·56	− 7·09	2·89	Narayanganj.
11	0	0	9	7	2	0	0	0	S 59° E	S 61° E	2·6	2·9	−0·3	53	−14	89	0	·849	+·012	8·9	+1·0	17	18·3	−1·3	13·38	18·14	− 4·76	16·27	31·77	−15·50	3·34	Mymensingh.
11	0	2	7	3	5	2	0	0	S 52° E	S 68° E	1·3	2·9	−1·6	37	−30	90	+ 3	·867	+·019	7·5	+0·9	17	14·3	+2·7	14·84	13·23	+ 1·61	17·12	21·57	− 4·44	3·10	Bogra.
3	0	5	12	6	2	1	0	0	S 77° E	S 78° E	3·8	3·2	+0·6	62	−12	88	− 1	·926	−·003	7·3	−0·6	17	13·7	+3·3	22·03	12·69	+ 9·34	26·64	21·18	+ 5·46	7·72	Dinajpur.
21	0	1	2	4	2	0	0	0	S 53° E	S 86° E	2·0			23	−35	92	+ 3	·909	+·009	6·2	+0·5	22	17·9	+4·1	25·30	23·63	+ 2·12	35·32	35·07	+ 4·25	5·27	Jalpaiguri.
0	2	1	1	1	9	16	5	1	S 38° W	S 11° W	10·2	7·5	+2·7	53	− 6	86	+ 3	·869	−·058	8·2	+0·1	17	11·9	+5·1	21·00	10·53	+10·47	24·06	15·01	+ 9·05	3·75	Saugor Island.
7	0	2	4	4	7	5	1	0	S 18° E		3·1			45		83	+ 1	·924	−·021	7·0	+2·6	15	12·7	+2·3	17·57	8·74	+ 7·83	19·95	14·79	+ 5·16	4·65	Midnapore.
5	0	0	4	5	3	16	2	1	S 10° W	S 4° E	3·9	4·3	−0·4	43	− 5	87	+ 2	·950	−·021	8·5	+1·3	17	12·8	+4·2	16·99	11·43	+5·56	20·85	17·17	+ 3·68	4·73	Calcutta.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	III.—Bengal—*concld.*																						
	Jessore	30	29·516	−·010	29·492	29·708	1st	29·295	13th	·413	81·9	88·5	−2·4	77·9	−0·8	83·4	−1·6	11·0	96·8	5th	70·2	25th	26·6
	Burdwan	99	29·418	−·082	29·463	29·601	1st	29·159	13th	·442	81·4	89·8	−3·9	77·8	−1·4	83·8	−2·7	12·0	100·6	5th	73·8	3rd	26·8
	Berhampore	67	29·463	−·076	29·479	29·651	1st	29·231	13th	·420	81·2	90·0	−2·4	78·5	+0·1	84·2	−1·1	11·5	100·7	2nd	74·1	3rd	26·6
	IV.—Bihar and Orissa.																						
6	Balasore	50	29·496	−·053	29·491	29·679	1st	29·239	14th	·440	81·5	89·5	−3·6	77·3	−1·7	83·4	−2·7	12·2	96·5	5th	71·9	2nd	24·6
	Hukitala (False Point)	29	29·520	−·070	29·490	29·682	30th	29·254	14th	·428													
	Cuttack	80	29·473	−·058	29·494	29·639	30th	29·189	14th	·450	82·5	92·3	−3·5	78·9	−1·2	85·6	−2·3	13·4	101·5	5th	75·2	28th & 29th.	26·3
	Puri	24	29·528	−·070	29·493	29·689	30th	29·263	14th	·426	83·6	88·4	−0·8	80·5	−0·4	84·5	−0·6	7·9	93·5	20th	74·9	26th	18·6
	Angul	455	29·081	−·069	29·479	29·225	1st	28·777	14th	·448	81·4	90·6	−4·6	77·3	−1·2	83·9	−2·9	13·3	100·0	6th	74·1	24th & 28th.	25·9
	Sambalpur	486	29·047	−·077	29·479	29·214	1st	28·734	14th	·480	80·4	89·7	−8·2	77·2	−3·8	83·4	−6·0	12·5	102·2	5th	69·2	25th	33·0
7	Chaibasa	*733*	28·770	−·094	29·446	28·963	1st	28·501	14th	·462	81·7	90·9	−3·4?	77·8	+0·3?	84·3	−1·5?	13·1	103·1	5th	74·8	12th, 24th & 26th.	28·3
	Ranchi	2,128	27·422	−·072	29·443	27·609	1st	27·212	13th	·397	76·3	84·4	−7·9	73·2	−2·3	78·8	−5·1	11·2	94·9	5th	67·4	25th	27·5
	Purulia	*816*	28·708*	−·058*	29·465*	28·903	1st	28·424	14th	·479	81·1	91·6	−5·8	76·6	−2·2	84·1	−4·0	15·0	102·1	5th	71·1	25th	31·0
	Daltonganj	*730*	28·740	−·104?	29·412	28·923	1st	28·570	24th	·353	82·8	93·6	−7·2	78·2	−2·9	85·9	−5·1	15·4	105·0	5th	73·4	26th	31·6
8	Purnea	124	29·444	−·046?	29·522	29·638	1st	29·291	13th	·344	80·1	89·1	−2·8	77·5	+0·1	83·3	−1·3	11·6	99·8	5th	72·0	3rd	27·8
	Monghyr	155	29·345		29·452	29·538	1st	29·190	13th	·348	81·9	90·9		77·7		84·3		13·2	102·2	5th	72·9	2nd	29·3
	Darbhanga	165	29·358	−·076	29·477	29·545	1st	29·189	24th	·356	81·4	90·8	−1·6	77·8	−1·2	84·3	−1·4	13·0	101·0	5th	73·1	3rd	27·9
	Pusa	188	29·333		29·475	29·526	1st	29·193	23rd	·333	81·9	91·8		76·3		84·0		15·5	104·1	5th	71·9	3rd	32·2
	Patna	183	29·310	−·087?	29·446	29·496	1st	29·149	23rd	·347	83·3	90·8	−5·5	79·1	−0·9	85·0	−3·2	11·7	103·0	5th	75·5	26th	27·5
	Buxar	239	29·250	−·077	29·442	29·459	1st	29·109	23rd	·350	83·0	92·4	−5·8	79·5	−1·2	85·9	−3·5	12·9	104·9	6th	75·8	7th	29·1
	Gaya	372	29·129	−·069	29·448	29·320	1st	28·964	23rd	·358	84·0	92·5	−7·8	78·5	−2·2	85·5	−4·7	14·0	104·7	5th	73·6	24th	31·1
	Naya Dumka	489	29·031	−·070	29·468	29·225	1st	28·799	13th	·426	82·2	90·2	−3·5	78·0	−0·3	84·1	−1·9	12·2	102·8	5th	74·2	3rd	28·6
	V.—United Provinces of Agra and Oudh.																						
9	Gorakhpur	257	29·249	−·072	29·482	29·454	1st	29·136	23rd	·318	83·0	92·2	−4·8	78·8	−0·6	85·5	−2·7	13·4	104·1	6th	75·1	28th	29·0
	Benares	267	29·221	−·072	29·439	29·430	1st	29·073	24th	·357	84·4	93·0	−7·8	75·5	−2·5	86·3	−5·1	13·5	105·2	6th	75·7	22nd	29·5
	Allahabad	309	29·169	−·079	29·430	29·352	1st	29·054	22nd	·298	84·8	94·9	−8·6	79·3	−3·6	86·7	−6·1	14·7	107·4	6th	75·1	22nd	32·3
	Cawnpore	416	29·079	−·060	29·446	29·274	1st	28·934	22nd	·340	83·7	93·8	−7·9	79·3	−3·1	86·6	−5·5	14·5	106·6	6th	73·3	1st	34·3
	Lucknow	368	29·119	−·070	29·439	29·306	1st	29·002	22nd	·304	85·6	95·5	−6·0	80·5	−1·0	88·0	−3·5	15·0	108·9	6th	77·2	26th	31·7
	Bahraich	407	29·090	−·074	29·451	29·307	1st	28·968	21st	·339	84·7	93·7	−4·8	79·7	−0·1	86·7	−2·5	14·0	105·7	6th	70·3	2nd	35·4
10	Jhansi	824	28·656	−·110	29·422	28·843	1st	28·560	23rd	·283	84·1	96·1	−7·7	79·5	−5·5	87·8	−6·6	16·6	110·3	7th	73·8	17th & 26th.	36·5
	Agra	556	28·915	−·089	29·414	29·131	1st	28·777	22nd	·354	90·7	100·8	−3·6	83·9	−1·0	92·4	−2·3	16·9	111·7	7th	75·4	20th	36·3
	Mainpuri	516	28·959	−·081	29·423	29·153	1st	28·620	22nd	·333	87·5	100·1	−3·5	82·1	−0·6	91·1	−2·1	18·0	111·4	7th	75·8	26th	35·6
	Bareilly	568	28·926	−·066	29·445	29·157	1st	28·797	22nd	·360	85·4	95·5	−4·8	79·5	−0·7	87·5	−2·7	16·0	108·3	6th	67·4	1st	40·9
	Roorkee	899	28·501	−·063	29·450	28·759	1st	28·459	22nd	·340	83·5	93·2	−7·5?	79·2	+0·3	86·2	−3·6?	14·0	106·4	6th	73·0	9th	33·4
	VI.—Punjab.																						
1	Delhi	718	28·769	−·069	29·435	28·988	1st	28·617	22nd	·371	87·0	99·0	−4·6	83·1	−0·7	91·0	−2·7	15·9	109·2	7th	73·7	1st	35·5
	Hissar	725	28·728	−·081	29·395	28·951	1st	28·573	22nd	·378	90·7	105·5	−1·4	84·5	+0·9	95·0	−0·3	21·0	113·8	th	73·7	1st	40·1

* Mean of 28 days.

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 216 stations in India, etc., in June, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity: Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness: Actual percentage.	Departure from normal.	Hygrometry, 8 hrs.: Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud: Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall: Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																III.—Bengal—*concld.*
17	0	1	1	6	5	0	0	0	S 75° E	S 27° E	3·7	3·3	+0·4	37	−15	85	− 3	·920	−·085	8·3	+0·7	16	14·2	+ 1·8	10·47	12·33	− 1·86	14·21	20·38	− 6·17	2·39	Jessore.
10	1	1	3	4	8	3	0	0	S 22° E	S 4° E	1·7	3·6	−1·9	40	− 4	86	+ 3	·910	−·040	8·2	+0·7	13	12·4	+ 0·6	16·86	9·59	+ 7·27	17·74	15·95	+ 1·79	4·17	Burdwan.
3	0	5	5	6	7	4	0	0	S 43° E	S 36° E	4·2	3·4	+0·8	49	− 3	87	0	·916	−·051	7·3	−0·6	15	11·8	+ 3·2	12·40	9·33	+ 3·07	13·00	14·57	− 1·57	3·32	Berhampore.
																																IV.—Bihar and Orissa.
2	1	1	1	1	12	11	1	0	S 19° W	S 32° W	3·6	5·3	−1·7	66	+ 7	86	+ 5	·923	−·029	6·3	+1·0	16	11·1	+ 4·9	12·58	9·66	+ 2·92	16·57	14·41	+ 2·16	1·69	Balasore.
1	1	0	0	0	8	15	2	3	S 43° W		12·6*			69	+ 2					7·1	−0·7†	12	9·7	+ 2·3	13·32	8·42	+ 4·90	14·74	12·77	+ 1·97	2·70	Hukitala (False Point).
16	0	0	0	0	2	7	5	0	S 55° W	S 47° W	2·2	2·9	−0·7	40	−19	82	+ 4	·910	−·014	7·5	+0·6	16	11·3	+ 4·7	20·02	9·84	+10·18	22·68	13·83	+ 8·85	2·70	Cuttack.
3	2	0	0	0	5	11	8	1	S 60° W		12·8			67		84	− 1	·965	−·037	8·0	+1·8	11	7·6	+ 3·4	9·42	7·03	+ 2·39	9·93	9·76	+ 0·17	2·04	Puri.
15	0	2	0	3	0	2	6	2	S 82° W		4·0			23		80	+ 2	·867	−·012	7·8	+2·1	15	13·6	+ 1·4	12·44	8·09	+ 4·35	13·71	9·63	+ 4·08	2·18	Angul.
0	1	2	3	0	3	16	4	1	S 46° W	S 23° W	3·9	3·8	+0·1	49	− 9	81	+12	·829	−·010	9·0	+2·6	16	10·7	+ 5·3	19·23	10·36	+ 8·87	19·97	11·67	+ 8·30	4·60	Sambalpur.
11	0	1	0	1	1	13	3	0	S 47° W	S 52° W	3·3	2·1	+1·2	49	+ 8	77	− 1	·826	−·020	7·8	+2·3	10	11·2	− 1·2	10·31	8·46	+ 1·85	12·01	11·80	+ 0·21	2·82	Chaibasa.
0	2	2	4	2	5	7	5	3	S 42° W	S 42° W	4·6	6·4	−1·8	27	−17	85	+13	·769	+·029	8·3	+2·5	16	11·6	+ 4·4	8·18	9·13	+ 0·05	13·44	11·42	+ 2·02	2·83	Ranchi.
10	4	1	0	6	2	4	1	2	S 87° W		1·7			4		81	+ 2	·861	−·018	8·3	+3·3	13	10·1	+ 2·9	9·65	7·42	+ 2·43	10·47	10·16	+ 0·31	2·54	Purulia.
8	3	3	0	2	4	5	4	1	S 59° W		4·0			20		72	+ 6	·795	−·009	5·3	+1·2	12	8·8	+ 3·2	9·76	5·67	+ 4·09	9·79	6·18	+ 3·61	2·40	Daltonganj.
1	1	10	9	6	1	0	0	2	N 77° E	N 81° E	3·4	2·9	+0·5	62	− 4	93	+ 6	·949	+·017	9·1	+2·6	15	11·8	+ 3·2	12·27	11·07	+ 1·20	14·31	15·52	− 1·21	3·40	Purnea.
2	0	3	14	8	0	1	1	1	S 81° E		7·0			63		82		·297		7·5		13			8·96			9·03			1·65	Monghyr.
3	0	1	25	0	0	0	1	0	N 88° E	S 75° E	6·5	4·4	+2·1	82	+ 5	85	+ 2	·898	−·029	7·8	+2·2	8	9·0	− 1·0	6·11	8·29	− 2·18	6·49	11·15	− 4·66	1·61	Darbhanga.
1	1	2	18	4	1	0	1	0	S 87° E†		3·7			70		85		·917		7·8		12			9·67			10·04			2·31	Pusa.
1	0	1	24	1	1	1	1	0	S 86° E	S 87° E	6·2*	4·1	+2·1	79	+16	80	+ 3	·904	−·014	8·2	+2·8	12	7·7	+ 4·3	11·31	7·87	+ 3·44	11·46	9·53	+ 1·93	7·37	Patna.
2	0	8	10	5	0	2	3	0	N 86° E		5·3			50		78	+ 7	·879	+·024	7·4	+2·5	7	7·4	− 0·4	6·95	5·32	+ 1·63	7·35	5·99	+ 1·36	2·32	Buxar.
2	3	7	3	7	0	7	0	1	S 81° E	S 66° E	4·0	3·6	+0·4	23	0	77	+ 4	·887	−·027	3·3	−1·8	15	7·9	+ 7·1	14·36	7·26	+ 7·10	14·63	8·29	+ 6·34	3·60	Gaya.
12	0	4	5	1	5	2	0	1	S 60° E		3·3			27		81	+ 1	·876	−·024	2·1	−3·5	16	11·7	+ 4·3	16·89	9·45	+ 7·44	16·89	12·72	+ 4·17	3·76	Naya Dumka.
																																V.—United Provinces of Agra and Oudh.
7	0	0	23	0	0	0	0	0	E	N 81° E	2·6	2·3	+0·3	77	+27	79	+ 1	·892	−·018	3·9	−0·9	9	8·5	+ 0·5	8·20	7·96	+ 0·34	8·99	9·38	− 0·39	2·60	Gorakhpur.
2	3	3	5	8	1	3	2	3	S 77° E	S 89° E	3·4	3·8	−0·4	23	+ 3	76	+ 8	·891	+·041	7·5	+2·7	9	6·0	+ 3·0	6·33	5·19	+ 1·74	7·17	5·70	+ 1·47	1·62	Benares.
8	1	2	11	0	0	3	4	1	N 80° E	N 46° E	4·1	5·8	−1·7	20	+ 7	71	+11	·831	+·038	7·5	+2·6	10	5·4	+ 4·6	20·73	4·92	+15·81	20·76	5·18	+15·58	6·93	Allahabad.
4	0	2	11	5	4	2	2	0	S 58° E	S 59° E	2·8	4·0	−1·2	46	+24	79	+18	·887	+·103	3·3	−0·2	9	4·7	+ 4·3	14·21	3·21	+11·70	15·09	3·49	+11·60	5·25	Cawnpore.
11	0	0	12	2	3	2	0	0	S 61° E	S 89° E	1·3	3·1	−1·8	43	+ 7	74	+ 9	·904	+·091	6·7	+2·2	8	5·7	+ 2·3	8·12	4·65	+ 3·47	8·16	5·53	+ 2·63	2·72	Lucknow.
8	2	0	15	5	0	0	0	0	S 88° E	S 69° E	3·2	3·6	−0·4	62	+ 2	71	− 3	·831	−·066	3·5	−0·2	5	7·3	− 2·3	1·79	6·27	− 4·48	2·18	7·80	− 5·62	0·46	Bahraich.
2	1	2	5	2	1	13	4	0	S 30° W	N 89° W	5·9	4·0	+1·9	33	+ 2	67	+11	·763	−·016	5·1	+2·1	9	5·8	+ 3·2	6·72	4·87	+ 1·86	6·73	5·22	+ 1·51	2·39	Jhansi.
2	2	3	6	5	4	5	2	1	S 41° E	S 16° W	5·0	4·7	+0·3	27	+ 1	55	+ 1	·778	+·037	6·5	+3·3	3	4·0	− 1·0	2·94	2·51	+ 0·43	3·05	2·99	+0·06	1·78	Agra.
3	1	0	9	9	4	1	3	0	S 49° E	N 80° E	2·3	2·1	+0·2	53	+37	66	+ 7	·844	+·066	4·5	0	5	4·4	+ 0·6	2·93	2·94	− 0·01	2·93	3·27	− 0·34	1·67	Mainpuri.
13	0	1	9	4	2	0	0	1	S 74° E	S 56° E	1·2	3·1	−1·9	40	− 1	80	+13	·960	+·149	7·3	+3·7	6	5·4	+ 0·6	7·69	5·42	+ 2·27	7·79	6·12	+ 1·67	4·06	Bareilly.
10	0	2	2	15	0	0	0	1	S 57° E	S 41° E	2·9	2·6	+0·3	49	+ 8	74	+15	·825	+·126	5·2	+2·1	6	5·5	+ 0·5	7·50	5·10	+ 2·40	8·65	5·93	+ 2·72	3·52	Roorkee.
																																VI.—Punjab.
2	0	2	5	16	1	0	2	2	S 56° E	S 44° E	5·7	3·6	+2·1	53	+40	64	+11	·800	+·098	4·5	+0·5	4	4·2	− 0·2	2·12	3·10	− 0·95	2·12	3·73	− 1·61	0·75	Delhi.
1	1	1	5	9	2	7	4	0	S 15° E	S 27° W	6·7	5·2	+1·5	37	+11	50	+ 1	·704	0	3·7	+0·9	2	2·9	− 0·9	1·07	1·65	− 0·58	2·87	2·26	+ 0·61	0·83	Hissar.

* Mean of 29 days.
† 2 winds variable.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	VI.—Punjab—*concld.*																						
	Patiala	*818*	28·646	—·091	29·413	28·882	1st	28·473	22nd	·409	85·9	98·4	—4·1	81·9	+1·0	90·1	—1·5	16·5	106·2	28th	72·0	1st	34·2
	Ambala	892	28·588	—·073	29·427	28·917	1st	28·433	22nd	·384	85·7	97·6	—5·4	80·2	0	88·9	—2·7	17·4	108·7	6th	71·3	1st	37·4
	Ludhiana	812	28·655	—·071	29·411	28·931	1st	28·484	22nd	·397	87·0	101·7	—3·4	82·4	+1·3	92·1	—1·1	19·3	109·7	28th	71·4	1st	38·3
	Lahore	702	28·731	—·089	29·384	28·969	1st	28·562	21st	·407	89·2	105·1	—2·3	83·2	+3·1	94·2	+0·4	21·9	112·1	7th	69·3	1st	42·8
	Sialkot	830	28·612	—·087	29·390	28·834	1st	28·448	22nd	·386	88·6	102·5	—3·4	82·1	+1·2	92·3	—1·1	20·4	113·7	7th	70·5	23rd	43·2
	Rawalpindi	1,674	27·799	—·097	29·367	28·001	1st	27·642	21st	·359	90·3	104·6	+1·1	78·8	+3·4	91·7	+2·3	25·8	113·5	30th	69·6	3rd	43·9
12	Khushab	612	28·811*	—·098*	29·376*	29·043	1st	28·618	21st	·425	89·9	106·4	—1·1	83·7†	+1·3†	95·0†	+0·1	22·7	111·2	8th	73·2	10th & 11th,	38·0
	Lyallpur	605	28·808		29·362	29·028	1st	28·627	21st	·401	90·9	106·6		85·0		95·8		21·6	115·3	8th	76·8	12th	39·0
	Montgomery	558	28·853	—·097	29·362	29·037	1st	28·688	22nd	·399	92·4	108·0	—1·1	86·8	+2·9	97·4	+0·9	21·2	117·2	9th	79·3	12th	37·9
	Multan	426	28·965	—·106	29·340	29·185	1st	28·760	22nd	·425	93·0	109·3	+1·0	87·5	+3·3	98·4	+2·1	21·8	119·3	9th	80·3	11th	39·0
	VII.—North-West Frontier Province.																						
14	Peshawar	1,113	28·328	—·113	29·376	28·544	1st	28·161	21st	·383	88·9	109·3	+3·4	78·4	+1·1	93·8	+2·3	30·9	116·7	8th	72·1	12th	44·6
	Dera Ismail Khan	590	28·808	—·121	29·351	29·026	1st	28·635	21st	·391	91·3	105·9	—2·0	83·9	+2·8	94·9	+0·4	22·0	115·2	8th & 9th	74·8	11th	40·4
	VIII.—Sind.																						
16	Jacobabad	186	29·219	—·097	29·358	29·395	1st	29·046	22nd	·349	94·6	113·7	—0·2	83·0	+3·7	100·3	+1·7	25·7	120·1	9th	83·6	23rd	36·5
	Hyderabad	96	29·336	—·116	29·383	29·535	1st	29·188	22nd	·347	87·0	103·1	+0·9	82·5	+0·8	93·8	+0·9	24·6	116·9	8th	77·5	17th	39·4
	Karachi	13	29·471	—·106	29·435	29·665	1st	29·324	23rd	·341	85·4	90·9	—0·1	82·9	+0·5	88·9	+0·2	8·0	105·4	8th	79·0	17th	26·4
	IX.—Rajputana.																						
17	Bikaner	*771*	28·692	—·092	29·403	28·874	1st	28·558	22nd	·316	90·2	106·4	—0·7	84·1	—1·4	95·3	—1·1	22·3	118·4	9th	70·9	1st	47·5
	Jodhpur	780	28·704	—·116	29·424	28·878	1st	28·574	22nd	·304	86·8	102·0	—2·6	81·9	—0·8	91·9	—1·7	20·1	113·6	8th	73·3	2nd	40·3
18	Jaipur	1,431	28·080	—·093	29·434	28·279	1st	27·975	22nd	·304	86·4	100·3	—3·7	80·5	—1·2	90·4	—2·5	19·8	111·0	8th	70·4	2nd	40·6
	Ajmer	1,611	27·912	—·110	29·429	28·078	1st	27·803	22nd	·275	83·9	96·6	—4·4	81·1	—0·6	88·8	—2·5	15·5	107·4	8th	72·8	2nd	34·6
	Kotah	832	28·660	—·105	29·429	28·832	1st	28·560	11th	·272	87·5	99·7	—6·3	82·9	—3·5	91·3	—4·9	16·8	113·2	8th	73·6	3rd	39·6
	X.—Bombay.																						
19	Deesa	466	29·031	—·108	29·498	29·246	1st	28·961	9th	·285	85·4	101·7	—0·6	81·0	+0·5	91·4	—0·1	20·7	111·9	8th	73·2	5th	38·7
	Bhuj	334	29·193	—·107	29·473	29·375	1st	29·070	22nd	·305	85·7	96·4	—1·1	80·6	+0·8	88·5	—0·1	15·8	104·6	7th	75·7	10th	28·9
	Jamnagar	61	29·489	—·113	29·495	29·679	1st	29·374	10th	·305	87·4	95·3	—0·9	81·0	+0·9	88·2	0	14·3	102·1	10th	74·7	17th	27·4
	Dwarka	37	29·529	—·106	29·512	29·708	1st	29·413	10th	·295	84·3	89·2	+0·2	82·4	+0·5	85·8	+0·3	6·8	91·6	7th	80·2	18th	11·4
	Rajkot	429	29·139	—·099	29·510	29·315	1st	29·038	10th & 2nd.	·277	84·8	98·9	—1·0	78·4	+0·6	88·6	—0·2	20·5	104·6	1st & 6th	74·0	17th	30·6
	Veraval	*18*	29·584	—·087	29·545	29·747	1st	29·276	10th	·271	83·5	86·0	—0·4	82·0	+0·8	84·0	+0·2	4·0	87·3	7th	78·5	8th	8·8
	Bhavnagar Pass	55	29·530	—·105*	29·531	29·700	1st	29·414	11th	·286	85·7	100·9	+1·1	80·3	0	90·6	+0·5	20·6	107·2	11th	74·4	17th	32·8
	Surat	39	29·569	—·098	29·551	29·724	1st	29·453	11th	·271	83·1	91·0	—2·4	78·4	—1·2	84·7	—1·8	12·6	96·3	6th	71·5	17th	24·8
	Ahmadabad	163	29·418	—·092	29·527	29·561	1st	29·294	11th	·267	86·2	102·1	+0·6	81·5	+0·2	91·8	+0·4	20·6	108·6	7th	71·8	17th	36·8
25	Bombay	37	29·625	—·085	29·602	29·774	30th	29·329	7th	·245	82·4	87·4	—0·6	79·5	—0·2	83·4	—0·4	7·9	93·2	1st	76·2	21st	17·0
	Ratnagiri	207	29·489	—·079	29·636	29·645	30th	29·358	7th	·287	80·1	84·0	—2·8	75·8	—1·6	79·9	—2·2	8·2	86·7	17th	72·3	3rd	14·4
	Marmagao	*60*	29·669	—·078	29·663	29·903	1st & 30th.	29·359	6th	·244	80·6	85·5	—1·2	75·8	—1·8	80·7	—1·5	9·7	90·3	1st	73·6	21st	16·7
	Karwar	41	29·719	—·051	29·697	29·968	30th	29·612	6th	·246	79·0	83·5	—1·7	75·3	—0·9	79·4	—1·3	8·2	86·2	1st	72·0	21st	13·2

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 20 days.
† " " 29 "

B—*continued.*

at 216 stations in India, etc., in June, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May, to 30th June, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																VI.—Punjab—*concld.*
1	0	2	12	7	4	2	2	0	S 59° E		5·9			57		71	+14	·868	+·124	3·6	+1·1	3	3·1	−0·1	1·01	2·20	−1·19	1·53	2·83	−1·30	0·47	Patiala.
2	0	1	18	4	3	0	2	0	S 75° E	S 81° E	4·8	1·8	+3·0	68	+10	68	+ 9	·820	+·087	4·5	+2·3	6	5·0	+1·0	4·78	3·68	+1·10	5·18	4·28	+0·90	2·35	Ambala.
15	0	1	0	10	3	1	0	0	S 35° E	S 37° E	2·7	2·0	+0·7	40	+ 3	69	+10	·749	+·086	2·6	+0·3	2	3·5	−1·5	0·68	2·58	−1·90	0·68	3·18	−2·50	0·46	Ludhiana.
20	0	2	3	12	2	2	2	1	S 42° E	S 60° E	2·5	2·6	−0·1	46	+16	58	+ 8	·789	+·104	1·7	−0·7	2	2·9	−0·9	0·56	1·89	−1·28	0·93	2·51	−1·58	0·40	Lahore.
3	1	3	18	4	1	0	0	0	S 88° E	N 81° E	3·7	2·3	+1·4	76	+32	61	+11	·811	+·132	1·9	+0·4	3	3·7	−0·7	1·99	2·53	−0·58	2·91	3·65	−0·74	1·20	Sialkot.
10	1	3	2	9	4	0	0	1	S 56° E	N 89° E	2·7	2·0	+0·7	40	+20	47	+ 3	·654	+·093	3·8	+1·3	2	3·5	−1·5	2·95	2·10	+0·85	6·05	3·52	+2·53	1·68	Rawalpindi.
2	1	17	11	2	1	1	0	0	N 73° E	N 69° E	7·0	5·2	+1·8	69	+17	53	+12	·781	+·143	1·3	+0·4	3	2·5	+0·5	1·67	1·41	+0·26	2·90	2·18	+0·72	0·72	Khushab.
5	0	6	1	4	2	9	0	3	S 5° W		3·5			16		49		·700		1·0		1	2·3	−1·3	0·67	1·50	−0·83	0·68	1·90	−0·97	0·59	Lyallpur.
2	2	2	3	4	6	7	3	1	S 9° W	S 3° W	6·3	6·9	−0·6	33	− 4	49	+ 9	·744	+·135	1·2	−0·1	0	1·6	−1·6	0	1·08	−1·08	0·22	1·44	−1·22	0	Montgomery.
9	5	2	0	2	5	7	0	0	S 23° W	S 3° W	2·3	2·4	−0·1	20	−10	51	+ 1	·783	+·060	0·1	−0·6	0	1·2	−1·2	0	0·59	−0·59	0·68	0·88	−0·20	0	Multan.
																																VII.—North-West Frontier Province.
26	2	0	0	0	0	1	1	0	N 52° W	N 6° W	0·9	3·2	−2·3	7	−15	50	+ 9	·677	+·114	4·4*	+2·6	3	0·9	+1·1	0·53	0·32	+0·21	1·47	1·25	+0·22	0·43	Peshawar.
9	4	7	3	3	0	3	0	1	N 53° E	N 51° E	2·1	1·8	+0·3	27	+ 1	53	− 2?	·749	−·035?	1·1	−0·2	2	1·2	+0·8	0·88	0·67	+0·21	0·96	1·09	−0·13	0·47	Dera Ismail Khan.
																																VIII.—Sind.
10	1	0	5	7	3	0	0	4	S 60° E	S 51° E	3·2	3·9	−0·7	27	−28	65	+10	1·039	+·208	0·3	−0·6	0	0·4	−0·4	0	0·16	−0·16	0·56	0·30	+0·26	0	Jacobabad.
0	0	0	0	0	14	15	1	0	S 26° W	S 39° W	11·1	12·8	−1·7	92	+11	64	+ 2	·817	+·010	1·9	−1·1	1	0·3	+0·2	0·51	0·53	−0·02	0·51	0·70	−0·19	0·50	Hyderabad.
0	0	0	0	0	1	12	18	1	S 71° W	S 75° W	14·1	12·8	+1·3	86	0	80	0	·973	−·004	7·0	+1·6	1	0·6	+0·4	0·21	0·98	−0·77	0·21	1·04	−0·83	0·21	Karachi.
																																IX.—Rajputana.
1	0	0	1	1	8	13	5	1	S 32° W	S 38° W	7·2	6·9	+0·3	69	+ 2	53	− 1	·737	−·040	0·9	−1·0	3	2·4	+0·6	2·50	1·43	+1·07	5·11	2·07	+3·04	1·97	Bikaner.
0	0	0	1	1	2	24	2	0	S 41° W		6·8			82		54	− 3	·692	−·035	4·3	+1·2	2	1·9	+0·1	0·53	1·23	−0·70	2·29	1·48	+0·81	0·29	Jodhpur.
3	2	4	1	1	1	5	9	4	N 77° W	S 83° W	5·3	5·0	+0·3	37	0	59	+ 6	·731	+·036	4·0	+0·7	7	3·7	+3·3	2·17	2·05	+0·12	2·35	2·58	−0·23	0·94	Jaipur.
6	0	0	2	0	1	7	9	5	S 81° W	S 81° W	5·3	6·9	−1·6	49	−21	60	− 1	·680	−·066	7·6	+4·5	3	2·1	+0·9	3·55	2·23	+1·32	4·48	2·78	+1·70	1·88	Ajmer.
4	0	3	0	1	0	14	6	5	S 79° W		4·8			46		57	+ 8	·722	+·042	5·2	+2·8	4	4·3	−0·3	3·92	2·70	+1·22	4·91	3·13	+1·78	1·58	Kotah.
																																X.—Bombay.
0	0	0	0	0	3	21	5	1	S 50° W	S 69° W	12·9	12·2	+0·7	86	+23	73	+ 6	·884	+·068	7·7	+2·2	3	2·9	+0·1	2·27	1·92	+0·35	2·47	2·11	+0·36	0·88	Deesa.
0	0	0	0	0	0	7	23	0	S 80° W	S 72° W	12·8	12·9	−0·1	92	+14	79	− 4	·855	−·053	4·8	−0·4	2	2·3	−0·3	0·60	1·87	−1·27	0·60	1·94	−1·34	0·40	Bhuj.
0	0	0	0	0	0	13	16	0	S 49° W		18·3			51		74	+ 5	·961	+·092	4·7	+1·0	2	2·6	−0·6	0·56	1·90	−1·34	0·55	1·92	−1·36	0·35	Jamnagar.
0	0	1	0	0	2	16	11	0	S 59° W		14·5			79		81	+ 1	·954	−·017	5·8	+0·9	1	2·7	−1·7	0·19	2·39	−2·20	0·19	2·40	−2·21	0·19	Dwarka.
0	0	0	0	0	4	23	3	0	S 41° W	S 81° W	15·6	10·3	+5·3	92	+13	71	− 3	·845	−·035	8·2	+2·8?	5	4·7	+0·3	2·87	4·16	−1·29	2·87	4·33	−1·46	0·86	Rajkot.
1	0	0	0	0	1	9	19	0	S 74° W	S 69° W	12·1	8·3	+3·8	86	+17	84	0	·971	+·001	4·9	−1·2?	2	4·0	−2·0	0·67	3·48	−2·81	0·67	3·53	−2·86	0·38	Veraval.
0	1	0	0	2	1	18	8	0	S 54° W	S 48° W	7·2	11·5	−4·3	79	− 1	83	+12?	1·013	+·122?	7·1	+0·9	5	4·7	+0·3	1·11	3·48	−2·37	1·15	3·62	−2·47	0·31	Bhavnagar Para.
1	0	1	0	4	3	11	4	1	S 28° W	S 49° W	6·7	9·6	−2·9	62	− 8	81	+ 4	·907	−·014	8·1	+1·6	10	7·9	+2·1	5·97	7·94	−1·97	6·88	8·04	−1·16	1·20	Surat.
2	5	0	0	0	1	19	1	2	S 63° W	S 61° W	6·2	5·6	+0·6	59	0	68	0	·842	−·009	6·0	−0·5	4	4·7	−0·7	2·45	4·40	−1·95	2·49	4·48	−1·99	1·22	Ahmadabad.
0	0	1	0	4	4	4	15	2	S 66° W	S 55° W	8·6	11·1	−2·5	58	+ 3	84	+ 2	·897	−·008	8·5	+0·9	20	14·7	+5·3	20·48	18·48	+4·96	23·50	19·19	+4·31	6·52	Bombay.
0	0	1	2	3	4	9	10	1	S 49° W	S 60° W	7·7	7·4	+0·3	53	+22	87	+ 4	·884	−·012	8·5	+1·1	26	20·1	+5·9	44·64	29·10	+15·54	48·63	30·27	+18·36	5·20	Ratnagiri.
1	1	0	0	0	1	6	19	2	S 88° W	N 76° W	8·4	8·0	+0·4	82	+32	90	+ 4	·943	+·015	9·2	+1·7	30	20·1	+9·9	38·69	29·77	+8·83	39·87	31·55	+8·32	4·20	Marmagao.
18	0	1	0	0	6	7	0	0	S 32° W	S 61° W	3·6	4·1	−0·5	37	−15	82	+ 5	·873	+·011	8·9	+1·6	30	22·9	+7·1	41·78	38·65	+3·07	41·75	41·33	+3·42	3·79	Karwar.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	X.—Bombay *—concld.*																						
26	Malegaon	1,430	28·196	—·084	29·549	28·330	1st	28·074	11th	·256	81·1	94·8	—0·9	74·3	—0·8	84·5	—0·9	20·5	102·8	4th	68·1	17th	34·7
	Ahmadnagar	2,154	27·525	—·084	29·567	27·864	1st	27·416	11th	·248	77·7	88·8	—3·0	71·6	—0·5	80·2	—1·7	17·2	95·1	1st	65·2	17th	29·9
	Poona	1,846	27·838	—·074	29·598	27·993	27th	27·741	10th	·252	77·6	86·8	—3·0	72·6	0	79·7	—1·5	14·2	94·6	1st	68·7	17th	25·9
	Sholapur	1,590	28·079	—·086	29·587	28·231	30th	27·966	11th	·265	78·1	92·0	—3·2	72·7	—0·9	82·3	—2·1	19·3	96·3	1st & 29th	70·4	17th	25·9
	Bijapur	*1,948*	27·748	—·077	29·603	27·894	30th	27·647	11th	·247	76·5	88·7	—3·0	71·3	—0·5	80·0	—1·7	17·4	94·7	1st	67·5	5th	27·2
	Belgaum	2,562	27·203	—·060	29·663	27·234	30th	27·098	6th	·236	71·6	77·4	—3·8	67·3	—0·7	72·3	—2·3	10·1	83·1	4th	64·9	26th	18·2
	XI.—Central India.																						
20	Neemuch	1,626	27·934	—·105	29·475	28·089	1st	27·821	11th	·268	80·5	93·6	—5·1	75·9	—1·9	84·7	—3·5	17·7	107·9	8th	69·6	3rd & 12th	38·3
	Indore	1,823	27·766	—·099	29·502	27·937	1st	27·630	11th	·307	78·4	90·6	—4·7	74·1	—1·5	82·3	—3·1	16·5	102·2	8th	66·5	12th	35·7
21	Nowgong	754	28·741	—·094	29·440	28·911	1st	28·651	23rd	·260	82·4	93·4	—9·2	78·3	—4·6	85·9	—7·0	15·1	108·7	7th	73·3	26th	35·4
	Sutna	1,041	28·454	—·082	29·435	28·653	1st	28·354	13th	·299	81·5	90·0	—10·1	77·4	—4·6	83·7	—7·3	12·6	105·8	6th	71·0	16th	34·8
	XII.—Central Provinces.																						
22	Buldana	2,134									76·8	88·9	—3·7	72·2	—1·3	80·5	—2·5	16·7	98·9	5th	65·5	16th	33·4
	Akola	945	28·662	—·096	29·524	28·802	1st	28·561	11th	·238	81·5	93·7	—5·1	76·1	—1·9	84·9	—3·5	17·6	104·4	8th	67·6	16th	36·8
	Amraoti	1,215	28·373	—·087	29·521	28·512	30th	28·283	15th	·229	80·1	91·5	—6·3	75·8	—1·5	83·6	—3·9	15·7	103·0	6th & 8th	66·8	16th	36·2
23	Khandwa	1,044	28·534	—·096	29·519	28·684	30th	28·423	11th	·261	79·7	92·4	—6·0	76·6	—2·4	84·5	—4·2	15·8	105·4	8th	70·9	13th&17th	34·5
	Hoshangabad	1,006	28·556	—·086	29·500	28·695	1st	28·444	16th	·251	81·1	91·5	—8·0	76·2	—3·5	83·9	—5·7	15·3	107·5	8th	68·4	12th	39·1
	Saugor	1,807	27·729	—·107	29·446	27·855	1st	27·630	16th	·255	79·2	90·9	—7·9	75·1	—3·3	83·0	—5·6	15·8	108·8	7th	65·4	26th	43·4
	Jubbulpore	1,327	28·199	—·091	29·455	28·373	1st	28·032	15th	·341	80·2	90·6	—7·5	76·5	—2·4	83·5	—4·9	14·1	105·3	7th	70·3	16th	35·0
	Seoni	2,033	27·553	—·077	29·490	27·898	1st	27·368	15th	·330	77·9	86·0	—9·4	71·1	—4·4	78·6	—6·9	14·9	100·4	6th	65·5	16th	34·9
	Nagpur	1,017	28·554	—·077	29·506	28·694	30th	28·386	15th	·308	81·1	91·6	—7·6	76·5	—2·5	84·1	—5·1	15·1	104·4	5th	68·7	16th	35·7
24	Pendra	2,040	27·521	—·074	29·464	27·704	1st	27·294	15th	·410	78·1	86·7	—8·0	73·0	—4·0	79·8	—6·0	13·7	100·0	7th	65·2	16th	34·8
	Raipur	970	28·575	—·078	29·483	28·754	1st	28·345	15th	·409	79·3*	89·9*	—7·9*	76·3*	—2·6*	83·1*	—5·3	13·6	104·2	7th	70·9	16th	33·3
	Chanda	*634*	28·951	—·084	29·525	29·090	30th	28·827	15th	·263	81·8	93·0	—6·3	77·5	—2·3	85·2	—4·3	15·5	105·3	1st	69·8	16th	35·5
	Jagdalpur	1,813	27·796		29·520	27·947	1st	27·649	14th	·298	77·2	87·0		72·8		79·9		14·2	96·8	7th	68·3	16th	28·0
	XIII.—Hyderabad.																						
27	Aurangabad	1,905	27·754	—·092	29·568	27·890	30th	27·655	11th	·235	77·4	89·7	—4·8	71·4	—1·4	80·6	—3·1	18·3	97·3	4th	65·2	17th	32·1
	Nizamabad	1,248	28·287	P	29·566	28·529	30th	28·287	11th	·242	79·2	92·5	—4·7	74·8	—2·4	83·6	—3·5	17·7	100·2	5th	67·8	5th	32·4
	Bidar	*2,165*									75·6	89·1	—3·6	70·9	—1·2	80·0	—2·4	18·2	94·5	1st	69·4	9 days	25·1
28	Gulbarga	1,503	28·167	—·086	29·600	28·311	30th	28·067	11th	·244	76·0	94·3	—1·2P	72·2	—1·8	83·3	—1·5P	22·1	98·0	1st & 16th	62·3	3rd	35·7
	Raichur	*1,311*	28·392	—·053	29·632	28·546	30th	28·274	11th	·272	79·1	92·0	—3·1	74·5	—0·5	83·3	—1·8	17·5	96·3	28th	71·5	26th	24·8
	Hyderabad (Deccan)	1,719	27·933	—·067	29·579	28·083	30th	27·815	11th	·268	77·2	91·1	—3·5	73·3	—2·9	82·2	—3·2	17·8	96·7	1st	66·2	21st	30·5
	Hanamkonda	877	28·752	—·066	29·564	28·908	30th	28·656	14th	·252	81·6	92·6	—5·4	77·1	—2·7	84·8	—4·1	15·5	102·0	1st	72·7	15th	29·3
	XIV.—Mysore.																						
29	Chitaldrug	2,405	27·362	—·055	29·664	27·494	30th	27·265	11th	·229	72·7	83·4	—2·9	69·1	—1·0	76·2	—1·9	14·3	88·1	16th	67·3	21st	20·8
	Hassan	3,149	26·691	—·047	29·700	26·805	30th	26·605	6th	·200	69·3	75·7	—4·9	65·8	—0·2	70·7	—2·5	9·9	82·2	1st	62·9	19th	19·3
	Bangalore	3,021	26·809	—·052	29·692	26·931	30th	26·725	11th	·206	70·6	82·2	—2·7	66·6	—0·3	74·4	—1·5	15·6	88·7	1st	64·9	11th	23·8
	Mysore	2,518	27·300	—·054	29·706	27·422	30th	27·222	11th	·200	72·7	80·0	—4·8	67·6	—0·5	73·8	—2·7	12·4	84·8	10th	66·0	20th	18·8

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 28 days.

B—*continued.*

at 216 stations in India, etc., in June, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																X.—Bombay—*concld.*
4	0	0	0	0	0	23	3	0	S 50° W	S 81° W	8·0	10·2	−2·2	79	+ 6	70	+ 2	·733	−·006	6·2	+1·2	7	7·1	−0·1	3·04	4·45	−1·41	6·38	5·31	+1·07	0·85	Malegaon.
1	1	0	0	0	1	7	14	6	S 83° W	N 88° W	6·5	11·8	−5·3	76	+21	71	− 3P	·676	−·039	6·3	+0·8	5	7·7	−2·7	3·32	5·03	−1·71	5·18	5·72	−0·54	0·78	Ahmadnagar.
0	0	0	0	0	0	2	21	7	N 83° W	S 82° W	10·1	11·9	−1·8	89	+ 8	77	+ 5	·729	+·033	4·3	−2·7	9	7·2	+1·8	3·18	4·51	−1·33	5·33	5·69	−0·36	1·10	Poona.
0	0	0	0	0	1	13	13	3	S 72° W	S 81° W	10·7	10·0	+0·7	82	+ 5	73	+ 6	·698	+·023	7·3	+0·7	7	6·6	+0·4	3·78	4·79	−1·01	6·75	5·73	+0·62	1·10	Sholapur.
0	0	0	0	0	1	11	18	0	S 71° W	S 78° W	10·2	7·1	+3·1	89	+10	73	− 3P	·660	−·051P	5·5	−0·9	4	5·6	−1·6	3·47	3·44	+0·03	4·74	4·53	+0·21	2·18	Bijapur.
2	0	0	0	0	1	20	7	0	S 54° W	S 75° W	11·4	16·7	−5·3	86	+16	92	+ 6	·709	+·019	7·9	−0·2	18	13·4	+4·6	8·12	8·38	−0·26	13·83	10·83	+3·00	1·19	Belgaum.
																																XI.—Central India.
0	0	0	1	0	0	2	26	1	S 89° W	S 81° W	8·6	9·9	−1·3	89	+15	72	+ 3	·749	−·030	7·4	+3·4	7	4·8	+2·2	8·19	3·99	+4·20	8·38	4·37	+4·01	3·95	Neemuch.
1	1	0	0	0	0	4	18	6	N 84° W	S 87° W	8·4	5·1	+3·3	82	+ 8	77	+ 5	·743	−·025	8·0	+2·1	8	7·4	+0·6	8·82	5·64	+3·18	9·60	6·11	+3·49	4·62	Indore.
4	1	0	9	3	0	3	10	0	S 17° W	S 86° W	3·4	3·4	0	10	−38	74	+17	·804	+·067	7·8	+2·2	12	6·2	+5·8	10·40	6·47	+3·93	10·48	6·76	+3·72	4·23	Nowgong.
2	4	0	3	1	5	6	9	0	S 58° W	S 84° W	5·0	7·1	−2·1	37	+ 8	75	+20	·793	+·100	7·4	+2·0	13	6·3	+6·7	22·22	5·83	+16·39	22·31	6·20	+16·11	8·84	Satna.
																																XII.—Central Provinces.
0	0	0	0	0	1	5	16	7	S 89° W		7·8	8·0	−0·2	84		76		·696		6·2		11	9·4	+1·6	9·84	6·43	+3·41	10·66	6·95	+3·71	2·98	Buldana.
0	0	0	0	0	0	6	17	7	N 88° W	N 81° W	7·6	7·2	+0·4	86	+13	71	+ 5	·756	+·006	7·9	+1·8	11	8·2	+2·8	5·09	5·12	+2·97	8·80	5·49	+3·31	3·03	Akola.
13	0	0	0	0	0	1	10	6	N 77° W	S 87° W	3·9	6·5	−2·6	49	−29	73	+ 4	·735	−·027	6·9	+1·2	9	8·6	+0·4	9·75	6·57	+3·18	10·37	7·11	+3·66	3·68	Amraoti.
14	0	0	0	0	0	0	9	7	N 70° W	N 87° W	8·6	7·5	+1·1	49	−33	76	+10	·762	+·026	6·7	+1·6	8	6·9	+1·1	6·18	5·18	+1·00	7·41	5·51	+1·90	1·64	Khandwa.
3	0	0	0	0	0	26	0	1	S 47° W	S 62° W	3·7	3·7	0	82	+11	75	+ 9	·779	−·012	6·3	+0·9	11	8·0	+3·0	8·21	5·89	+2·32	9·48	6·42	+3·06	2·10	Hoshangabad.
0	2	0	1	2	1	4	18	2	S 85° W	S 80° W	7·4	4·7	+2·7	66	− 1	72	+11	·694	+·005	7·5	+2·8	9	8·1	+0·9	5·07	6·93	−1·86	5·16	7·39	−2·23	1·10	Saugor.
1	1	1	3	2	3	10	8	1	S 50° W	S 70° W	3·2	3·7	−0·5	46	−13	72	+11	·723	+·022	7·4	+2·7	12	9·1	+2·9	7·40	7·69	−0·29	7·90	8·18	−0·28	3·40	Jubbulpore.
1	2	0	0	1	4	8	8	6	S 77° W	S 86° W	5·3	4·2	+1·1	56	0	76	+13	·720	+·034	7·9	+3·1	14	11·5	+2·5	10·56	8·87	+1·72	11·33	9·56	+1·77	2·79	Seoni.
1	0	0	0	1	1	5	14	8	N 89° W	S 87° W	6·0	6·0	−0·6	75	+16	71	+ 7	·736	+·004	7·4	+1·3	9	10·6	−1·6	10·56	8·71	+1·85	11·93	9·46	+2·47	2·37	Nagpur.
3	2	1	0	4	6	3	3	3	S 32° W		5·4			23		77	+17	·725	+·069	4·1	−1·3	17	11·4	+5·6	12·13	8·19	+3·94	12·41	9·10	+3·31	2·30	Pendra.
0	0	1	1	1	3	12	11	1	S 49° W	S 56° W	6·3	7·1	−0·8	66	−10	83†	+19	·827†	+·097	6·2	0	11	9·9	+1·1	11·19	8·39	+2·80	11·32	9·31	+2·01	5·56	Raipur.
0	0	1	0	1	0	15	12	1	S 66° W	S 61° W	6·2	4·5	+1·7	79	+14	73	+11	·785	+·047	7·3	+1·0	10	9·5	+0·5	8·69	7·22	+1·47	9·69	7·87	+1·82	2·28	Chanda.
0	1	0	0	0	5	15	9	0	S 53° W		5·3			79		82		·753		7·8		13			5·11			8·79			1·05	Jagdalpur.
																																XIII.—Hyderabad.
0	0	0	0	0	0	7	21	2	S 83° W		12·1			89		77	+ 8	·723	+·026	8·7	+2·8	10	7·3	+2·7	5·38	5·21	+0·17	7·08	5·86	+1·22	1·50	Aurangabad.
0	0	0	0	0	2	12	15	1	S 68° W		5·6			86		73	+ 4	·725	−·032	7·0	+0·9	10	7·9	+2·1	5·55	4·87	+0·68	7·38	5·18	+2·20	1·10	Nizamabad.
0	1	0	0	0	0	19	9	1	S 62° W		8·3			83		81	+ 3	·713	−·041	7·9	+3·6	8	6·7	+1·3	5·13	4·96	+0·17	5·44	5·76	−0·32	1·41	Bidar.
0	0	0	0	0	0	9	20	1	S 78° W	S 86° W	11·2	10·3	+0·9	92	+25	77	+ 4	·685	−·042	5·6	−1·0	8	7·3	+0·7	5·08	5·31	−0·23	6·21	6·32	−0·11	1·80	Gulbarga.
0	0	0	0	0	1	14	12	3	S 70° W	S 74° W	8·3	10·2	−1·9	82	+ 7	80	+11	·794	+·082	4·7	−0·9	8	6·3	+1·7	6·22	3·81	+2·41	7·68	4·45	+3·23	2·80	Raichur.
0	0	0	0	0	0	15	14	1	S 69° W	N 87° W	9·6	6·6	+3·0	89	+ 5	82	+14	·766	+·073	7·7	+1·1	7	6·6	+0·4	5·47	4·47	+1·00	5·86	5·26	+0·60	2·10	Hyderabad (Deccan).
1	2	0	0	0	1	12	12	2	S 75° W		6·0			76		69	+10	·740	+·054	7·1	+1·0	12	7·8	+4·2	12·37	5·87	+6·50	12·82	6·39	+6·43	3·38	Hanamkonda.
																																XIV.—Mysore.
0	0	0	0	0	0	15	14	1	S 69° W	S 68° W	8·5	8·1	+0·4	89	+ 3	84	+ 5	·671	−·003	8·1	+0·2	6	6·6	−0·6	1·83	3·33	−1·50	8·06	6·38	+1·68	0·49	Chitaldrug.
0	0	0	0	0	0	15	13	2	S 70° W	S 83° W	8·9	3·7	+5·2	87	+ 6	88	+ 5	·631	−·012	7·7	−0·7	17	9·9	+7·1	5·91	4·01	+1·90	13·32	9·25	+4·07	1·75	Hassan.
0	0	0	0	0	0	11	19	0	S 74° W	S 70° W	10·8	6·8	+4·0	92	+ 3	83	+ 3	·619	−·020	8·1	+1·8	4	5·8	−1·8	1·50	2·87	−1·37	8·35	7·21	+1·14	0·61	Bangalore.
0	0	0	0	0	0	16	14	0	S 66° W	S 62° W	9·1	10·7	−1·6	89	+ 8	86	0	·644	−·015	7·5	−0·8	4	6·5	−2·5	1·87	2·90	−1·03	10·13	7·96	+2·17	0·45	Mysore.

* Mean of 8 days.
† " " 28 "

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	XV.—Madras.																						
30	Mangalore	72	29·731	−·056	29·735	29·852	30th	29·653	14th	·199	77·9	83·8	−1·5	73·9	−0·1	78·9	−0·8	9·9	88·5	8th & 9th	71·3	19th	17·2
	Calicut	27	29·794	−·047	29·750	29·915	26th	29·712	11th	·203	76·8	81·8	−2·9	74·3	−0·6	78·1	−1·9	7·5	90·9	5th	71·1	5th	19·8
	Cochin	9	29·840	−·037	29·777	29·942	26th	29·764	6th & 12th.	·178	78·6	84·4	−0·9	74·8	−0·5	79·4	−0·7	10·1	87·9	8th	72·4	20th	15·5
	Trivandrum	198	29·645	−·038	29·774	29·753	30th	29·561	14th	·192	78·4	83·1	+0·1	74·4	−1·4	78·8	−0·7	8·7	86·5	3rd.	71·6	19th	14·9
31	Pamban	37	29·741	−·044	29·706	29·852	30th	29·651	14th	·201	83·8	88·3	−1·9	79·9	−0·4	84·1	−1·1	8·4	91·2	1st	78·7	19th	12·5
	Madura	447	29·319	−·044	29·693*	29·484	30th	29·225	13th	·209	84·7	95·4	−2·6	78·4	+1·3	86·9	−0·7	17·0	100·4	28th	76·0	1st	24·4
	Pudukkottai	318	29·455	−·035	29·700	29·558	30th	29·364	14th	·194	84·4	97·7	−1·2	78·2	−0·1	87·9	−0·7	19·5	102·1	27th	74·2	13th	27·9
	Negapatam	31	29·725	−·043	29·865	29·845	30th	29·644	14th	·201	85·2	97·8	+0·2	79·4	0	88·6	+0·1	18·4	100·4	8th & 23rd	75·3	16th	25·1
	Trichinopoly	255	29·509	−·042	29·694	29·628	30th	29·426	14th	·202	84·6	97·9	−1·1	79·2	+0·6	88·6	−0·3	18·7	101·9	8th	76·6	1st	25·3
	Coimbatore	1,341	28·451	−·033	28·720	28·564	30th	28·366	6th & 13th.	·198	76·7	86·0	−3·6	71·6	−0·2	78·8	−1·9	14·4	99·5	30th	69·4	25th	21·1
	Salem	912	28·890	−·036	28·701	28·982	30th	28·778	11th	·204	79·9	86·3	0	75·0	+0·5	85·1	+0·3	20·3	99·0	9th & 28rd	73·0	8th	26·0
	Cuddalore	37	29·711	−·034	29·678	29·819	30th	29·610	14th	·209	85·3	98·8	−0·1	80·3	+0·5	89·7	+0·2	18·3	103·2	8th	75·3	16th	27·9
	Vellore	707	28·928	−·046	29·062	29·153	30th	28·942	13th	·211	83·7	97·8	+0·9	79·1	+0·5	88·4	+0·7	18·7	102·1	9th	77·0	24th & 28th.	25·1
	Madras	22	29·694	−·048	29·647	29·821	30th	29·589	13th	·232	86·2	99·7	+0·8	81·1	+0·2	90·4	+0·5	18·6	104·7	8th	74·7	1st	30·0
32	Cuddapah	428	29·271	−·071	29·629	29·425	30th	29·171	13th	·254	85·7	100·1	−0·1	81·0	+0·5	90·5	+0·2	19·1	104·3	17th	77·3	2nd & 27th.	27·0
	Bellary	1,475	28·238	−·069	29·629	28·384	30th	28·144	11th	·239	80·4	92·9	−1·9	75·2	−0·6	84·0	−1·3	17·7	96·0	5th	69·9	26th	26·1
	Kurnool	923	28·782	−·054	29·637	28·931	30th	28·662	11th	·269	80·7	94·4	−2·7	76·0	−1·1	85·2	−1·9	18·4	98·2	1st	72·8	22nd	25·4
33	Nellore	66	29·612	−·059	29·612	29·763	30th	29·504	13th	·259	86·8	98·6	−3·0	81·0	−1·1	89·8	−2·1	17·6	103·6	8th	74·4	25th	29·2
	Masulipatam	15	29·635	−·061	29·585	29·792	30th	29·505	13th	·287	83·6	95·6	−2·6	78·4	−2·1	87·0	−2·3	17·2	103·6	9th	74·2	2nd, 20th & 25th.	29·4
	Cocanada	26	29·607	−·055	29·570	29·783	30th	29·472	13th	·311	81·4	92·6	−4·1	78·5	−2·6	85·6	−3·3	14·1	102·6	9th	74·5	16th	28·1
	Waltair (Vizagapatam).	996	29·364	−·068	29·530	29·555	30th	29·184	14th	·371	81·9	89·7	−1·7	78·6	−1·2	84·1	−1·7	11·1	96·8	2nd	78·1	11th	22·7
	Calingapatam	19	29·549		29·505	29·720	30th	29·355	14th	·365	83·7	91·9		79·7		85·8		12·2	102·0	2nd	78·8	10th	27·2
	Gopalpur	33	29·519	−·069	29·492	29·679	30th	29·276	14th	·403	83·6	89·4	−0·2	80·8	+0·4	85·1	+0·1	8·6	93·5	10th	78·3	3rd	15·2
	Bay Islands.																						
1	P. V. Fraser	8	29·521*		29·466*	29·710	1st	29·300	13th	·410	83·4												
	Port Blair	58	29·713	−·050	29·701	29·855	30th	29·582	13th	·273	81·2	85·5	−0·4	77·6	−0·2	81·5	−0·3	7·9	88·0	27th	71·5	19th	16·5
	Kashmir.																						
13	Muzaffarabad		27·144			27·350	1st	27·009	18th	·341	82·5	99·9		75·1		87·5		24·8	108·0	29th	64·6	1st	33·4
	Srinagar	5,204	24·640	−·101	24·611	24·800	1st	24·492	21st	·308	70·9	87·1	+4·7	62·7	+5·2	74·9	+4·9	24·4	94·7	18th	55·4	1st	39·3
	Gulmarg	*8,569*	21·715	−·084	21·682	21·813	1st	21·630	12th	·183	63·5	71·6	+4·8	49·6	+6·2	60·6	+5·5	21·0	81·9	19th	39·2	1st	42·7
	Dras	*10,050*	20·689	−·067	20·657	20·784	16th	20·595	22nd	·189	58·2	71·4	−2·5	46·5	+5·4	52·0	+1·5	24·9	78·2	19th	42·8	2nd	37·6
	Leh	*11,500*	19·623	−·067	19·591	19·716	16th	19·505	22nd	·211	59·2	76·1	+4·4	42·7	+4·2	62·4	+4·5	27·9	84·2	19th	42·2	1st	42·0
	Skardu	*7,500*	22·650	−·122	22·620	22·785	26th	22·459	22nd	·326	60·8	85·9	+6·5	32·9	+7·6	74·6	+6·1	23·0	93·2	18th	52·1	2nd	41·0
	Gilgit	4,890	24·870	−·067	24·843	25·058	1st	24·663	22nd	·395	79·6	95·2	+2·9	69·5	+2·4	82·4	+2·7	25·7	103·7	21st	69·2	1st	43·5

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.

NOTE.—The barometric readings are not reduced to sea level, in the case of

B—*continued.*

at 216 stations in India, etc., in June, 1916—*continued.*

Wind direction. Number of winds from Calm. (25)	N. (26)	N. E. (27)	E. (28)	S. E. (29)	S. (30)	S. W. (31)	W. (32)	N. W. (33)	Resultant direction. (34)	Normal direction. (35)	Wind velocity. Mean velocity, miles per hour. (36)	Normal. (37)	Departure from normal. (38)	Wind steadiness. Actual percentage. (39)	Departure from normal. (40)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (41)	Departure from normal. (42)	Mean vapour tension at 8 hrs. in inches of mercury. (43)	Departure from normal. (44)	Cloud. Mean cloud amount at 8 hrs. (45)	Departure from normal. (46)	Rainfall. Number of rainy days. (47)	Normal number of rainy days. (48)	Departure from normal. (49)	Rainfall of month. (50)	Normal rainfall of month. (51)	Departure from normal. (52)	Total rainfall from 1st May to 30th June 1916. (53)	Normal rainfall for this period. (54)	Departure from normal of this period. (55)	Heaviest rainfall during month. (56)	Station. (57)
																																XV.—Madras.
0	4	1	5	3	0	4	10	3	N 75° W	S 83° W	5·5	2·4	+3·1	23	+12	91	+ 5	·868	+·009	9·2	+0·6	29	24·5	+4·5	45·75	36·76	+ 8·99	50·32	43·02	+ 7·30	4·09	Mangalore.
16	0	4	2	1	0	1	4	2	N 12° W	N 22° E	4·0	7·1	−3·1	10	− 1	95	+ 6	·869	+·008	9·1	+0·8	29	23·9	+5·1	41·41	34·19	+ 7·22	51·41	41·98	+ 9·43	3·16	Calicut.
3	1	4	7	4	0	4	5	2	S 83° E	N 9° W	6·7	4·5	+2·2	11	−11	86	− 1	·833	−·025	8·1	+0·3	27	23·7	+3·3	27·88	28·13	− 0·25	40·21	39·52	+ 0·69	2·78	Cochin.
3	6	1	0	0	0	0	7	13	N 42° W	N 16° W	6·0	5·1	+0·9	69	+ 2	85	− 2	·827	−·008	9·3	+1·1	23	16·7	+6·3	14·60	12·97	+ 1·63	20·64	21·64	− 1·00	1·57	Trivandrum.
0	1	0	0	0	16	12	1	0	S 22° W	S 39° W	12·8	9·8	+3·0	82	+ 4	75	− 3	·855	−·062	3·4	+0·2	0	0·2	−0·3	0·08	0·12	− 0·04	2·18	0·92	+ 1·26	0·08	Pamban.
0	1	0	0	0	0	2	14	13	N 70° W	N 79° W	8·4	3·0	+5·4	86	+26	59	− 5	·704	−·056	7·9	+2·7	0	2·2	−2·2	0·11	1·38	− 1·27	3·38	4·25	− 0·87	0·04	Madura.
6	4	0	0	0	0	4	11	5	N 74° W		4·3			57		61	− 3	·720	−·042	5·4	−1·5	1	2·8	−1·8	0·54	1·16	− 0·62	4·65	3·42	+ 1·23	0·47	Pudukkottai.
0	0	0	0	0	0	11	18	1	S 75° W	S 61° W	6·7	6·1	+0·6	89	+ 8	77	+13	·931	+·139	5·3	+0·7	2	2·3	−0·3	1·28	1·33	− 0·05	1·64	3·14	− 1·50	0·70	Negapatam.
0	1	0	0	0	0	18	9	2	S 66° W	S 80° W	9·0	6·7	+2·3	82	− 3	57	− 5	·678	−·059	5·6	0	0	2·1	−2·1	0·03	1·41	− 1·41	0·50	4·68	− 4·18	0·03	Trichinopoly.
3	0	0	0	1	4	16	5	1	S 47° W	S 45° W	7·8	5·1	+2·7	72	− 6	81	0	·741	−·030	5·2	−0·5	5	4·7	+0·3	2.30	1·56	+ 0·74	5·58	4·03	+ 1·55	0·64	Coimbatore.
8	0	0	0	2	12	1	13	0	S 41° W	S 32° W	5·2	3·7	+1·5	59	−10	81	+ 6	·820	+·022	7·3	+1·2	1	5·2	−4·2	0·60	3·16	− 2·56	5·22	8·06	− 2·84	0·60	Salem.
0	0	0	0	0	0	24	6	0	S 53° W	S 62° W	5·8	2·1	+3·7	96	+26	64	− 4	·772	−·071	5·5	+0·8	3	2·8	+0·2	1·02	1·55	− 0·53	1·82	2·29	− 0·47	0·36	Cuddalore.
0	0	0	0	0	0	0	30	0	W		7·6			100		64	+ 1	·731	+·003	5·9	+1·0	2	5·1	−3·1	0·20	2·90	− 2·70	1·40	5·66	− 4·26	0·10	Vellore.
0	1	0	0	0	2	15	12	0	S 63° W	S 66° W	6·1	6·4	−0·3	82	+ 8	59	− 3	·737	−·060	5·8	−0·2	8	3·8	+4·2	4·22	1·90	+ 2·32	4·25	2·98	+ 1·27	0·95	Madras.
0	3	0	0	0	0	1	15	11	N 67° W	N 87° W				82	+ 4	60	− 1	·737	−·022	6·4	0	3	4·7	−1·7	0·79	3·12	− 2·33	2·53	4·70	− 2·17	0·43	Cuddapah.
0	1	0	0	0	1	7	17	4	S 85° W	S 84° W	8·5	7·7	+0·8	82	+ 9	65	+ 3	·667	+·025	7·1	−0·1	3	3·9	−0·9	0·66	2·04	− 1·38	3·58	4·08	− 0·50	0·16	Bellary.
0	0	0	0	0	0	5	20	5	W	S 89° W	10·5			90	+27	68	0	·708	−·031	7·1	+0·7	7	5·8	+1·2	3·70	3·17	+ 0·53	4·72	4·12	+ 0·60	1·14	Kurnool.
0	0	0	0	0	0	2	17	11	N 76° W	N 73° W	5·2	7·0	−1·8	89	+26	59	− 1	·732	−·064	7·7	+0·5	4	2·7	+1·3	1·10	1·27	− 0·17	2·58	1·96	+ 0·62	0·32	Nellore.
0	1	0	0	0	0	4	17	8	N 81° W	N 80° W	8·6	6·9	+1·7	82	+19	75	− 2	·852	−·113	7·6	+0·4	11	6·2	+4·8	7·03	4·69	+ 2·34	7·24	5·83	+ 1·41	2·15	Masulipatam.
6	1	0	9	0	0	7	14	2	S 83° W	S 69° W	6·1	6·4	−0·3	86	− 9	83	+ 9	·893	−·003	8·2	+1·7	11	6·3	+4·7	4·95	4·74	+ 0·21	6·93	5·90	+ 1·03	1·65	Cocanada.
3	0	0	0	0	3	16	8	0	S 54° W	S 73° W	5·8			76	+ 2	78	+ 5	·842	−·021	7·3	0	9	6·1	+2·9	5·09	4·58	+ 0·51	5·27	6·89	− 1·62	1·39	Waltair (Vizagapatam).
8	2	0	0	0	3	11	6	2	S 65° W		7·0			52		79		·912		4·9		6	5·5	+0·5	3·74	3·99	− 0·25	3·95	6·02	− 2·07	1.60	Calingapatam.
0	1	2	1	0	8	15	1	2	S 36° W	S 39° W	9·4	11·0	−1·6	82	−12	81	− 2	·831	−·090	6·8	+2·3	6	7·6	−1·6	2·72	5·83	− 3·11	3·55	7·77	− 4·22	0·92	Gopalpur.
																																Bay Islands.
1	1	1	1	2	2	17	4	1	S 47° W					63		87		·990		8·1		15			14·80			15·66			5·43	P. V. Fraser.
2	0	0	0	0	2	9	18	4	S 76° W	S 57° W	7·4	7·6	−0·2	72	− 2	85	− 3	·911	−·029	8·8	+0·6	21	21·2	−0·2	17·72	19·24	− 1·52	36·91	36·14	+ 0·77	2·89	Port Blair.
																																Kashmir.
23	2	0	0	0	3	2	0	0	S 27° W		1·2			7		49		·535		2·3		4			1·50						0·67	Muzaffarabad.
15	2	0	1	4	5	1	1	1	S 12° E	S 45° E	2·6	2·8	−0·2	20	+12	69	−13	·515	−·083	3·0	+0·1	3	6·1	−1·1	0·90	1·73	− 0·83	3·27	4·36	− 2·09	0·35	Srinagar.
3	9	12	0	2	0	0	0	4	N 20° E		3·6*			69		65	−12	·373	−·019	4·2	+1·5	6	9·8	−3·8	3·21	3·77	− 0·56	3·21†	3·77†	− 0·56	1·06	Gulmarg.
23	0	0	0	0	0	2	4	1	S 89° W		5·7			29		56	− 4	·272	−·086	3·1	+0·1	1	2·4	−1·4	0·24	0·71	− 0·47	1·98	3·88	− 1·90	0·18	Dras.
22	0	0	0	2	5	1	0	0	S 6° E	S 72° W	3·1	1·9	+1·2	23	−24	45	+ 4	·225	+·054	3·0	−0·9	1	0·6	+0·4	0·18	0·17	+ 0·01	0·62	0·38	+ 0·24	0·16	Leh.
24	0	0	1	0	1	3	1	0	S 34° W		4·8			13		45	− 4	·323	+·091	3·7	+0·4	1	0·9	+0·1	0·26	0·34	− 0·08	0·40	1·61	− 1·21	0·13	Skardu.
29	0	0	0	0	0	1	0	0	S 45° W		0			3		51	+11	·307	+·157	2·5	−0·5	0	1·3	−1·3	0	0·40	− 0·40	1·19	1·24	− 0·24	0	Gilgit.

hill or plateau stations, the elevations of which exceed 3,000 feet.

* Mean of 29 days.
† Rainfall since 1st June.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Baluchistan.																						
15	Fort Sandeman	4,614	25·147		25·116	25·253	1st	25·010	22nd	·243	80·8	100·5		73·1		86·8		27·4	110·2	22nd	63·9	5th	46·3
	Quetta	5,502	24·447	—·043	24·407	24·570	16th	24·298	23rd	·272	68·5	89·3	−1·3	56·0	−2·5	72·6	−1·9	33·3	94·1	3rd & 4th	46·5	6th	47·6
	Chaman	4,311	25·449	—·057	25·411	25·592	5th	25·288	23rd	·304	76·6	93·7	−6·0	67·2	−5·0	80·4	−5·5	26·5	103·0	4th	61·2	5th & 7th	41·8
	Kalat	6,630	23·579		23·541	23·672	1st	23·437	23rd	·235	63·1	86·2	−5·0	52·7	+4·8	69·4	−0·1	33·5	92·1	3rd & 4th	41·5	7th	50·6
	Dalbandin	2,772	26·867		26·830	27·016	5th	26·724	23rd	·292	78·3	101·0		67·6		84·3		33·4	112·6	4th	56·3	7th	56·3
	Pasni		29·486		29·446	29·640	1st	29·351	23rd	·289	86·3	101·2		75·7		88·5		25·5	114·3	9th	67·7	16th	46·6
	Panjgur		26·487		26·445	26·604	5th	26·382	22rd	·212	76·6	95·2		72·7		83·9		22·5	108·8	4th	66·8	5th	42·0
	Robat		26·768		26·726	26·925	5th	26·645	2nd	·280	77·3	97·5		70·6†		84·2†		26·9	109·2	3rd	61·8	5th	47·4
	Seistan		(a) 27·832			28·110	5th	27·750	29th	·360	75·8	92·4		68·9		80·6		23·5	105·2	3rd	55·3	12th	49·9
	Hill stations, excluding Kashmir and Baluchistan.																						
	Para Chinar	6,000	24·229	—·059	24·215	24·353	4th	24·096	22nd	·257	73·6	86·2	−1·4	64·1	+0·6	75·2	−0·4	22·1	92·2	29th	57·1	2nd	35·1
	Cherat	*4,956*	25·437	—·072	25·405	25·602	1st	25·271	22nd	·331	80·1	93·0	−0·8	74·3	+1·1	83·6	+0·1	18·7	101·6	30th	62·4	12th	39·2
	Drosh		(a) 24·822			24·950	1st & 15th.	24·650	22nd	·300	76·0	92·0	+1·2	70·4	+3·0	81·2	+2·1	21·6	97·7	21st	62·0	15th	25·7
	Murree	6,333	23·668	—·065	23·636	23·794	1st	23·521	22nd	·273	70·3	81·5	−0·2	65·7	+1·6	73·6	+0·7	15·8	91·1	30th	53·2	12th	37·9
	Simla	7,232	22·943	—·060	22·905	23·053	1st	22·819	22nd	·234	63·2	68·5	−5·7	59·8	−1·0	64·2	−3·3	8·7	74·4	6th	49·4	1st	25·0
	Sarain		22·975	—·080	22·937	23·086	1st	22·835	21st	·251	63·5	71·2	−3·5	58·0	+2·1	64·6	−0·7	13·2	77·3	24th	45·2	1st	32·1
	Kalabagh		20·016	—·069	19·978	20·094	16th	19·906	22nd	·188	50·7	55·9	−0·3	46·0	0	51·0	−0·1	9·9	60·0	17th	38·7	2nd	21·3
	Chakrata	7,022	23·229	—·002	23·189	23·337	1st	23·105	22nd	·232	63·1	70·4	−3·9	60·3	+0·1	65·3	−1·9	10·1	80·1	6th	55·9	2nd	26·2
	Mukteswar	7,592	22·682	—·071	22·641	22·770	1st	22·554	22nd	·216	60·9	68·7	−6·4	57·8	−0·2	63·2	−3·3	10·9	76·3	6th	47·6	1st	28·7
	Darjiling	7,432	22·809	—·050	22·764	22·924	1st	22·715	13th	·209	61·2	68·9	+3·4	57·6	+1·4	63·2	+2·4	11·3	76·0	5th	51·1	1st	24·9
	Shillong	4,920	24·942	—·053	24·891	25·066	1st	24·832	23rd	·234	69·0	75·2	+0·8	63·7	+0·5	69·4	+0·7	11·5	78·7	16th	56·3	22rd	22·4
	Cherrapunji	4,309	25·487	—·058	25·438	25·602	1st	24·383	23rd	·219	67·7	73·3	+1·1	64·9	+0·9	69·1	+1·0	8·4	78·7	4th	60·9	27th	17·8
	Maymyo	3,546	26·263	—·047	26·210	26·365	30th	26·106	14th	·259	70·4	77·5	−0·9	66·6	+0·7	72·0	−0·1	10·9	83·5	1st	64·1	12th	19·4
	Pachmarhi	3,528	26·156	—·112	26·103	26·303	1st	26·018	15th	·285	71·9	80·6	−6·8	68·9	−3·4	74·8	−5·1	11·7	85·2	6th	63·1	12th & 13th.	32·1
	Mount Abu	3,945	25·782	—·081	25·732	25·957	1st	25·690	22nd	·267	72·1	81·9	−1·7	67·8	−0·7	74·9	−1·2	14·1	91·0	8th	60·4	2nd	30·6
	Mercara	3,781	26·111	—·052	26·043	26·217	30th	26·019	6th	·198	64·9	69·4	−3·4	61·5	−1·9	65·4	−2·7	7·9	78·0	1st	60·0	11th, 19th & 25th.	18·0
	Ootacamund	*7,347*	22·957	—·048	22·893	23·050	26th & 27th.	22·878	6th	·172	56·2	61·4	−2·8	52·3	+0·1	56·9	−1·3	9·1	68·5	1st	47·2	30th	21·3
	Kodaikanal	7,088	22·733	—·061	22·668	22·830	27th	22·667	13th	·163	57·3	63·3	−1·8	53·1	−0·6	58·2	−1·2	10·2	67·5	10th	50·7	25th	16·8
	Extra India.																						
	Singapore (a)	10	29·797	—·118	29·728	29·896	25th	29·693	10th	·203	83·6	88·5	+0·3	75·2	+0·4	81·9	+0·3	13·3	90·5	23rd	72·0	12th	18·5
	Penang (a)	17	29·792	—·108	29·734	29·891	26th	29·711	4th	·180	81·2	88·8	−1·2	73·4	−0·7	81·1	−0·9	15·4	92·0	4th	73·0	19 days	19·0
	Trincomalee	99	29·671	—·049	29·698	29·785	30th	29·573	13th	·212	80·1	91·8	+0·2	78·2	−0·3	85·0	−0·1	13·6	96·4	30th	73·9	18th	22·5
	Colombo	24	29·834	—·039	29·784	29·924	26th & 27th.	29·746	14th	·178	79·8	85·1	−1·0	76·5	−1·0	80·8	−1·0	8·6	87·2	2nd	72·4	13th & 20th.	14·8
	Hambantota	64	29·773		29·763	29·877	27th	29·690	8th	·187	78·8	87·1		76·9		82·1		10·2	93·7	22nd	74·3	7th	19·4
	Minicoy	7	29·872	—·018		29·969	26th	29·782	14th	·187													
	Amini Divi	*18*	29·791	—·052	29·733	29·918	26th	29·693	6th	·225	81·8	86·5	−0·5	77·1	−1·0	81·8	−0·7	9·4	89·8	9th	73·3	5th&10th	16·5
	Gyantse	13,110																					
	Pharijong	14,400																					
	Gangtok	5,667	29·423	+·086	24·388	24·510	2nd	24·272	30th	·238	68·5	73·7	−0·2	58·5	+3·6	66·1	+1·7	15·2	76·7	8th	57·2	1st & 3rd	19·5
	Gartok (c)*	15,100	14·900‡			14·900	29th & 30th.	14·515	28th	·365	46·2	65·4		42·3		53·9		23·1	70·7	30th	41·1	28th	29·6

N.B.—Elevations in italics indicate barometrical determinations.
(a) Nine hours observations.
(c) Aneroid.

* Mean of 3 days.
† " " 28 "
‡ " " 2 "

NOTE.—The barometric readings are not reduced to sea-level, in the case of

B—*continued.*

at 216 stations in India, etc., in June, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Baluchistan.
27	0	1	0	0	0	1	1	0	W		2·9			3		32		·313		0·5		2			1·59			1·97			1·12	Fort Sandeman.
29	0	0	0	1	6	0	0	0	S 45° E	S 8° W	1·9	2·2	−0·3	3	− 3	52	+ 6	·338	−·077	1·5	+0·9	0	0·5	−0·5	0	0·17	−0·17	0·75	0·55	+ 0·20	0	Quetta.
4	0	0	1	5	12	6	1	1	S 4° W	S 53° W	4·5	6·6	−2·1	62	+14	34	0	·316	−·085	0·8	+0·4	0	0·1	−0·1	0	0·03	−0·03	0·41	0·14	+ 0·27	0	Chaman.
30	0	0	0	0	0	0	0	0	Calm	S 32° W	5·2			(a)		45	+11	·261	−·053	0·7		0	0·6	−0·6	0	0·31	−0·31	0·50	0·56	− 0·06	0	Kalat.
8	2	6	1	3	0	5	4	1	N 37° W		5·2			3		16		·154		0·9		0			0			0			0	Dalbandin.
0	6	2	1	1	1	4	11	4	N 67° W		10·2			46		72*		·874*		1·5		0			0			0			0	Pasni.
8	6	1	1	1	1	2	3	7	N 39° W		7·3			37		40		·370		0·6		0			0			0			0	Panjgur.
6	0	4	4	5	0	8	3	0	S 45° E		4·9			20		21		·194		0·1		0			0			0			0	Robat.
1	2	0	0	0	0	0	0	27	N 43° W		17·3			92		42		·372		0		0			0			0			0	Seistan.
																																Hill stations, excluding Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm		1·0			(a)		49	+10	·406	+·059	1·2	−2·1	6	4·8	+1·2	2·54	2·21	+ 0·33	5·92	4·97	+ 0·95	0·77	Para Chinar.
2	10	1	0	5	9	1	0	2	S 63° E	S 79° E	4·6	7·2	−2·6	7	+ 2	40	− 2	·400	−·013	2·7	+0·6	2	1·9	+0·1	0·77	1·04	− 0·27	2·89	2·78	+ 0·11	0·49	Cherat.
23	0	2	1	0	0	2	2	0	W		3·7			3		39	−11	·343	−·082	2·2	+0·7	1	1·9	−0·9	0·24	0·63	− 0·39	3·33	3·01	+ 0·32	0·16	Drosh.
15	3	0	1	7	1	1	0	2	S 43° E	S 63° E	3·4	5·3	−1·9	13	+ 2	60	+11	·435	+·070	2·9	+0·1	7	5·5	+1·5	5·76	3·50	+ 2·26	8·43	6·45	+ 1·98	2·22	Murree.
																85	+24	·488	+·110	7·3	+3·2	17	9·5	+7·5	18·58	6·91	+11·67	20·83	9·59	+11·24	3·54	Simla.
																79	+21	·462	+·109	6·3	+2·3	18	8·6	+9·4	13·00	5·79	+ 7·21	15·95	7·83	+ 8·12	3·10	Sarain.
2	20	0	0	0	4	1	0	3	N 9° W		7·4			56		86	+16	·323	+·075	8·0	+3·2	19	16·5	+8·5	18·42	8·01	+10·41	18·42†	8·01†	+10·41	4·35	Kalabagh.
6	0	5	0	0	0	15	4	0	S 58° W	S 8° W	7·9	5·4	+2·5	43	+34	90	+23	·521	+·104	8·3	+4·4	14	10·2	+3·8	17·66	7·79	+ 9·87	19·72	10·25	+ 9·53	5·67	Chakrata.
6	0	1	5	1	2	0	15	0	S 77° W		2·9			30		89	+20	·474	+·072	8·2	+3·6	17	9·3	+7·7	13·78	5·88	+ 7·90	17·89	7·97	+ 9·92	2·79	Mukteswar.
27	0	0	0	1	1	0	1	0	S 11° W	S 76° E	1·3	3·7	−2·4	6	− 9	92	− 2	·496	+·001	8·5	−0·1	23	20·6	+2·4	34·01	22·77	+11·24	39·23	31·51	+ 7·72	4·11	Darjiling.
8	2	2	6	4	3	3	1	1	S 59° E		3·2			27		81	− 2	·574	+·002	8·6	+0·6	18	19·4	−1·4	12·16	17·18	− 5·02	17·07	26·35	− 9·28	1·55	Shillong.
1	2	5	6	4	6	4	2	0	S 51° E		6·0*			30		93	− 1	·631	+·009	9·1	+0·2	24	25·7	−1·7	70·86	90·95	−20·09	172·58	123·11	+49·47	12·85	Cherrapunji.
20	0	0	0	0	0	10	0	0	S 45° W		1·5			33		89	+ 3	·663	−·002	7·6	+0·5	16	13·5	+2·5	10·61	9·02	+ 1·59	14·23	18·33	− 4·10	2·75	Maymyo.
1	0	0	0	0	0	10	15	4	S 80° W	S 81° W	7·4	6·7	+0·7	82	+15	83	+14	·623	+·010	7·8	+2·1	12	10·5	+1·5	24·25	9·98	+14·27	24·75	9·93	+14·82	7·95	Pachmarhi.
0	2	1	0	0	2	24	1	0	S 47° W	S 59° W	8·5	8·3	+0·2	76	+ 9	75	+ 3	·572	+·004	7·1	+1·8	5	6·2	−1·2	3·76	5·25	− 1·49	6·71	5·97	+ 0·74	2·09	Mount Abu.
2	0	0	0	0	0	12	14	2	S 74° W	N 88° W	5·0	5·7	−0·7	82	+ 8	93	− 1	·595	−·011	9·6	+0·8	30	23·7	+6·3	41·20	25·74	+15·46	48·20	31·53	+16·67	5·14	Mercara.
2	0	0	0	0	3	9	12	4	S 73° W		6·4			72		90	+12	·407	+·030	9·4	+1·9	18	13·1	+4·9	5·38	6·10	+ 0·28	12·78	13·94	− 1·16	1·91	Ootacamund.
0	0	0	0	0	1	4	19	6	N 89° W		11·8			87		80	+ 5	·374	+·007	7·7	+1·3	7	10·0	− 3·0	2·30	3·86	− 1·56	9·71	9·72	− 0·01	0·43	Kodaikanal.
																																Extra India.
8	0	0	0	10	2	9	0	1	S					49						6·0	+0·6	12	9·0	+3·0	8·61	6·92	+ 1·69	18·04	12·88	+ 5·16	1·76	Singapore.
0	7	3	9	5	3	1	2	0	N 8° E					40						7·1	+5·9	7	9·9	−2·9	3·14	7·61	− 4·47	13·10	16·09	− 2·99	0·72	Penang.
0	0	0	0	0	0	18	12	0	S 63° W	S 47° W	10·7	12·2	−1·5	89	− 5	78	− 2	·803	−·078	6·0	+2·8	6	1·9	−1·9	0·05	1·31	− 1·26	5·15	3·67	+ 1·48	0·05	Trincomalee.
2	0	0	0	0	0	18	7	2	S 62° W	S 62° W	5·0	7·7	−2·7	76	−10	84	0	·856	−·044	9·8	+2·5	15	13·0	+2·0	7·94	7·62	+ 0·32	41·07	18·32	+22·75	1·04	Colombo.
0	0	0	0	0	0	7	23	0	S 80° W		12·0	11·5	+0·5	92		87		·856		3·9		4			0·72	2·39	− 1·66	8·76	5·59	+ 4·17	0·16	Hambantota.
0	0	0	0	0	0	8	19	3	S 84° W	S 81° W	9·6	11·8	−2·2	90						7·0	+0·1	19	17·1	+1·9	12·91	10·52	+ 2·39	18·05	16·20	+ 1·85	2·62	Minicoy.
0	0	0	0	0	0	14	14	2	S 70° W		15·2			87		85	+ 2	·918	−·114	7·8	−0·1	20	15·7	+4·3	16·48	13·67	+2·81	25·79	16·81	+8·98	3·06	Amini Divi.
																																Gyantse.
																																Pharijeng.
30	0	0	0	0	0	0	0	0	Calm		0·5			(a)		83	− 7	·576	+·012	5·0	−1·1	23	22·8	+0·2	21·92	20·62	+1·30	36·22	40·07	− 3·85	3·02	Gangtok.
1	0	0	0	0	0	1	1	0	S 63° W		4·7			67								0			0			01			0	Gartok.

hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) Indeterminate.

* Mean of 59 days.
† Rainfall since 1st June.
‡ Rainfall since 23rd June 1916.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.								Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Total range of pressure during month.	Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Extra India—*concld.*																						
	Kashgar (c)	4,255	25·335	−·135		25·430	4 days	25·225	8th	·205	73·3	89·6	+0·8	65·0	+1·2	77·3	+1·0	24·6	100·3	22nd	48·3	11th	51·9
	Kabul (c)		23·939	−·221		24·040	25th	23·840	13th	·180	61·2	94·5	+5·7	60·4*	+3·2	77·4*	+4·5	34·1	98·8	20th	52·8	10th	46·0
	Meshed	3,104	25·882			26·058	10th	25·658	2nd	·400	68·8	84·5	−3·0	52·8	−6·4	68·7	−5·7	31·7	95·9	2nd	42·0	5th	53·9
	Jask	13	29·535	−·033	29·501	29·621	1st	29·450	19th	·171	87·8	100·9	+5·0	80·6	−2·7	90·7	+1·1	20·3	108·5	19th & 23rd.	75·6	8th	30·9
	Muscat	20	29·553	−·008	29·521	29·686	5th	29·459	19th	·227	94·5	103·2	+7·3	88·3	−0·2	95·8	+3·5	14·9	103·1	18th	81·5	12th	26·6
	Bahrein	18																					
	Bushire	14	29·566	−·013	29·542	29·715	3rd	29·466	18th	·249	88·5	94·8	+3·0	80·0	−0·6	87·4	+1·2	14·8	103·8	22nd	72·6	13th	36·2
	Basrah (e)	25	29·609	−·039	29·603	29·802	3rd	29·488	14th	·314	90·4	101·[illegible]	+2·0	79·3†	−1·5	90·8†	+0·3	22·4	111·3	29th & 30th.	73·4	9th	37·9
	Kerman																						
	Ispahan (b)	*5,817*	24·203	+·013		24·430	21st & 22nd.	24·190	1st & 3rd.	·240	66·9	84·8	−9·0	57·1	−5·1	71·0	−7·1	27·7	92·4	29th & 30th.	48·2	11th	44·2
	Tehran (b)	*4,009*	25·707	−·033		25·830	10th, 21st & 22nd.	25·500	2nd	·350	69·3	81·8	12·5	62·4	−3·9	72·1	−8·2	19·4	91·5	29th & 30th.	53·0	3rd	38·5
	Baghdad	127																					
	Aden	94	29·603	−·059	29·627	29·719	2nd & 4th.	29·474	15th	·245	87·0	95·2	+0·4	81·3	+0·3	89·8	+0·3	10·9	100·3	8th	79·4	1st	20·9
	Zanzibar	72	30·024	−·047	30·023	30·086	22nd	29·953	9th	·133	76·1	82·4	+0·7	74·4	+0·3	78·4	+0·5	8·0	84·1	5th & 30th.	72·2	12th	11·9

N.B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(b) Aneroid.
(c) ,,

* Mean of 28 days.
† ,, ,, 27 ,,
(e) ,, ,, 29 ,,

B—*concluded.*

at 216 stations in India, etc., in June, 1916—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
																																Extra India—*concld.*
24	1	0	1	1	0	0	1	2	N 27° W	N 28° W	2·1	3·5	−1·4	7		43	+ 1	·344	−·017	4·0	+1·7	1	0·9	+0·1	0·10	0·34	−0·24	0·47	1·04	−0·57	0·10	Kashgar.
0	1	0	0	0	0	15	14	0	S 68° W	N 22° E				87	+81	67	+23	·365	−·019	1·0	+0·6	0	0·7	−0·7	0	0·24	−0·24	1·80	1·19	+0·61	0	Kabul.
25	4	0	0	1	0	0	0	0	N 18° E		0·5			10		40	− 9	·283	−·170	1·1	0	1	0·8	+0·2	0·43	0·33	+0·10	1·34	1·72	−0·38	0·43	Meshed.
2	14	3	2	0	0	1	3	5	N 9° W	S 48° E	7·0	9·6	−2·6	62	+42	40	−31	·512	−·452	0	−1·0	0	0·1	−0·1	0	0·05	−0·05	0	0·05	−0·05	0	Jask.
3	0	0	1	3	0	1	0	22	N 46° W	N 27° E	4·1	3·4	+0·7	59	+40	37	−27	·567	−·363	0·8	−1·0	0	0·2	−0·2	0	0·15	−0·15	0	0·15	−0·15	0	Muscat.
																							0			0			0·10			Bahrein.
18	1	3	0	1	0	0	2	5	N 25° W	N 37° W	5·8	7·8	−2·0	23	−33	56	−10	·734	−·088	0·7	+0·6	0	0	0	0	0	0	0	0·02	−0·02	0	Bushire.
3	1	6	6	2	4	1	12	0	S 82° W		5·4			24		52		·741		0		0	0	0	0	0	0	0·01	0·46	−0·45	0	Busrah.
																																Kerman.
26	2	1	0	0	0	0	1	0	N 6° W	N 50° W	1·5	2·8	−1·3	10		51	− 1	·340	−·138	1·2	+1·0	0	0	0	0	0·01	−0·01	0·24	0·26	−0·02	0	Ispahan.
24	0	2	0	0	0	4	0	0	S 45° W	S 7° W	1·9	2·2	−0·3	3	−14	54	+12	·390	−·013	1·6	+0·8	0	0·3	−0·3	0	0·08	−0·08	2·41	0·53	+1·88	0	Tehran.
										N 9° W		3·6											0			0			0·23			Baghdad.
11	3	9	2	2	2	1	0	0	N 60° E	S 34° E	6·8	6·8	0	23	+ 7	77	+ 6	·980	+·031	3·7	+0·5	0	0·1	−0·1	0	0·07	−0·07	0·01	0·20	−0·19	0	Aden.
0	0	0	0	0	13	17	0	0	S 26° W	S 13° W	6·8	6·4	+0·4	93	+ 6	83	− 1	·746	+·002	6·5	−1·2	3	3·4	−0·4	1·38	1·79	−0·41	5·73	13·21	−7·48	0·85	Zanzibar.

Table C.—Abstract of observations taken at 8 hrs. at 58 fourth and fifth class stations in India, etc., in June, 1916.

Table

Abstract of observations taken at 8 hrs. at 58 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	78·9	92·2	+2·9	76·1	+4·8	84·2	+3·9	16·1	99·2	12th	72·7	7th	26·5	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	81·2	92·6	+3·2	75·1	+0·4	83·9	+1·8	17·5	98·7	11th	70·0	10th	28·7	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	81·1	93·8	+4·6	65·7	—8·4	79·7	—1·9	28·1	99·5	11th	51·1	24th	48·4	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	80·3	93·1	+3·6	75·4	+1·5	84·3	+2·5	17·7	101·1	15th	72·2	2nd	28·9	...	...		...	...	...	...	...	...	...	...
	Dikom	80·7	91·3	+2·3	75·9	+0·8	83·6	+1·6	15·4	99·2	11th	73·9	22nd	26·2	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	81·3	91·3	+3·4	75·3		83·3		16·0	96·9	11th	71·2	12th & 13th	25·7	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	82·8	92·0	+2·5	75·3	+0·4	83·7	+1·5	16·7	97·0	11th	64·0	3rd	33·0	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	81·6	91·6	+1·9	76·6	+1·0	84·1	+1·5	15·0	97·3	11th	74·1	30th	23·2	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	82·5	92·8		76·0		84·4		16·8	97·1	24th	70·2	1st	26·9	...	...	...	...	...	...	...	...	...	...	...
	Mesa	82·6	90·6	+2·6	73·0	—1·8	83·8	+0·6	21·3	101·6	6th	67·6	8th	34·0	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	76·1	90·4	+3·0	74·7	+1·0	82·5	+2·0	15·7	95·8	16th	69·3	1st	25·3	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	82·8	88·9	—0·1	76·8	+0·9	82·9	+0·4	12·1	94·8	5th	72·9	30th	21·9	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	82·7	89·1	—0·8	76·1	—0·5	82·6	—0·7	13·0	97·1	5th	72·1	3rd & 23rd	25·0	...	...	...	...	...	...	...	...	...	...	...
	Pabna	82·3	89·5	—3·8	78·0	+5·1	83·7	+0·7	11·5	97·0	5th	71·5	6th	25·5	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dum Dim	78·9	93·7	+3·0	72·6	+0·1	83·7	+1·5	20·1	100·1	6th	65·3	3rd	34·8	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	80·6	85·1	+0·7	73·8	0	81·5	+0·3	15·3	96·1	5th	69·0	1st,	27·1	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·8	89·5	+2·0	73·2	—0·9	81·5	+0·5	16·6	96·1	5th	66·0	3rd & 4th	30·1	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 27 days.

C.

and fifth class stations in India, etc., in June, 1916.

Wind, velocity.			Steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					II.—Assam.
...	...	...	...	...	91	− 2	·897	− ·021	...	...	15	17·3	− 2·3	19·19	14·36	+ 4·83	36·27	22·51	+13·76	4·52	Hishnath.
...	...	...	...	...	90	− 2	·960	+ ·027	...	...	15	18·2	− 3·2	16·36	14·98	+ 1·38	25·41	23·37	+ 2·04	3·52	Borjuli.
...	...	...	...	...	95	+ 6	1·011	+ ·113	...	...	18	23·4	− 5·4	14·72	23·50	− 8·78	22·73	36·32	−13·59	2·25	Chandikhira.
...	...	...	...	...	85	− 9	·867	− ·043	...	...	14	17·5	− 3·5	10·64	18·29	− 7·65	23·28	26·23	− 2·95	1·80	Doom Dooma.
...	...	...	...	...	86	− 4	·889	+ ·010	...	...	17	20·3	− 3·3	18·80	18·11	+ 0·69	34·14	26·32	+ 7·82	6·00	Dikom.
...	...	...	...	...	88	− 1	·944	+ ·027	...	...	11	15·8	− 4·8	6·29	9·88	− 3·59	11·56	18·13	− 6·57	2·36	Golaghat.
...	...	...	...	...	82	− 8	·912	+ ·034	...	...	12	23·9	−11·9	9·38	23·33	−13·95	18·96	35·58	−16·62	2·00	Hailakandi.
...	...	...	...	...	92	+ 6	·987	+ ·087	...	...	12	17·0	− 5·0	7·88	10·63	− 2·75	15·75	19·57	− 3·82	1·77	Jorehat.
...	...	...	...	...	77	...	·845	...	...	...	10	12·0	− 2·0	6·29	9·26	− 2·87	9·45	13·83	− 4·38	2·20	Lumding.
...	...	...	...	...	74	− 8	·795	− ·103	...	...	19	17·3	+ 1·7	12·10	13·51	− 0·61	19·57	21·27	− 1·70	2·45	Messa.
...	...	...	...	...	93	0	·841	+ ·003	...	...	14	15·5	− 1·5	11·61	13·75	− 2·14	27·67	24·53	+ 3·14	2·37	Panerihat.
																					III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	15	17·5	− 2·5	14·14	17·60	− 3·46	17·94	28·90	−10·96	3·84	Comilla.
...	...	...	...	...	81	− 6	·909	− ·032	...	...	16	15·8	+ 0·2	14·45	14·35	+ 0·10	16·04	24·94	− 8·94	3·02	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	17	14·7	+ 2·3	12·27	13·16	− 0·89	16·57	21·70	− 5·13	1·42	Faridpur.
...	...	...	...	...	86	+ 1	·955	− ·024	...	...	19	14·7	+ 4·3	10·34	12·03	− 1·69	14·98	19·55	− 4·57	1·78	Goalundo.
...	...	...	...	...	91	+ 6	1·000	+ ·032	...	...	13	14·7	− 1·7	10·98	11·04	− 0·06	15·93	17·53	− 2·20	2·98	Pabna.
...	...	...	...	...	...	...	...	...	...	...	15	14·3	+ 0·7	10·59	12·24	− 1·65	12·79	20·35	− 7·56	2·27	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	18	12·6	+ 5·4	26·49	10·16	+16·33	27·76	15·85	+11·91	7·19	Ramgunj Hallia.
...	...	...	...	...	...	...	...	...	...	...	16	11·2	+ 4·8	11·29	9·32	+ 1·97	11·55	13·80	− 2·25	2·90	Malda.
...	...	...	...	...	...	...	...	...	...	...	16	15·8	+ 0·2	17·65	17·27	+ 0·38	20·78	28·55	− 7·77	4·60	Rangpur.
...	...	...	...	...	90	− 4	·881	− ·030	...	...	24	21·3	+ 2·7	29·27	29·23	+ 0·04	40·92	41·49	− 0·57	5·90	Dam Dim.
...	...	...	...	...	82	− 5	·872	− ·025	...	...	23	19·8	+ 3·2	34·08	29·27	+ 4·81	65·51	40·44	+25·07	6·42	Kalchini.
...	...	...	...	...	83	− 6	·861	− ·012	...	...	24	21·8	+ 2·2	36·97	30·59	+ 6·38	50·25	43·24	+ 7·01	5·24	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	19	18·9	+ 0·1	38·52	33·45	+ 5·07	64·44	49·89	+14·55	6·54	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	17	12·4	+ 4·6	18·01	9·87	+ 8·14	20·84	16·47	+ 3·87	5·45	Kishanganj.
...	...	...	...	...	...	...	...	...	...	...	12	11·2	+ 0·8	11·53	10·74	+ 0·79	16·87	14·98	+ 1·39	2·10	Bankura.
...	...	...	...	...	...	...	...	...	...	...	17	11·6	+ 5·4	15·85	9·23	+ 6·42	15·67	13·18	+ 2·49	2·50	Raniganj (Asansol).
																					IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	16	10·7	+ 5·3	10·70	8·29	+ 2·41	14·66	10·48	+ 4·18	2·01	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	16	10·0	+ 6·0	11·11	8·08	+ 3·03	11·29	11·34	− 0·05	2·50	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	12	8·0	+ 4·0	9·53	7·97	+ 1·56	10·12	10·51	− 0·39	2·05	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	13	9·9	+ 3·1	7·13	9·47	− 2·44	7·61	12·28	− 4·67	1·72	Motihari.
...	...	...	...	...	...	...	...	...	...	...	9	7·3	+ 1·7	8·25	6·25	+ 2·00	9·35	7·63	+ 1·72	3·57	Chapra.
...	...	...	...	...	...	...	...	...	...	...	9	7·6	+ 1·4	10·94	6·50	+ 4·44	11·04	7·87	+ 3·17	5·13	Arrah.
...	...	...	...	...	...	...	...	...	...	...	13	7·1	+ 5·9	9·41	6·21	+ 3·20	9·59	6·93	+ 2·66	3·13	Dehri.

Table

Abstract of observations taken at 8 hrs. at 58 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Wind direction. Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	76·3	86·5	...	*73·1	...	79·6	...	13·4	100·9	6th	66·9	16th & 17th	34·0	9	1	0	0	0	1	5	9	5	W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	81·1	95·1	...	75·5	...	85·3	...	19·6	97·8	16th & 27th	67·3	27th	30·5	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	84·5	97·4	...	79·5	...	88·4	...	17·9	103·8	9th	73·5	4th	30·3	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	89·2	100·3	...	83·2	...	91·7	...	17·1	109·1	7th	69·3	23rd	39·8	0	10	5	3	7	1	2	0	2	N 48° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
	Kargil	69·3	88·5	...	51·5	...	70·0	...	37·0	99·0	7th & 19th	45·0	1st	54·0	0	19	3	2	0	0	1	0	5	N 1° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	78·6	87·5	+0·4	73·5	+0·2	80·5	+0·3	14·0	95·5	5th	68·0	3rd	27·5	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	70·0	74·7	+1·3	63·9	−0·1	69·3	+0·6	10·8	81·6	9th	59·9	6th	21·7	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	80·0	+5·2	59·8	+6·1	69·9	+5·7	20·2	85·4	17th	49·4	2nd	36·0	19	0	0	0	0	2	9	0	0	S 37° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	91·0	−5·3	56·1	−1·6	73·6	−3·5	34·9	97·6	4th	46·9	6th	50·7	..	...	...	...	...	...	...	...	...	...	...

*—mean of 20 days.

C—*continued.*

and fifth class stations in India, etc., in June, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.										Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	3	3·9	−0·9	4·04	3·24	+0·80	4·92	3·82	+1·10	3·10	Meerut.
...	...	...	...	...	...	...	...	...	...	...	16	9·2	+6·8	20·64	8·42	+12·22	21·92	9·90	+12·02	4·57	Dehra Dun.
																					IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	7	3·4	+3·6	4·89	2·74	+2·15	5·49	3·53	+1·96	1·70	Udaipur.
																					XII.—Central Provinces.
3·1	...	...	53	...	74	...	·675	...	7·7	...	10	...	...	9·47	...	...	10·32	...	...	2·31	Chhindwara.
																					XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	6	8·2	−2·2	4·03	5·55	−1·52	7·23	6·08	+1·15	1·41	Parbhani.
																					XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	2	1·3	+0·7	0·34	0·51	−0·17	5·68	2·02	+3·66	0·15	Tinnevelly.
...	...	...	...	...	75	...	·802	...	5·8	...	3	3·5	−0·5	2·01	2·05	−0·04	2·52	3·70	−1·18	1·12	Anantapur.
...	...	...	...	...	76	...	·820	...	3·6	...	8	6·8	+1·2	5·39	4·24	+1·15	6·64	5·93	+0·71	1·49	Guntur.
																					Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	13	...	...	15·69	...	...	28·32	...	...	2·15	Car Nicobar.
																					Kashmir.
...	...	...	37	...	54	...	·730	...	3·1	...	5	3·6	+1·4	4·95	2·41	+2·54	6·04	3·18	+2·86	1·50	Jammu.
...	...	...	...	...	...	...	...	...	...	...	4	8·8	−4·8	1·23	3·11	−1·88	5·88	8·93	−3·05	0·53	Sonamarg.
...	...	...	80	...	32	...	·228	...	3·6	...	0	0·9	−0·9	0·04	0·19	−0·15	0·08	1·82	−1·74	0·04	Kargil.
																					Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	3	1·7	+1·3	0·90	1·09	−0·19	1·00	1·33	−0·33	0·39	Harnai.
																					Hill stations, exclusive of Kashmir.
...	...	...	...	...	84	−1	·815	−·022	...	...	23	21·5	+1·5	28·98	26·90	+2·08	36·64	35·48	+1·16	3·22	Panighatta.
...	...	...	...	...	97	+7	·717	+·107	...	...	24	23·5	+0·5	51·71	28·98	+22·73	55·63	38·11	+17·52	7·24	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	25	...	...	27·62	...	...	40·50	...	...	5·40	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	24	...	...	11·29	...	...	18·20	...	...	1·32	Lachung.
...	...	...	...	...	...	...	...	...	...	...	24	...	...	52·57	...	...	94·47	...	...	7·51	Ringim.
...	...	...	...	...	...	...	...	...	...	...	18	10·0	+8·0	25·09	9·01	+16·08	28·11	11·26	+16·85	5·91	Mussooree.
...	...	...	33	...	...	...	...	...	6·4	+2·6	0	0·5	−0·5	0·01	0·25	−0·24	0·63	1·30	−0·67	0·01	Poo.
...	...	...	...	...	...	...	...	...	...	...	2	2·8	−0·8	0·30	1·12	−0·82	0·30*	3·72	−3·42	0·12	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	0	...	0	0·2	−0·2	0	0·05	−0·05	0·18	0·23	−0·05	0	Pishin.

* Since 1st June 1916.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Absolute range during month.	Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi . . .	53·6	...	...	46·7	...	...	...	...	...	...	38·0	4th	...	...	...	...	...	...	...	...	...	...	...	...
	Pemba																								
	Prison Island . . .																								

C—*concluded.*

and fifth class stations in India, etc., in June, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June, 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																					Extra India.
...	...	...	...	...	91	...	·374	...	2·5	...	12	...	...	5·49	...	...	7·68	...	...	1·50	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	8	7·6	+0·4	3·51	5·24	—1·73	16·53	23·53	—7·00	0·97	Pemba.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Prison Island.

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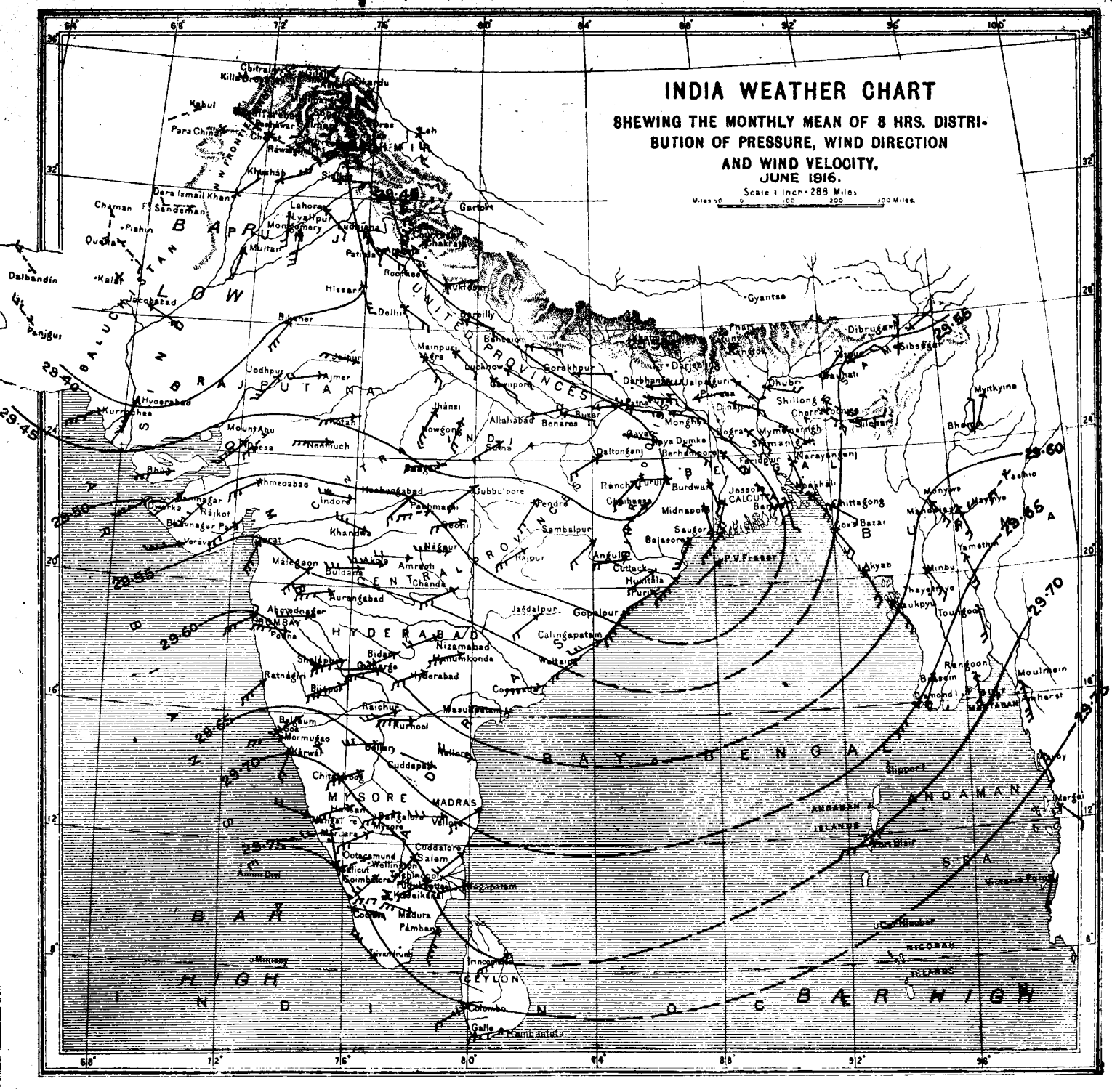
SUPERINTENDENT, GOVERNMENT PRINTING, INDIA
8, HASTINGS STREET

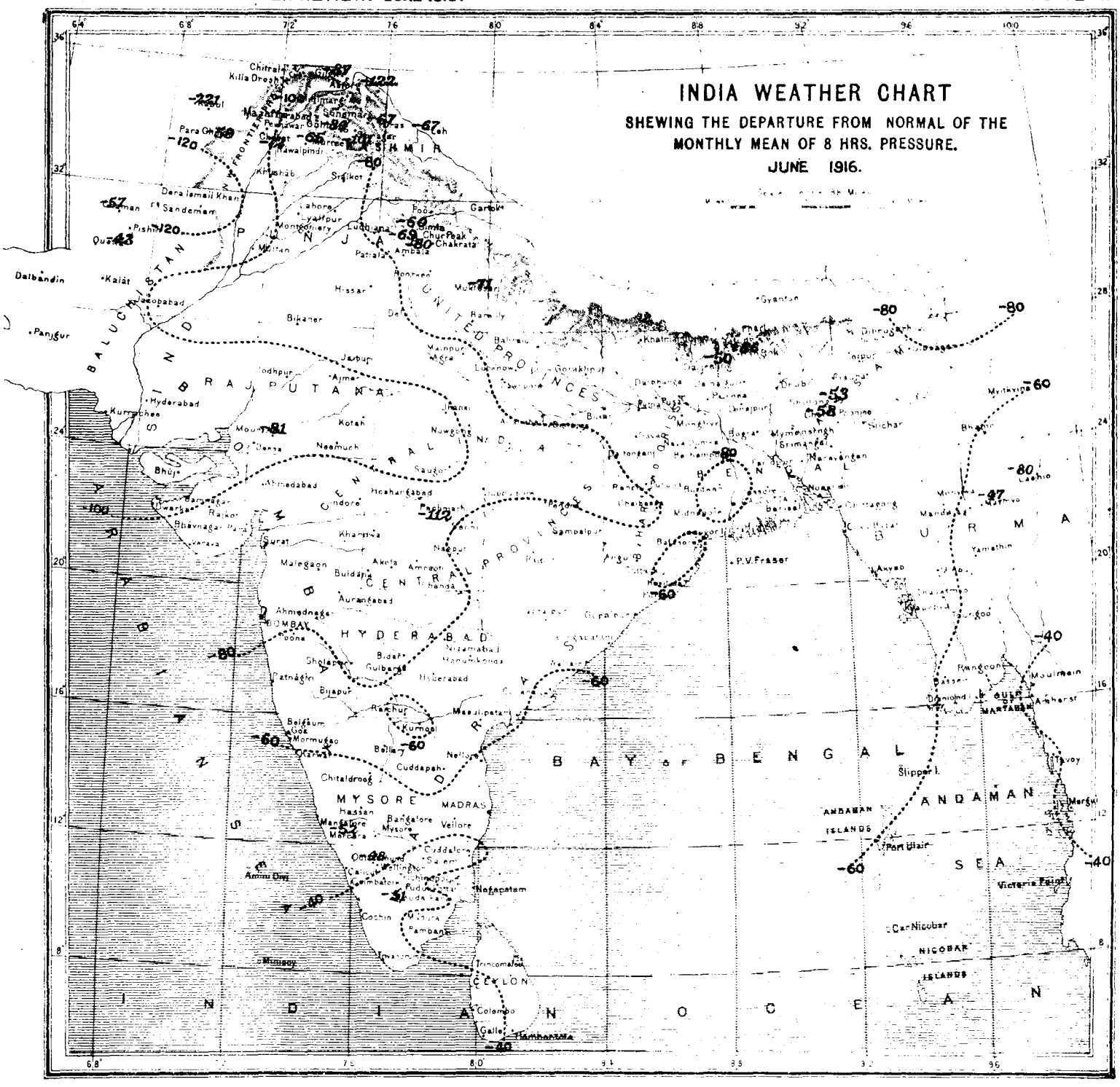


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one	feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	..	two	feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three	,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four	,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	..	five	,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020 or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

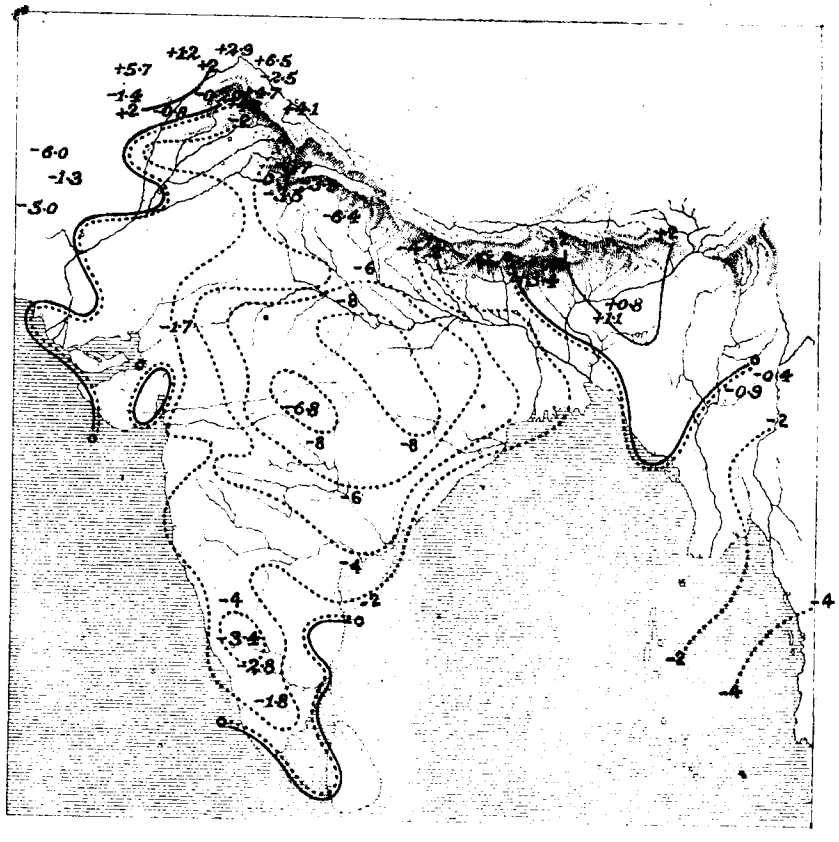


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

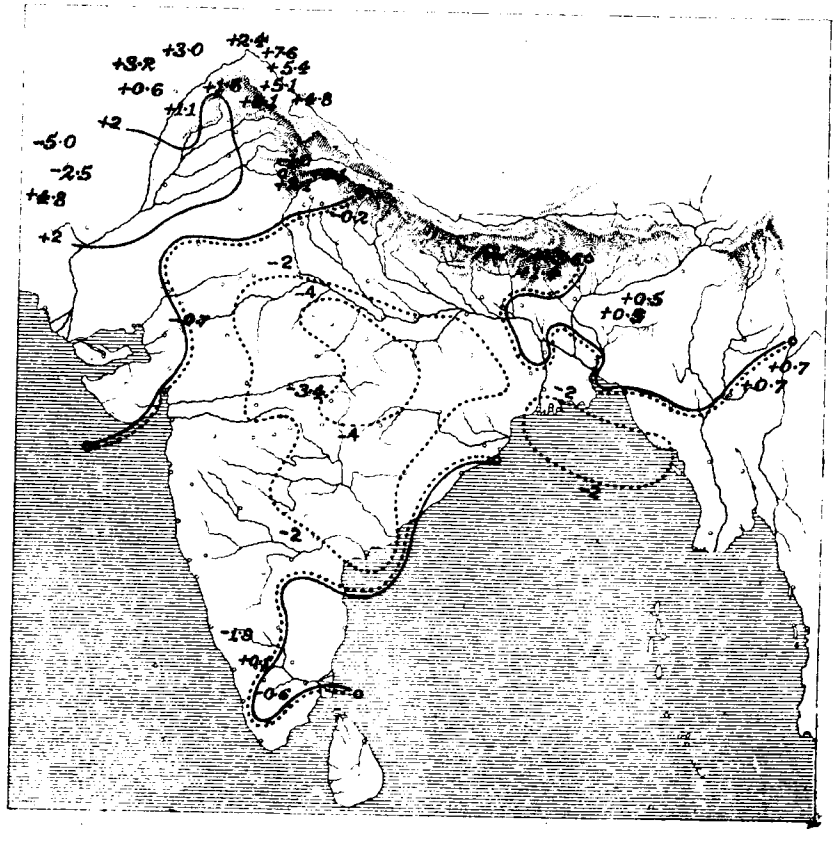


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

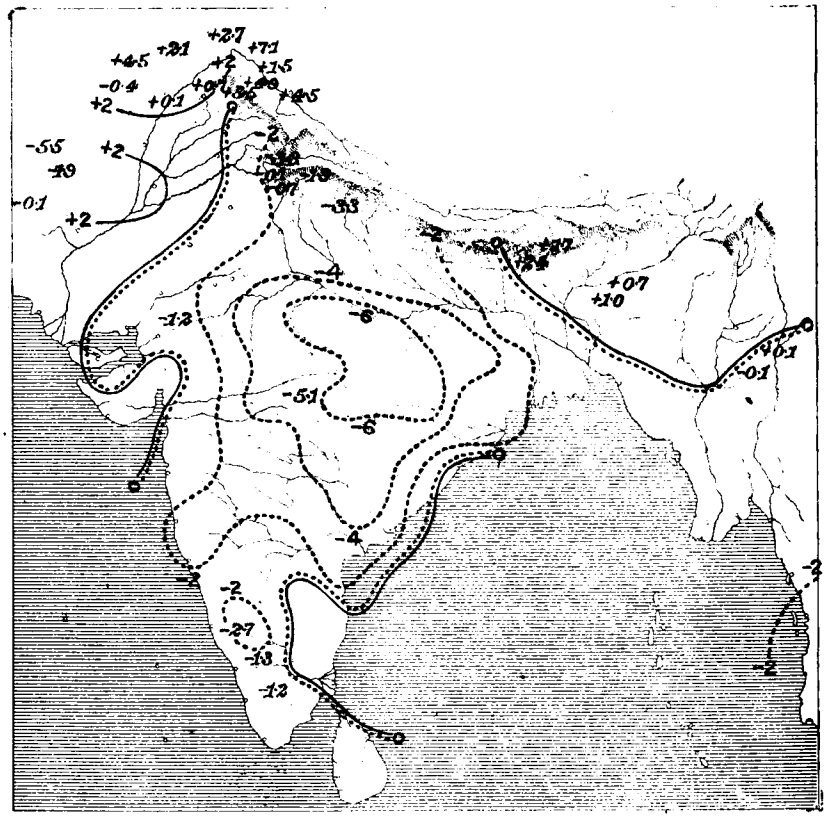


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

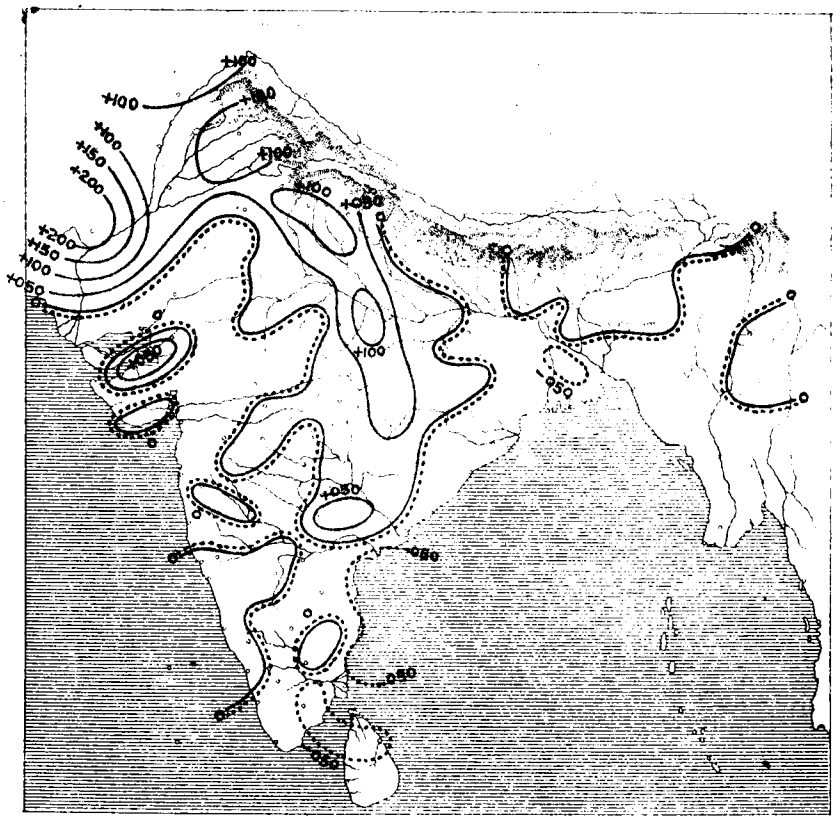


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

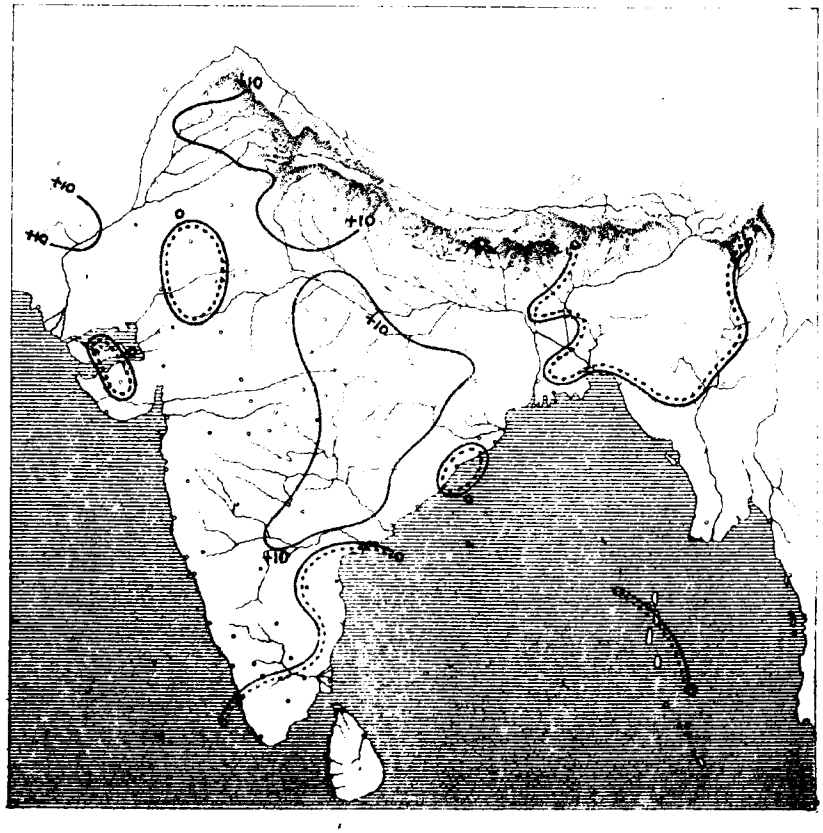


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

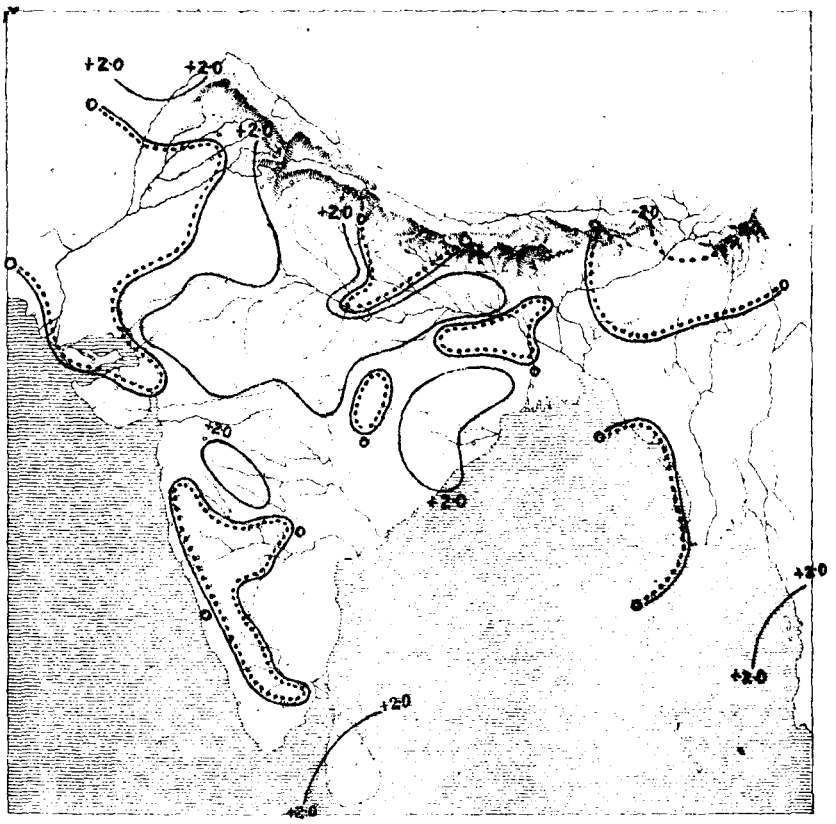
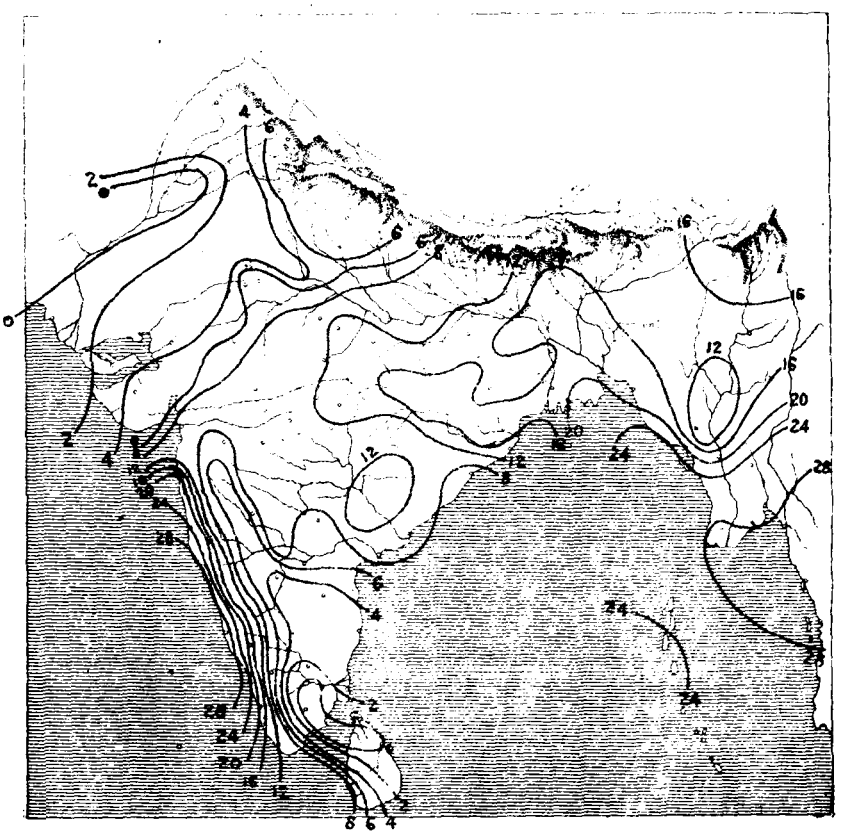
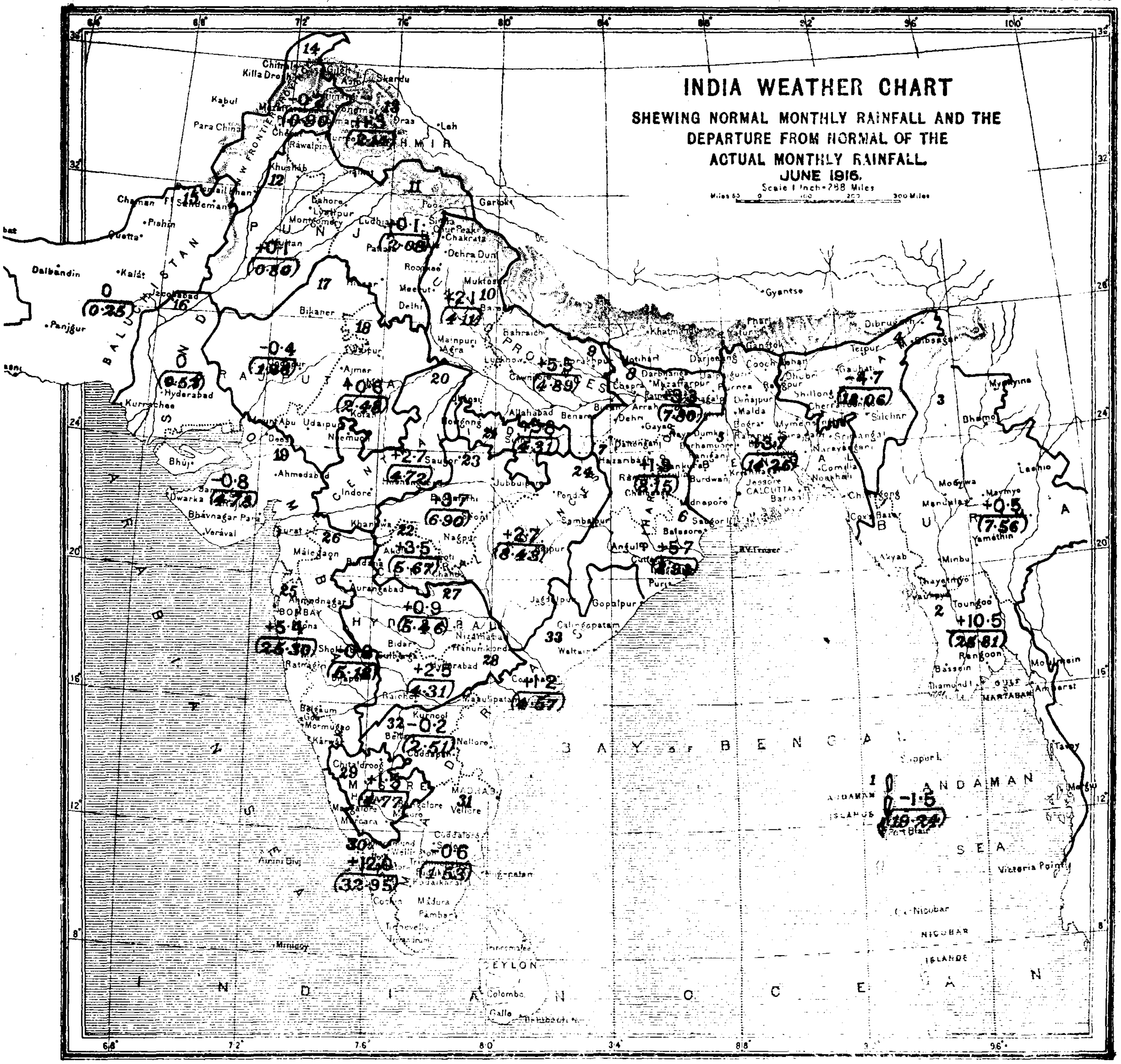


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW.

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, JULY, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of July, 1916, is based on observations taken daily at 8 hrs. at 215 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review.

The brief notes on solar, seismic and magnetic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon was on the whole somewhat less active than usual, and the total rainfall of the month in the plains was in defect by upwards of an inch or 10 per cent. July thus differed from the previous month which was characterized by a large excess.

Not only was the total amount of rainfall provided by the monsoon currents below normal, but its geographical distribution was also rather irregular: thus while the whole of the Peninsula apart from the Konkan and Malabar had more than its normal supply, in northern and central India there was a widespread defect, the excess being confined to Bihar, the United Provinces West, the Punjab, Kashmir and Berar. The rainfall was unusually heavy (*i.e.*, more than 50 per cent. in exces) in Kashmir, Hyderabad and Madras excluding Malabar, and very scanty (*i.e.*, upwards of 30 per cent. in defect) in Orissa, Chota Nagpur, Gujarat, Baluchistan, Malabar and the Konkan. In Burma there was an excess of 10 per cent. in Upper Burma and a defect of 43 per cent. in Lower Burma.

Of the other climatic elements cloud was markedly in defect in Burma, Sind, Rajputana, Gujarat, Central India and Mysore, while temperature and humidity were very nearly normal over by far the greater part of the country.

Barometric pressure averaged over the plains of India was in excess by ·053″.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculæ on all the days of the month except on the 29th. Prominences could not be observed on four days.

Sunspots.—Twenty new groups of spots were observed as against twenty-two in June. The daily average number was 4·0 and the average life of a spot 5·9 days, while for the preceding month the averages were 3·8 and 4·2, respectively.

The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North . .	5	7	2	—	12°·8	4° & 23°
South . .	—	4	1	1	20°·5	14° & 31°

Prominences.—Fifty-three large and two metallic prominences were recorded during the month. The highest recorded was 240″ and was observed on the 5th at latitude —36° east.

Magnetic disturbances.—"Moderate" magnetic disturbances were recorded on the 1st and 2nd, on the 9th, from the 17th to 20th, and on the 23rd and 24th. There was a small group of spots close to the central meridian on the 1st, 9th and 19th and a large group on the 24th.

T. ROYDS,

for *Director*,

Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2343$ m. *Subsoil* Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	G	$\frac{r}{To^2}$
AN:				
AE:	9·76	18·2	1	2·5
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
July. 18th	e P.	15 26 12	...	...	...	...	...	Widening of line.
	F	15 42 42	...	...	...	...	...	
„ 27th	e P.	11 57 06	...	...	...	...	...	
	i L	11 58 06	...	...	...	...	...	
	M	12 07 00	...	...	80	...	...	
	F	12 24 06	...	...	...	...	...	

T. ROYDS,

Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of July, 1916, the traces showed 15 calm days, 15 days of small, and 1 day of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 7th, 13th, 15th, 20th and 25th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	M	9	S	17	S	25	C
2	S	10	S	18	S	26	C
3	S	11	S	19	S	27	C
4	S	12	S	20	C	28	C
5	S	13	C	21	C	29	C
6	S	14	C	22	C	30	C
7	C	15	C	23	S	31	S
8	S	16	C	24	C		

C = calm; S = small; M = moderate; G = great; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follow :—

Easterly declination	0° 36′ 39″
Horizontal force	0·36871 C. G. S. unit.
Vertical force	0·16798 C. G. S. unit.
Inclination	24° 29′·6.
Horizontal force range	0·00647 C. G. S. unit.
Horizontal force summed range	0·00326 C. G. S. unit.
Declination range	5′·3.
Declination summed range	22′·5.

(NOTE.—Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$m. *Subsoil* Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	G	$\frac{r}{To^2}$
AN:				
AE:	9	21		
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
July 6th		6 5 0	...	...	...	...	...	Thickening of line.
„ 16th		18 53 to 59m.	...	...	...	...	...	„
„ 17th		13 20 0	...	...	...	...	...	„
„ 20th		16 35 0	...	...	...	...	...	„

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·32."

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5. CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32' 00''$ N ; $\lambda = 88° 20' 00''$ E ; $h = 6·4$ m.

Subsoil Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	20	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
July 27th	P	11 57 54	...	...	...	...	...	
	S	12 01 30	...	...	...	...	...	
	F	12 20 00	...	...	...	...	...	
„ 31st	P	0 01 30	...	...	...	...	...	
	S	0 04 54	...	...	...	...	...	
	F	0 18 00	...	...	...	...	...	

6. SIMLA OBSERVATORY.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.
		h. m.	sec.		
Drosh	July 3rd	16 50	4	5	1
Shillong	„ 10th	3 56	1	5	1
Ditto	„ 15th	22 30	1	5	1

Solar radiation.—Observations not recorded owing to absence of officers on war service.

G. C. SIMPSON,
Imperial Meteorologist, Simla.

Weather in the Indian Ocean.

7. Table 7 contains the data for the Indian Ocean for the month of July 1916.

TABLE 7.

	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·026*	—·011	—·071
Actual mean wind direction . .	S 52° E*	S 25° W	S 22° E
Normal mean wind direction . .	S 65° E*	S 15° W	S 33° E
Actual mean wind velocity (miles per diem).	236*	185	299
Normal mean wind velocity (miles per diem).	263*	144	211
Rainfall departure from normal . .	—1·46*	—2·40	+3·29

* Based on weekly telegrams.

Depressions and cyclonic storms.

8. No important depressions or storms affected the weather in the Indian region during the month.

Pressure.

9. Atmospheric pressure was on the mean of the month lower than usual in the southern half of the Peninsula and markedly in excess in almost all other parts of the country; the excess was upwards of a twentieth of an inch generally in the plains of northern India and amounted to a little over a tenth of an inch in north-east India. The defect in the south was most marked in Malabar where it equalled ·05″. As a result of these abnormalities the barometric gradient was below the normal value by about a sixth of an inch between Colombo and the head of the Bay, and by a tenth of an inch between Colombo and Karachi.

The position of the monsoon trough of low pressure was about normal, but the gradients from east to west over northern India were appreciably greater than usual, a type of distribution unfavourable for rainfall in north-east India.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	+·052
Assam	+·097
Bengal	+·113
Bihar and Orissa	+·103
United Provinces	+·080
Punjab	+·066
North-West Frontier Province	+·043
Sind	+·057
Rajputana	+·063
Bombay	+·018
Central India	+·063
Central Provinces	+·056
Hyderabad	+·018
Mysore	—·021
Madras	—·010

The excess of pressure in northern India and the defect in the south of the Peninsula were in general somewhat less marked at the level of the hill stations than in the adjoining plains.

TABLE 9.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	″		″	″
Quetta	+·051	Jacobabad	+·061	+·010
Leh	+·033	Lahore	+·067	+·034
Murree	+·046	Peshawar	+·046	0
Simla	+·059	Ludhiana	+·078	+·019
Mukteswar	+·041	Bareilly	+·077	+·036
Darjiling	+·060	Dhubri	+·107	+·047
Mount Abu	+·057	Deesa	+·061	+·004
Pachmarhi	+·041	Khandwa	+·045	+·004
Kodaikanal	—·014	Madura	—·036	—·022

Temperature.

10. Maximum temperature was appreciably below the normal along the Himalayas and the coast districts from Negapatam to Waltair; and was in slight excess in the west of Mysore, and also in Khandesh, north Gujarat, Central India West, the north of the Central Provinces and parts of Rajputana. Elsewhere the departures from normal were small. The distribution of minimum temperature bore a strong resemblance to that of the maximum, but the departures were less than 2° in amount almost everywhere.

TABLE 10.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	86·1	76·9	81·5	9·2	+0·7	—0·6	+1·3
2. Lower Burma	85·7	75·1	80·4	10·6	+1·4	—0·1	+1·5
3. Upper Burma	90·2	75·5	82·8	14·7	+0·4	—0·3	+0·7
4. Assam	87·0	76·0	81·5	11·0	—1·9	—1·0	—0·9
5. Bengal	87·7	77·7	82·7	10·0	—0·3	—0·6	+0·3
6. Orissa	89·4	78·3	83·9	11·1	+1·0	+0·1	+0·9
7. Chota Nagpur	89·8	76·3	83·1	13·6	+0·7	—0·1	+0·8
8. Bihar	88·9	78·0	83·4	10·9	—1·4	—0·7	—0·7
9. United Provinces, East	90·6	78·5	84·5	12·1	—1·7	—1·0	—0·7
10. Do. do., West	92·2	78·5	85·3	13·7	—0·8	—1·0	+0·2
11. Punjab, East and North	95·0	78·3	86·7	16·7	—2·1	—1·5	—0·6
12. Do., South-west	101·7	83·1	92·4	18·6	—1·6	+0·4	—2·0
13. Kashmir	82·2	60·2	71·2	22·1	—1·4	+0·7	—2·1
14. North-West Frontier Province	103·5	81·9	92·7	21·6	+0·5	+1·1	—0·6
15. Baluchistan	100·5	72·7	86·6	27·8	+2·0	+0·6	+1·4
16. Sind	99·4	82·8	91·1	16·5	+0·8	+0·9	—0·1
17. Rajputana, West	101·4	82·5	91·9	18·9	+2·1	+0·7	+1·4
18. Do., East	95·7	79·9	87·8	15·8	+2·0	+0·9	+1·1
19. Gujarat	92·7	79·2	86·0	13·5	+2·2	+0·7	+1·5
20. Central India, West	89·3	74·5	81·9	14·8	+2·7	+0·9	+1·8
21. Do., East	90·1	77·7	83·9	12·3	+0·7	—0·3	+1·0
22. Berar	88·2	73·7	81·0	14·5	+1·2	+0·7	+0·5
23. Central Provinces, West	88·5	74·6	81·6	13·9	+1·8	+0·1	+1·7
24. Do., East	87·6	73·9	80·7	13·7	+1·5	—0·2	+1·7
25. Konkan	84·0	76·5	80·2	7·5	+0·2	+0·3	—0·1
26. Bombay Deccan	86·3	71·1	78·7	15·2	+1·9	+0·5	+1·4
27. Hyderabad, North	86·3	72·1	79·2	14·2	—0·7	+1·2	—1·9
28. Do., South	88·0	73·5	80·7	14·5	—0·9	—0·1	—0·8
29. Mysore	82·9	67·6	75·3	15·3	+2·0	+0·9	+1·1
30. Malabar	83·7	74·7	79·2	9·1	+0·8	—0·6	+0·2
31. Madras, South-east	92·2	76·0	84·1	16·2	—2·0	—0·7	—1·3
32. Do. Deccan	91·9	75·6	83·7	16·4	—0·9	—0·3	—0·6
33. Do. Coast, North	89·1	77·8	83·5	11·3	—2·4	—1·1	—1·3

TABLE 11.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·9	—0·2	+0·4
Assam	—1·9	—1·0	—1·5
Bengal	—0·3	—0·6	—0·5
Bihar and Orissa	0	—0·3	—0·2
United Provinces	—1·3	—1·0	—1·1
Punjab	—2·0	—1·0	—1·5
North-West Frontier Province	+0·5	+1·1	+0·8
Sind	+0·8	+0·9	+0·8
Rajputana	+2·0	+0·8	+1·4
Bombay	+1·6	+0·5	+1·1
Central India	+1·7	+0·3	+1·0
Central Provinces	+1·6	+0·2	+0·9
Hyderabad	—0·8	+0·5	—0·2
Mysore	+2·1	+0·9	+1·5
Madras	—1·4	—0·5	—1·0

Winds.

11. (*a*) The velocity of the monsoon currents was lower than usual over nearly the whole country. This feature was most marked in Hyderabad and Bombay, where the recorded rate of air movement was almost half the normal value.

(*b*) The steadiness was markedly low in Burma, the Central Provinces and the Peninsula, and was very high in the United Provinces and the Punjab.

(*c*) The direction of air movement was abnormal on the coasts of the Peninsula; thus on the west coast winds were almost parallel to the coastline instead of blowing from the normal westerly quarter, and on the east coast the westerly component was weaker and the southerly element stronger than is ordinarily the case. On the Tenasserim coast also the direction was unusual, being roughly from S E instead of from S or W S W. In the interior the only important deviations occurred in Bengal, Chota Nagpur and Central India East where the mean directions were more southerly than usual.

TABLE 12.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	—1·1	—17
Assam	—0·2	— 1
Bengal	—0·8	— 4
Bihar and Orissa	—0·6	+ 2
United Provinces	—0·5	+15
Punjab	+0·7	+17
North-West Frontier Province	—0·7	+ 6
Sind	—0·6	+ 4
Rajputana	+0·4	+ 4
Bombay	—4·1	—23
Central India	—1·5	— 2
Central Provinces	—1·2	—11
Hyderabad	—5·0	—17
Mysore	—1·4	—13
Madras	—0·9	—15

Humidity and cloud.

12. The air was damper than usual, both absolutely and relatively, in the region of low temperature along the east coast of the Peninsula as well as in east Hyderabad and Baluchistan; and was dry in both respects in Cutch and central Rajputana. In other parts of the country the hygrometric conditions were fairly normal.

Over by far the greater part of the country there was less cloud than usual; the only important exceptions were the North-West Frontier Province, the Punjab, the northern districts of Bihar and Bengal and the greater part of Hyderabad where the skies were clouded to more than the customary extent.

TABLE 13.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	88	— 1	·864	—·017	7·3	—0·9
Assam	89	— 1	·910	—·033	7·3	—0·5
Bengal	88	— 1	·944	—·020	7·5	—0·1
Bihar and Orissa	86	0	·926	+·001	7·2	0
United Provinces	84	+ 3	·929	+·001	6·4	0
Punjab	74	+ 4	·858	+·001	5·0	+0·9
North-West Frontier Province.	66	+ 1	·849	—·007	3·3	+0·7
Sind	72	— 1	·904	+·006	3·2	—1·7
Rajputana	66	— 6	·787	—·042	5·1	—0·7
Bombay	83	+ 1	·852	+·014	7·3	—0·7
Central India	81	— 2	·831	—·002	6·8	—1·2
Central Provinces	84	+ 1	·815	+·020	7·1	—0·7
Hyderabad	84	+ 5	·765	+·038	7·9	+0·6
Mysore	85	+ 1	·655	+·016	7·7	—1·2
Madras	81	+ 5	·836	+·035	6·4	—0·5

Rainfall.

13. The almost complete break in the rains which had set in over the greater part of the country towards the end of June held until the 3rd July, when a revival of the monsoon began over the Peninsula; and by the 9th monsoon conditions were again established except in the extreme northwest. The monsoon currents were appreciably more vigorous than usual during the next ten days, but they were determined largely to northwest India where some remarkably heavy falls of rain occurred. Thus at Lahore 11·30″ were recorded during the interval between 8 hours of the 13th and the same hour of the 15th, and 5·62 at Karachi during the 12 hours ending at 20 hours of the 14th; the normal for the whole year amounts to about 20″ at the former station and 8″ at the latter.

On the 20th another period of weak monsoon conditions set in over northern India and lasted up to nearly the end of the month. As usually happens under these circumstances the rainfall during this interval over most of the Peninsula was unusually abundant. The month's aggregate rainfall was either normal or in defect in all parts of northern and central India with the exception of Bihar, the United Proinces West, the Punjab, Kashmir and Berar; the defect was 25 per cent. or more in Orissa, Chota Nagpur, Sind, Baluchistan, Rajputana West, Gujarat and the Central Provinces East.

In the Peninsula there was a defect of 32 per cent. in the Konkan and of 39 per cent. in Malabar, and an excess elsewhere.

The greatest excess occurred in the Punjab East and North (3″ or 50 per cent), Kashmir (3½″ or 52 per cent.), Bihar (3″ or 24 per cent.), Berar (3″ or 32 per cent.), Hyderabad (4¾″ or 67 per cent.), and Madras excluding Malabar (4⅔″ or 12b per cent.).

In Burma and the Bay Islands the fall was deficient by 30 per cent. and 20 per cent. respectively.

TABLE 14.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	13·0	19·6	12·49	15·70	—3·21	— 20
2. Lower Burma	19·0	25·0	17·68	30·86	—13·18	— 43
3. Upper Burma	10·1	9·6	7·19	6·52	+0·67	+ 10
4. Assam	19·6	19·0	18·16	18·06	+0·10	+ 1
5. Bengal	14·6	16·9	14·78	15·57	—0·79	— 5
6. Orissa	13·6	15·5	8·83	12·94	—4·11	— 32
7. Chota Nagpur	13·0	15·9	8·41	13·26	—4·85	— 37

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentag departure from normal.
			"	"	"	
8. Bihar	15·8	14·0	15·54	12·53	+3·01	+ 24
9. United Provinces, East	14·0	12·6	11·29	11·57	—0·28	— 2
10. Do., West	14·4	11·7	13·62	11·88	+1·74	+ 15
11. Punjab, East and North	8·2	6·6	9·14	6·11	+3·03	+ 50
12. Punjab, South-west	3·2	3·1	2·88	2·39	+0·49	+ 21
13. Kashmir	10·4	7·6	10·43	6·88	+3·55	+ 52
14. North-West Frontier Province	4·3	4·1	3·01	3·00	+0·01	0
15. Baluchistan	1·1	1·4	0·48	0·83	—0·35	— 42
16. Sind	1·6	2·7	1·91	2·55	—0·64	— 25
17. Rajputana, West	4·1	4·9	2·71	3·86	—1·15	— 30
18. Do., East	9·4	9·8	6·69	8·48	—1·79	— 21
19. Gujarat	9·5	12·9	6·87	13·48	—6·61	— 49
20. Central India, West	11·7	12·6	9·11	10·82	—1·71	— 16
21. Do., East	11·4	12·6	9·27	12·05	—2·78	— 23
22. Berar	16·5	12·2	12·46	9·42	+3·04	+ 32
23. Central Provinces, West	15·6	15·1	10·80	14·02	—3·22	— 23
24. Do., East	14·5	16·5	11·55	15·48	—3·93	— 25
25. Konkan	22·2	26·4	27·68	40·55	—12·87	— 32
26. Bombay Deccan	13·7	11·5	9·11	8·00	+1·11	+ 14
27. Hyderabad, North	14·8	12·0	12·61	8·09	+4·52	+ 56
28. Do. South	14·8	10·3	11·07	6·05	+5·02	+ 83
29. Mysore	10·2	9·7	7·47	7·18	+0·29	+ 4
30. Malabar	22·1	27·5	24·03	39·21	—15·18	— 39
31. Madras, South-east	7·8	3·6	6·34	1·94	+4·40	+227
32. Do. Deccan	11·8	6·1	8·28	3·04	+5·24	+172
33. Do. Coast, North	13·5	9·7	10·27	6·32	+3·95	+ 62

TABLE 15.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	11·31	16·08	—4·77	— 30
Assam	18·16	18·06	+0·10	+ 1
Bengal	14·78	15·57	—0·79	— 5
Bihar and Orissa	12·10	12·81	—0·71	— 6
United Provinces	12·56	11·74	+0·82	+ 7
Punjab	7·61	5·20	+2·41	+ 46
North-West Frontier Province	3·01	3·00	+0·01	0

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	1·91	2·55	—0·64	— 25
Rajputana	5·40	7·07	—1·67	— 24
Bombay	11·72	15·61	—3·89	— 25
Central India	9·17	11·43	—2·26	— 20
Central Provinces	11·55	13·30	—1·75	— 13
Hyderabad	11·88	7·12	+4·76	+ 67
Mysore	7·47	7·18	+0·29	+ 4
Madras	9·35	6·76	+2·59	+ 38
Mean of India	10·31	10·97	—0·66	— 6

Snowfall.

I.—AFGHANISTAN.

14. During the first fortnight for which alone information is forthcoming there was no snowfall on the ranges around Kabul and the winter accumulations had completely disappeared except from the Paghman, Shakardara, Hazarajat and Hindu Kush ranges.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Kurram.*—There was no snowfall, but the winter accumulations were believed to be greater than usual.

(*b*) *Drosh.*—No snowfall occurred, and only a thin covering of snow remained unmelted at the higher levels.

(*c*) *Khyber.*—No snowstorms occurred on the Safed Koh. At the end of the month the winter accumulations were of normal depth and extended down to the usual level.

(*d*) *Malakand.*—Some snow fell on higher hills in Dir and Swat Kohistan.

(*e*) *Hazara.*—No snow fell during the month and the previous accumulations melted away.

III.—KASHMIR.

No snow fell on the mountain ranges around Srinagar, Dras and Kargil. On the hills surrounding Gulmarg light falls occurred on the 2nd, 3rd and 23rd and a rather heavy fall on the 15th. Some light snow fell also on the higher hills near Skardu on the 1st, 3rd and 21st. On the ranges near Leh snowstorms were observed on the 14th, 23rd and 30th. At the end of the month there was little or no snow lying on the ranges near Kargil, while the unmelted residue on the mountains around Leh was much less than usual. No information is available regarding the accumulations elsewhere.

IV.—PUNJAB.

(*a*) *Chamba-Tisa Range.*—No snow fell in this month and by the end of the month the winter accumulations had melted away except from the Sach and Chanchin passes.

Pangi Range.—On the heights facing Bharmour snowfall occurred down to 13,000 feet on the 21st.

Bharmour Range.—There was a light fall on elevations above 13,000 feet on the night of the 20th.

Chamba Range.—The Balaini and Maibla passes had become clear of snow.

Dalhousie Range.—Light snow fell on the 21st down to 13,000 feet.

(*b*) *Kangra.*—No snow fell. By the end of the month snow had disappeared completely from the Rohtang pass and only a little remained on the other ranges.

(*c*) *Kilba (Simla Hills).*—Light snowfall occurred on elevations above 11,000 feet on the 1st, 3rd, 9th and 10th. At the end of the month no snow was lying on the Harang, Rupin and Brua passes except in gorges and shady situations.

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—Four to seven inches of snow are reported to have fallen on the 14th and 25th on the higher peaks in the north of the district. The existing accumulations are said to be very small in amount and the snowline at the end of the month was considerably higher than usual.

(*b*) *Almora.*—During the month snow fell to a depth of 5 feet in Malla Darma, 4½ feet in Byans, 2½ feet in Malla Johar and less than a foot in Chaudas. There was a mere sprinkling in Malla Danpur. The snowline came down from the perpetual snows to a distance of 4½ miles in Byans, 2 miles in Malla Darma and ¼ mile in Chaudas.

TABLE 16.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	12½	14½
Lampia "	2¾	3¾
Lipulekh "	1¾	3
Pindari peak	2	½
Kaphini "	2	½
Kuntela pass	2	½
Binkaru "	2½	6½
Untadhura	2½	5¾
Ralamdhura	2½	4

SUMMARY.

15. There were a few local falls in the western Himalayas, mainly on the higher elevations, and the accumulations of snow still existing at the end of the month were in general distinctly below the average.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in July, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 11

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, Wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·693	29·589	·104	29·647	+·107	29·615	89·6	79·0	10·6	93·1	75·0	18·1	85·8	86·3	84·0	+1·0	77·4	80·3	80·2	79·3
	VI.—Punjab.																					
11	Lahore . .	702	28·876	28·783	·093	28·825	+·057	29·478	94·8	79·9	14·9	111·0	71·4	39·6	87·2	93·9	86·4	−2·7	75·6	79·7	81·5	78·9
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·225	28·122	·103	28·172	+·057	29·508	95·3	78·8	16·5	107·9	74·0	33·9	87·8	93·5	85·9	+1·2	74·6	77·2	77·8	76·5
	X.—Bombay.																					
25	Bombay . .	37	29·706	29·630	·076	29·667	−·005	29·644	85·0	78·7	6·3	88·7	25·4	13·3	81·9	82·6	80·4	+0·9	76·7	78·9	78·7	78·1
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·843	26·752	·094	26·807	−·021	29·641	82·6	67·0	15·6	86·6	64·7	21·9	75·2	79·7	72·9	+0·9	66·2	69·6	70·7	68·8
	XV.—Madras.																					
31	Pudukkottai .	318	29·486	29·367	·119	29·427		29·669	95·1	75·6	19·5	100·4	68·9	31·5	85·9	91·9	85·2			75·1	76·1	
	Madras . .	22	29·750	29·648	·102	29·710	−·008	29·663	92·8	77·6	15·2	99·4	73·1	26·3	87·3	87·6	83·7	−2·0	75·2	78·9	79·7	77·9
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain . .		23·071	22·020	·051	23·041		23·004	71·1	56·6	14·5	75·4	50·6	24·8	66·6	68·1	63·4			61·0	61·8	
	Kalabagh . .																					
	Katmandu . .	4,388	25·568	25·487	·081	25·525	+·135	25·480	81·6	68·0	13·6	85·8	65·7	20·1	75·7	78·6	74·4	−0·7	65·9	69·9	71·6	69·1
	Kodaikanal . .	7,688	22·765	22·711	·054	22·738		22·673	65·2	53·1	12·1	68·0	50·0	18·0	62·1	59·8	59·1		50·8	57·4	57·2	55·1
	Extra India.																					
	Seychelles . .	15	29·961	29·882	·079	29·922	−·071*	29·860	80·5	76·6	3·9	82·1	74·4	7·7	78·8	79·7	77·3	+0·9*	69·7	73·6	74·0	72·4
	Mauritius . .	181																				

N.B.—Elevations in italics indicate barometric determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Departure from old normal.

A.

stations in India, etc., in July, 1916.

Vapour tension, in inches of mercury.					Humidity.					Cloud.				Wind direction. Total number of 10 hrs. and 16 hrs. winds from											Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure % from normal.	Calms.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·916	·961	·949	·942	—·029	93	79	76	83	— 4	8·5	8·5	8·5	—0·1	0	0	2	3	8	21	26	2	0	S 13° W	S 1° W	72	63	91	88	7·60	5·11	Calcutta	5
																															VI.—Punjab.	
·830	·916	·905	·902	+·039	82	73	59	72	+ 7	4·4	1·8	3·1	—1·2	20	0	5	10	20	1	3	0	3	S 63° E	S 78° E	42	30	44	60	16·47	7·66	Lahore	11
																															IX.—Rajputana.	
·805	·803	·759	·798	—·036	82	63	52	68	— 8	5·4	6·7	6·1	—1·3	4	2	3	4	4	4	10	22	9	S 83° W	N 78° W	43	30	98	95	3·35	0·83	Jaipur	18
																															X.—Bombay.	
·890	·948	·929	·937	+·016	91	87	84	88	+ 1	8·9	9·1	9·0	+0·3	0	0	2	1	8	10	11	21	9	S 60° W	S 75° W	50	83	120	340	22·78	5·13	Bombay	25
																															XIV.—Mysore.	
·632	·658	·647	·646	+·039	96	75	65	80	+ 3	9·0	8·2	8·6		1	1	1	3	1	3	18	30	4	S 74° W	S 72° W	69	88	145	168	11·28	3·13	Bangalore	29
																															XV.—Madras.	
	·722	·683				59	47			4·7	6·3	5·7		10	6	1	2	2	7	14	10	10	S 79° W		37		95		11·06	2·88	Pudukkottai	31
·843	·871	·905	·888	+·076	90	68	70	77	+ 9	6·2	5·7	5·9	—1·4	1	3	1	7	13	7	13	14	3	S 23° W	S 51° W	35	66	96	139	3·56	1·52	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·480	·488				74	71			7·5	7·3	7·4																	14·90	2·46	Sarain.	
																															Kalabagh.	
·613	·660	·697	·661	—·032	89	75	71	78	— 3	7·1	7·9	7·5	+0·7	0	0	5	22	0	0	0	23	2	N 66° E	S 63° W	19	11	29	15	12·95	1·47	Katmandu.	
·250	·422	·439	·404		86	77	85	83		7·0	8·9	7·9		1	4	2	0	8	6	1	25	15	N 83° W		48		183		11·52	2·37	Kodaikanal.	
																															Extra India.	
·634	·761	·766	·735	—·016	69	77	75	75	— 3	7·0	7·1	7·1	+1·5†	0	0	0	0	32	27	3	0	0	S 22° E	S 33° E	90	86	299	211	5·70	2·15	Seychelles.	
																															Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 215 stations in India, etc., in July, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	+·052	87·5	+0·9	75·3	−0·2	81·4	+0·4	12·3	−1·1	−17	88	− 1	·864	−·017	7·3	−0·9	11·31	16·08	−4·77
Assam	+·097	87·0	−1·9	76·0	−1·0	81·5	−1·5	11·0	−0·2	− 1	99	− 1	·910	−·033	7·3	−0·5	18·16	18·06	+0·10
Bengal	+·113	87·7	+0·3	77·7	−0·6	82·7	−0·5	10·0	−0·8	− 4	88	− 1	·844	−·020	7·5	−0·1	14·78	15·57	−0·79
Bihar and Orissa	+·103	89·3	0	77·7	−0·3	83·5	−0·2	11·6	−0·6	+ 2	86	0	·926	+·001	7·2	0	12·10	12·81	−0·71
United Provinces of Agra and Oudh	+·080	91·3	−1·3	78·5	−1·0	84·9	−1·1	12·8	−0·5	+15	84	+ 3	·929	+·001	6·4	0			
Punjab	+·066	97·2	−2·0	79·9	−1·0	88·6	−1·5	17·3	+0·7	+17	74	+ 4	·858	+·001	5·0	+0·9	7·61	5·20	+2·41
North-West Frontier Province	+·043	103·5	+0·5	81·9	+1·1	92·7	+0·8	12·6	−0·7	+ 6	66	+ 1	·849	−·007	3·3	+0·7	3·01	3·00	+0·01
Sind	+·057	99·4	+0·3	82·8	+0·9	91·1	+0·8	16·5	−0·6	+ 4	72	− 1	·904	+·006	3·2	−1·7	1·91	2·55	−0·64
Rajputana	+·063	98·0	+2·0	80·9	+0·8	89·5	+1·4	17·1	+0·4	+ 4	66	− 6	·787	−·042	5·1	−0·7	5·40	7·07	−1·67
Bombay	+·018	88·8	+1·6	76·1	+0·5	82·5	+1·1	12·8	−4·1	−23	83	+ 1	·852	+·014	7·3	−0·7	11·72	15·61	−3·89
Central India	+·063	89·7	+1·7	76·1	+0·3	82·9	+1·0	13·6	−1·5	− 2	81	− 2	·831	−·002	6·8	−1·2	9·17	11·43	−2·26
Central Provinces	+·056	88·1	+1·6	74·2	+0·2	81·2	+0·9	14·0	−1·2	−11	84	+ 1	·815	+·020	7·1	−0·7	11·55	13·30	−1·75
Hyderabad	+·018	87·3	−0·8	72·9	+0·5	80·1	−0·2	14·4	−5·0	−17	84	+ 5	·765	+·038	7·9	+0·6	11·88	7·12	+4·76
Mysore	−·021	82·9	+2·1	67·6	+0·9	75·3	+1·5	15·3	−1·4	+13	85	+ 1	·655	+·016	7·7	−1·2	7·47	7·18	+0·29
Madras	−·010	89·9	−1·4	76·2	−0·5	83·0	−1·0	13·7	−0·9	−15	81	+ 5	·836	+·035	6·4	−0·5	9·35	6·76	+2·59

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·728		29·845	29·781	3rd	29·639	20th	78·2	75·4	82·7		74·5		79·1		9·2	86·6	27th	72·0	3rd
	Mergui	66	29·803	+·006	29·799	29·869	14th	29·723	29th	77·2	75·6	85·0	+0·3	72·2	−0·8	78·6	−0·9	12·8	89·5	17th	69·2	2nd
	Tavoy	19	29·837	−·0077	29·789	29·908	14th	29·761	20th	78·0	75·8	86·0	+2·9	74·9	+0·7	80·5	+1·8	11·1	91·0	21st	72·0	3rd
	Moulmein	94	29·768	+·044	29·800	29·863	14th	29·691	30th	77·3	75·8	85·5	+2·4	74·2	0	79·9	+1·2	11·3	92·0	21st	71·5	1st
	Rangoon	18	29·816	+·046	29·774	29·919	14th	29·732	30th	79·3	77·1	85·8	+0·6	75·6	−0·2	80·7	+0·1	10·2	90·9	21st	72·9	1st
	Bassein	27	29·797	+·047	29·760	29·890	14th	29·685	30th	79·2	77·5	86·3	+1·3	76·1	+0·1	81·2	+0·7	10·2	92·1	21st	73·9	1st, 12th & 13th
	Diamond Island	41	29·774	+·037	29·750	29·837	14th	29·669	30th	80·9	77·3	85·5	+1·1	78·1	+2·1	81·8	+1·6	7·4	87·0	7th & 8th	72·8	2nd
	Toungoo	164	29·662	+·056	29·768	29·762	13th & 14th	29·573	31st	79·5	76·8	89·6	+1·7	73·7	−1·2	81·1	+0·3	14·9	94·0	21st	70·9	13th
	Kyaukpyu	18	29·778		29·736	29·896	13th	29·657	31st	79·1	77·1	85·4		76·4		80·9		9·0	89·4	22rd	74·4	8th
	Akyab	20	29·762	+·079	29·723	29·894	13th	29·634	31st	79·4	77·6	85·3	+0·8	75·6	−1·7	80·5	−0·5	9·7	89·7	22nd	73·4	12th
3	Minbu	*165*	29·605	+·051	29·712	29·724	13th	29·506	30th	80·2	77·4	91·0	+0·2	77·3	0	84·2	+0·1	13·7	96·3	7th	74·8	15th
	Yamethin	644	29·154	+·061	29·743	29·265	13th	29·051	30th	79·0	75·2	90·0	+0·4	74·8	0	82·4	+0·2	15·2	96·5	21st	72·6	27th
	Mandalay	250	29·536	+·077	29·724	29·652	13th	29·438	30th	83·6	76·7	95·6	+1·1	78·7	+0·1	87·1	+0·6	16·9	101·9	6th & 9th	76·2	13th & 15th
	Monywa	*980*	29·488	+·063	29·716	29·608	13th	29·397	30th	82·1	77·0	94·5	−0·4	79·1	0	86·8	−0·2	15·4	100·6	6th	76·9	20th
	Lashio	*2,890*	26·993	+·024	26·939	27·101	13th	26·908	29th	72·8	70·2	83·4	+0·1	69·6	−0·2	76·5	−0·1	13·8	89·9	19th	65·6	12th
	Bhamo	*361*	29·390	+·082	29·705	29·500	14th	29·299	29th	77·9	76·5	89·1	+1·2	74·0	−1·1	81·6	+0·1	15·1	95·2	12th	69·4	12th
	Myitkyina	458	29·276	+·061	29·693	29·400	14th	29·192	29th	76·7	75·2	87·5	+0·4	74·7	−1·1	81·1	−0·3	12·8	93·2	12th	72·0	10th & 11th
	II.—Assam.																					
4	Dibrugarh	353	29·378	+·088	29·693	29·526	14th	29·298	30th	77·7	76·0	84·1	−3·1	73·9	−1·5	79·0	−2·3	10·2	90·4	31st	69·9	2nd
	Sibsagar	233	29·415	+·092	29·707	29·567	13th	29·333	29th	79·6	77·2	87·1	−2·5	75·0	−2·8?	81·0	−2·7?	12·1	91·6	31st	72·5	18th
	Tezpur	252	29·485	+·100	29·696	29·632	14th	29·396	31st	79·4	77·3	87·2	−2·2	76·9	−0·8	82·1	−1·5	10·3	91·6	31st	73·9	8th
	Gauhati	196	29·543	+·103	29·693	29·692	14th	29·455	30th & 31st	82·3	78·2	88·9	−1·5	77·1	−0·9	83·0	−1·2	11·8	92·0	31st	74·3	8th
	Dhubri	115	29·609	+·107	29·678	29·775	14th	29·507	31st	80·0	78·0	83·7	−2·4	76·9	−1·3	80·3	−1·9	6·8	89·3	31st	74·3	1st
	Silchar	104	29·659	+·095	29·716	29·825	14th	29·545	31st	79·4	77·6	88·2	−1·9	76·5	−0·7	82·4	−1·3	11·7	92·8	9th	74·4	23rd
	Srimangal	66	29·675*		29·691*	29·846	14th	29·572	31st	80·6	78·1	89·5	−0·5	75·6	−0·9	82·5	−0·7	13·9	93·5	12th	73·8	1st
	III.—Bengal.																					
5	Cox's Bazar	36	29·735		29·716	29·874	14th	29·594	31st	80·1	77·4	86·2		75·7		81·0		10·5	89·5	22nd	72·7	1st
	Chittagong	87	29·670	+·097	29·703	29·803	14th	29·539	31st	79·7	77·5	86·3	+0·5	76·3	−0·2	81·3	+0·1	10·0	89·2	22nd	72·3	1st
	Noakhali	43	29·716	+·115	29·705	29·872	14th	29·590	31st	81·0	78·2	86·9	+1·2	77·9	+0·5	82·4	+0·9	9·0	90·8	8th	73·8	13th
	Barisal	12	29·728	+·120	29·687	29·897	14th	29·601	31st	82·4	79·3	88·3	+0·9	78·2	−0·4	83·2	+0·3	10·1	92·1	9th	74·2	14th
	Narayanganj	28	29·710	+·113	29·685	29·884	14th	29·602	31st	82·8	79·3	88·0	−0·2	78·5	−0·6	83·2	−0·4	9·5	91·0	23rd	74·2	1st
	Mymensingh	63	29·672	+·107	29·687	29·839	14th	29·575	31st	80·3	78·8	86·5	−0·9	77·4	−0·8	82·0	−0·9	9·1	90·1	6th	74·9	9th
	Bogra	75	29·654	+·116	29·680	29·847	14th	29·566	30th	81·4	79·4	88·0	−0·9	77·6	−0·9	82·8	−0·9	10·4	91·8	16th	73·8	10th
	Dinajpur	123	29·591	+·116	29·668	29·785	14th	29·501	31st	80·7	78·7	86·9	−2·5	77·4	−1·2	82·1	−1·9	9·5	92·3	31st	72·2	6th
	Jalpaiguri	283	29·439	+·106	29·681	29·610	14th	29·346	31st	77·9	76·9	85·2	−3·1	75·4	−1·7	80·3	−2·4	9·9	92·9	31st	73·1	18th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B.

stations in India, etc., in July, 1916.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															I.—Burma.
7	1	6	5	8	0	2	2	0	S 81° E		4·0			37		87		·840		6·7		19		22·60			64·05			3·04	Victoria Point.
25	4	0	1	3	1	0	0	0	S 56° E	S 70° W	1·8	1·2	+6·5	10	−45	93	0	·883	−·018	6·1	−0·3	21	− 4·4	15·06	30·99	−15·93	59·34	78·48	−19·14	2·93	Mergui.
15	1	3	1	6	4	0	1	0	S 51° E	S 61° W	1·8	1·8	+0·4	27	+ 9	89	+ 4	·867	−·010	6·1	−1·7	17	−10·0	39·34	48·07	−18·73	107·78	116·23	− 8·45	7·96	Tavoy.
0	0	3	5	14	7	2	0	0	S 44° E	S 2° E	6·4	2·8	+3·6	69	+26	93	0	·872	+·004	8·9	+0·3	21	− 6·1	29·73	45·51	−15·78	95·99	101·92	− 5·93	6·10	Moulmein.
4	0	3	3	5	9	6	1	0	S 13° E	S 45° W	3·8	3·7	−0·4	49	−25	90	−3	·860	−·011	9·5	+0·5	22	− 3·2	19·32	26·93	− 1·61	54·13	50·73	+ 3·40	2·64	Rangoon.
21	0	0	1	0	3	3	2	1	S 41° W	S 18° W	2·6	3·3	−0·7	20	−45	92	− 1	·925	−·002	7·1	−0·7	16	−10·1	13·77	24·77	−10·00	61·34	58·03	+ 3·31	3·60	Bassein.
4	0	1	1	5	7	7	3	3	S 21° W	S 43° W	5·4	7·7	−2·3	46	−35	84	− 2	·888	−·023	6·2	−2·3	19	− 4·2	17·18	25·54	− 8·36	57·35	60·47	− 3·12	3·04	Diamond Island.
8	0	1	0	11	10	0	0	1	S 25° E	S 31° E	2·4	3·8	−0·4	59	−27	88	− 3	·881	−·026	7·9	−1·4	19	− 5·4	12·57	17·60	− 5·03	33·46	38·93	− 5·47	1·62	Toungoo.
25	0	0	2	2	3	0	0	0	S 53° E		0·9			17		91		·904		8·7		24		23·19			88·14			4·00	Kyaukpyu.
8	2	6	7	7	1	2	0	0	S 86° E	S 38° E	3·0	2·8	+0·2	49	− 6	92	− 2	·917	−·043	8·4	−0·6	26	− 1·6	37·54	52·77	−15·23	112·09	109·45	+ 2·64	5·15	Akyab.
1	0	0	2	21	6	0	0	0	S 41° E	S 39° E	4·1	9·0	+4·9	39	− 3	88	+ 4	·901	+·034	5·9	−1·1	8	− 0·7	9·20	4·19	+ 5·01	18·40	14·74	+ 3·66	4·70	Minbu.
5	0	0	2	12	10	1	0	0	S 28° E	S 28° E	2·9	7·6	−4·7	72	−20	83	− 2	·821	−·015	5·3	−2·1	10	+ 1·0	4·23	4·05	+ 0·18	16·86	15·29	+ 1·57	0·90	Yamethin.
9	0	0	0	15	7	0	0	0	S 31° E	S 5° E	4·0	6·6	−2·6	66	−15	72	− 3	·821	−·025	2·9	−2·4	5	− 0·9	2·35	3·26	− 0·91	11·23	14·29	− 3·06	0·69	Mandalay.
4	0	0	2	19	6	0	0	0	S 38° E		2·6			79		79	− 1	·856	−·029	7·9	−0·4	7	+ 3·4	1·86	1·70	+ 0·16	14·99	12·27	+ 2·72	0·65	Monywa.
9	0	5	1	0	3	10	1	2	S 44° W		2·3			27		88	− 1	·703	−·023	9·1	+0·2	15	− 3·0	9·82	12·48	− 2·66	17·85	29·40	−11·55	3·70	Lashio.
26	1	1	0	0	0	2	1	0	N 79° W	N 70° W	0·8	1·4	−0·6	5	−14	94	+ 1	·888	−·017	8·2	−0·3	15	− 5·3	10·26	17·28	− 7·02	27·04	37·49	−10·45	2·20	Bhamo.
31	0	0	0	0	0	0	0	0	Calm		1·5			(a)		93	+ 2	·855	−·040	8·7	−0·4	16	− 5·3	11·44	19·35	− 7·91	37·98	38·68	− 0·70	1·51	Myitkyina.
																															II.—Assam.
17	0	4	5	1	2	1	1	0	S 85° E		0·8			23		92	− 1	·874	−·035	7·0	−1·1	24	+ 2·0	28·74	20·23	+ 0·51	59·13	48·42	+10·71	3·04	Dibrugarh.
7	2	8	0	2	7	2	1	2	S 76° E	S 11° E	2·9	2·1	+0·8	10	− 5	89	− 3	·897	−·068	8·7	−0·2	18	− 1·3	13·37	16·64	− 3·27	39·96	42·61	− 2·65	2·92	Sibsagar.
30	0	0	0	0	0	1	0	0	S 45° W		2·5			3		90	− 1	·906	−·025	7·1	−1·3	14	− 2·8	6·69	12·67	− 5·98	31·24	42·27	− 1·03	1·48	Tezpur.
31	0	0	0	0	0	0	0	0	Calm		1·0			(a)		92	− 5	·910	−·040	7·6	−0·6	13	− 1·3	7·21	10·13	− 2·92	19·98	34·31	−14·33	1·21	Gauhati.
7	1	3	3	3	7	5	1	1	S 13° E	S 83° E	3·0	3·4	−0·4	30	+ 1	91	0	·930	−·021	8·7	+0·8	19	+ 3·2	22·75	16·49	+ 6·26	48·36	55·63	− 7·27	2·91	Dhubri.
27	0	2	2	9	0	0	0	0	N 67° E	N 84° E	1·1	2·0	−0·9	10	+ 3	92	+ 2	·922	−·026	7·4	−0·8	24	+ 1·2	16·96	19·12	− 2·16	40·50	56·61	−16·11	2·08	Silchar.
																89	+ 2	·928	−·015	4·8		24	+ 2·2	13·32	15·39	− 2·07	27·93	45·68	−17·75	2·26	Srimangal.
																															III.—Bengal.
8	0	0	2	14	4	2	0	0	S 37° E		3·2			62		89		·922		7·1		15		18·61			75·35			4·30	Cox's Bazar.
19	0	0	7	5	0	0	0	0	S 72° E	S 36° E	2·1	5·3	−3·2	37	−37	90	+ 2	·913	0	7·0	−0·9	13	− 5·7	17·14	21·34	− 4·20	46·71	51·04	− 4·33	4·08	Chittagong.
2	0	0	0	19	9	1	0	0	S 29° E		3·3			84		88	− 2	·923	−·024	5·6	−0·5	18	− 5·3	16·67	24·27	− 7·60	40·68	56·91	−16·23	2·56	Noakhali.
13	0	1	1	2	9	5	0	0	S 2° W	S 14° E	2·2	3·1	−0·9	43	0	87	− 2	·954	−·025	8·1	+0·3	17	− 3·7	7·96	15·23	− 7·27	33·03	39·50	− 6·47	1·16	Barisal.
1	0	0	3	6	12	8	1	0	S 2° E	S 27° E	2·7	5·7	−3·0	72	+ 1	85	− 5	·952	−·029	7·6	−0·9	9	− 8·2	12·59	12·46	+ 0·13	27·06	34·02	− 6·96	3·22	Narayanganj.
9	0	0	10	5	6	0	0	1	S 54° E	S 49° E	1·8	3·0	−1·2	53	−15	92	+ 2	·957	−·005	9·4	+1·3	22	+ 1·9	24·12	16·68	+ 7·44	40·39	48·45	− 8·06	2·42	Mymensingh.
18	0	0	0	1	10	2	0	0	S 3° W	S 48° E	1·2	3·1	−1·9	40	−25	91	+ 3	·979	+·013	8·6	+1·2	18	+ 1·5	14·34	12·33	+ 1·51	31·47	54·40	− 2·93	1·91	Bogra.
5	0	0	7	7	9	2	0	1	S 34° E	S 86° E	2·5	2·9	−0·4	59	+ 2	91	+ 1	·954	−·013	8·1	−0·2	19	+ 1·8	22·41	14·91	+ 7·50	49·05	36·09	+12·96	3·85	Dinajpur.
24	1	0	1	2	2	1	0	0	S 29° E	N 88° E	1·6			13	−44	96	+ 5	·912	−·036	6·7	+0·8	25	+ 3·4	54·64	31·59	+23·05	93·96	66·66	+27·30	7·27	Jalpaiguri.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level, in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Saugor Island	10	29·698	+·123	29·653	29·874	14th	29·558	31st	83·7	80·0	87·6	−0·3	79·3	−1·1	83·4	−0·7	8·3	89·2	23rd & 24th.	74·2	13th
	Midnapore	149	29·540	+·105	29·637	29·724	14th	29·426	31st	82·9	78·6	90·1	+0·1	82·2P	+3·7P	86·1P	+1·1P	7·9P	93·0	24th	79·1	14th
	Calcutta	21	29·683	+·115	29·651	29·865	14th	29·557	31st	82·7	79·7	89·6	+1·2	79·0	+0·4	84·3	+0·8	10·6	93·1	24th	75·0	13th
	Jessore	30	29·693	+·124	29·670	29·848	14th	29·576	31st	82·6	79·2	89·0	−0·1	78·2	−0·9	83·6	−0·5	10·8	91·8	25th	73·3	3rd
	Burdwan	99	29·598	+·112	29·645	29·800	14th	29·490	31st	81·8	78·7	89·5	−0·7	78·7	−0·6	84·1	−0·7	10·8	92·6	24th	75·8	28th
	Berhampore	67	29·634	+·113	29·650	29·833	14th	29·539	31st	81·5	78·9	89·9	+0·4	78·9	+0·1	84·4	+0·3	11·0	93·4	16th	76·7	14th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·667	+·129	29·662	29·857	14th	29·541	31st	82·2	79·2	89·7	+0·7	78·1	−0·3	83·9	+0·2	11·6	93·4	24th	75·3	24th
	Hukitala (False Point)	29	29·683	+·108	29·653	29·861	14th	29·503	31st													
	Cuttack	80	29·631	+·111	29·652	29·813	14th	29·491	31st	82·7	78·6	91·0	+1·1	79·0	+0·4	85·0	+0·7	12·0	94·7	20th	75·4	13th
	Puri	24	29·688	+·102	29·653	29·885	14th	29·519	31st	83·3	79·4	88·2	+0·5	80·7	+0·9	84·4	+0·7	7·5	91·4	26th	75·9	13th
	Angul	455	29·241	+·086	29·641	29·427	14th	29·112	31st	81·1	77·7	89·2	+1·1	77·0	−0·1	83·1	+0·5	12·2	92·4	10th	74·0	13th
	Sambalpur	436	29·206	+·089	29·641	29·390	14th	29·083	31st	80·5	77·2	88·9	+1·4	76·9	−0·5	82·9	+0·5	12·0	92·3	10th	73·7	2nd
7	Chaibasa	733	28·941	+·103	29·621	29·132	14th	28·837	31st	81·4	76·9	91·6	+1·0	77·3	+0·2	84·4	+0·6	14·3	95·1	23rd	75·2	14th
	Ranchi	2,128	27·577	+·107	29·609	27·742	14th	27·482	31st	76·6	73·5	85·1	+0·7	73·5	+0·2	79·3	+0·5	11·6	89·4	24th	70·7	14th
	Purulia	816	28·878*	+·122*	29·641*	29·069	14th	28·786	31st	80·8	77·1	90·9	+0·8	76·8	−0·1	83·9	+0·3	14·1	96·0	24th	73·2	11th
	Daltonganj	730	28·907	+·072	29·584	29·067	14th	28·823	31st	81·5	77·6	91·7	+0·4	77·4	−0·7	84·6	−0·1	14·3	97·8	2nd	73·7	2nd
8	Purnea	124	29·565	+·100	29·644	29·748	14th	29·485	27th	80·3	78·8	86·5	−3·3	77·6	−1·2	82·1	−2·3	8·9	90·5	31st	74·8	19th
	Monghyr	155	29·504		29·611	29·685	14th	29·417	31st	81·6	78·9	89·0		78·1		83·5		10·9	93·2	7th	75·3	20th
	Darbhanga	165	29·512	+·100	29·632	29·692	14th	29·430	27th	80·4	78·4	87·1	−2·4	77·8	−1·8	82·4	−2·1	9·3	90·5	26th	74·1	3rd
	Pusa	188	29·485		29·629	29·658	14th	29·400	31st	81·2	79·4	88·8		76·2		82·5		12·6	93·2	26th	72·1	3rd
	Patna	183	29·460	+·111	29·628	29·657	14th	29·406	31st	82·8	80·4	88·8	−1·8	78·8	−1·0	83·8	−1·4	10·0	93·1	1st	74·2	11th
	Buxar	239	29·405	+·093	29·599	29·572	14th	29·327	1st	81·9	79·3	90·0	+1·0	78·6	−0·4	84·3	−0·7	11·4	96·5	8th	74·8	21st
	Gaya	372	29·288	+·101	29·607	29·469	14th	29·162	31st	84·5	79·7	91·7	−0·1	79·0	+0·2	85·3	+0·1	12·7	97·9	14th	74·6	8th
	Naya Dumka	489	29·202	+·117	29·642	29·396	14th	29·114	31st	81·8	78·8	89·4	+0·2	77·8	+0·1	83·6	+0·1	11·6	93·2	24th	74·3	20th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·395	+·094	29·610	29·566	14th	29·316	1st	80·9	78·8	88·2	−2·8	78·2	−1·0	83·2	−1·9	10·0	92·0	7th	73·4	9th
	Benares	267	29·368	+·087	29·586	29·575	14th	29·292	31st	83·7	80·0	91·6	−0·4	79·1	−0·6	85·3	−0·5	12·5	98·0	8th	76·5	10th
	Allahabad	309	29·311	+·074	29·572	29·461	14th	29·238	29th	83·7	79·2	91·9	−0·6	78·5	−0·9	85·3	−0·7	13·1	100·0	8th	75·4	28th
	Cawnpore	416	29·216	+·095	29·587	29·367	14th	29·129	1st	81·8	79·0	91·0	−2·3	78·6	−1·4	84·8	−1·9	12·4	95·0	2nd	74·1	21st
	Lucknow	368	29·259	+·085	29·583	29·406	14th	29·149	1st	83·1	79·2	91·5	−1·2	78·8	−0·6	85·1	−0·9	12·7	97·8	7th	73·3	19th
	Bahraich	407	29·231	+·088	29·597	29·393	14th	29·124	1st	81·1	77·8	89·5	−2·6	77·7	−1·3	83·6	−1·9	11·8	97·7	7th	72·2	21st
10	Jhansi	824	28·801	+·035P	29·572	28·925	14th	28·715	30th	83·3	77·4	94·3	+2·4	79·1	−0·2	86·7	+1·1	15·2	105·4	9th	73·2	9th
	Agra	556	29·052	+·048	29·560	29·176	15th	28·964	29th	85·7	79·5	96·0	+1·9	81·0	+0·1	88·5	+1·0	15·0	108·3	9th	75·2	9th
	Mainpuri	516	29·096	+·073	29·566	29·224	14th	29·000	1st	83·1	79·0	92·0	−2·8	78·7	−1·7	85·4	−2·3	13·3	103·0	1st	72·3	18th
	Bareilly	568	29·050	+·077	29·577	29·203	14th	28·957	1st	81·1	78·7	89·0	−3·1	77·2	−1·6	83·1	−2·3	11·8	98·5	1st	74·0	20th & 21st.
	Roorkee	899	28·726	+·081	29·583	28·878	14th	28·621	1st	80·8	76·9	89·6	−2·5	76·3	−1·8	82·9	−2·1	13·3	96·2	3rd & 8th	70·4	28th

N. B.—Elevations in italics indicate barometrical determinations.

Mean of 30 days.

B—*continued.*

in India, etc., in July, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May, to 31st July, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															III.—Bengal—*concld.*
0	0	1	2	0	14	11	0	0	S 17° W	S 27° W	10·6	7·2	+3·4	79	+25	84	−3	·974	−·021	7·4	−1·3	10	−6·1	6·41	15·32	−8·91	30·47	30·33	+0·14	2·28	Saugor Island.
6	0	1	1	9	9	3	2	0	S 13° E		3·3			58		82	−4	·920	−·024	5·4		9	−7·3	7·92	12·78	−4·86	27·87	27·57	+0·30	2·78	Midnapore.
0	0	1	3	3	8	5	1	0	S 16° W	S 3° W	3·8	3·7	+0·1	69	+19	87	−1	·968	−·004	8·1	−0·4	7	−11·6	7·60	12·89	−5·29	28·45	30·06	−1·61	5·11	Calcutta.
16	0	0	0	6	6	3	0	0	S 9° E	S 21° E	2·8	3·0	−0·2	40	−10	85	−4	·944	−·056	8·3		10	−7·9	4·95	12·38	−7·43	19·16	32·76	−13·60	1·69	Jessore.
8	0	0	2	7	8	8	1	0	S 6° W	S 3° E	1·6	3·1	−1·5	53	+14	86	−1	·934	−·023	8·5	+0·2	8	−7·9	3·92	12·91	−8·99	21·66	28·86	−7·20	0·87	Burdwan.
1	0	1	0	7	1	6	0	0	S 11° E	S 25° E	3·1	3·3	−0·2	72	+20	89	−2	·955	−·032	7·1	−1·8	13	−2·6	5·96	10·80	−4·84	18·96	25·37	−6·41	2·00	Berhampore.
																															IV.—Bihar and Orissa.
1	1	2	1	0	17	9	0	0	S 10° W	S 37° W	3·0	4·3	−1·3	72	+18	87	+1	·960	+·015	4·9	−1·2	10	−4·6	3·32	11·10	−7·78	19·89	25·51	−5·62	0·84	Balasore.
0	0	3	9	3	7	16	1	1	S 27° W		10·6			62	−6					7·1	−1·3	14	−0·3	6·97	11·80	−4·83	21·71	24·57	−2·86	1·80	Hukitala (False Point).
18	0	0	0	0	5	4	4	0	S 41° W	S 60° W	1·8	2·4	−0·6	33	−19	83	+1	·923	+·018	6·9	−0·5	14	−1·6	3·91	11·64	−7·73	26·59	25·47	+1·12	0·63	Cuttack.
3	2	1	0	0	7	12	4	2	S 50° W		12·1			55		84	−2	·947	−·025	7·3	+0·3	11	−0·7	7·36	9·50	−2·14	17·29	19·26	−1·97	3·12	Puri.
9	1	1	3	4	1	0	1	7	E		3·0			10		85	0	·907	+·015	6·8	+0·6	15	+0·6	9·01	9·90	−0·89	22·72	19·53	+3·19	2·68	Angul.
0	1	2	4	6	8	9	1	0	S 8° E	S 34° W	2·6	3·5	−0·9	53	−7	86	+1	·889	+·003	7·9	−0·3	15	−5·4	11·32	21·37	−10·05	31·29	33·04	−1·75	1·71	Sambalpur.
20	0	0	1	0	5	4	1	0	S 20° W	S 66° W	1·9	2·0	−0·1	27	−17	81	0	·863	+·004	7·5	+0·2	11	−4·6	3·85	12·24	−8·39	15·86	24·04	−8·18	1·10	Chaibassa.
0	0	0	1	2	8	5	8	3	S 43° W	S 63° W	3·0	5·8	−2·8	62	+30	86	−2	·789	−·006	8·2	−0·1	11	−7·1	5·29	15·23	−9·94	18·73	26·65	−7·92	1·05	Ranchi.
11	0	0	0	8	7	3	1	1	S 8° E		1·9			45		84	−4	·879	−·033	7·6	+0·9	14	−2·5	7·08	12·28	−5·20	17·55	22·44	−4·89	1·45	Purulia.
16	0	0	5	3	4	4	2	0	S 18° E		1·7			19		83	0	·894	−·002	4·9	−0·9	16	+0·8	13·18	11·26	+1·92	22·97	17·44	+5·53	3·13	Daltonganj.
6	1	3	7	1	2	1	1	0	S 65° E	S 81° E	2·0	2·6	−0·6	49	−2	93	+3	·968	−·015	8·1	+1·0	24	+7·1	32·14	14·16	+17·98	46·51	29·68	+16·83	8·04	Purnea.
6	0	1	11	8	1	1	2	1	S 67° E		4·4			48		88		·948		9·2		16		8·50			17·53			1·15	Monghyr.
14	0	3	14	6	0	0	0	0	N 83° E	S 80° E	3·8	3·5	+0·3	53	−2	91	+3	·947	−·026	9·0	+1·8	20	+5·7	14·44	11·79	+2·65	20·93	22·94	−2·01	2·29	Darbhanga.
5	0	6	11	5	1	0	1	0	S 89° E*		2·9			52		92		9·77		9·3		22		10·62			20·66			1·17	Pusa.
5	0	1	17	2	2	1	2	1	S 81° E	N 81° E	4·2	3·4	+0·8	53	+11	90	+4	10·6	+·027	9·2	+1·0	11	−3·2	6·54	12·21	−5·67	18·00	21·74	−3·74	1·42	Patna.
2	0	0	15	8	4	5	3	1	S 36° E		2·9			45		89	+5	·966	+·019	7·9	+0·6	16	+2·5	13·76	11·17	+2·59	21·11	17·16	+3·95	2·70	Buxar.
4	0	7	2	1	0	12	0	0	S 19° E	S 2° E	2·4	2·9	−0·5	27	+17	80	−3	·942	+·006	2·3	−4·57	17	+1·7	15·60	12·79	+2·81	30·23	21·08	+9·15	2·75	Gaya.
11	0	0	3	3	9	3	0	0	S 17° E		2·7			53		87	0	·941	+·013	5·1	−1·9	19	+0·4	14·08	13·65	+0·43	30·97	26·37	+4·60	3·00	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
7	0	1	20	0	0	1	2	0	E	N 63° E	2·3	1·7	+0·6	58	+26	91	+4	·955	−·012	5·6	−0·8	18	+2·4	21·17	12·39	+7·78	30·16	22·77	+7·39	4·13	Gorakhpur.
1	0	1	5	9	1	11	1	2	S 8° E	S 7° E	2·5	3·4	−0·9	43	+33	84	+1	·973	+·022	7·5	−0·2	13	−1·0	9·66	11·00	−1·34	16·83	16·70	+0·13	3·09	Benares.
11	0	0	10	1	0	3	5	1	S 54° E	S 27° W	1·9	5·3	−3·4	10	+4	82	+1	·935	+·004	8·1	+1·1	11	−2·9	12·15	11·76	+0·39	32·91	16·94	+15·97	3·08	Allahabad.
4	1	3	2	6	6	7	2	0	S 7° E	S 1° E	2·2	3·4	−1·2	40	+26	88	+4	·950	+·016	4·2	−1·9	18	+5·6	13·35	10·92	+2·43	28·44	14·41	+14·03	3·40	Cawnpore.
11	0	0	8	5	2	3	2	0	S 44° E	S 82° E	1·2	2·8	−1·6	33	+9	85	+3	·955	+·017	7·9	+0·8	12	−1·2	9·79	11·85	−2·06	17·95	17·38	+0·57	3·35	Lucknow.
5	0	2	14	10	0	2	0	1	S 70° E	S 68° E	2·8	2·6	+0·2	59	+19	86	+1	·903	−·059	4·0	−1·7	13	+0·9	12·43	10·82	+1·61	14·61	18·62	−4·01	1·66	Bahraich.
2	1	1	3	1	0	13	10	0	S 61° W	S 72° W	4·0	3·2	+0·8	56	+9	77	−2	·857	−·032	3·2	−1·6	12	−1·5	10·34	11·91	−1·57	17·07	17·13	−0·06	3·39	Jhansi.
1	0	4	8	4	3	7	3	1	S 35° E	S 24° W	4·2	4·0	+0·2	30	−12	77	0	·923	+·012	7·0	+0·5	10	−1·6	9·37	9·57	−0·20	12·42	12·56	−0·14	2·18	Agra.
	1	0	5	6	4	3	4	1	S 16° E	S 41° E	1·5	1·5	0	30	+27	85	+7	·949	+·036	7·1	+0·7	17	+7·0	15·09	7·16	+7·93	18·02	10·43	+7·59	2·43	Mainpuri.
17	0	0	6	6	1	1	0	0	S 58° E	S 47° E	1·0	2·4	−1·4	37	+5	90	+6	·948	+·014	9·0	+2·4	16	+2·9	26·11	14·02	+6·09	27·90	20·14	+7·76	3·50	Bareilly.
14	0	0	0	17	0	0	0	0	S 15° E	S 38° E	2·8	2·1	+0·7	56	+17	83	+3	·868	−·002	6·3	+0·2	14	+2·1	10·60	12·36	−1·76	19·25	18·29	+0·96	2·08	Roorkee.

* Two winds variable.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of bar-dstern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab.																					
11	Delhi	718	28·898	+·061	29·574	29·034	14th	28·814	8th	82·4	77·7	93·9	−0·5	79·8	−1·1	86·9	−0·8	14·1	106·8	9th	72·6	22nd
	Hissar	725	28·863	+·076	29·537	28·965	14th	28·779	28th	87·4	77·8	101·0	+0·5	80·9	−1·0	91·0	−0·3	20·1	109·3	9th	75·7	19th
	Patiala	*818*	28·765	+·048	29·541	28·912	14th	28·656	1st	82·8	78·0	93·8	−0·8	79·2	−0·3	86·5	−0·5	14·6	105·6	9th	71·7	24th
	Ambala	892	28·714	+·070	29·564	28·863	14th	28·612	1st	81·9	77·2	94·0	−0·6	77·8	−1·0	85·9	−0·8	16·2	103·9	9th	73·3	19th & 21st.
	Ludhiana	812	28·788	+·078	29·559	28·930	14th	28·677	1st	82·4	76·6	94·4	−2·8	78·2	−2·2	86·3	−2·5	16·2	107·1	9th	71·2	20th
	Lahore	702	28·868	+·067	29·533	29·018	4th	28·751	1st	83·4	78·0	95·2	−5·3	79·6	−0·6	87·4	−2·9	15·6	111·0	9th	71·4	14th
	Sialkot	830	28·755	+·071	29·551	28·912	14th	28·618	1st	81·5	77·5	92·6	−5·3	76·9	−3·0	84·8	−4·1	15·7	107·9	1st	69·5	13th
	Rawalpindi	1,674	27·930	+·058	29·532	28·102	14th	27·814	1st	82·7	75·7	95·3	−2·1	73·9	−2·6	84·6	−2·3	21·4	110·3	1st	66·0	23rd
12	Khushab	612	28·956	+·069	29·520	29·120	14th	28·837	1st	85·8	77·7	99·2*	−3·4*	81·7	−0·6	90·4*	−2·0	17·5	119·7	9th	71·2	10th
	Lyallpur	605	28·941		29·505	29·091	14th	28·835	1st	86·0	77·4	100·2		80·8		90·5		19·4	118·5	9th	72·0	10th
	Montgomery	558	28·983	+·059	29·503	29·112	14th	28·892	9th	88·8	78·3	102·2	−2·1	83·6	−0·3	92·9	−1·2	18·6	112·4	8th	75·8	14th
	Multan	426	29·096	+·048	29·476	29·258	14th	28·959	9th	90·4	80·5	105·1	+0·8	86·3	+2·0	95·7	+1·4	18·8	111·6	8th	74·8	13th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·455	+·046	29·515	28·666	14th	28·335	1st	86·6	77·0	104·3	+1·6	80·4	+1·2	92·4	+1·4	23·9	113·5	1st	72·9	20th
	D. I. Khan	590	28·944	+·039	29·493	29·124	14th	28·782	9th	87·8	79·4	102·6	−0·5	83·3	+0·8	92·9	+0·2	19·3	111·7	8th	75·5	13th
	VIII.—Sind.																					
16	Jacobabad	186	29·341	+·061	29·481	29·490	15th	29·210	9th	90·5	81·4	109·5	+1·1	85·7	+1·1	97·6	+1·1	23·8	115·5	1st	83·8	1st, 10th & 28th.
	Hyderabad	96	29·464	+·054	29·511	29·574	15th	29·340	9th	85·6	77·6	99·6	+0·3	81·4	+0·5	90·5	+0·5	18·2	105·3	31st	78·1	31st
	Karachi	13	29·596	+·056	29·560	29·678	16th	29·473	30th	84·0	79·3	89·0	+0·8	81·4	+1·0	85·2	+0·9	7·6	95·5	15th	76·6	15th
	IX.—Rajputana.																					
7	Bikaner	*771*	28·825	+·071	29·542	28·943	15th	28·753	30th	88·6	78·0	103·5	+2·5	83·0	−0·1	93·3	+1·2	20·5	112·9	9th	75·9	15th & 23rd.
	Jodhpur	780	28·841	+·061	29·567	28·955	15th	28·722	30th	85·7	75·6	99·3	+1·6	81·9	+1·4	90·6	+1·5	17·4	105·5	7th	77·3	13th
18	Jaipur	1,131	28·216	+·064	29·574	28·316	15th	28·119	29th	83·6	76·0	95·7	+1·0	78·9	+0·4	87·3	+0·7	16·8	107·9	8th	74·0	9th & 23rd.
	Ajmer	1,611	28·036	+·055	29·564	28·141	15th	27·942	29th	82·7	74·8	94·5	+2·7	79·7	+1·7	87·1	+2·2	14·8	104·2	8th	72·2	23rd
	Kotah	832	28·792	+·062	29·567	28·911	15th	28·693	29th	86·0	77·5	97·0	+2·3	81·2	+0·6	89·1	+1·5	15·8	106·6	6th	72·2	9th
	X.—Bombay.																					
19	Deesa	466	29·196	+·061	29·610	29·302	15th	29·079	30th	85·0	78·3	100·7	+8·0?	80·5	+2·5?	90·6	+5·3?	20·2	105·0	28th	76·8	15th
	Bhuj	334	29·302	+·045	29·584	29·394	15th	29·173	30th & 31st.	84·2	77·2	94·8	+4·1	79·6	+1·6	87·2	+2·9	15·2	96·4	23rd	75·9	24th
	Jamnagar	61	29·585	+·030	29·581	29·676	15th	29·453	30th.	84·4		92·7	+1·2	78·4	−0·7?	85·6	+0·3?	14·3	96·5	1st	76·1	14th
	Dwarka	37	29·619	+·039	29·602	29·712	16th	29·449	30th	83·4	79·1	88·3	+1·6	81·0	+0·4	84·6	+1·0	7·3	91·0	27th	73·5	1st
	Rajkot	429	29·233	+·035	29·607	29·329	15th	29·097	30th	82·5	77·2	93·9	+2·8	76·4	+0·3	85·2	+1·5	17·5	101·1	4th	74·5	17th, 18th & 30th.
	Veraval	*18*	29·660	+·022	29·621	29·755	15th	29·511	30th	82·4	79·2	84·5	+0·7	80·5	+0·9	82·5	+0·8	4·0	88·9	26th	75·7	29th
	Bhavnagar Para	55	29·617	+·030	29·618	29·721	15th	29·492	30th	83·9		93·8	+0·4	79·8	+0·6	86·5	+0·5	14·6	102·6	3rd	76·6	29th & 30th.
	Surat	39	29·656	+·028	29·638	29·764	15th	29·538	30th	82·2	78·4	89·8	+1·9	78·1	+0·5	83·7	+1·2	11·2	96·9	5th	74·3	15th
	Ahmadabad	163	29·520	+·051	29·631	29·625	15th	29·398	29th	84·1	78·1	86·4	+3·7	79·3	+0·7	87·8	+2·2	17·1	103·7	2nd	74·7	22nd
25	Bombay	37	29·695	+·004	29·672	29·814	15th	29·595	30th	80·5	78·1	85·3	+0·7	78·8	+1·1	82·0	+0·9	6·5	88·7	3rd	75·4	14th
	Ratnagiri	207	29·545	−·021	29·692	29·669	15th	29·465	21st	79·7	76·9	83·5	−0·4	76·2	+0·3	79·8	−0·1	7·3	88·1	22nd	73·1	14th
	Marmagao	*60*	29·717	−·032	29·712	29·830	15th	29·625	21st	79·1	77·8	84·0	+0·3	75·6	−0·5	79·8	−0·1	8·4	88·2	22nd	73·2	14th
	Karwar	44	29·757	−·022	29·736	29·870	15th	29·644	21st	78·1	76·2	83·1	+0·2	75·3	+0·1	79·2	+0·1	7·8	88·4	2nd	72·7	15th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B—*continued.*

in India, etc., in July, 1916—*continued.*

Wind Direction. Number of winds from Calm. (24)	N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st May to 31st July, 1916. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															VI.—Punjab.
4	2	1	5	15	1	0	1	2	S 61° E	S 22° E	4·4*	3·1	+1·3	49	+27	81	+ 7	·889	+·018	5·6	−1·2	11	+1·7	5·55	8·06	−2·51	7·67	11·79	−4·12	1·18	Delhi.
2	1	0	3	12	2	5	6	0	S 8° E	S 16° W	6·0	5·2	+0·8	43	+14	65	− 2	·819	−·036	5·7	+1·2	6	+0·7	2·60	3·91	−1·31	5·47	6·17	−0·70	0·77	Hissar.
0	1	0	19	5	3	1	2	0	S 73° E		4·7			68		81	+ 3	·898	−·014	5·4	+0·4	10	+1·3	11·58	6·43	+5·13	13·09	9·26	+3·83	2·81	Patiala.
4	0	1	17	8	1	0	0	0	S 75° E	S 62° E	3·6	1·1	+2·5	79	+56	80	− 2	·868	−·045	7·4	+1·6	13	+3·3	10·37	7·88	+2·49	15·55	12·16	+3·39	2·40	Ambala.
23	0	0	0	6	1	1	0	0	S 31° E	S 34° E	1·7	1·8	−0·1	22	−13	77	+ 4	·839	−·022	4·3	−1·2	14	+5·5	12·20	8·32	+3·88	12·88	11·50	+1·38	1·80	Ludhiana.
6	0	3	3	14	3	2	0	0	S 48° E	S 42° E	1·9	2·5	−0·6	59	+20	79	+ 9	·893	+·005	5·8	+2·0	9	+3·1	16·47	5·49	+10·98	17·40	8·00	+9·40	7·66	Lahore.
5	3	6	10	2	1	0	3	1	N 64° E	S 85° E	2·8	2·0	+0·8	43	− 4	84	+13	·892	+·028	6·2	+2·6	17	+8·5	17·95	7·88	+10·07	20·86	11·53	+9·33	4·96	Sialkot.
5	0	6	7	8	4	1	0	0	S 69° E	S 82° E	2·2	1·8	+0·4	56	+31	73	+ 4	·798	+·017	6·1	+1·7	12	+3·0	7·60	8·06	−0·16	13·95	11·58	+2·37	1·76	Rawalpindi.
0	0	17	14	0	0	0	0	0	N 65° E	N 62° E	8·5	5·5	+3·0	92	+33	69	+ 5	·842	−·001	5·5	+2·8	4	−0·7	3·42	3·78	−0·36	6·32	5·96	+0·36	2·40	Khushab.
1	1	6	4	13	4	2	0	0	S 60° E		3·5			59		68		·825		3·7		4	−0·1	1·77	3·67	−1·90	2·70	5·57	−2·87	0·84	Lyallpur.
0	0	2	6	4	8	7	2	2	S 8° E	S 15° E	6·8	7·0	−0·2	43	+ 4	62	+ 4	·824	+·015	2·8	+0·3	2	−1·5	1·37	2·18	−0·81	1·59	3·62	−2·03	0·82	Montgomery.
8	5	0	1	0	13	3	1	0	S 11° W	S 89° W	1·6	2·3	−0·7	33	− 1	65	+ 2	·908	+·041	1·6	−0·4	1	−1·2	0·69	2·04	−1·35	1·37	2·92	−1·55	0·67	Multan.
																															VII.—North-West Frontier Province.
23	7	1	0	0	0	0	0	0	N 5° E	N 9° W	1·1	3·0	−1·9	27	−15	64	+ 3	·810	+·026	3·5	+0·4	1	−1·1	0·60	1·42	−0·82	2·07	2·67	−0·60	0·56	Peshawar.
8	5	15	1	1	0	1	0	0	N 39° E	N 69° E	2·3	1·8	+0·5	59	+27	63	− 2	·888	−·039	3·1	+0·9	2	−1·1	1·08	2·27	−1·19	2·04	3·36	−1·32	0·76	D. I. Khan.
																															VIII.—Sind.
7	0	0	1	22	1	0	0	0	S 45° E	S 49° E	3·6	4·1	−0·5	72	+ 7	66	0	·947	+·021	1·4	−1·1	0	−1·4	0·04	1·01	−0·97	0·60	1·31	−0·71	0·04	Jacobabad.
0	0	0	1	1	13	14	2	0	S 23° W	S 47° W	10·3	12·2	−1·9	82	+ 1	69	0	·829	0	1·8	−3·1	1	−2·3	1·81	2·92	−1·11	2·32	3·62	−1·30	1·81	Hyderabad.
2	0	0	0	0	0	5	22	2	S 86° W	S 76° W	13·1	12·6	+0·5	89	+ 5	81	− 2	·937	−·004	6·3	−0·9	3	+0·4	6·01	3·12	+2·89	6·22	4·16	+2·06	5·65	Karachi.
																															IX.—Rajputana.
0	0	0	2	1	8	13	6	1	S 37° W	S 29° W	7·2	6·1	+1·1	69	+ 5	61	− 4	·811	−·042	2·2	−1·6	4	−1·2	6·29	3·30	+2·99	11·40	5·37	+6·03	3·77	Bikaner
1	0	1	0	0	3	20	6	0	S 50° W		5·8			79		62	− 8	·750	−·065	6·6	−0·3	4	−1·0	1·42	4·21	−2·79	3·71	5·69	−1·98	0·47	Jodhpur
3	1	0	2	3	1	5	11	5	S 81° W	S 73° W	4·4	3·9	+0·5	46	+ 4	71	− 3	·798	−·029	5·8	−0·8	9	−1·6	3·85	7·87	−4·02	6·20	10·45	−4·25	0·83	Jaipur.
5	0	0	0	0	1	11	10	4	S 74° W	S 87° W	5·5	5·8	−0·3	72	+ 4	68	−11	·748	−·090	5·7	−0·3	6	−3·2	5·18	6·98	−1·80	9·66	9·76	−0·10	1·50	Ajmer.
4	1	2	0	0	0	10	8	6	S 89° W		4·7			57		68	− 3	·829	+·014	5·2	−0·6	10	−0·4	10·61	10·15	+0·46	15·52	13·28	+2·24	5·36	Kotah.
																															X.—Bombay.
1	0	0	0	3	3	18	6	4	S 54° W	S 61° W	9·3	11·2	−1·9	66	+ 1	73	− 8	·879	+·015	7·3	−0·9	3	−7·4	1·07	9·61	−8·54	3·54	11·72	−8·18	0·40	Deesa.
3	0	0	0	2	2	0	24	0	S 82° W	S 78° W	9·5	13·3	−3·8	76	− 2	71	−10?	·827	−·070?	6·6	−0·7	4	−2·5	2·49	6·65	−4·16	3·09	8·59	−5·50	1·76	Bhuj.
8	1	0	0	0	3	11	7	0	S 57° W		7·5			57		78	+ 2?	·919	+·021	7·3	+2·3?	6	−1·7	7·03	7·89	−0·86	7·59	9·81	−2·22	3·63	Jamnagar.
1	0	1	0	1	2	15	10	1	S 59° W		10·8			76		82	− 1	·931	−·021	6·4	−1·4	6	−0·4	2·58	6·69	−4·11	2·77	9·09	−6·32	0·89	Dwarka.
0	1	0	1	1	5	15	8	0	S 48° W	S 76° W	10·1	10·4	−0·3	76	− 5	78	− 5	·858	−·018	7·0	−0·8	10	−1·1	3·40	11·70	−3·30	11·27	16·03	−4·76	1·50	Rajkot.
3	1	0	0	1	3	9	13	1	S 67° W	S 75° W	9·4	9·8	−0·4	69	−14	86	− 2	·949	+·007	7·5	−0·6	11	+1·5	8·27	7·70	+0·57	8·34	11·23	−2·29	3·76	Veraval.
0	1	0	0	0	2	15	7	6	S 71° W	S 48° W	4·5	10·7	−6·2	74	− 3	86	+ 8?	·992	+·106?	7·0	−0·7	7	−2·0	7·16	6·49	+0·67	8·32	10·12	−1·80	3·70	Bhavnagar Para.
9	0	1	0	4	7	5	3	2	S 21° W	S 55° W	4·0	9·5	−5·5	40	−37	83	− 2	·916	−·003	7·9	−0·2	18	+2·5	15·21	17·54	−2·33	22·09	25·58	−3·49	3·00	Surat.
4	0	0	0	0	4	11	3	9	S 73° W	S 55° W	4·0	4·8	−0·8	56	−15	76	− 5	·885	+·002	6·4	−2·1	6	−6·5	5·51	12·18	−6·67	8·00	16·66	−8·63	3·14	Ahmedabad.
0	0	1	2	10	5	4	7	2	S 6° W	S 70° W	5·8	14·2	−8·4	43	−31	90	+ 4	·929	+·013	9·2	+0·3	18	−3·8	22·78	25·17	−2·39	46·28	44·36	+1·92	5·13	Bombay.
1	0	2	2	9	8	4	3	2	S 10° E	S 65° W	5·7	8·5	−2·8	46	−22	88	+ 1	·885	−·001	8·3	−0·3	23	−2·8	31·63	34·41	−2·78	80·26	64·68	+15·58	3·90	Ratnagiri.
3	1	0	6	10	1	1	7	2	S 32° E	N 63° W	6·5	9·6	−3·1	23	−57	94	+ 4	·933	+·020	8·8	+0·6	26	+0·5	34·70	32·10	+2·60	74·57	63·65	+10·92	5·52	Marmagao.
20	1	1	1	0	3	4	0	1	S 29° W	S 75° W	2·0	4·2	−2·2	13	−54	91	+ 5	·876	+·032	7·5	−0·5	27	−0·2	31·99	38·98	−6·99	76·74	80·31	−3·57	3·82	Karwar.

* Mean of 27 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of bar cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay—*concld.*																					
26	Malegaon	1,430	28·286	+·035	29·649	28·397	15th	28·173	29th	79·1	74·6	91·3	+3·5	73·5	+0·1	82·4	+1·8	17·8	99·4	4th	70·6	6th
	Ahmadnagar	2,154	27·598	+·014	29·558	27·872	15th	27·503	29th	75·3	71·3	86·0	+0·6	70·3	−0·3?	78·1	+0·1?	15·7	95·0	4th	67·3	2nd
	Poona	1,846	27·909	+·020	29·679	28·041	15th	27·820	30th	76·1	72·3	86·1	+3·6	72·0	+1·1	79·1	+2·3	14·1	91·2	7th	68·7	29th
	Sholapur	1,590	28·153	+·004	29·672	28·277	15th	28·077	29th	76·2	72·3	87·3	−2·0	72·2	+0·3	79·8	−0·9	15·1	97·0	3rd	68·1	4th
	Bijapur	*1,948*	27·812	−·003	29·680	27·935	15th	27·738	20th	74·8	70·7	86·8	+0·1	71·0	+0·3	78·9	+0·2	15·8	92·4	3rd	69·3	4 days
	Belgaum	2,562	27·256	+·003	29·720	27·358	15th	27·173	20th	71·2	69·7	80·1	+4·4	67·6	+0·6	73·9	+2·5	12·5	85·2	22nd	65·8	17th
	XI.—Central India.																					
30	Neemuch	1,626	28·054	+·058	29·606	28·163	15th	27·949	29th	79·4	74·6	90·8	+2·8	75·3	+0·9	83·0	+1·9	15·5	100·1	7th	70·2	12th
	Indore	1,823	27·875	+·046	29·623	27·997	15th	27·781	30th	77·4	73·7	87·7	+2·6	73·6	+0·9	80·7	+1·7	14·1	95·6	5th	71·1	10th
31	Nowgong	754	28·878	+·070	29·581	29·002	14th	28·794	30th	81·8	77·3	91·3	+0·8	77·8	−0·8	84·6	0	13·5	98·9	8th	74·3	18th
	Sutna	1,041	28·595	+·079	29·579	28·744	14th	28·513	29th	81·7	76·7	88·9	+0·5	77·7	+0·2	83·3	+0·3	11·2	95·8	8th	72·0	29th
	XII.—Central Provinces.																					
22	Buldana	2,134								75·1	72·0	84·8	+0·8	71·3	+0·5	78·1	+0·7	13·5	91·6	2nd	68·7	9th
	Akola	925	28·771	+·034	29·640	28·908	15th	28·664	29th	79·4	75·4	90·6	+1·5	75·0	+0·6	82·8	+1·1	15·6	97·5	3rd	72·5	12th
	Amraoti	1,215	28·485	+·041	29·643	28·623	15th	28·380	29th	78·3	74·6	89·1	+1·4	74·8	+1·1	82·0	+1·3	14·3	94·8	1st & 2nd	72·2	4th
23	Khandwa	1,014	28·646	+·045	29·636	28·764	15th	28·540	30th	78·7	75·0	89·7	+1·8	76·0	+0·5	82·8	+1·1	13·7	96·3	4th	72·3	29th
	Hoshangabad	1,006	28·680	+·063	29·628	28·819	15th	28·585	29th & 30th.	80·5	76·4	89·5	+1·9	75·9	+0·5	82·7	+1·2	13·6	97·1	5th & 7th	73·2	9th
	Saugor	1,807	27·861	+·051	29·588	27·984	15th	27·774	29th & 30th.	78·4	74·3	88·7	+2·8	74·2	+0·1	81·5	+1·5	14·5	98·6	5th	70·8	8th
	Jubbulpore	1,327	28·331	+·061	29·594	28·469	14th	28·237	30th	79·4	75·2	88·9	+2·4	75·7	+0·9	82·3	+1·7	13·2	95·1	5th	72·7	4th
	Seoni	2,033	27·676	+·070	29·623	27·811	15th	27·573	25th	77·5	73·9	84·8	+0·5	70·8	−1·7	77·8	−0·6	14·0	90·9	2nd	68·6	13th
	Nagpur	1,017	28·672	+·056	29·632	28·810	15th	28·563	29th	75·4	75·4	89·5	+1·5	75·2	0	82·4	+0·7	14·3	96·3	3rd	71·9	4th
24	Pendra	2,040	27·666	+·096	29·622	27·810	14th	27·558	29th	77·4	74·1	85·3	+0·8	71·9*	−1·6*	78·5*	−0·4	13·4	89·6	2nd & 3rd.	70·4	1st, 7th & 14th.
	Raipur	970	28·709†	+·065†	29·622†	28·857	14th	28·607	29th	79·0	76·5	89·1	+2·3	75·8	+1·0	82·5	+1·7	13·3	95·9	3rd	72·4	1st
	Chanda	*634*	29·058	+·026	29·697	29·184	14th & 15th.	28·955	29th	79·8	76·4	89·9	+1·3	75·8	+0·1	82·9	+0·7	14·1	97·9	3rd	73·0	16th & 17th.
	Jagdalpur	1,813	27·907		29·638	28·037	14th	27·799	31st	76·9	73·4	86·0		72·0		79·0		14·0	93·4	24th	68·2	3rd
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·834	+·017	29·659	27·942	15th	27·742	29th	75·6	72·1	86·2	−0·4	71·7	+1·2	79·0	+0·4	14·5	94·4	3rd	69·7	21st
	Nizamabad	1,218	28·477	P	29·661	28·663	15th	28·399	29th	78·0	73·7	89·0	+0·5	74·3	+0·5	81·6	+0·5	14·7	98·1	3rd	71·7	5th & 6th
	Bidar	*2,165*								74·7	72·0	83·7	−2·1	70·4	+2·0	77·1	−0·1	13·3	92·0	2nd	68·4	14th & 17th.
28	Gulbarga	1,503	28·243	+·001	29·685	28·359	15th	28·179	20th	7[illegible]·3	71·5	87·8	−1·4	71·9	+0·1	79·9	−0·7	15·9	96·2	3rd	69·0	4th
	Raichur	*1,311*	28·455	+·014	29·702	28·571	15th	28·374	20th	76·8	75·4	88·0	−2·0	73·0	+0·1	80·5	−0·9	15·0	94·8	2nd	70·0	4th & 17th
	Hyderabad (Deccan)	1,738	28·029	+·020	29·672	28·149	15th	27·967	31st	76·3	73·2	86·8	−0·7	73·4	+0·1	80·1	−0·3	13·4	94·1	2nd	70·2	8th
	Hanamkonda	877	28·849	+·036	29·667	28·975	15th	28·783	28th & 31st.	79·5	74·9	89·3	+0·5	75·5	−0·5	82·5	0	13·8	95·6	27th	70·0	13th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·408	−·007	29·711	27·517	15th	27·320	20th	73·2	69·4	85·5	+3·5	69·5	+1·0	77·5	+2·3	16·0	90·9	23rd	67·8	5th & 15th.
	Hassan	3,149	26·721	−·016	29·728	26·808	15th	26·530	20th	69·9	67·6	80·2	+2·9	66·2	+1·0	73·2	+1·9	14·0	85·2	22nd	62·9	15th
	Bangalore	3,021	26·838	−·022	29·723	26·930	15th	26·731	20th	70·4	67·9	82·8	+0·7	67·0	+1·1	74·9	+0·9	15·8	86·6	2nd	64·7	17th
	Mysore	2,518	27·321	−·037	29·731	27·419	15th	27·207	20th	72·5	68·7	83·3	+1·0	67·7	+0·7	75·5	+0·9	15·6	89·0	22nd	64·5	1st

* Mean of 24 days.
† " " 23 "

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in July, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															X.—Bombay—*concld.*
9	0	0	1	0	3	14	2	2	S 47° W	S 75° W	5·7	10·6	−4·9	53	−33	81	+ 5	·799	+ ·048	6·9	+0·2	10	+1·9	6·90	4·95	+1·95	13·26	10·26	+3·02	2·22	Malegaon.
5	2	0	0	3	3	6	6	6	S 76° W	S 74° W	3·8	15·1	−11·3	40	−35	82	+ 2	·714	+ ·012	6·5	−0·7	16	+9·7	12·51	3·39	+9·12	17·69	9·11	+8·58	5·18	Ahmadnagar.
0	0	0	2	2	0	2	24	1	S 35° W	S 76° W	7·9	12·3	−4·4	76	−10	83	+ 1	·743	+ ·035	4·4	−4·2	16	+3·3	6·21	7·43	−1·22	11·54	13·12	−1·58	1·31	Poona.
2	0	1	1	0	3	10	10	4	S 70° W	S 69° W	6·2	10·5	−4·3	62	−22	83	+ 9	·741	+ ·048	9·2	+1·1	17	+9·4	12·56	4·28	+8·28	18·91	10·01	+8·90	1·50	Sholapur.
4	1	1	0	0	1	6	16	2	S 85° W	S 74° W	4·8	7·4	−2·6	69	−16	81	+ 1	·701	+ ·007	7·0	−0·7	12	+8·0	5·75	2·00	+3·75	10·49	6·53	+3·96	1·25	Bijapur.
10	0	2	0	0	1	10	7	1	S 66° W	S 77° W	11·9	19·3	−7·4	46	−41	92	− 1	·704	+ ·019	8·0	−1·3	12	−10·3	7·10	15·97	−8·87	20·93	26·80	−5·87	1·47	Belgaum.
																															XI.—Central India.
3	0	0	0	0	3	7	18	0	S 71° W	S 71° W	7·5	8·9	−1·4	79	− 1	80	− 3	·795	−·010	6·8	−0·3	10	−0·5	6·72	8·87	−2·15	15·10	13·24	+1·86	2·94	Neemuch.
2	1	0	0	2	1	1	16	8	N 81° W	S 81° W	5·1	4·9	+0·2	69	− 6	83	− 3	·784	+ ·004	8·1	−0·8	14	+1·3	9·75	9·84	−0·09	19·35	15·95	+3·40	1·58	Indore.
3	0	1	5	2	6	4	9	1	S 32° W	S 84° W	2·0	3·1	−1·1	33	−25	81	0	·874	− ·009	6·5	−1·5	13	−1·2	6·52	13·69	−7·17	17·00	20·45	−3·45	1·88	Nowgong.
4	0	2	0	0	14	9	2	0	S 21° W	S 74° W	2·9	·7	−3·8	69	+24	80	− 2	·869	+ ·008	5·8	−2·2	10	−5·0	5·52	13·93	−8·41	27·83	20·13	+7·70	1·66	Sutna.
																															XII.—Central Provinces.
0	0	0	1	1	1	5	15	8	N 89° W		5·5	6·8	−1·3	74		86		·749		7·7		18	+4·6	21·04	9·02	+12·02	31·70	15·97	+15·73	2·94	Buldana.
1	0	0	0	0	3	6	12	9	S 88° W	N 88° W	4·8	6·6	−1·8	76	− 6	83	+ 4	·823	+ ·038	8·9	+0·6	16	+3·8	11·20	10·03	+1·17	20·00	15·52	+4·48	1·83	Akola.
7	0	0	0	2	0	6	9	7	S 88° W	S 88° W	8·9	6·6	+2·3	56	−27	85	+ 1	·811	+ ·021	8·7	+0·9	15	+2·6	6·50	9·47	−2·97	17·27	16·58	+0·69	0·86	Amraoti.
8	0	0	0	0	3	2	14	4	S 85° W	W	5·6	6·9	−1·3	59	−27	84	+ 4	·820	+ ·035	5·5	−2·0	14	+3·2	9·58	8·93	+0·63	16·97	14·44	+2·53	1·70	Khandwa.
10	0	0	0	0	0	21	0	0	S 45° W	S 54° W	2·0	3·5	−1·5	69	− 6	83	− 4	·856	+ ·013	6·3	−2·0	13	−2·1	8·86	15·75	−6·89	18·34	22·17	−3·83	1·65	Hoshangabad.
2	0	0	0	0	2	3	17	7	N 88° W	S 80° W	4·9	4·7	+0·2	79	+ 8	82	− 3	·790	−·005	6·7	−0·8	14	−1·8	8·04	14·56	−6·52	13·20	21·95	−8·75	1·78	Saugor.
3	0	0	0	7	8	6	5	2	S 25° W	S 74° W	2·2	3·4	−1·2	56	− 9	82	− 4	·819	−·006	7·9	−0·2	19	+1·2	12·98	18·44	−5·46	20·88	26·62	−5·74	2·07	Jubbulpore.
1	3	0	0	1	6	8	0	6	S 72° W	S 76° W	3·3	4·5	−1·2	53	−12	84	− 2	·787	+ ·007	7·0	−0·1	16	−2·3	8·57	15·87	−7·30	19·90	25·43	−5·53	2·71	Seoni.
2	1	0	0	0	2	8	0	12	N 85° W	S 76° W	4·4	6·4	−2·0	66	− 2	83	0	·824	+ ·007	7·9	−0·3	19	+2·4	12·81	11·38	−1·57	24·74	23·84	+0·90	2·06	Nagpur.
23	0	1	0	2	4	0	0	1	S 19° E		2·8			13		86	+ 1	·800	+ ·017	4·8	−2·4	16	−1·3	12·03	14·52	−2·49	24·44	23·62	+0·82	2·15	Pendra.
2	1	0	0	2	7	13	0	0	S 39° W	S 49° W	3·5	8·1	−4·6	69	+ 4	89	+ 3	·879	+ ·039	6·5	−1·5	15	−0·7	8·99	14·95	−5·96	20·31	24·26	−3·95	2·82	Raipur.
2	0	3	2	5	6	7	5	1	S 14° W	S 69° W	3·4	4·4	−1·0	40	−38	85	+ 6	·865	+ ·056	7·4	−0·4	19	+2·0	12·40	17·14	−4·74	22·09	25·01	−2·92	1·79	Chanda.
1	0	0	0	0	8	17	4	1	S 41° W		3·3			82		85		·775		7·4		16		10·72			17·51			1·40	Jagdalpur.
																															XIII.—Hyderabad.
3	1	0	0	0	1	5	16	5	W		7·3			74		84	+ 3	·744	+ ·020	9·6	+1·4	16	+4·5	17·04	6·66	+10·38	24·12	12·52	+11·60	5·50	Aurangabad.
5	1	1	0	1	4	9	8	2	S 61° W		3·4			53		81	+ 2	·774	+ ·015	8·4	+1·5	10	−4·0	8·81	10·26	−1·45	16·19	15·44	+0·75	1·78	Nizamabad.
1	0	2	0	0	1	15	5	7	S 75° W		7·9			61		87	+ 1	·751	+ ·022	8·1	+2·3	16	+5·0	15·42	8·03	+7·39	20·86	13·79	+7·07	3·40	Bidar.
4	0	2	1	1	1	9	10	3	S 74° W	S 84° W	4·1	11·5	−7·4	53	−28	87	+ 7	·736	+ ·011	7·6	−0·3	15	+5·5	13·01	6·21	+6·83	19·25	12·53	+6·72	3·13	Gulbarga.
0	1	1	0	1	2	17	4	5	S 62° W	S 50° W	7·1	10·9	−3·8	66	− 3	84	+ 9	·774	+ ·064	5·8	−1·0	13	+3·7	9·67	5·25	+4·42	17·35	9·70	+7·65	2·80	Raichur.
2	0	1	0	1	1	11	13	2	S 71° W	N 85° W	3·5	7·2	−3·7	72	−20	86	+ 8	·776	+ ·069	8·2	+0·4	16	+6·2	14·37	5·90	+8·47	20·23	11·16	+9·07	4·30	Hyderabad (Deccan).
0	1	0	0	8	9	7	4	2	S 15° W		3·5			59		80	+ 7	·803	+ ·063	7·6	+0·1	11	−1·5	8·24	9·50	−1·26	21·06	15·89	+5·17	2·43	Hanamkonda.
																															XIV.—Mysore.
2	1	0	0	1	1	8	15	3	S 79° W	S 72° W	5·9	8·5	−2·6	72	−21	82	− 1	·669	+ ·005	8·5	−0·6	10	+1·3	3·74	3·20	+0·54	11·80	9·58	+2·22	1·15	Chitaldrug.
4	1	0	0	1	0	8	13	4	S 82° W	S 87° W	6·3	3·7	+2·6	68	−21	89	+ 3	·647	+ ·013	6·5	−2·7	10	−2·4	5·20	5·27	−0·07	18·52	14·52	+4·00	1·50	Hassan.
0	1	0	0	1	1	11	14	3	S 74° W	S 66° W	6·1	7·0	−0·9	79	−11	88	+ 3	·655	+ ·032	8·7	+0·2	14	+5·7	11·28	4·17	+7·11	19·63	11·38	+8·25	3·13	Bangalore.
1	0	0	0	0	0	16	12	2	S 68° W	S 67° W	5·9	10·5	−4·6	89	− 1	81	− 1	·651	+ ·013	7·1	−1·6	7	+0·2	3·76	2·52	+1·24	13·89	10·48	+3·41	1·44	Mysore.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·749	—·050	29·753	29·837	15th	29·619	21st	77·8	75·5	83·8	+0·1	74·7	+1·2	79·2	+0·7	9·1	87·1	22nd	71·5	4th
	Calicut	27	29·801	—·055	29·757	29·889	1st	29·650	21st	77·4	75·9	82·9	+0·8	75·2	+1·3	79·1	+1·1	7·7	85·8	22nd	73·8	10th & 29th.
	Cochin	9	29·839	—·055	29·776	29·921	1st	29·705	21st	78·8	75·5	84·9	+1·1	74·6	+0·6	79·8	+0·2	10·3	87·5	2nd	70·3	19th
	Trivandrum	198	29·643	—·051	29·772	29·715	1st	29·508	21st	77·9	74·5	83·2	+1·3	74·1	—0·8	78·6	+0·3	9·1	86·3	18th	71·5	19th
31	Pamban	37	29·756	—·038	29·721	29·841	15th	29·655	21st	82·5	76·7	88·1	—1·4	78·8	—0·5	83·5	—0·9	9·3	89·2	14th, 16th & 23rd.	76·5	19th
	Madura	447	29·337	—·036	29·713	29·436	15th	29·242	21st	82·1	74·7	94·1	—2·8	76·2	—0·2	85·2	—1·5	17·9	100·6	1st	72·7	19th
	Pudukkottai	318	29·474	—·026	29·722	29·588	15th	29·376	21st	81·6	74·3	95·3	—0·5	75·6	—1·4	85·5	—0·9	19·7	101·1	1st	68·9	28th
	Negapatam	31	29·756	—·023	29·716	29·850	15th	29·665	21st	83·1	78·7	93·7	—2·2	78·1	—0·3	85·9	—1·3	15·6	99·4	1st	74·1	23rd
	Trichinopoly	255	29·535	—·028	29·723	29·657	15th	29·439	21st	81·3	74·6	94·2	—3·2	75·9	—2·0	85·0	—2·6	18·3	101·7	7th	71·8	23rd
	Coimbatore	1,341	28·469	—·022	29·741	28·568	15th	28·371	21st	76·4	72·3	86·9	—0·8	71·5	+0·7	79·2	—0·1	15·4	91·0	17th	69·4	4th
	Salem	913	28·883	—·020	29·728	28·991	15th	28·784	20th	78·5	74·1	92·1	—1·0	74·1	+0·9	83·1	—0·1	18·0	100·0	7th	70·1	17th
	Cuddalore	37	29·735	—·023	29·702	29·826	14th	29·637	20th	82·8	77·2	92·4	—3·4	77·6	—0·4	85·0	—1·9	14·8	97·6	1st	71·8	24th
	Vellore	707	29·063	—·015	29·705	29·184	15th	28·974	20th	79·8	75·8	92·1	—2·0	74·3	—2·7	83·2	—2·3	17·8	100·1	2nd	71·0	9th
	Madras	22	29·738	—·017	29·691	29·858	15th	29·641	20th	82·6	77·7	93·0	—2·8	77·6	—1·2	85·3	—2·0	15·4	99·4	2nd	73·0	5th
32	Cuddapah	423	29·332	—·015	29·695	29·450	14th	29·217	20th	81·4	75·9	94·0	—1·8	77·3	—0·6	85·6	—1·2	16·7	99·8	8th	72·5	11th
	Bellary	1,475	28·292	—·013	29·695	28·400	15th	28·198	20th	78·2	72·1	91·7	+0·7	74·2	—0·8	82·9	—0·1	17·5	96·5	13th	71·4	18th
	Kurnool	923	28·847	+·015	29·706	28·968	15th	28·746	20th	78·3	73·6	90·1	—1·7	75·2	+0·4	82·6	—0·7	14·9	95·2	7th & 24th.	69·8	17th
33	Nellore	66	29·677	—·006	29·678	29·803	15th	29·590	20th	83·2	77·2	94·3	—2·9	77·9	—1·8	86·1	—2·3	16·4	100·0	7th	73·7	30th
	Masulipatam	15	29·733	+·028	29·683	29·874	15th	29·642	31st	80·3	77·8	88·1	—4·5	76·3	—1·9	82·2	—3·2	11·8	94·1	7th	71·2	8th
	Cocanada	26	29·723	+·061	29·686	29·869	14th	29·609	31st	81·6	78·4	87·7	—3·4	77·5	—1·4	82·6	—2·4	10·2	94·8	2nd	73·4	12th
	Waltair (Vizagapatam)	*226*	29·502	+·077	29·670	29·656	14th	29·351	31st	80·4	77·5	86·3	—2·6	76·7	—1·8	81·5	—2·2	9·6	90·0	26th	71·9	3rd
	Calingapatam	19	29·698		29·655	29·860	14th	29·563	31st	82·1	78·1	89·5		78·4		83·9		11·1	94·4	26th	74·8	3rd & 14th.
	Gopalpur	33	29·674	+·096	29·647	29·860	14th	29·527	31st	83·1	78·8	88·7	+1·3	80·2	+1·2	84·5	+1·3	8·5	92·0	2nd	77·2	14th
	Bay Islands.																					
1	P. V. Fraser	8	29·691		29·648	29·847	14th	29·550	31st	83·9	80·1											
	Port Blair	58	29·771	+·006	29·759	29·855	14th	29·663	30th	80·6	77·5	86·1	+0·7	76·9	—0·6	81·5	+0·1	9·2	89·0	16th	73·5	29th
	Kashmir.																					
13	Muzaffarabad*		27·256			27·390	14th	27·171	17th	78·0	71·4	92·9		72·5		82·7		20·4	102·0	1st	68·1	13th
	Srinagar	5,204	24·714	+·041	24·685	24·877	14th	24·636	28th	70·8	65·7	84·8	—0·2	65·2	+1·2	75·0	+0·5	19·6	91·1	7th	58·4	4th
	Gulmarg	8,569	21·782	+·018	21·750	21·903	14th	21·708	1st	61·6	57·2	68·2	—0·4	50·8	+0·4	59·5	0	17·4	76·5	8th	42·3	25th
	Dras	*10,059*	20·736	+·030	20·704	20·861	14th	20·675	20th	59·2	51·4	72·5	—6·4	49·0	+1·4	60·7	—2·5	23·5	79·7	7th & 8th.	42·1	4th
	Leh	*11,503*	19·680	+·033	19·648	19·801	14th	19·619	9th	58·5	49·4	74·1	—3·1	50·4	+0·2	62·2	—1·4	23·7	84·4	8th	44·0	24th
	Skardu	*7,505*	22·696	+·006	22·666	22·815	4th	22·579	18th	69·9	57·0	86·8	+1·3	61·9	+1·0	74·4	+1·1	24·9	98·1	30th	53·8	4th
	Gilgit	4,890	24·890	+·017	24·863	25·086	4th	24·747	18th	81·2	69·3	96·3	+0·4	71·4	—0·4	83·8	0	24·9	103·7	31st	62·7	3rd & 4th.

N.B. Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
* Mean of 27 days.

B—*continued.*

in India, etc., in July, 1916—*continued.*

Wind direction. Number of winds from Calm. (24)	N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st May to 31st July, 1916. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															XV.—Madras.
0	0	2	9	4	3	1	9	3	S 24° E	N 76° W	4·4	2·3	+2·1	10	−30	80	+ 2	·851	−·001	8·3	−0·6	25	− 2·7	26·31	38·64	−12·33	77·13	81·66	− 4·53	3·45	Mangalore.
18	1	0	0	2	1	1	3	5	N 76° W	N 11° W	4·2	5·8	−1·6	20	− 2	93	+ 1	·873	+·035	8·5	−0·3	22	− 4·9	22·45	31·20	− 8·75	73·86	73·18	+ 0·68	3·83	Calicut.
1	0	6	5	6	1	1	2	3	N 87° E	N 24° W	5·2	4·6	+0·6	28	− 4	85	− 3	·840	+·004	7·8	−0·4	22	− 2·2	21·90	22·88	− 0·98	62·11	62·40	− 0·29	2·50	Cochin.
6	10	1	0	0	0	0	1	13	N 25° W	N 18° W	5·3	6·6	−1·3	72	− 7	84	− 3	·797	−·011	8·0	−0·5	15	+ 1·4	5·56	7·16	− 1·60	26·20	28·80	− 2·60	1·00	Trivandrum.
10	0	0	0	3	13	4	0	1	S 5° W	S 51° W	6·5	8·8	−2·3	56	−19	76	− 1	·838	−·038	3·7	+0·3	4	+ 3·3	6·85	0·32	+ 6·53	9·03	1·24	+ 7·79	5·15	Pamban.
0	4	2	1	0	0	2	10	12	N 55° W	N 59° W	3·7	2·8	+0·9	66	+ 1	70	+ 6	·762	+·030	7·1	+1·3	11	+ 8·5	6·01	1·95	+ 4·06	9·35	6·20	+ 3·19	1·61	Madura.
10	5	0	0	1	0	4	5	6	N 61° W		3·4			42		70	+ 2	·747	−·001	4·8	−3·1	11	+ 4·8	11·06	3·98	+ 7·08	15·71	7·40	+ 8·31	2·88	Pudukkottai.
0	0	0	0	1	0	13	13	4	S 74° W	S 77° W	5·3	5·4	+0·9	82	− 1	81	− 15	·917	+·144	5·5	+0·3	4	+ 0·6	5·53	1·99	+ 3·54	7·17	5·13	+ 2·04	4·45	Negapatam.
2	1	1	0	0	1	10	13	3	S 79° W	S 86° W	4·5	7·2	−2·7	69	−18	72	+ 9	·767	+·060	4·9	−1·4	10	+ 7·8	11·87	1·31	+10·66	12·37	5·99	+ 6·48	3·73	Trichinopoly.
6	1	0	0	2	8	13	1	0	S 27° W	S 49° W	4·5	5·3	−0·8	62	−17	81	− 2	·742	0	3·9	−2·2	6	+ 1·7	2·64	1·38	+ 1·26	8·22	5·41	+ 2·81	0·66	Coimbatore.
15	0	0	1	0	1	0	14	0	S 86° W	S 25° W	3·3	3·4	−0·1	43	−30	81	+ 2	·791	+·017	7·1	+0·5	10	+ 2·7	9·76	3·84	+ 5·92	14·98	11·90	+ 3·08	2·05	Salem.
6	0	0	0	0	0	23	0	2	S 50° W	S 76° W	4·0	1·8	+2·2	76	+ 4	77	+ 3	·856	+·012	5·7	0	7	+ 1·3	5·31	3·44	+ 1·87	7·13	5·73	+ 1·40	1·77	Cuddalore.
15	0	0	0	0	0	0	13	3	N 82° W		2·4			49		84	+17	·837	+·117	5·3	−0·5	10	+ 3·0	15·51	5·06	+10·45	16·91	10·72	+ 6·19	4·38	Vellore.
3	0	0	0	0	6	14	7	1	S 49° W	S 72° W	4·0	5·8	−1·8	76	− 8	80	+11	·880	+·078	6·9	−0·2	5	− 2·2	3·56	4·09	− 0·53	7·81	7·07	+ 0·74	1·53	Madras.
1	6	1	2	1	0	2	5	13	N 42° W	S 88° W				59	−20	77	+10	·822	+·067	6·6	−1·1	10	+ 3·5	9·49	3·84	+ 5·65	12·02	8·54	+ 3·48	2·60	Cuddapah.
4	2	0	0	1	1	5	12	6	N 87° W	S 87° W	5·4	8·7	−3·3	62	−28	74	+ 8	·698	+·049	7·7	−0·2	10	+ 6·1	8·80	1·71	+ 7·09	12·38	5·79	+ 6·59	2·82	Bellary.
4	0	0	0	2	0	9	9	7	S 82° W	S 87° W	5·7			62	−10	79	+ 4	·762	+·021	7·6	−0·2	14	+ 4·6	6·94	4·89	+ 2·05	11·66	9·01	+ 2·65	1·17	Kurnool.
9	0	1	0	0	3	6	4	8	S 86° W	N 78° W	2·9	7·3	−4·4	43	−29	75	+ 9	·644	+·052	6·8	−1·2	8	+ 2·8	3·62	2·74	+ 0·88	6·20	4·70	+ 1·50	0·87	Nellore.
8	0	0	0	0	4	9	7	3	S 62° W	N 69° W	4·7	6·4	−1·7	56	−26	89	+ 8	·919	+·023	8·2	−0·2	19	+ 9·4	18·74	6·02	+12·72	25·98	11·85	+14·13	3·75	Masulipatam.
5	0	0	1	0	1	11	7	5	S 74° W	S 74° W	4·8	6·1	−1·3	53	−31	86	+ 6	·936	+·068	6·5	−1·0	16	+ 6·1	11·26	5·71	+ 5·55	18·19	11·61	+ 6·58	2·17	Cocanada.
8	0	0	1	1	4	11	6	0	S 44° W	S 75° W	4·5			56	−24	88	+10	·902	+·051	7·0	−1·4	12	+ 4·1	10·47	4·01	+ 6·46	15·74	10·90	+ 4·84	1·95	Waltair (Vizag.).
11	1	0	0	1	3	7	6	2	S 63° W		6·1			42		84		·925		4·2		9	+ 1·5	3·90	5·38	− 1·48	7·85	11·40	− 3·55	1·85	Calingapatam.
1	2	0	0	1	12	11	1	3	S 32° W	S 49° W	9·1	9·3	−0·2	62	− 3	82	− 2	·925	−·002	5·6	+0·5	4	− 6·3	1·87	7·30	− 5·43	5·42	15·07	− 9·65	0·56	Gopalpur.
																															Bay Islands.
1	1	0	0	2	10	16	1	0	S 27° W					81		84		·972		6·6		5		3·56			19·22			1·66	P. V. Fraser.
11	0	0	0	0	5	5	5	5	S 67° W	S 61° W	5·2	8·5	−3·3	43	−38	86	− 1	·901	−·020	7·4	−0·3	13	− 6·6	12·49	15·70	− 3·21	49·46	51·84	− 2·44	2·25	Port Blair.
																															Kashmir.
23	1	1	0	0	1	1	0	0	a		1·6*			a		73		·690		4·7		17		15·76			17·26†			4·45	Muzaffarabad.
8	1	2	0	9	7	2	1	1	S 21° E	S 48° E	3·0	2·8	+0·2	43	+21	76	− 8	·575	−·055	5·0	+0·5	6	+ 0·3	2·85	2·87	− 0·02	5·12	7·23	− 2·11	0·95	Srinagar.
7	3	15	5	0	0	0	0	1	N 46° E		2·3			66		78	− 1	·425	−·006	6·8	+1·8	12	+ 2·4	4·76	4·28	+ 0·48	7·97	8·05†	− 0·08	1·30	Gulmarg.
26	0	0	0	0	0	2	2	1	S 30° W		5·9			13		62	0	·312	−·026	4·1	+0·1	2	+ 0·4	0·69	0·81	− 0·12	2·59	4·61	− 2·02	0·29	Dras.
28	0	0	0	1	1	1	0	0	S	S 85° W	2·3	1·5	+0·8	8	−35	57	+ 2	·274	+·012	4·6	−0·1	3	+ 1·8	1·00	0·47	+ 0·53	1·62	0·55	+ 0·77	0·59	Leh.
23	0	0	1	1	0	2	4	0	S 60° W		3·5			13		46	− 4	·331	−·024	3·7	−0·4	0	− 1·2	0·22	0·57	− 0·35	0·62	2·18	− 1·56	0·69	Skardu.
29	0	0	0	1	0	1	0	0	S		0·3			5		55	+11	·582	+·154	2·5	−1·4	0	− 1·9	0	0·59	− 0·59	1·10	1·93	− 0·83	0	Gilgit.

* Mean of 26 days.
a Indeterminate.

† Rainfall since 1st June.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·203		25·172	25·317	14th	25·113	9th	80·0	69·4	99·6		73·8		86·7		25·8	106·1	9th	66·1	2nd
	Quetta	5,502	24·481	+·051	24·441	24·565	16th	24·408	29th	74·0	65·8	95·1	+2·3	65·8	+1·2	80·4	+1·7	29·3	98·7	29th & 30th.	57·7	1st
	Chaman	4,311	25·451	+·013	25·413	25·514	8th	25·372	28th & 29th.	84·2	71·6	101·7	+1·7	74·8	0	88·2	+0·9	26·9	104·7	8th & 29th	69·2	4th
	Kalat	6,630	23·620		23·582	23·681	8th	23·558	28th & 29th.	68·6	60·1	92·5	−0·7	60·5	?	76·5	?	32·0	97·0	27th & 29th.	55·3	1st
	Dalbandin	2,772	26·842		26·805	26·910	15th	26·757	28th	83·6	60·4	109·3		73·8		91·6		35·5	112·1	6th & 29th.	67·4	26th
	Pasni		29·602		29·562	29·682	8th & 16th.	29·490	30th	82·6	79·1	92·4		75·2		83·8		17·2	97·1	16th	71·3	21st
	Panjgur		26·505		26·463	26·571	16th	26·407	29th	80·2	70·5	104·4		75·6		89·9		28·8	103·4	29th	68·2	1st
	Robat		26·655		26·613	26·747	8th	26·557	29th	85·0	60·5	107·4		76·9		92·1		30·5	111·2	31st	73·0	21st & 22nd.
	Seistan (c)		27·805			27·910	8th	27·690	29th & 30th.	82·8	64·4	101·9		77·5*		89·9*		24·0	109·4	28th	68·0	10th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·317	+·040	24·293	24·413	14th	24·236	17th	73·7	65·1	85·0	−1·5	66·2	+0·2	75·6	−0·7	18·8	90·2	7th & 8th	60·5	2nd
	Cherat	*4,956*	25·544	+·059	25·512	25·668	14th	25·456	1st	74·6	68·3	88·0	−0·9	70·1	−0·9	79·1	−0·9	17·9	99·0	1st	61·3	23rd
	Drosh (c)		24·861			24·950	3rd & 14th.	24·775	28th	79·7	66·7	95·8	+0·1	75·0	+2·5	85·4	+1·3	20·8	100·7	26th	57·8	2rd
	Murree	8,223	23·746	+·048	23·714	23·838	14th	23·691	9th	65·5	61·6	73·4	−3·4	61·5	−0·4	67·4	−1·9	11·9	87·2	1st	5·1	4th
	Simla	7,232	23·028	+·059	22·990	23·129	14th	22·965	17th	65·6	60·0	67·4	−1·7	59·0	−1·1	63·2	−1·4	8·4	74·6	1st	55·3	2nd
	Sarain		23·057	+·042	23·019	23·161	14th	23·036	19th	63·7	59·6	71·1	−1·1	56·6	−2·2	63·9	−1·6	14·5	77·0	1st	50·6	23rd
	Kalabagh		20·097	+·032	20·059	20·198	14th	20·019	1st	51·3	49·2	55·5	−1·5	48·5	+0·4	52·0	−0·5	7·0	59·5	31st	42·1	2nd
	Chakrata	7,072	23·311	?	23·271	23·435	14th	23·243	1st	63·6	62·0	70·6	+0·8	59·6	−0·6	65·1	+0·1	11·0	74·3	1st	56·2	24th
	Mukteswar	7,592	22·768	+·041	22·727	22·891	14th	22·701	1st	59·6	58·7	67·5	−2·8	57·1	−1·2	62·3	−2·0	10·4	73·5	8th	54·4	3rd
	Darjiling	7,432	22·910	+·060	22·865	23·030	14th	22·841	1st	60·5	59·6	67·1	+0·8	57·7	0	62·4	+0·4	9·4	71·7	13th	55·6	14th & 20th.
	Shillong	4,920	25·056	+·076	25·008	25·183	14th	24·982	1st	67·2	64·5	74·1	−1·6	63·3	−1·0	68·7	−1·3	10·8	77·4	29th	59·4	10th
	Cherrapunji	4,309	25·605	+·085	25·556	25·736	14th	25·533	31st	66·5	65·8	71·0	−1·2	64·0	−1·3	67·5	−1·3	7·0	74·7	9th	62·1	4th
	Maymyo	3,516	26·359	+·064	26·304	26·462	13th	26·287	29th & 30th.	70·2	68·1	76·6	−0·6	65·8	+0·2	71·2	−0·2	10·8	81·8	19th	62·6	10th
	Pachmarhi	3,528	26·269	+·041	26·216	26·385	15th	26·164	9th & 30th.	72·1	69·9	79·1	+2·6	69·1	+1·9	74·1	+1·8	10·0	85·0	5th	67·1	4 days
	Mount Abu	3,945	25·870	+·057	25·820	25·951	15th	25·768	30th	70·1	67·5	78·9	+3·7	67·5	+1·6	73·2	+2·7	11·4	85·2	6th	64·4	3rd
	Mercara	3,781	26·125	−·036	26·058	26·211	15th	26·011	20th	65·9	65·0	73·2	+4·2	62·1	−0·1	67·6	+2·1	11·1	79·3	22nd	60·0	2nd
	Ootacamund	*7,347*	22·977	−·013	22·913	23·044	15th	22·900	20th	58·3	55·3	65·7	+4·0	51·9	−0·3	58·8	+1·9	13·8	69·8	23rd	44·2	2nd
	Kodaikanal	7,688	22·753	−·014	22·688	22·812	15th	22·671	21st	58·0	54·9	65·3	+2·6	53·1	+0·5	59·2	+1·5	12·2	68·0	6th	50·0	1st & 2nd
	Extra India.																					
	Singapore (a)	10	29·817	−·098	29·748	29·875	2nd	29·738	20th	81·2		86·3	−1·6	73·8	−0·7	80·1	−1·1	12·5	89·0	3rd & 7th	72·5	4 days
	Penang (a)	17	29·816	−·089	29·758	29·923	3rd	29·762	14th	83·4		87·7	−1·9	73·6	−0·1	8·7	−1·0	14·1	91·0	9th	73·0	12 days
	Trincomalee	99	29·694	−·054	29·722	29·776	1st	29·589	20th	78·4	74·3	92·2	+1·4	76·1	−1·4	84·2	0	16·1	96·1	3rd	72·2	14th
	Colombo	24	29·826	−·056	29·776	29·920	1st	29·707	21st	78·4	75·9	85·1	−0·5	75·8	−1·3	80·4	−0·9	9·3	89·1	15th	72·5	7th & 19th.
	Hambantota	64	29·773		29·763	29·862	1st	29·670	20th	77·9	75·4	85·4		76·2		80·8		9·2	89·9	9th	72·4	15th
	Minicoy	7	29·880	−·018		29·939	1st	29·777	20th													
	Amini Divi	*13*	29·809	−·054	29·750	29·890	1st	29·671	21st	80·0	77·2	84·8	−0·7	76·2	−1·1	80·5	−0·9	8·6	89·6	1st & 2nd	73·5	4th, 5th & 14th.
	Gyantse	12,110																				
	Pharijong	14,400																				
	Gangtok	5,667	24·395	+·059	24·350	24·482	13th & 22nd.	24·317	27th	65·4	64·3	72·2	−2·4	60·6	+4·6	66·4	+1·1	11·6	77·3	31st	57·2	7th
	Gartok (c)	15,100	15·009			15·206	10th & 13th.	14·900	7 days	46·6		66·9		41·5†		53·8†		25·4	80·8	30th	34·7	12th

N.B. – Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(c) Aneroid.

* Mean of 29 days.

† Mean of 18 days.

B—*continued.*

in India, etc., in July, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	7	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Baluchistan.
28	0	2	1	0	0	0	0	0	N 59° E		3·5			7		59		·603		0·2		5		3·45			5·42			0·91	Fort Sandeman.
25	0	0	2	3	1	0	0	0	S 53° E	S 6° W	2·5	2·4	+0·1	17	+10	65	+10	·541	+·024	1·5	+0·4	0	−1·4	0	0·74	−0·74	0·75	1·29	−0·54	0	Quetta.
2	0	0	5	9	10	5	0	0	S 22° E	S 33° W	4·6	6·9	−2·3	69	+ 9	54	+24	·647	+·277	0·7	+0·1	0	− 0·1	0	0·06	−0·06	0·41	0·20	+0·21	0	Chaman.
31	0	0	0	0	0	0	0	0	Calm	S 21° W	3·9			(a)		62	+22	·433	+·052	0·7		1	−0·4	0·12	0·62	−0·50	0·62	1·18	−0·56	0·12	Kalat.
7	2	3	0	3	6	4	3	3	S 38° W		5·0			23		21		·246		0·5		0		0			0			0	Dalbandin.
3	1	1	3	0	2	4	15	2	S 83° W		7·7			49		85		·943		2·2		0		0·04			0·04			0·04	Pasni.
24	0	0	0	0	3	2	1	1	S 40° W		4·9			17		62		·630		2·1		1		0·19			0·19			0·17	Panjgur.
11	0	2	2	1	1	10	4	0	S 43° W		4·4			33		19		·225		0·5		0		0			0			0	Robat.
2	1	0	0	0	0	0	0	28	N 43° W		14·4			92		34		·376		0		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		0·7			(a)		64	+ 7	·526	+·023	1·8	−3·5	6	−1·1	2·79	3·57	−0·78	3·71	3·54	+0·17	0·70	Para Chinar.
0	1	1	0	6	22	1	0	0	S 9° E	S 18° E	5·8	6·6	−0·8	82	+50	75	+ 7	·620	+·018	5·0	+0·9	2	− 3·2	0·68	3·86	−3·18	3·57	6·64	−3·07	0·41	Cherat.
27	0	0	0	0	0	2	2	0	S 67° W		5·5			10		50	− 3	·506	−·014	2·4	+0·7	1	−0·6	1·02	0·57	+0·45	4·35	3·58	+0·77	0·98	Drosh.
14	5	0	1	9	1	0	0	1	S 76° E	S 86° E	3·6	4·5	−0·9	23	+18	81	+ 5	·506	−·007	5·7	+0·8	16	+3·4	15·30	11·67	+3·63	23·73	18·12	+5·61	2·29	Murree.
																87	+ 1	·491	−·008	7·2	−0·8	20	+0·6	11·98	16·95	−4·97	32·81	26·54	+6·27	2·30	Simla.
																80	+ 1	·469	−·012	7·3	−0·3	22	+4·1	14·90	10·96	+3·94	30·85	18·79	+12·06	2·46	Sarain.
8	15	1	0	0	5	1	0	1	N 5° W		4·7			36		87	− 1	·330	−0·11	8·0	−0·5	23	+3·2	17·97	15·37	+2·60	39·80	23·38†	+16·42	2·09	Kalabagh.
12	0	7	2	2	0	6	2	0	S 72° E	S 48° W	6·4	4·5	+1·9	7	− 4	91	+ 2	·531	+·007	8·8	+2·9	17	−3·2	13·52	20·22	−6·70	33·30	30·47	+2·83	2·81	Chakrata.
8	0	2	9	1	1	0	9	1	N 72° E		6·5			4		95	+ 4	·483	−·018	9·2	+1·9	19	0	18·51	13·50	+5·31	36·70	21·47	+15·23	5·40	Mukteswar.
29	0	0	0	0	0	0	2	0	W	S 83° E	0·3	2·6	−2·3	6	−24	95	− 1	·501	−·023	10·0	+1·0	25	0	23·72	32·37	−2·65	68·95	63·88	+5·07	4·36	Darjiling.
22	0	0	0	0	4	4	1	0	S 29° W		2·4			30		87	0	·578	−·030	9·4	+1·5	22	+2·6	10·99	15·23	−4·36	28·00	41·64	−13·64	1·32	Shillong.
7	0	1	2	2	7	8	4	0	S 22° W		6·6			46		97	+ 1	·626	−·015	9·8	+0·7	27	− 0·3	79·16	104·70	−25·54	251·74	227·81	+23·93	7·66	Cherrapunji.
24	0	0	0	0	1	6	0	0	S 39° W		1·2			3		89	+ 2	·661	+·002	6·5	−0·5	13	+1·8	9·05	5·56	+3·49	23·28	23·89	−0·61	1·65	Maymyo.
5	0	0	0	0	1	9	10	6	S 81° W	S 85° W	3·7	7·9	−4·2	69	− 6	90	0	·708	+·037	8·0	−0·8	18	−3·3	11·69	23·93	−12·24	36·44	33·86	+2·58	3·13	Pachmarhi.
4	1	0	0	2	2	17	4	0	S 43° W	S 55° W	5·2	8·4	−3·2	69	+ 1	88	− 5	·643	−·001	7·5	−1·1	14	−3·6	7·44	22·96	−15·52	14·15	28·93	−14·78	1·18	Mount Abu.
7	0	1	0	0	0	7	13	3	S 84° W	N 84° W	3·1	7·2	−4·1	62	−28	94	− 2	·601	+·010	9·2	−0·4	19	−10·0	14·87	42·28	−27·41	63·07	73·[illegible]	−10·[illegible]	3·20	Mercara.
14	0	0	0	2	1	2	7	5	S 58° W		2·4			34		83	− 3	·406	+·016	8·4	−0·4	16	−0·5	10·21	9·02	+1·19	22·99	22·96	+0·03	2·59	Ootacamund.
0	2	0	2	0	3	2	16	6	N 85° W		7·7			66		82	+ 1	·397	+·009	5·8	−1·2	16	+4·2	11·52	5·01	+6·51	21·23	14·73	+6·50	2·37	Kodaikanal.
																															Extra India.
13	0	0	2	2	3	8	0	3	S 29° W					30						7·6	+2·4	14	+4·7	11·31	6·79	+4·52	29·35	19·67	+9·68	1·98	Singapore.
0	2	5	4	3	3	2	5	2	S 59° E					20								15	+4·9	16·25	6·53	+9·72	29·35	22·62	+6·73	4·90	Penang.
0	0	0	0	0	0	15	16	0	S 68° W	S 45° W	6·8	11·9	−5·1	96	− 4	82	+ 1	·792	−·070	5·5	+2·4	9	+6·7	5·33	1·99	+3·34	10·48	5·66	+4·82	1·11	Trincomalee.
12	0	0	0	0	2	9	6	2	S 61° W	S 65° W	4·1	6·8	−2·7	49	−34	89	+ 6	·859	−·010	9·9	+3·1	12	+4·1	13·52	5·05	+8·47	54·59	23·27	+31·22	7·25	Colombo.
0	0	9	0	0	0	16	13	2	S 69° W		11·6	11·7	−0·1	92		89		·841		5·2		9		3·38	1·40	+1·98	13·14	6·99	+6·15	0·67	Hambantota.
4	0	0	0	0	0	0	20	7	N 79° W	N 87° W	6·5	12·4	−5·9	81	− 6					7·3	+0·9	18	+4·4	17·55	8·00	+9·55	35·60	24·20	+11·40	2·75	Minicoy.
0	1	0	0	0	0	9	13	8	N 89° W		11·5			80		88	+ 5	·892	−·003	8·3	+0·6	24	+5·7	16·59	11·83	+4·76	42·38	28·64	+13·74	1·65	Amini Divi.
																															Gyantse.
																															Phari-jong.
31	0	0	0	0	0	0	0	0	Calm		0·5			(a)		94	+ 2	·590	−·011	5·8	−0·9	28	+0·3	21·12	24·90	+6·22	67·34	64·97	+2·37	3·75	Gangtok.
11	0	0	0	20	9	0	0	0	S 45° E		4·9			65						4·3		7		1·83			1·83*			0·32	Gartok.

(a) Indeterminate.

* Rainfall since 28th June.
† " " 1st "

Table

(2) Abstract of observations taken at 8 hrs. at 216

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Kashgar (c)	4,255	25·353	—·057		25·535	12th	25·140	9th	78·5	63·0	95·3	+3·4	66·8	—1·0	81·0	+1·2	28·5	105·3	8th & 9th	61·3	1st
	Kabul (c)		23·991	—·114?		24·090	13th	23·920	15th	64·3	60·2	98·7	+5·5	63·6	+3·0	81·2	+4·3	35·1	107·6	9th	58·2	22nd
	Meshed	3,104	?		?	?		?		75·5	61·9	94·0	+3·1	60·1	—3·6	77·1	—0·3	33·9	100·9	25th	50·5	10th
	Jask	13	29·561	+·045	29·527	29·666	8th	29·444	29th	85·5	80·5	93·3	—2·7	83·2	—2·3	88·2	—2·5	10·1	100·4	19th	80·4	9th
	Muscat	20	29·555	+·053	29·524	29·635	23rd	29·425	30th	87·3	81·7	93·9	+0·7	85·0	—2·5	89·5	—0·9	8·9	108·1	1st	80·0	23rd
	Bushire	14	29·497	+·020	29·472	29·580	8th	29·382	29th & 30th.	91·7	87·3	97·2	+1·9	85·2	+0·9	91·2	+1·4	12·0	108·1	15th	78·0	8th
	Busrah	25	29·512	—·013	29·505	29·597	6th	29·427	29th	93·4	79·0	106·4	+3·1	80·7	—1·1	93·5	+1·0	25·7	112·9	16th	76·8	9th & 30th.
	Kerman (c)																					
	Ispahan (c)	5,817	24·210	—·030		24·320	19th	24·120	30th	75·6	61·4	96·5	—1·3	67·6	+1·2	82·0	—0·1	28·9	101·4	26th	59·2	22nd
	Tehran (c)	4,002																				
	Baghdad	127																				
	Beirut (n)																					
	Aden	94	29·596	—·025	29·622	29·693	10th	29·513	20th	83·7	78·8	91·4	—2·0	81·8	—0·7	86·6	—1·3	9·6	96·6	5th	72·3	6th
	Zanzibar	72	30·081	—·011	30·080	30·166	31st	29·997	21st	74·2	70·3	80·5	—0·1	77·5	—0·3	78·5	—0·2	8·0	83·2	10th	69·5	16th

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(n) 8½ hrs. observations.
(c) Aneroid.

B—*concluded.*

stations in India, etc., in July, 1916—*concluded.*

Wind direction.												Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Number of winds from										Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1915, to 30th April, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																								
24	25	26	27	28	29	30	31	32		33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																																Extra India—*concld.*
23	5	2	1	0	0	0	0	0		N 18° E	N 52° W	1·6	3·6	−2·0	19	+12	41	− 5	·404	−·052	1·5	−1·1	0	−0·7	0	0·25	−0·25	0·47	1·29	−0·82	0	Kashgar.
0	0	0	2	3	2	13	9	2		S 51° W	S 68° E				61	+58	79	+35	·484	+·057	0·3	0	0	−0·5	0·01	0·13	−0·12	1·81	1·32	+0·49	0·01	Kabul.
30	1	0	0	0	0	0	0	0		N		1·0			3		44	− 2	387	−·105	0·7	+0·3	1	+0·9	0·11	0·07	+0·04	1·45	1·79	−0·34	0·11	Meshed.
1		0	4	5	0	0	0	1		S 84° E	S 66° E	12·4	11·1	+1·3	89	+32	80	+ 6	·972	−·075	3·8	+1·8	0	0	0	0·01	−0·01	0	0·06	−0·06	0	Jask.
2	1	4	10	8	0	0	0	6		N 80° E	N 72° E	3·8	3·4	+0·4	46	0	78	+ 3	1·008	−·019	3·1	−0·1	0	−0·1	0	0·02	−0·02	0	0·17	−0·17	0	Muscat.
18	0	1	2	5	3	0	1	1		S 42° E	N 37° W	5·1	6·2	−1·1	27	−17	83	+16	1·227	+·284	1·5	+0·8	0	0	0	0	0	0	0·02	−0·02	0	Bushire.
0	2	1	1	1	1	3	21	1		S 89° W		5·6*			68		51		·800		0·1		0	0	0	0	0	0·01	0·46	−0·45	0	Busrah.
																																Kerman.
29	0	0	0	1	0	0	1	0		S 20° W	N 49° W	1·2	2·6	−1·4	4	−28	45	− 7	·395	−·141	1·6	+0·9	0	−0·1	0	0·03	−0·03	0·24	0·29	−0·05	0	Ispahan.
											S 44° W		1·7													0·22			0·75			Tehran.
											N 11° W		3·4													0			0·23			Baghdad.
																																Beirut.
10	3	5	2	4	3	4	0	0		S 68° E	S 12° W	7·6	7·7	−0·1	17	−35	79	+ 8	·907	+·011	6·0	+2·6	0	0	0·25	0·03	+0·22	0·26	0·23	+0·03	0·09	Aden.
0	0	0	0	0	15	15	1	0		S 25° W	S 15° W	7·7	6·0	+1·7	74	+ 4	82	− 4	·687	−·039	9·4	+1·4	1	−4·8	0·38	2·78	−2·40	6·11	15·99	−9·88	0·20	Zanzibar.

* Mean of 30 days.

Table C.—Abstract of observations taken at 8 hrs. at 56 fourth and fifth class stations in India, etc., in July, 1916.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	79·4	77·8	89·0	−0·8	76·3	+3·5	82·7	+1·3	12·7	93·7	12th	73·1	8th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	80·2	77·5	90·3	0	75·5	−0·1	82·9	−0·1	14·8	94·4	13th	72·3	9th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	80·0	78·4	92·1	+2·8	64·0	−11·5	78·1	−4·3	28·1	96·2	12th	58·0	27th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	77·2	75·3	89·5	+0·6	74·7	−0·3	82·1	+0·1	14·6	96·5	10th	71·3	8th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	78·4	76·5	87·6	−1·4	75·1	−1·0	81·3	−1·2	12·5	95·4	31st	72·8	8th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	80·6	78·3	89·0	+0·4	74·0	...	81·5	...	15·0	93·9	22nd	63·6	3rd	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	80·4	77·4	86·6	−1·2	75·3	−0·8	81·9	−1·0	13·3	93·0	12th	73·0	24th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	79·6	77·1	88·8	−1·1	75·5	−1·1	82·1	−1·1	13·3	92·5	31st	73·2	12th	...	...	...	...	...	...	...	...	...	...	...
	Lumding *	80·8*	76·9	90·9	...	75·5	...	83·2	...	15·4	94·3	29th	71·0	18th	...	...	...	...	...	...	...	...	...	...	...
	Messa	80·8	75·6	91·8	−1·0	72·7	−3·0	82·3	−2·0	19·1	96·8	29th	68·0	4th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	76·1	75·0	87·6	−1·1	74·3	−0·9	80·9	−1·0	13·3	92·0	11th	72·1	2nd	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·9	78·2	88·1	−0·2	76·9	−0·1	82·5	−0·1	11·2	90·0	15th & 18th.	72·3	1st	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	83·9	80·2	89·5	+1·2	77·3	0	83·4	+0·6	12·2	94·1	6th	74·1	28th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	82·9	80·4	89·4	−2·3	78·2	+2·5	83·8	+0·1	11·2	92·0	16th	74·9	28th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	77·7	76·5	90·0	−1·3	73·5	−1·4	81·7	−1·3	16·5	94·1	9th	71·8	19th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	77·9	74·1	86·3	−2·7	73·0	−2·1	79·7	−2·4	13·3	93·1	31st	70·0	4th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	79·0	76·1	84·9	−3·6	73·9	−1·1	79·4	−2·3	11·0	91·1	11th, 13th & 16th.	72·0	4 days.	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 27 days.

Ad T

and fifth class stations in India, etc., in July, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	93	−2	·930	−·008	...	...	18	−1·8	12·97	17·27	−4·30	49·24	39·78	+9·46	3·10	Bishnath.
...	...	...	...	...	88	−5	·908	−·045	...	...	18	−2·5	14·17	17·59	−3·42	39·58	40·96	−1·38	2·51	Borjuli.
...	...	...	...	...	93	+2	·948	+·025	...	...	22	−1·2	13·11	18·57	−5·46	35·84	54·88	−19·05	1·80	Chandkhira.
...	...	...	...	...	91	−3	·855	−·076	...	...	26	+3·0	18·50	19·82	−1·32	41·78	46·05	−4·27	2·25	Doom Dooma.
...	...	...	...	...	92	0	·887	−·027	...	...	25	+2·7	21·38	20·18	+1·20	55·52	47·10	+8·42	4·50	Dikom.
...	...	...	...	...	90	−1	·937	−·010	...	...	20	+2·0	17·26	12·79	+4·47	28·82	30·92	−2·10	2·48	Golaghat.
...	...	...	...	...	87	−3	·839	−·016	...	...	23	−0·3	17·03	20·45	−3·42	35·99	56·03	−20·04	4·00	Hailakandi.
...	...	...	...	...	89	0	·896	−·044	...	...	22	+4·3	12·29	13·60	−1·31	28·04	33·17	−5·13	1·74	Jorehat.
...	...	...	...	...	83	...	·861	...	...	...	12	+1·5	5·71	7·08	−1·37	15·16	20·91	−5·75	1·45	Lumding.
...	...	...	...	...	78	−7	·815	−·128	...	...	24	+2·5	18·65	21·21	−2·56	38·22	42·48	−4·26	2·64	Messa.
...	...	...	...	...	95	0	·856	−·015	...	...	13	−4·0	10·56	14·62	−4·06	38·23	39·15	−0·92	1·53	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	15	−3·7	6·81	14·69	−7·88	24·75	43·59	−18·84	1·25	Comilla.
...	...	...	...	...	84	−4	·913	−·043	...	...	9	−9·3	9·27	12·87	−3·60	25·21	37·85	−12·64	2·43	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	15	−2·3	9·69	12·78	−3·09	26·26	34·48	−8·22	1·67	Faridpur.
...	...	...	...	...	84	−3	·981	+·008	...	...	13	−3·3	10·64	11·72	−1·08	25·62	31·27	−5·65	2·92	Goalundo.
...	...	...	...	...	89	+2	1·007	+·034	...	...	10	−6·0	9·30	13·77	−4·47	24·63	31·30	−6·67	3·85	Pabna.
...	...	...	...	...	...	...	...	...	...	...	12	−3·4	5·22	11·66	−6·44	18·01	32·01	−14·00	1·11	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	10	−5·1	13·54	10·66	+2·88	41·30	26·51	+14·79	3·16	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	17	+2·3	12·16	10·50	+1·66	23·71	24·30	−0·59	2·47	Malda.
...	...	...	...	...	...	...	...	...	...	...	20	+5·1	32·36	14·37	+17·99	53·14	42·92	+10·22	9·55	Rangpur.
...	...	...	...	...	95	0	·899	−·053	...	...	28	+3·2	45·04	42·82	+2·22	85·96	84·11	+1·85	6·85	Dam Dim.
...	...	...	...	...	82	−5	·797	−·146	...	...	28	+5·5	54·65	39·23	+15·42	120·16	79·67	+40·49	6·26	Kalchini.
...	...	...	...	...	88	−2	·864	−·046	...	...	26	−0·2	36·85	42·73	−5·88	87·10	85·97	+1·13	5·10	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	26	+6·6	52·23	29·53	+22·70	116·67	79·42	+37·25	5·67	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	10	−6·0	3·73	11·38	−7·65	24·07	27·85	−3·78	1·00	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	10	−5·5	7·87	12·64	−4·77	24·24	27·62	−3·38	2·39	Bankura.
...	...	...	...	...	...	...	...	...	...	...	11	−5·5	5·81	12·38	−6·57	21·48	25·56	−4·08	1·36	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	11	−7·4	6·30	13·30	−7·00	20·96	23·78	−2·82	1·83	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	16	+0·9	8·05	12·38	−4·33	19·34	23·72	−4·38	1·77	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	21	+6·5	19·17	12·55	+6·62	29·29	23·06	+6·23	4·93	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	17	+2·7	20·26	15·40	+4·86	27·87	27·68	+0·19	3·76	Motihari.
...	...	...	...	...	...	...	...	...	...	...	14	0	24·81	11·76	+13·05	34·16	19·39	+14·77	9·16	Chapra.
...	...	...	...	...	...	...	...	...	...	...	17	+2·4	12·42	12·89	−0·47	23·46	20·76	+2·70	1·44	Arrah.
...	...	...	...	...	...	...	...	...	...	...	14	+0·1	7·57	10·83	−3·26	17·16	17·76	−0·60	1·49	Dehri.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	76·3	72·5	85·3	−4·0	72·2	−3·3	78·8	−3·7	13·1	90·0	7th	70·1	14th & 28th.	18	0	0	0	0	2	3	4	4	S 84° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	78·3	74·1	91·0	...	73·9	...	82·3	...	17·4	97·9	8th	69·3	17th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	80·6	77·4	90·3	...	76·2	...	83·2	...	14·1	97·1	2nd	73·3	15th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	81·9	76·2	91·7	...	77·1	...	84·4	...	14·6	105·5	1st	70·8	15th	0	17	8	0	2	2	0	1	1	N 14° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	70·0	55·3	87·7	...	53·1	...	70·4	...	34·6	98·5	8th	47·0	15th	0	19	3	1	1	1	1	0	5	N 1° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	76·6	74·8	83·9	−3·7	72·8	−1·3	78·3	−2·5	11·1	89·7	12th	70·8	13th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	68·8	66·5	72·8	−0·7	63·7	−1·3	68·3	−1·0	9·1	76·5	13th	61·9	16th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo (d)	...	...	78·7	+1·4	58·8	+0·9	68·7	+1·1	19·9	85·1	9th	52·3	16th	19	0	0	0	0	0	1	10	0	S 85° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	96·9	−1·3	64·9	+1·6	80·9	+0·1	32·0	100·6	7th	60·1	25th	...	...	...	...	...	...	...	...	...	...	...

(d). Mean of 30 days.

C—*continued.*

and fifth class stations in India, etc., in July, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May, 1916 to 30st July, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	16	+6·0	10·63	9·29	+1·54	15·75	13·11	+2·64	1·93	Meerut.
...	...	...	...	...	...	...	...	...	...	...	20	−0·7	23·40	27·00	−3·60	45·32	36·90	+8·42	3·39	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	8	−1·8	7·15	7·82	−0·37	12·94	11·35	+1·59	2·27	Udaipur.
																				XII.—Central Provinces.
2·5	...	...	29	...	84	...	·756	...	7·1	...	19	...	15·11	...	...	25·73	...	...	3·90	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	17	+6·3	13·59	7·09	+7·50	21·82	13·17	+8·65	4·18	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	2	+1·5	1·09	0·42	+0·67	6·77	2·44	+4·33	0·88	Tinnevelly.
...	...	...	...	...	82	...	·790	...	6·6	...	13	+9·2	12·46	2·05	+10·41	14·98	5·75	+9·23	2·67	Anantapur.
...	...	...	...	...	87	...	·901	...	6·0	...	16	+7·3	9·70	5·12	+4·58	16·34	11·05	+5·29	1·55	Guntur.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	5	−8·6	15·27	8·27	+7·00	43·59	34·19	+9·40	5·30	Car Nicobar.
																				Kashmir.
...	...	...	68	...	78	...	·840	...	5·9	...	15	+4·7	17·96	11·41	+6·55	24·00	14·59	+9·41	5·40	Jammu.
...	...	...	...	...	...	...	...	...	...	...	13	+3·1	3·99	4·06	−0·07	9·87	12·99	−3·12	0·66	Sonamarg.
...	...	...	70	...	40	...	·286	...	4·7	...	2	+1·2	0·62	0·31	+0·31	0·70	2·13	−1·43	0·34	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	4	−0·2	1·34	2·35	−1·01	2·34	3·68	−1·34	0·68	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	92	+ 5	·838	−·033	...	...	27	+4·0	38·85	35·30	+3·55	75·49	70·78	+ 4·71	5·70	Panighatta.
...	...	...	...	...	98	+ 5	·691	+·053	...	...	29	+1·2	47·25	43·74	+3·51	102·88	81·85	+21·03	9·46	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	31	...	31·65	...	...	72·15	...	...	3·75	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	27	...	11·83	...	...	30·03	...	...	0·77	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bingim.
...	...	...	...	...	...	...	...	...	...	...	23	+0·9	44·56	29·74	+14·82	72·67	41·00	+31·67	5·34	Mussoorie.
...	...	...	37	...	...	...	...	...	5·7	0	5	+2·7	0·89	0·74	+ 0·15	1·52	2·04	− 0·52	0·23	Poo.
...	...	...	...	...	...	...	...	...	...	...	4	−0·3	1·15	1·39	− 0·24	1·45*	5·11	− 3·66	0·29	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	...	...	0	−0·2	0	0·07	−0·07	0·18	0·30	−0·12	0	Pishin.

* Rainfall for May wanting.

Table

Abstract of observations taken at 8 hrs. at 56 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi . . .	55·4	54·0	P	...	48·7	...	P	...	P	P	P	42·0	4 days	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Prison Island . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

and fifth class stations in India, etc., in July, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	92	...	·404	...	4·3	...	15	...	4·39	...	...	12·07	...	...	1·58	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·69	...	...	27·22	...	...	Pemba.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·81	...	...	17·98	...	...	Prison Island.

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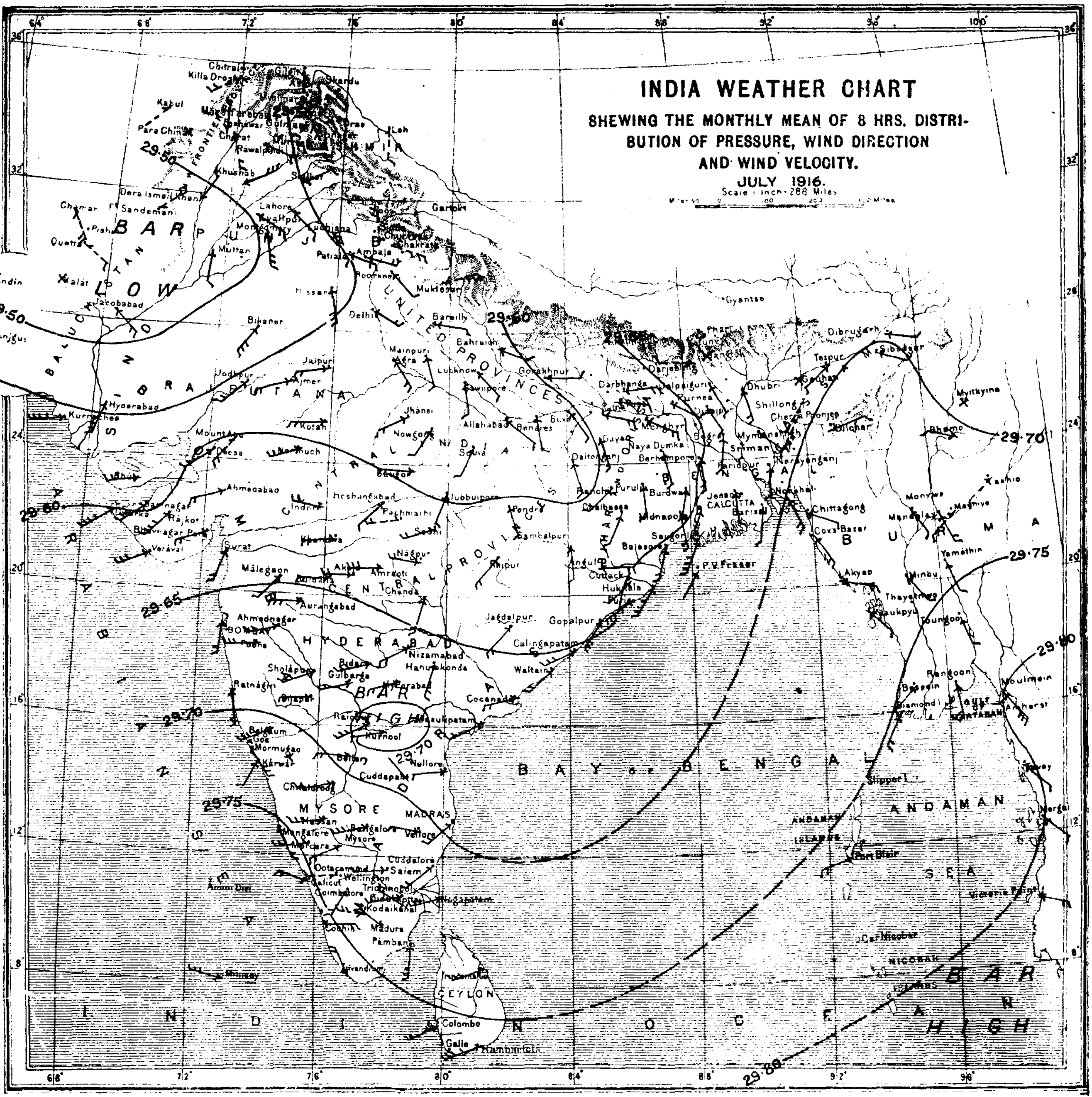
8, HASTINGS STREET.

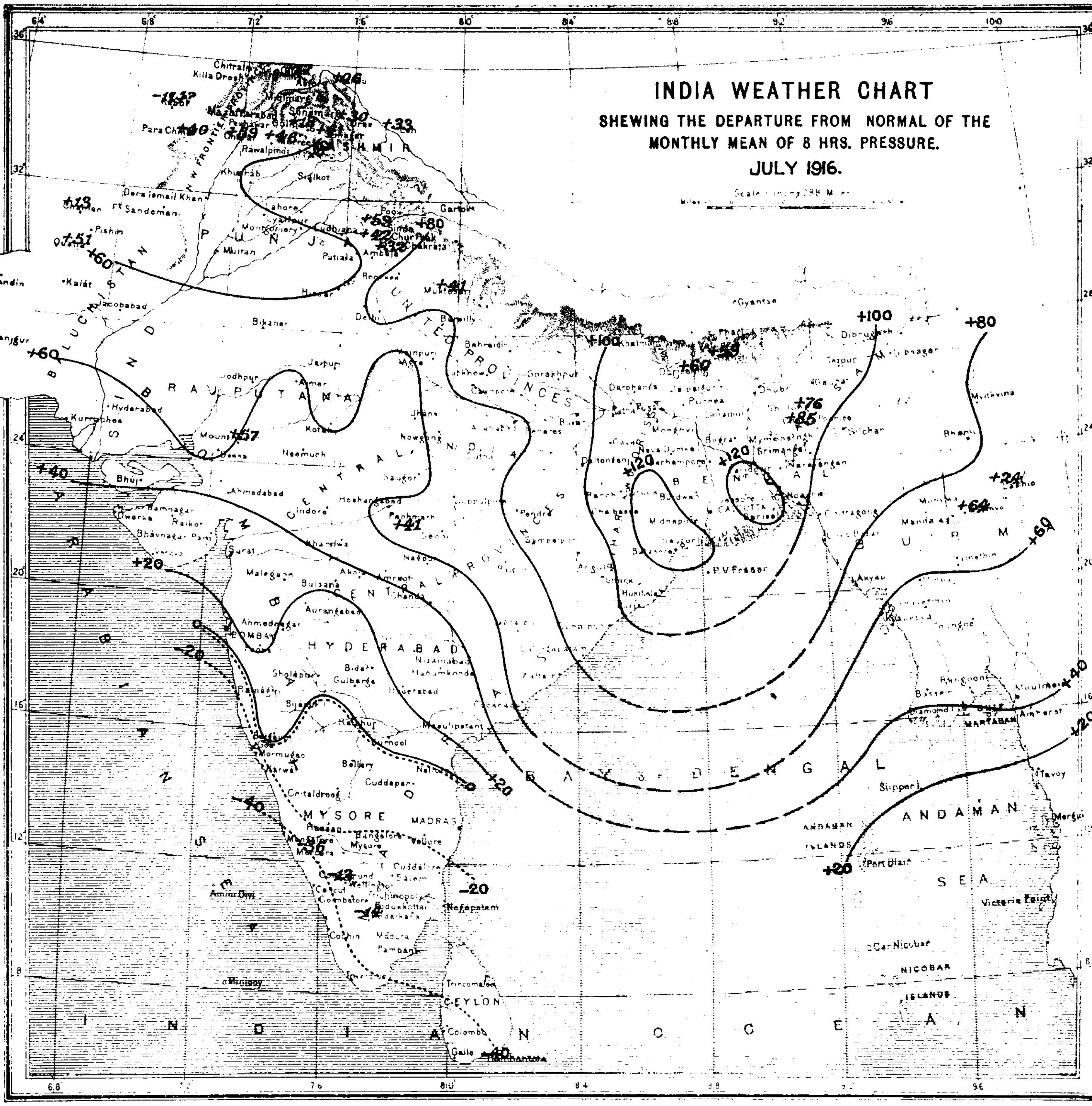


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour ...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,, ...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,, ...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,, ...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,, ...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020 or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

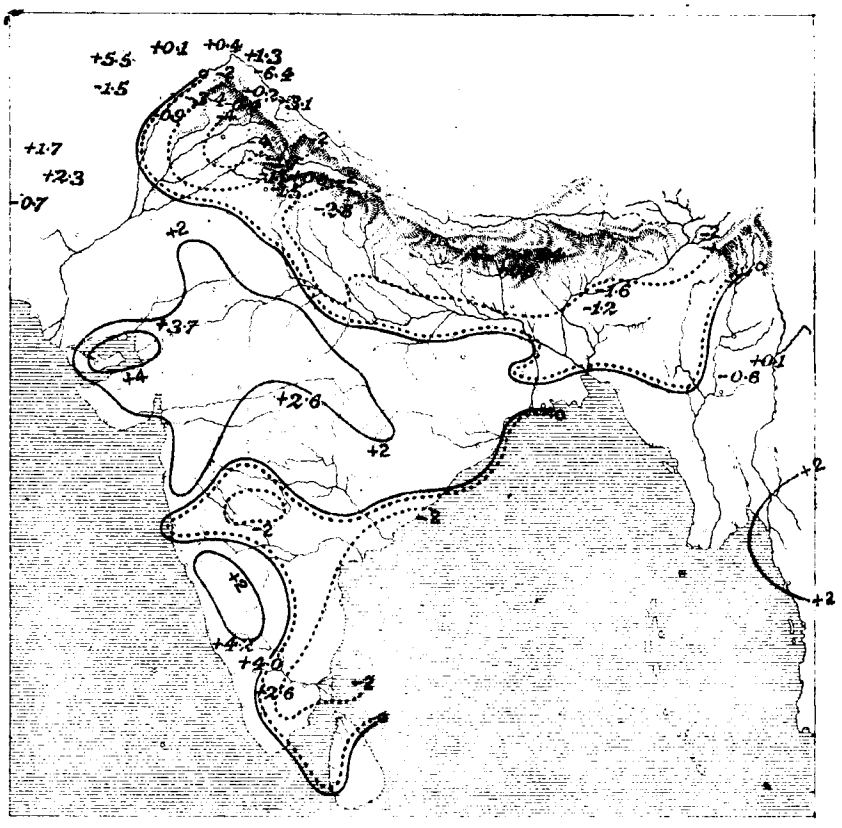


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

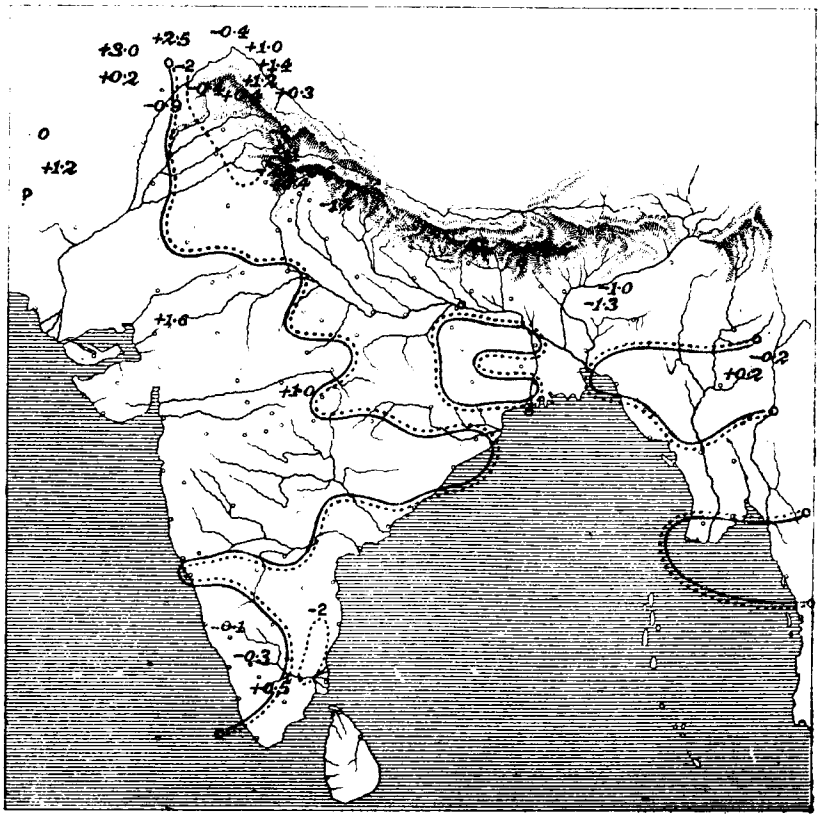


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

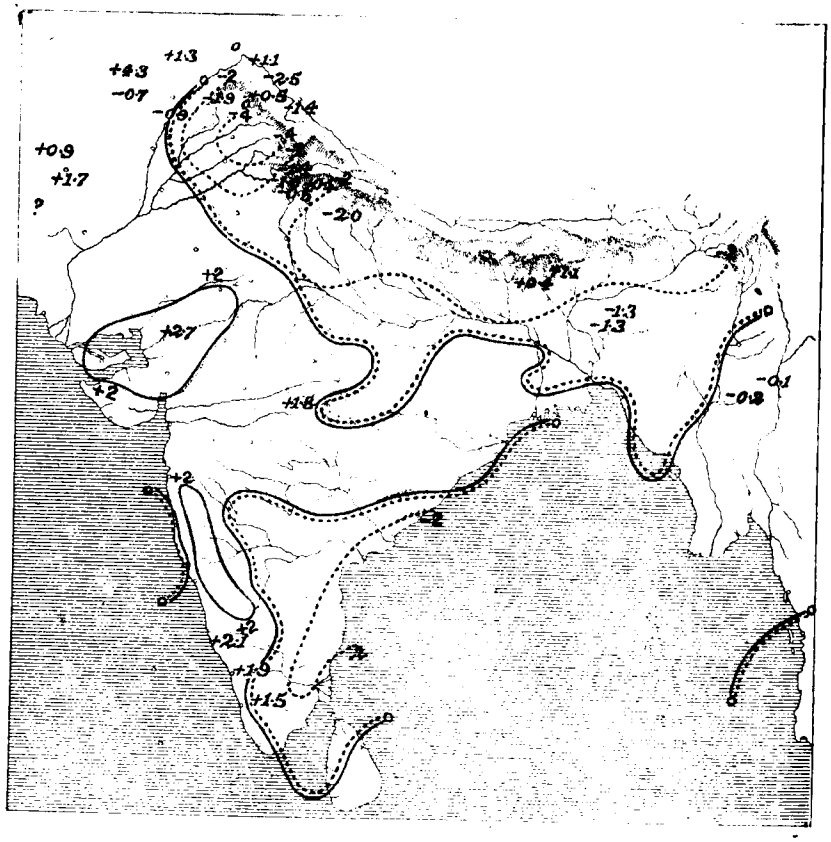


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

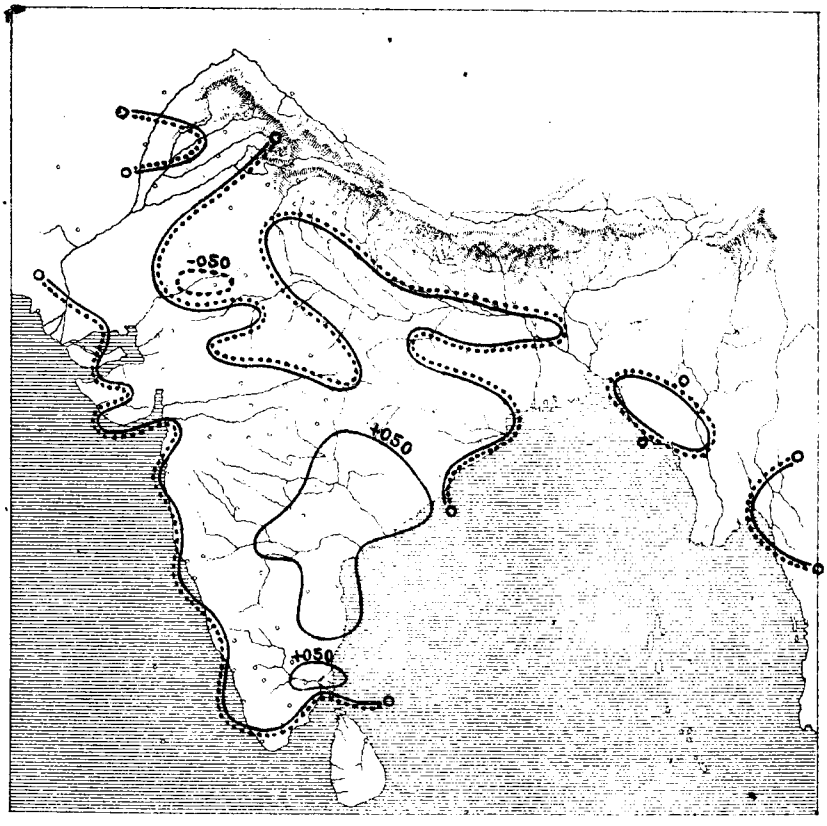


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

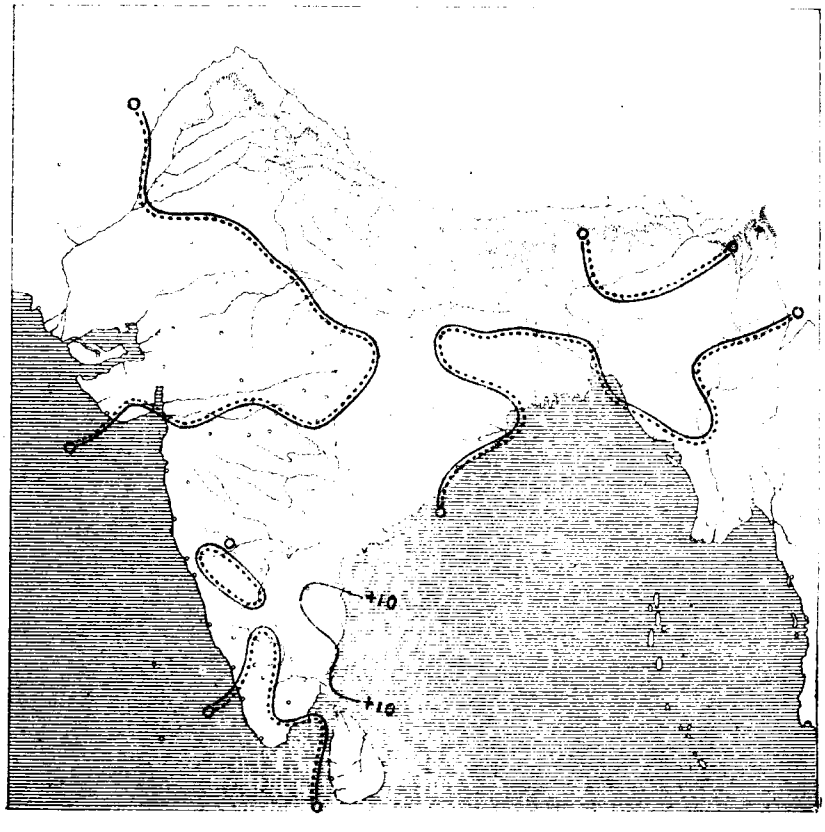


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

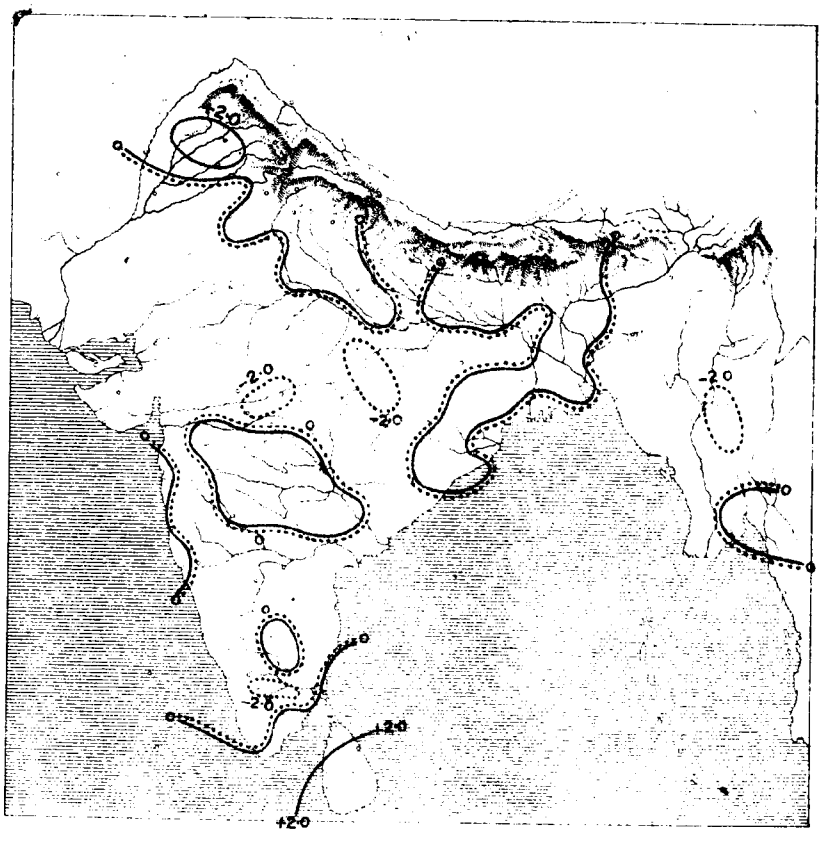
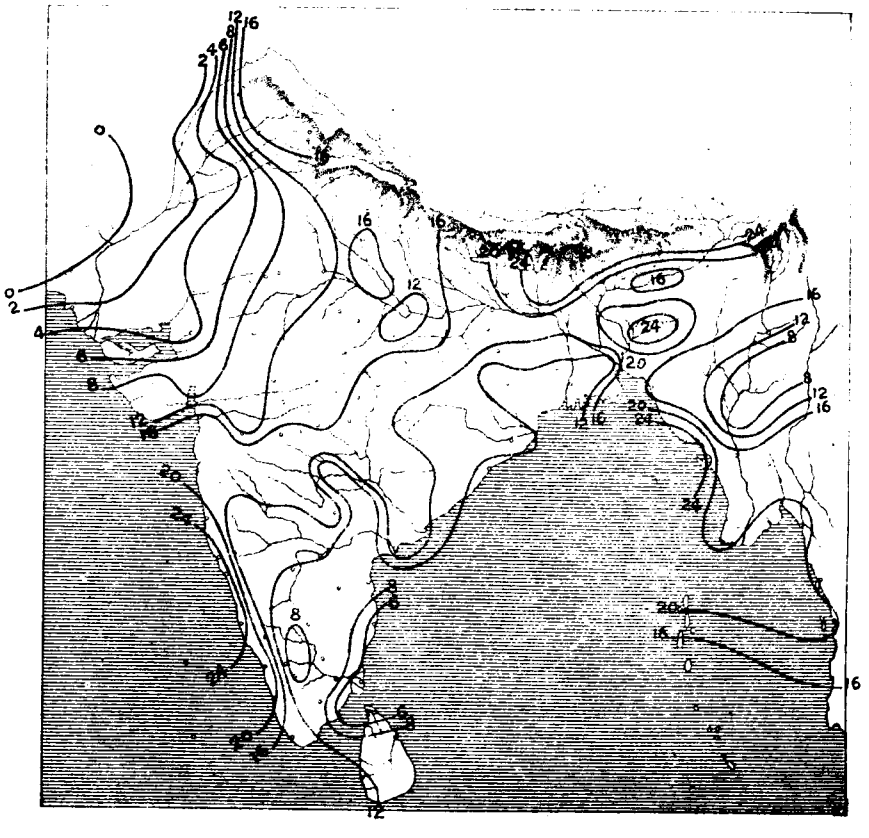
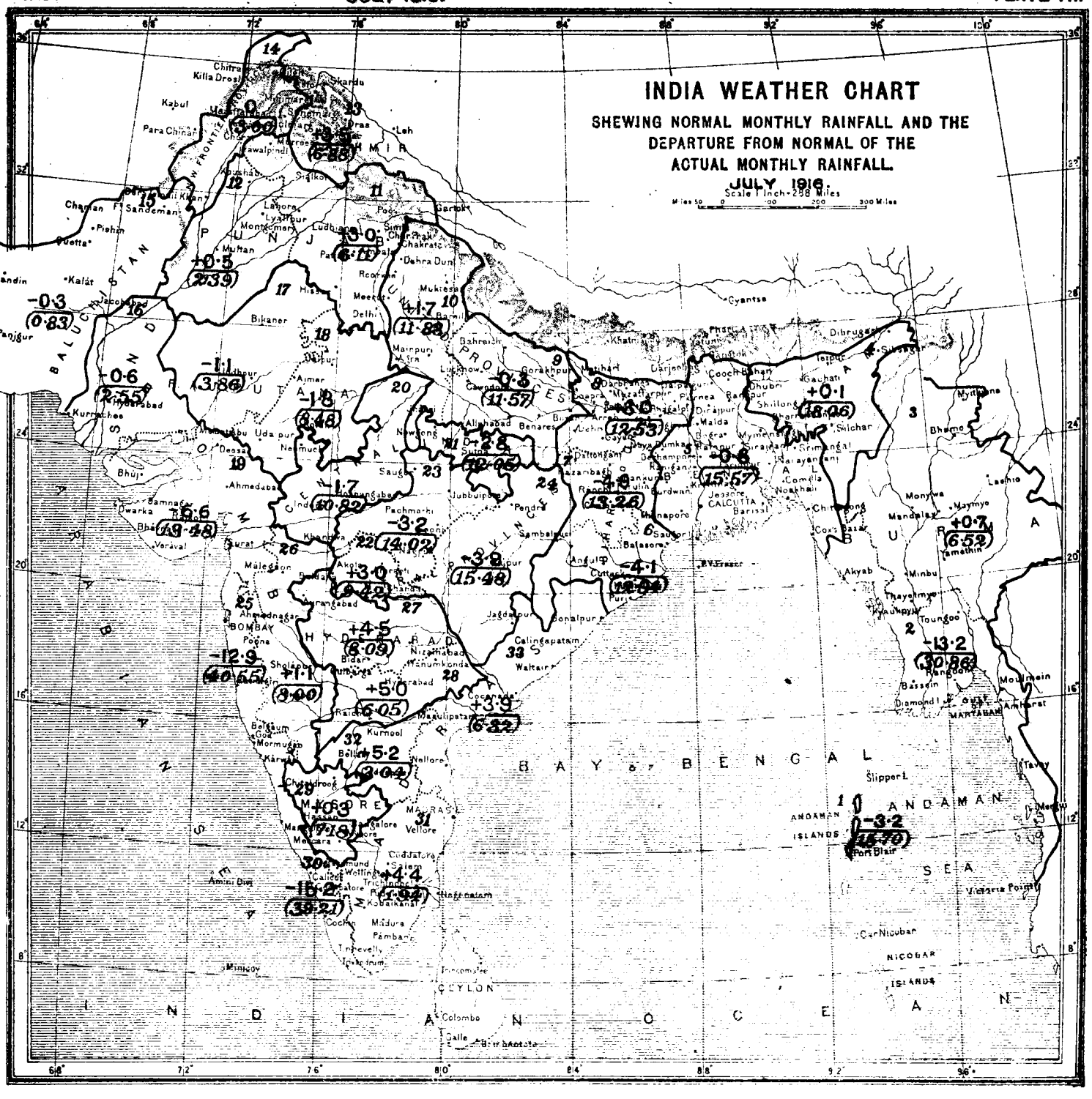


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, AUGUST, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of August, 1916, is based on observations taken daily at 8 hrs. at 216 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review. The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. August, unlike July, was a month of abundant rainfall, the aggregate quantity received during the month in the plains of India exceeding the normal by 2·3 inches or 24 per cent. Its distribution was also very satisfactory; for Burma, Assam, Bihar and Orissa and Hyderabad were the only divisions where the month's aggregate failed to reach the normal value. The rainfall was unusually abundant in the Punjab, the North-West Frontier Province, Sind, Rajputana, Central India and Mysore where it was upwards of 40 per cent. above normal. On the other hand in the areas of scanty fall the deficit was insignificant, except in Hyderabad where it amounted to 31 per cent.

The departures from the normal of other climatic elements were, as is usually the case in the rainy season, determined chiefly by those of rainfall, but were not marked except in north-west India where in most places the weather was unusually damp and cloudy, while temperature was below the normal by 2½° in the Punjab and the North-West Frontier Province.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun could not be examined for spots and faculæ on two days during the month, and prominences could not be photographed on six days.

Sun spots.—Nineteen new groups of spots were observed as against twenty in July. The daily average number was 2·3 and the average life of a spot 3·7 days, the averages for the preceding month being 4·0 and 5·9 respectively. The reduced spot activity was also indicated by the absence of spots from the visible disc of the sun on four days from the 25th to 28th.

The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North	5	6	3	1	16°·5	6° & 36°
South	...	4	...	...	15°·5	11° & 18°

Prominences.—Eighty large, one eruptive, and three metallic prominences were recorded during the month. The highest was 240″ and was observed on the 21st at latitude +44° east.

Magnetic disturbances.—There was a "very great" magnetic storm on the 27th; moderate disturbances were recorded on the following days; 1st to 2nd, 6th to 8th, 20th to 24th. On the 27th there was no spot on the visible disc of the sun.

T. ROYDS,
for *Director*,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2{,}343$ m. Subsoil Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{\epsilon}{To^2}$
An:				
Ae:	9·76	18·0	1	2·4
Az:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1916		h. m. s.						
Aug. 3rd	e P	1 42 06	...	...	...	...	...	
	e L	1 51 00	...	...	...	...	...	
	M	1 52 12	...	...	100	...	...	
	F	2 55 42	...	...	...	...	...	
„ 8th	e P	5 04 36	...	...	...	...	...	Widening of line.
	F	5 20 18	...	...	...	...	...	
„ 25th	e P	10 15 30	...	...	...	...	...	
	e L	11 02 18	...	...	...	...	...	
	M	11 13 18	...	...	110	...	...	
	F	11 55 06	...	...	...	...	...	
„ 28th	i P	6 44 36	...	...	...	...	...	
	i L	6 47 36	...	...	...	...	...	
	M	6 52 00	...	...	900	...	...	
	F	.....	...	...	...	...	...	
1916.		h. m. s.						
Aug. 28th	P	.....	...	...	...	...	...	
	i L	7 56 48	...	...	...	...	...	
	M	7 57 18	...	...	220	...	...	
	F	8 52 00	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of August 1916 the traces showed 9 calm days, 20 days of small, 1 day of moderate and 1 day of great disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 4th, 11th, 16th, 17th and 25th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	C	9	S	17	C	25	C
2	M	10	S	18	C	26	S
3	S	11	C	19	S	27	C
4	C	12	S	20	S	28	S
5	S	13	C	21	S	29	S
6	S	14	S	22	S	30	S
7	S	15	C	23	S	31	S
8	S	16	C	24	S	...	...

C.=calm; S.=small; M.=moderate; G.=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follow :—

Easterly declination	0° 36′ 21″.
Horizontal force	0·36861 C.G.S. unit.
Vertical force	0·16799 C.G.S. „
Inclination	24° 30′·0.
Horizontal force range	0·00042 C.G.S. „
Horizontal force summed range	0·00266 C.G.S. „
Declination range	5′·5.
Declination summed range	22′·7.

(Summed range means sum without regard to signs of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m. Subsoil Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
An:				
Ae:	9	21	1	
Az:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u) An	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Aug. 3rd	P	1 42 21	...	...	...	...	...	
	M	2 13 49	...	...	56	...	...	
	F	3 10 41	...	...	...	...	...	
„ 7th	...	1 41	...	...	...	...	...	Thickening of line.
„ 8th	P	4 59 59	...	...	...	...	...	
	M	5 3 54	...	...	33	...	...	
	F	5 14 41	...	...	...	...	...	
„ 13th	...	1 1 00	...	...	...	...	...	Thickening of line.
„ 14th	...	5 4 00	...	...	...	...	...	Do
„ 17th	...	3 14 to 17	...	...	...	...	...	Do.
„ 23rd	...	19 57 00	...	...	...	...	...	Do.
„ 25th	P	10 7 6	...	...	...	...	...	
	M	11 8 6	...	...	167	...	...	
	F	11 45 18	...	...	...	...	...	
„ 25th	...	19 17 00	...	...	...	...	...	Thickening of line.
„ 26th	...	12 11 to 15	...	...	...	...	...	Do.
„ 27th	...	6 2 to 5	...	...	...	...	...	Do.
„ 28th	...	6 39 00	...	...	...	...	...	Do.
„ 28th	P	6 42 47	...	...	...	...	...	
	M	6 47 55	...	...	1789	...	...	
	F	8 25 38	...	...	...	...	...	

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·32″

N. A. F. Moos,

Director,

Bombay and Alibag Observatories.

5.—ALIPORE (CALCUTTA) OBSERVATORY.

$\phi = 22° 32' 00''$ N; $\lambda = 88° 20' 00''$ E; $h = 6·4$ m. Subsoil Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
An:	29	20	1	
Ae:	29	40	1	
Az:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
		h. m. s.						
1916. Aug. 3rd	P	1 40 30	6	...	...	...	...	
	S	1 49 00	8	...	...	...	...	
	F	2 24 42	...	...	...	...	...	
„ 17th	P	10 56 18	...	...	...	...	...	
	S	10 56 30	...	...	...	...	...	
	F	11 08 30	...	...	...	...	...	
„ 28th	P	6 42 06	3	...	...	...	...	
	*S	6 43 48	?	...	...	...	...	
	F	?	...	...	...	...	...	

* As the pen went off the drum, L and M could not be determined.

The following report has been received from Mr. P. H. Tillard, Executive Engineer, Naini Tal Provincial Division, regarding the earthquake of the 28th August 1916.

"I left Naini Tal on the 28th August for an inspection tour to the Lipur Leh pass. In the course of my tour up the Kali river I found that the road had been badly broken up by the earthquake, the worst portion being between Dharchula and Kela, roughly about 70 or 80 miles south of the Mansarowar Lakes.

From enquiries and observations, I came to the conclusion that the centre of the earthquake must have been in the neighbourhood of Dharchula.

My reasons for this are as follows:—

(1) Practically all the houses in Dharchula collapsed or were badly shaken, 7 or 8 people being killed.

(2) Ten miles south of Dharchula there were many slips along the road, whilst 10 miles north of Dharchula there were over 200 slips in the 10 miles, mostly small, but 12 or 13 large ones.

3. Outside the 10 miles limit, north and south, the slips were few.

4. From enquiries, a man living in Garbiyang 45 miles north of Dharchula, said he saw three landslips one after the other, the first being south and the next two north. If this man can be believed, the earthquake was moving from south to north at this point.

5. A man travelling down from Thibet, who had been at Mansarowar Lakes on the day of the earthquake, reported little or no damage.

6. A man from Taklakote reported only one house cracked."

6.—SIMLA OBSERVATORY.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.		Duration.	Intensity Rossi-Forel scale.	No. of shocks	REMARKS.
		h.	m.	Sec.			
Salonah (Nowgong District, Assam).	Aug. 9th	4	8	7	4	2	
Shillong . .	„ 13th	4	30	1	5	1	
Bareilly . .	„ 28th	6	33	150	8	1	
Sialkot . .	„ 28th	6	34	25	6	3	
Agra . .	„ 28th	6	37	20	...	1	
Orai (Jalaun District.)	„ 28th	6	37	60	4	1	
Mukteswar . .	„ 28th	6	38	180	8	1	Nearly all the buildings cracked.
Ambala .	„ 28th	6	40	30	...	2	
Cawnpore . .	„ 28th	6	40	20	3	2	
Gorakhpur . .	„ 28th	6	40	...	...	1	
Meerut . .	„ 28th	6	40	60	...	1	
Sat Tal (Naini Tal District)	Aug. 28th	6	40	60	...	1	Walls of buildings affected and in some cases small portions of them fell down.
Bhim Tal (Naini Tal District.)	„ 28th	6	40	...	...	1	Some houses fallen.
Srinagar . .	„ 28th	6	40	12	6	1	
Mainpuri . .	„ 28th	6	41	30	6	3	
Lahore . .	„ 28th	6	43	3	3	2	
Gwalior . .	„ 28th	6	45	120	...	1	
Mukteswar . .	„ 28th	6	50	?	...	1	
„ . .	„ 28th	7	10	?	...	1	
„ . .	„ 28th	7	17	?	...	1	
„ . .	„ 28th	7	55	?	...	1	
„ . .	„ 28th	8	14	?	...	1	
„ . .	„ 28th	8	26	?	...	1	
„ . .	„ 28th	10	40	?	...	1	
„ . .	„ 28th	11	26	?	...	1	
„ . .	„ 28th	12	59	?	...	1	
„ . .	„ 28th	16	55	?	...	1	
„ . .	„ 29th	20	15	10	4	1	
„ . .	„ 30th	8	40	10	4	1	
„ . .	„ 30th	9	57	10	4	1	
„ . .	„ 30th	16	25	10	4	1	

Solar radiation.—Observations not recorded owing to the absence of officers on war service.

G. C. SIMPSON,
Imperial Meteorologist, Simla.

Weather in the Indian Ocean.

7. Barometric pressure agreed closely with the normal at the equatorial stations, but was in defect by ·03″ at Mauritius. Rainfall was upwards of 70 per cent. below the average at Seychelles where the air motion was appreciably stronger than usual, and exceeded the normal by about 20 per cent. at Zanzibar where winds, although of average velocity, contained a strong westerly element in their direction.

TABLE 7.

——	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·027	+·001	—·008
Actual mean wind direction . .	S 63° E	S 14° W	S 38° E
Normal mean wind direction . .	S 66° E	S 1° W	S 35° E
Actual mean wind velocity (miles per diem).	147	125	271
Normal mean wind velocity (miles per diem).	216	120	231
Rainfall departure from normal . .	+1·12	+0·39	—1·97

Depressions and cyclonic storms.

8. During the month only one feeble disturbance was formed over the Bay where as a rule weather is frequently disturbed and two or three cyclonic storms are developed: on the other hand two land-formed depressions occurred over the United Provinces in the second fortnight of the month. The following is a brief statement of these three disturbances.

(*a*) *Depression of the 13th to the 18th.*—This was formed over the Sandheads during the 12th, crossed the coast sometime on the 13th and travelling westwards was central near Sambalpur at 8 hrs. of the 14th, near Pachmarhi on the 15th, between Deesa and Bhuj on the 16th, nearly midway between Deesa and Hyderabad on the 17th and was entering south Baluchistan on the morning of the 18th. It was ill defined throughout, but was the cause of some heavy rain in the Central Provinces, south Rajputana, lower Sind and Baluchistan.

(*b*) *Land-formed depression of the 17th to the 24th.*—This originated during the 17th over the southwest of the United Provinces and, after remaining practically stationary for two days during which time it was slowly intensifying, began moving westwards on the 20th. It was situated over east Rajputana on the morning of the 21st, west Rajputana on the 22nd, between Deesa and Hyderabad on the 23rd and over south-east Baluchistan on the 24th. It had disappeared by the morning of the 25th. Although feeble it produced a burst of heavy rain in the southern districts of Rajputana, of Sind and of Baluchistan. The following downpours are particularly worthy of record:—

TABLE 8.

Province.	State.	Station.	Amount received in 24 hrs. preceding 8 hrs. of	
			21st.	22nd.
			"	"
Rajputana	Jodhpur	Desuri	13·80	2·40
	Jhalawar	Dug	15·45	4·50
	"	Gangdhar	9·50	5·12

(*c*) *Land-formed depression of the 25th to the 30th.*—This resembled the previous disturbance in many respects. It was developed slowly over the United Provinces on the 25th and 26th and travelling westwards through Rajputana disappeared over the south-west Punjab on the 30th. It was very feebly marked and gave heavy rain only in parts of Rajputana.

Pressure.

9. On the mean of the month barometric pressure was in defect of the normal over the south and west of the Peninsula, Gujarat, lower Sind, Central India, Rajputana, the Andamans, and the southern coast districts of Burma, and was in excess elsewhere in the plains. The excess was on the whole greatest in the Punjab where it averaged ·033″, while the largest defect occurred in Gujarat where it amounted to ·025. In consequence of these peculiarities in the distribution the western and central portions of the monsoon trough of low pressure occupied a more southerly position than usual, an abnormality which was instrumental in determining excessive rainfall to the comparatively dry zone of north-west India.

The opposite departures counterbalanced each other to a large extent with the result that the geographical mean of pressure in the plains differed from the normal by only +·004″. Thus the extraordinary pressure conditions which had characterised June and July had passed away.

TABLE 9.

Division.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	+·005
Assam	+·016
Bengal	+·024
Bihar and Orissa	+·018
United Provinces	+·014
Punjab	+·033
North-West Frontier Province	+·019
Sind	+·002
Rajputana	—·008
Bombay	—·016
Central India	—·016
Central Provinces	—·010
Hyderabad	+·001
Mysore	—·001
Madras	—·001

The vertical distribution of pressure was on the whole normal in character.

TABLE 10.

Hill station.	Departure from normal pressure. A	Plain station.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	+·004	Jacobabad	+·022	+·018
Leh	+·056	Lahore	+·036	—·020
Murree	+·028	Peshawar	+·015	—·013
Simla	+·037	Ludhiana	+·036	—·001
Mukteswar	+·023	Bareilly	+·021	—·002
Darjiling	—·036 ?	Dhubri	+·020	+·056 ?
Mount Abu	—·026	Deesa	—·017	+·009
Pachmarhi	—·031	Khandwa	—·015	+·016
Kodaikanal	—·001	Madura	—·004	—·003

Temperature.

10. Maximum temperature was appreciably below normal in the Punjab, the North-West Frontier Province, east Rajputana, as well as in the region round Leh and Dras in Kashmir, while minimum temperature was slightly above the average in north-east Baluchistan. Elsewhere temperature conditions of the month approximated closely to normal.

TABLE II.

Sub-division.	Mean maximum.	Actual temperature. Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Departure from normal of Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	84·9	77·2	81·1	7·7	+0·1	+0·1	0
2. Lower Burma	84·9	75·3	80·1	9·6	+0·7	+0·2	+0·5
3. Upper Burma	90·0	75·7	82·8	14·3	+0·8	+0·2	+0·6
4. Assam	87·5	75·7	81·6	11·8	+0·4	−0·1	+0·5
5. Bengal	87·4	77·8	82·7	9·6	−0·3	−0·3	0
6. Orissa	88·0	78·5	83·3	9·5	+0·1	+0·5	−0·4
7. Chota Nagpur	87·5	75·9	81·6	11·6	−0·2	+0·1	−0·3
8. Bihar	89·2	78·6	83·9	10·7	0	+0·2	−0·2
9. United Provinces, East	89·0	78·0	83·5	11·0	−0·9	−0·6	−0·3
10. Do. do., West	89·2	77·4	83·3	11·8	−1·2	−0·7	−0·5
11. Punjab, East and North	91·3	77·5	84·5	13·8	−2·9	−1·0	−1·9
12. Do. South-west	96·2	80·3	88·3	15·9	−4·7	−1·2	−3·5
13. Kashmir	82·0	61·2	71·6	20·8	−1·0	+1·7	−2·7
14. North-West Frontier Province	95·1	79·5	87·3	15·6	−4·2	−0·1	−4·6
15. Baluchistan	97·8	75·2	85·3	24·1	+0·9	+3·7	−2·8
16. Sind	94·6	81·0	87·8	13·6	−0·7	+1·5	−2·2
17. Rajputana, West	94·7	79·3	86·9	15·4	−0·7	−0·3	−0·4
18. Do., East	86·9	76·3	81·6	10·6	−3·1	−0·8	−2·3
19. Gujarat	86·4	76·9	81·7	9·5	−1·3	+0·3	−1·6
20. Central India, West	82·9	72·9	77·9	9·9	−0·9	+0·9	−1·8
21. Do. do., East	86·5	76·2	81·3	10·3	−0·5	−0·4	−0·1
22. Berar	85·0	72·8	78·9	12·3	0	+0·9	−0·9
23. Central Provinces, West	84·5	73·6	79·1	10·9	−0·3	+0·1	−0·4
24. Do. do., East	85·1	73·9	79·5	11·3	+0·2	+0·3	−0·1
25. Konkan	83·6	76·5	80·1	7·1	+0·1	+0·7	−0·6
26. Bombay Deccan	84·0	70·1	77·0	13·9	−0·2	+0·5	−0·7
27. Hyderabad, North	84·7	71·0	77·8	13·6	−0·3	+1·2	−1·5
28. Do., South	87·6	73·6	80·6	14·0	0	+0·7	−0·7
29. Mysore	80·7	66·9	73·8	13·8	−0·7	+0·6	−1·3
30. Malabar	83·9	75·0	79·4	8·9	+0·8	+0·6	+0·2
31. Madras, South-east	91·6	75·9	83·8	15·8	−1·3	+0·3	−1·6
32. Do. Deccan	90·2	75·6	82·9	14·6	−1·5	+0·8	−2·3
33. Do. Coast, North	90·1	73·8	84·5	11·3	−0·6	+0·4	−1·0

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·7	+0·2	+0·5
Assam	+0·4	—0·1	+0·2
Bengal	—0·3	—0·3	—0·3
Bihar and Orissa	0	+0·3	+0·1
United Provinces	—1·0	—0·6	—0·8
Punjab	—3·4	—1·1	—2·2
North-West Frontier Province	—4·9	—0·1	—2·5
Sind	—0·7	+1·5	+0·4
Rajputana	—2·2	—0·6	—1·4
Bombay	—0·7	+0·4	—0·1
Central India	—0·7	+0·3	—0·2
Central Provinces	—0·1	+0·3	+0·1
Hyderabad	—0·1	+0·9	+0·4
Mysore	—0·7	+0·6	—0·1
Madras	—0·9	+0·3	—0·3

Winds.

11. (*a*) The air movement was appreciably weaker than usual in the North-West Frontier Province, Sind and Hyderabad and was normal or slightly above it elsewhere.

(*b*) The degree of steadiness was markedly high in Assam and the United Provinces and low in the North-West Frontier Province, Sind, Rajputana and Central India; the unsteadiness in the first three areas was due probably to the frequent changes in the position of the seat of minimum pressure in north-west India, and in Central India to the extension southwards of the central portion of the trough.

(*c*) The direction of wind differed to no great extent from the normal over a large part of the country, the only noteworthy feature being the presence of an undue easterly element in the tract from Chaibasa to Hissar and also in north-east Baluchistan.

TABLE 13.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	—0·3	— 7
Assam	+0·2	+12
Bengal	—0·4	— 5
Bihar and Orissa	+0·3	+ 3
United Provinces	+0·1	+20
Punjab	+0·4	— 4
North-West Frontier Province	—0·7	—23
Sind	—1·8	—36
Rajputana	+0·3	—48
Bombay	—0·4	— 5
Central India	+0·3	—13
Central Provinces	+0·7	0
Hyderabad	—1·7	— 1
Mysore	+0·7	— 2
Madras	+0·4	— 3

Humidity and cloud.

12. Humidity, both absolute and relative, was high over the greater part of north-west India—the region of marked excess of rainfall; but elsewhere departures from the normal were small and irregular.

The distribution of cloud agreed in its main features with that of humidity. Thus there was considerably more cloud than usual in north-west India, while the sky was covered to less than the customary extent in Assam, Upper Burma and Mysore. Elsewhere although irregularly distributed the cloud proportion did not differ to any marked extent from the average.

TABLE 14.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	90	0	·879	—·003	7·6	—0·5
Assam	89	— 2	·927	—·013	7·0	—1·0
Bengal	90	0	·954	—·008	8·1	+0·4
Bihar and Orissa	88	+ 1	·936	+·009	7·7	+0·6
United Provinces	87	+ 1	·933	0	6·9	+0·1
Punjab	83	+ 8	·927	+·045	5·5	+1·2
North-West Frontier Province.	83	+10	·946	+·067	5·1	+2·5
Sind	81	+ 5	·951	+·097	6·8	+2·1
Rajputana	83	+ 7	·859	+·044	7·8	+1·7
Bombay	86	+ 2	·838	+·026	8·1	+0·4
Central India	90	+ 3	·842	+·015	8·8	+0·6
Central Provinces	87	0	·803	+·017	7·8	0
Hyderabad	82	+ 1	·736	+·016	7·7	+0·3
Mysore	86	+ 2	·646	+·009	7·9	—0·7
Madras	80	+ 2	·828	+·018	6·5	0

Rainfall.

13. The monsoon currents were unusually active and steady, with the result that the aggregate rainfall received during the month in the plains of India was in excess of the normal by 24 per cent. The geographical distribution of rainfall was influenced by three depressions; of these the first advanced from the Bay along the head of the Peninsula into south Baluchistan, while the other two formed over the United Provinces and travelled westwards into north-west India. They were not well marked, but were instrumental in concentrating the rainfall in north-west and central India. In the Peninsula the monsoon was very active during the first week, but afterwards it dwindled and gave rain, chiefly in the south.

The total rainfall of the month was more than 10 per cent. in defect in Lower Burma (3·5″ or 12 per cent.), Chota Nagpur (1·7″ or 12 per cent.), Hyderabad (2·3″ or 31 per cent.); it was within 10 per cent. of the normal in Assam, Orissa, Bihar, the Central Provinces, East, and Malabar; and it was distinctly above the average over the remainder of the country. The excess amounted to 11¾″ or 116 per cent. in Central India, West, 9″ or 116 per cent. in Rajputana, East; 8¾″ or 36 per cent. in the Konkan, 6⅕″ or 52 per cent. in Central India East, 5⅕″ or 294 per cent. in Sind, 4¾″ or 57 per cent. in Gujarat, 4½″ or 142 per cent. in the North-West Frontier Province and 3½″ or 150 per cent. in the Punjab, South-west, 3½″ or 79 per cent. in Rajputana, West, and 3¼″ or 484 per cent. in Baluchistan: it was also considerable in Upper Burma, the United Provinces, the Punjab, East and North, the Central Provinces, West, Mysore, the Madras Deccan and the Madras Coast, North.

Thus the most noteworthy feature of the rainfall of the month was its unusual abundance in the comparatively dry zone of north-west India.

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	23·0	19·2	16·73	14·79	+ 1·94	+ 13
2. Lower Burma	23·2	24·0	24·35	27·81	— 3·46	— 12
3. Upper Burma	11·9	10·8	9·26	7·41	+ 1·85	+ 25
4. Assam	16·4	18·0	16·14	16·98	— 0·84	— 5
5. Bengal	18·1	16·7	17·08	14·39	+ 2·69	+ 19
6. Orissa	17·0	15·7	11·93	12·95	— 1·02	— 8
7. Chota Nagpur	18·0	16·7	11·73	13·40	— 1·67	— 12
8. Bihar	14·5	13·9	12·84	12·28	+ 0·56	+ 5
9. United Provinces, East	16·4	12·7	14·67	11·38	+ 3·29	+ 29

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
10. United Provinces, West	14·7	11·9	14·14	11·72	+ 2·42	+ 21
11. Punjab, East and North	9·7	6·8	9·07	6·56	+ 2·51	+ 38
12. Do., South-west	7·1	2·8	5·79	2·32	+ 3·47	+ 150
13. Kashmir	10·5	8·5	10·30	8·60	+ 1·70	+ 20
14. North-West Frontier Province	7·1	4·3	7·94	3·28	+ 4·66	+ 142
15. Baluchistan	5·5	1·1	3·91	0·67	+ 3·24	+ 484
16. Sind	9·3	2·1	6·98	1·77	+ 5·21	+ 294
17. Rajputana, West	9·2	5·7	8·08	4·51	+ 3·57	+ 79
18. Do., East	16·6	9·5	17·01	7·88	+ 9·13	+ 116
19. Gujarat	17·5	11·0	13·18	8·42	+ 4·76	+ 57
20. Central India, West	19·0	12·4	21·77	10·07	+ 11·70	+ 116
21. Do. do., East	17·6	12·8	18·19	12·00	+ 6·19	+ 52
22. Berar	12·0	10·6	8·21	7·27	+ 0·94	+ 13
23. Central Provinces, West	18·6	14·1	15·23	12·25	+ 2·98	+ 24
24. Do. do., East	17·4	15·5	14·42	14·46	— 0·04	0
25. Konkan	25·4	24·3	32·70	23·99	+ 8·71	+ 36
26. Bombay Deccan	10·3	9·7	6·16	5·61	+ 0·55	+ 10
27. Hyderabad, North	11·0	11·1	5·44	7·64	— 2·20	— 29
28. Do., South	8·2	10·6	4·33	6·65	— 2·32	— 35
29. Mysore	11·1	8·9	7·83	5·40	+ 2·43	+ 45
30. Malabar	20·8	21·2	19·96	20·64	— 0·68	— 3
31. Madras, South-east	6·5	5·6	4·50	3·76	+ 0·74	+ 20
32. Do. Deccan	9·0	6·8	6·23	4·03	+ 2·20	+ 55
33. Do. Coast, North	11·1	10·2	8·86	6·97	+ 1·89	+ 27

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	15·19	15·42	— 0·23	— 1
Assam	16·14	16·98	— 0·84	— 5
Bengal	17·08	14·39	+ 2·69	+ 19
Bihar and Orissa	12·34	12·73	— 0·39	— 3
United Provinces	14·39	11·57	+ 2·82	+ 24
Punjab	8·26	5·52	+ 2·74	+ 50
North-West Frontier Province	7·94	3·28	+ 4·66	+ 142

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	6·98	1·77	+ 5·21	+ 294
Rajputana	14·04	6·86	+ 7·18	+ 105
Bombay	13·18	9·81	+ 3·37	+ 34
Central India	19·98	11·04	+ 8·94	+ 81
Central Provinces	12·95	11·71	+ 1·24	+ 11
Hyderabad	4·92	7·17	— 2·25	— 31
Mysore	7·83	5·40	+ 2·43	+ 45
Madras	7·35	6·28	+ 1·07	+ 17
Mean of India	12·28	9·94	+ 2·34	+ 24

Snowfall.

I AND II.—AFGHANISTAN AND NORTH-WEST FRONTIER PROVINCE.

14. No report has been received and probably there has been no snowfall.

III.—KASHMIR.

There was light snowfall on the higher mountains around Kargil on the 8th and on those surrounding Skardu on the 22nd and 29th. No snow fell on the ranges near Srinagar, Dras and Gulmarg. The mountains around Kargil had become bare of snow by the end of the month.

IV.—PUNJAB.

Kilba (*Simla Hills*).—There were no snowstorms during the month on the ranges adjacent to Kilba, which accordingly remained clear of snow.

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—There was a fall on the 11th on the higher peaks in the north of the district.

(*b*) *Almora.*—The total snowfall during the month was estimated at 10 feet in Chaudas, 3½ feet in Malla Johar, 2 feet in Malla Darma and ½ foot in Malla Danpur. The snowline descended below the perpetual snows to a distance of 3 to 4 miles in Malla Danpur, 1½ miles in Malla Darma and ¼ mile in Chandas.

TABLE 17.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nawe pass	5	18
Binkaru "	1½	8
Untadhura	3½	5
Balamdhura	3½	3
Milamdhura	3½	3½
Pindari peak	½	1½
Kaphini "	½	1½
Kuntela "	½	1½

SUMMARY.

15. According to the available information there was little or no snowfall during the month except near the region of perpetual snows in the Kumaon Himalayas. The accumulations at the end of the month in Almora were on the whole less than usual. The ranges near Kilba where as a rule appreciable accumulations exist in August were, as in July, clear of snow.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in August, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta	21	29·654	29·553	·101	29·605	+·014	29·574	87·6	78·5	9·1	91·7	74·9	16·8	83·7	84·0	82·8	+0·4	77·1	80·3	80·6	79·[illegible]
	VI.—Punjab.																					
11	Lahore	702	28·915	28·820	·095	28·859	+·025	29·517	92·7	79·1	13·6	98·0	74·2	23·8	89·9	89·8	85·0	−2·1	76·4	81·0	81·6	79·[illegible]
	IX.—Rajputana.																					
18	Jaipur	1,431	28·224	28·129	·095	28·176	−·003	29·536	86·9	76·0	10·9	93·7	71·1	22·6	82·2	83·5	79·8	−2·5	74·9	77·1	77·2	76·[illegible]
	X.—Bombay.																					
25	Bombay	37	29·752	29·680	·072	29·714	−·015	29·691	84·7	78·2	6·5	87·7	76·0	11·7	81·8	82·5	80·4	+1·0	76·0	78·2	78·2	77·[illegible]
	XIV.—Mysore.																					
29	Bangalore	3,021	26·892	26·794	·098	26·852	+·008	29·698	80·9	65·9	15·0	85·2	63·4	21·8	74·5	78·3	71·5	−0·3	65·1	69·1	70·1	68·[illegible]
	XV.—Madras.																					
31	Pudukkottai	318	29·539	29·408	·131	29·473		29·717	93·7	75·7	18·0	99·1	70·0	29·1	86·3	90·7	84·7			74·8	75·8	
	Madras	22	29·795	29·671	·124	29·742	−·004	29·695	94·1	77·6	16·2	100·2	75·6	24·6	87·0	89·9	81·9	+0·4	75·0	77·8	79·5	77·[illegible]
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain		23·101	23·028	·073	23·062		23·023	71·3	57·5	13·8	77·0	54·2	22·8	65·7	68·1	63·9			61·5	63·1	
	Kalabagh																					
	Katmandu	4,388	25·581	25·502	·579	25·539	+·102	25·494	83·8	68·0	15·8	88·0	64·5	23·5	77·1	79·7	75·4	+0·9	65·5	71·0	72·3	69·[illegible]
	Kodaikanal	7,688	23·800	22·739	·061	22·769		22·704	63·9	52·2	11·7	68·2	50·8	17·4	60·7	59·4	58·1		49·7	56·6	56·5	54·[illegible]
	Extra India.																					
	Seychelles	15	30·006	29·918	·088	29·965	−·008†	29·903	80·1	76·2	3·9	81·8	72·0	7·8	78·5	79·2	76·6	0 †	69·4	73·2	73·8	72·[illegible]
	Mauritius	181																				

N.B.—Elevations in Italics indicate baro etric determinations.

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

† Departure from old normal.

A.

at 11 stations in India, etc., in August, 1916.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·913	·989	·996	·968	+·001	93	86	86	89	+ 1	9·3	9·3	9·3	+0·6	3	0	3	11	19	11	15	0	0	S 20° E	S 2° E	60	56	86	82	18·94	4·48	Calcutta.	5
																															VI.—Punjab.	
·874	·973	·968	·962	+·078	88	77	70	79	+ 8	5·6	5·2	5·4	+1·4	22	2	2	7	18	1	3	2	5	S 56° E	S 78° E	26	24	31	49	5·08	1·36	Lahore.	11
																															IX.—Rajputana.	
·857	·868	·856	·873	+·057	95	79	75	85	+ 7	8·7	8·4	8·5	+0·9	2	2	9	16	1	1	6	12	13	N 12° W	N 69° W	19	42	105	82	12·04	3·00	Jaipur.	18
																															X.—Bombay.	
·867	·927	·907	·908	+·023	90	86	82	87	0	8·0	7·9	7·9	−0·5	0	1	0	0	1	2	10	47	1	S 81° W	S 81° W	89	79	224	270	19·53	4·84	Bombay.	25
																															XIV.—Mysore.	
·607	·647	·640	·635	+·022	96	76	67	82	+ 3	8·2	8·5	8·3		0	1	0	1	2	1	5	41	11	N 87° W	S 81° W	81	88	182	145	11·82	3·66	Bangalore.	29
																															XV.—Madras.	
	·704	·692				57	49			5·1	6·7	5·9		11	4	1	1	0	4	11	16	14	N 85° W		52		89		5·86	2·42	Pudukkottai.	31
·826	·824	·865	·849	+·013	87	64	63	72	− 1	6·0	7·2	6·6	−0·3	0	0	0	3	9	3	13	30	4	S 64° W	S 35° W	58	56	108	121	2·30	0·71	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·502	·530				80	77			8·1	7·8	7·9																	6·81	0·98	Sarain.	
																															Kalabagh.	
·594	·637	·706	·662	−·070	87	74	70	78	− 4	6·5	7·8	7·1	0	0	0	1	15	0	0	1	45	0	W	N 66° W	48	2	20	13	10·08	2·15	Katmandu.	
·331	·415	·426	·391		85	79	84	83		6·8	8·9	7·9		1	6	2	3	8	3	1	17	21	N 60° W		42		220		8·50	1·81	Kodaikanal.	
																															Extra India.	
·832	·747	·761	·721	−·026	70	76	76	75	− 3	5·9	6·4	6·1	−0·3†	0	0	0	0	52	10	0	0	0	S 38° E	S 35° E	97	89	271	231	0·59	0·13	Seychelles.	
																															Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 216 stations in India, etc., in August, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	+·005	87·0	+0·7	75·5	+0·2	81·2	+0·5	11·5	−0·3	−7	90	0	·879	−·003	7·6	−0·5	15·19	15·42	−0·23
Assam	+·016	88·9	+0·4	77·1	−0·1	83·0	+0·2	11·8	+0·2	+12	83	− 2	·927	−·013	7·0	−1·0	16·14	16·98	−0·84
Bengal	+·024	87·4	−0·3	77·8	−0·3	82·7	−0·3	9·6	−0·4	−5	90	0	·954	−·008	8·1	+0·4			
Bihar and Orissa	+·018	88·5	0	77·9	+0·3	83·2	+0·1	10·5	+0·3	+3	88	+ 1	·936	+·009	7·7	+0·6	12·34	12·73	−0·39
United Provinces of Agra and Oudh	+·014	89·1	−1·0	77·7	−0·6	83·4	−0·8	11·4	+0·1	+20	87	+ 1	·933	0	6·9	+0·1			
Punjab	+·032	92·9	−3·4	78·4	−1·1	85·7	−2·2	14·5	+0·4	−4	83	+ 8	·927	+·045	5·5	+1·2	8·26	5·52	+2·74
North-West Frontier Province	+·019	95·1	−4·9	79·5	−0·1	87·3	−2·5	15·6	−0·7	−23	83	+10	·946	+·067	5·1	+2·5	7·94	3·28	+4·66
Sind	+·002	94·6	−0·7	81·0	+1·5	87·8	+0·4	13·6	−1·8	−36	81	+ 5	·951	+·057	6·8	+2·1	6·98	1·77	+5·21
Rajputana	−·008	90·0	−2·2	77·5	−0·6	83·7	−1·4	12·5	+0·3	−48	83	+ 7	·859	+·094	7·6	+1·7	14·04	6·86	+7·18
Bombay	−·016	85·0	−0·7	74·7	+0·4	79·9	−0·1	10·4	−0·4	−5	86	+ 2	·838	+·028	8·1	+0·4	13·18	9·81	+3·37
Central India	−·016	84·7	−0·7	74·6	+0·3	79·6	−0·2	10·1	+0·3	−13	90	+ 2	·842	+·015	8·8	+0·6	19·98	11·04	+8·94
Central Provinces	−·011	84·8	−0·1	73·5	+0·3	79·2	+0·1	11·3	+0·7	0	87	0	·803	+·017	7·8	0	12·95	11·71	+1·24
Hyderabad	+·001	86·3	−0·1	72·5	+0·9	79·4	+0·4	13·9	−1·7	−1	82	+ 1	·736	+·016	7·7	+0·8	4·92	7·17	−2·25
Mysore	−·001	80·7	−0·7	68·9	+0·6	73·8	−0·1	12·8	+0·7	−2	86	+ 2	·648	+·009	7·9	−0·7	7·83	5·40	+2·43
Madras	−·001	89·7	−0·9	76·5	+0·3	83·1	−0·3	13·3	+0·4	−3	80	+ 2	·828	+·018	6·5	0	7·35	6·28	+1·07

Table

(2) Abstract of observations taken at 8 hrs. at 216

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·744		29·822	29·816	9th	29·652	12th	78·2	75·6	82·7		74·2		78·4		8·5	85·3	29th	71·1	11th
	Mergui	66	29·808	−·010	29·804	29·870	9th	29·670	12th	76·6	75·7	83·2	−1·3	72·1	−0·8	77·6	−1·1	11·1	88·2	29th	70·6	11th
	Tavoy	19	29·840	−·022	29·792	29·906	24th	29·682	13th	77·6	76·0	84·2	+1·4	75·2	+1·2	79·7	+1·3	9·0	90·0	29th	72·7	11th
	Moulmein	24	29·758	+·015	29·796	29·846	24th	29·576	13th	76·9	76·0	83·6	+0·4	74·5	+0·3	79·1	+0·3	9·1	90·3	29th	72·5	27th
	Rangoon	18	29·810	+·018	29·765	29·885	24th	29·614	13th	79·9	77·1	85·7	+0·7	76·0	+0·1	80·8	+0·4	9·7	89·0	3 days	73·9	11th & 25th.
	Bassein	27	29·787	+·008	29·751	29·868	24th	29·603	13th	79·4	77·8	85·7	+1·0	76·3	+0·4	81·0	+0·7	9·4	89·1	3 days	73·9	26th
	Diamond Island	41	29·762	−·006	29·738	29·842	29th	29·567	13th	81·3	78·0	86·1	+1·9	79·0	+3·1?	82·6	+2·5?	7·1	88·4	7th	75·8	14th
	Toungoo	164	29·644	+·012	29·751	29·725	23rd	29·462	12th	79·0	77·1	87·7	+0·7	74·1	−0·7	80·9	0	13·6	92·4	2nd	71·0	28th
	Kyaukpyu	18	29·759		29·717	29·860	29th	29·546	12th	79·4	77·2	84·8		76·4		80·6		8·2	89·2	2nd	73·5	26th
	Akyab	20	29·738	+·013	29·698	29·845	29th	29·471	12th	79·8	78·2	85·2	+0·7	75·5	−·7	80·3	−0·5	9·7	88·7	2nd & 20th	71·0	27th
	Minbu	*165*	29·594	+·009	29·702	29·678	23rd	29·379	12th	80·7	77·4	91·1	+0·8	77·5	+0·3	84·3	+0·5	13·6	98·1	12th	74·2	25th
	Yamethin	644	29·137	+·016	29·731	29·221	23rd	28·938	12th	78·2	75·0	89·7	+0·3	75·1	+0·5	82·4	+0·4	14·6	95·3	2nd	71·4	27th
	Mandalay	250	29·512	+·013	29·708	29·606	23rd	29·324	12th	82·4	77·1	93·8	+0·5	73·2	+0·3	86·0	+0·4	15·6	100·2	5th & 6th.	71·2	22nd
	Monywa	*280*	29·475	+·005	29·703	29·565	23rd	29·281	12th	81·5	77·5	94·3	+1·2	79·2	+0·9	86·7	+1·1	15·1	99·3	11th	76·6	20th & 28th
	Lashio	*2,820*	26·974	−·018	26·920	27·047	23rd	26·819	12th	72·7	70·6	83·9	+1·1	69·7	+0·3	76·8	+0·7	14·2	89·1	18th	67·8	20th
	Bhamo	*361*	29·371	+·018	29·654	29·449	23rd	29·188	12th	78·3	76·9	88·3	+0·3	74·4	−0·2	81·4	−0·3	13·9	96·0	17th	72·8	21st
	Myitkyina	458	29·262	+·007	29·678	29·340	23rd	29·089	12th	77·8	75·2	88·6	+1·3	75·5	−0·2	82·0	+0·5	13·1	95·5	14th	73·0	2nd
	II.—Assam.																					
	Dibrugarh	353	29·359	+·009	29·672	29·437	23rd	29·189	12th	80·1	77·5	87·5	+0·8	76·1	+0·4	81·8	+0·6	11·4	95·0	14th & 23rd.	73·7	30th
	Sibsagar	323	29·394	+·016	29·684	29·470	30th	29·208	12th	80·7	78·2	88·2	−0·6	75·6	−2·1?	81·9	−1·3?	12·6	96·0	14th	71·0	28th
	Tezpur	252	29·464	+·024	29·673	29·565	22nd	29·279	12th	80·9	78·6	89·8	+1·2	76·2	+0·6	84·0	+0·9	11·6	97·0	17th	74·9	30th
	Gauhati	156	29·522	+·017	29·672	29·639	23rd	29·291	12th	83·0	79·6	90·2	+0·3	78·0	+0·2	84·1	+0·3	12·2	95·8	14th	76·6	6 days
	Dhubri	115	29·581	+·020	29·650	29·720	23rd	29·342	12th	81·7	79·3	86·9	+0·8	78·9	+0·4	82·9	+0·6	8·0	90·8	14th	76·3	31st
	Silchar	104	29·622	+·007	29·678	29·728	29th	29·363	12th	80·2	78·1	89·4	−0·1	76·9	+0·1	83·1	0	12·5	98·5	14th	73·4	2nd
	Srimangal	66	29·643		29·659	29·746	23rd	29·391	12th	80·6	77·8	90·0	+0·4	75·8	−0·2	82·9	+0·1	14·2	94·7	13th	72·8	2nd
	III.—Bengal.																					
5	Cox's Bazar	36	29·702		29·681	29·814	30th	29·464	12th	79·8	77·8	85·8		75·6		80·5		9·9	90·3	2nd	72·7	25th
	Chittagong	87	29·643	+·021	29·675	29·759	30th	29·379	12th	80·1	77·8	86·5	+0·8	76·7	+0·5	81·6	+0·7	9·8	90·0	2nd	74·0	25th & 28th
	Noakhali	43	29·680	+·030	29·670	29·783	29th	29·403	12th	80·7	78·1	86·3	+0·8	77·6	+0·5	81·9	+0·7	8·7	89·8	19th & 20th.	74·3	30th
	Barisal	12	29·689	+·030	29·648	29·798	30th	29·414	12th	81·6	78·8	85·7	−0·2	78·0	−0·2	82·4	−0·2	8·7	90·5	19th	71·6	30th
	Narayanganj	26	29·675	+·023	29·650	29·780	23rd	29·398	12th	81·8	78·9	87·2	−0·5	78·4	−0·6	82·8	−0·5	8·8	90·9	8th	75·8	3rd

N. B.—Elevations in italics indicate barometrical determinations.

B.

stations in India, etc., in August, 1916.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															I.—Burma.
14	0	1	3	3	1	6	2	1	S 10° W		5·0			20		88		·852		7·0		23		26·34			90·39			3·08	Victoria Point.
21	0	0	3	4	1	1	1	0	S 43° E	N 87° W	3·0	1·2	+1·8	23	−37	96	+ 3	·875	0	6·7	+0·3	23	−2·5	25·55	29·43	− 3·88	84·89	107·91	−23·02	5·25	Mergui.
17	0	0	1	4	7	2	0	0	S 12° E	S 62° W	1·9	1·2	+0·7	37	+23	92	− 1	·871	+·005	7·9	0	21	−6·5	43·31	46·14	− 2·83	151·09	162·37	−11·28	9·60	Tavoy.
1	0	0	4	4	10	9	3	0	S 7° W	S 4° W	8·0	2·8	+5·2	62	+ 7	96	+ 3	·885	+·017	9·3	+0·9	28	+1·1	41·60	42·86	− 1·26	137·59	144·78	− 7·19	5·20	Moulmein.
2	0	2	2	3	12	6	3	1	S 9° W	S 57° W	3·7	3·2	+0·5	53	− 8	91	− 2	·902	−·008	9·7	+0·7	20	+3·6	13·72	19·67	− 5·95	67·85	70·40	− 2·55	1·92	Rangoon.
18	1	0	0	1	3	6	1	1	S 40° W	S 15° W	2·3	3·1	−0·8	27	−30	93	+ 1	·938	+·014	7·5	−0·2	22	+2·8	25·68	22·93	+ 2·75	87·02	80·96	+ 6·06	6·12	Bassein.
2	0	0	1	3	4	15	4	2	S 40° W	S 46° W	6·7	6·5	+0·2	66	− 9	86	− 1	·915	+·009	7·3	−1·0	19	−2·5	18·02	23·21	− 5·19	75·37	83·68	− 8·31	3·63	Diamond Island.
8	0	0	1	10	10	2	0	0	S 20° E	S 34° E	2·3	3·1	−0·8	66	− 9	92	0	·901	−·007	9·2	−0·1	24	−0·2	14·68	18·86	− 4·26	48·06	57·79	− 9·73	1·93	Toungoo.
25	0	0	4	2	0	0	0	0	S 75° E		0·8			17		90		·902		9·0		27		35·86			124·00			5·41	Kyaukpyu.
7	0	0	6	11	1	6	0	0	S 37° E	S 39° E	3·1	2·5	+0·6	53	− 1	93	− 1	·941	−·013	8·4	−0·4	29	+2·6	48·15	43·21	+ 4·94	160·24	152·66	+ 7·58	6·64	Akyab.
0	0	0	2	23	6	0	0	0	S 39° E	S 39° E	3·9	8·9	−5·0	92	0	86	+ 1	·889	+·008	6·9	0	13	+3·1	10·49	5·12	+ 5·37	28·88	19·86	+ 9·03	3·55	Minbu.
8	0	0	0	9	12	2	0	0	S 14° E	S 28° E	2·5	6·1	−3·6	69	−19	85	− 2	·825	−·019	6·6	−0·9	14	+2·8	8·71	5·69	+ 3·02	25·57	20·98	+ 4·59	1·85	Yamethin.
3	0	0	1	17	10	0	0	0	S 31° E	S 1° W	3·5	5·8	−2·3	82	+ 2	78	− 1	·861	+·003	2·1	−4·5?	9	+1·5	4·52	4·11	+ 0·41	15·75	18·40	− 2·65	1·15	Mandalay.
6	0	0	2	22	1	0	0	0	S 47° E		2·3			76		83	0	·888	−·013	8·7	+0·5	7	+1·9	3·72	3·21	+ 0·51	18·71	15·48	+ 3·23	1·10	Monywa.
14	0	4	9	0	1	11	1	0	S 45° W		2·4			27		90	− 1	·721	−·017	7·6	−1·4	18	−1·3	13·14	13·47	− 0·33	30·99	42·87	−11·88	2·70	Lashio.
28	1	1	0	0	0	1	0	0	N	N 89° W	0·7	1·2	−0·5	3	− 9	94	+ 1	·904	0	7·9	−0·1	19	0	14·51	15·44	− 0·93	41·55	52·93	−11·38	2·98	Bhamo.
28	0	0	1	0	1	1	0	0	S 11° E		1·6			5		91	0	·888	−·023	8·0	−0·7	15	−3·9	12·72	15·27	− 2·55	50·70	53·95	− 3·25	3·32	Myitkyina.
																															II.—Assam.
20	1	5	4	0	1	0	0	0	N 64° E		0·5			23		89	− 4	·818	−·095	5·9	−2·5	17	−3·0	17·88	19·65	− 1·77	77·01	68·07	+ 8·94	3·77	Dibrugarh.
10	3	7	1	4	1	1	2	2	N 44° E	S 1° W	2·8	2·0	+0·8	27	+11	89	− 5	·932	−·028	7·9	−0·9	14	−4·5	13·67	16·95	− 3·28	53·63	59·56	− 5·93	3·55	Sibsagar.
30	0	1	0	0	0	0	0	0	N 45° E		2·5			3		90	− 3	·951	+·011	6·0	−2·2	9	−8·4	7·24	15·33	− 8·09	38·48	47·60	− 9·12	1·32	Tezpur.
30	0	1	0	0	0	0	0	0	N 45° E		0·9			3		86	− 2	·966	+·023	7·3	−0·8	12	−1·3	9·98	9·45	+ 0·53	29·96	43·76	−13·80	2·30	Gauhati.
1	1	6	9	5	5	4	0	0	S 67° E	S 69° E	3·7	3·2	+0·5	49	+17	90	− 1	·969	+·018	5·5	+0·7	13	−1·3	12·01	13·07	− 1·06	60·37	68·70	− 8·33	3·05	Dhubri.
25	0	4	1	0	0	1	0	0	N 56° E	S 51° E	1·1	1·8	−0·7	10	+ 8	91	0	·933	−·008	8·2	−0·1	22	−0·3	22·11	20·37	+ 1·74	62·61	76·98	−14·37	3·45	Silchar.
																88	+ 2	·918	−·014	5·1		17	−5·5	16·87	12·84	+ 4·03	44·80	58·52	−13·72	2·61	Srimangal.
																															III.—Bengal.
4	1	0	4	16	6	0	0	0	S 43° E		3·9			69		91		·927		7·3		24		27·88			103·23			5·43	Cox's Bazar.
12	0	0	4	14	1	0	0	0	S 52° E	S 41° E	2·0	4·6	−2·6	56	−16	90	+ 2	·919	+·008	7·4	−0·4	17	+0·8	23·26	17·97	+ 5·29	69·97	69·01	+ 0·96	6·52	Chittagong.
2	0	0	0	24	4	1	0	0	S 36° E		4·4			87		89	− 1	·925	−·031	6·6	+0·5	24	+0·3	32·81	27·39	+ 5·42	73·49	84·30	−10·81	6·12	Noakhali.
10	0	0	1	3	12	5	0	0	S 1° W	S 17° E	2·0*	2·6	−0·6	57	+21	88	− 1	·940	−·028	8·3	+0·6	19	−1·0	17·00	13·55	+ 3·45	50·03	53·05	− 3·02	3·46	Barisal.
2	0	0	6	10	8	3	2	0	S 23° E	S 32° E	2·9	5·2	−2·3	62	− 6	87	− 3	·919	−·027	9·0	+0·4	20	+2·7	13·82	12·17	+ 1·65	40·88	46·19	− 5·31	2·08	Narayanganj.

* Mean of 21 days.

Table

(2) Abstract of observations taken at 8 hrs. at 216

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45 Lat.	Highest pressure of month.	Date	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal *concld.*																					
	Mymensingh	63	29·641	+·022	29·656	29·754	23rd	29·369	12th	80·9	78·9	86·7	−0·4	78·5	+0·3	82·6	−0·1	8·2	92·3	16th	75·9	10th
	Bogra	75	29·613	+·020	29·639	29·713	23rd	29·358	12th	82·2	79·9	87·9	−0·6	78·9	+0·4	83·4	−0·1	9·0	92·4	19th	76·5	22nd
	Dinajpur	123	29·563	+·029	29·640	29·675	23rd	29·312	12th	81·3	79·3	88·4	−0·5	78·9	+0·4	83·6	−0·1	9·5	93·9	16th	75·5	8th
	Jalpaiguri	283	29·417	+·026	29·658	29·514	23rd	29·197	12th	79·6	78·3	86·4	0	76·5	−0·6	82·5	−0·3	11·9	94·1	16th	73·8	10th
	Saugor Island	10	29·653	+·027	29·608	29·781	30th	29·413	13th	82·5	80·0	86·5	−1·0	78·6	−1·2	82·6	−1·1	7·9	89·8	1st	75·7	28th
	Midnapore	149	29·497	+·010	29·594	29·630	30th	29·273	13th	81·9	79·2	87·9	−1·7	75·6*	−2·7?	82·6*	−2·2?	12·3	91·4	5th, 6th & 9th.	75·9	31st
	Calcutta	21	29·643	+·021	29·611	29·762	30th	29·399	12th	81·2	79·1	87·7	+0·1	78·4	0	83·1	+0·1	9·3	91·7	5th	74·9	27th
	Jessore	30	29·664	+·029	29·640	29·773	30th	29·400	12th	82·2	78·9	88·2	−0·4	78·1	−0·6	83·1	−0·5	10·1	94·3	22nd	75·7	25th
	Burdwan	99	29·558	+·014	29·605	29·678	30th	29·309	12th	81·1	79·0	83·4	−1·0	78·1	−1·0	83·3	−1·0	10·3	91·8	5th	75·4	27th
	Berhampore	67	29·602	+·023	29·618	29·698	30th	29·339	12th	81·5	79·1	89·2	+0·5	79·1	+0·4	84·2	+0·5	10·1	92·5	5th	77·6	24th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·612	+·023	29·607	29·746	30th	29·295	13th	81·9	79·5	88·5	+0·2	78·7	+0·4	83·6	+0·3	9·8	91·1	31st	76·0	14th
	Hukitala (False Point)	29	29·636	+·015	29·606	29·789	30th	29·446	13th													
	Cuttack	80	29·588	+·023	29·609	29·745	30th	29·419	13th	82·4	78·8	89·2	−0·1	78·9	+0·6	84·1	+0·3	10·3	92·5	19th	75·8	16th & 17th.
	Puri	24	29·645	+·012	29·619	29·801	30th	29·477	14th	83·3	81·2	88·0	+0·2	81·2	+1·3	84·6	+1·0	6·8	93·0	3rd	77·2	15th
	Angul	455	29·200	0	29·600	29·375	31st	29·021	13th	80·6	77·3	87·3	+0·2	77·1	+0·3	82·2	+0·3	10·2	90·8	6th & 8th.	73·4	31st
	Sambalpur	486	29·170	+·006	29·605	29·336	30th	28·959	14th	79·7	77·3	87·2	+0·1	76·7	−0·5	82·0	−0·2	10·5	91·5	5th	73·5	31st
7	Chaibasa	*733*	28·102	+·013	29·583	29·016	30th	28·690	12th & 13th.	80·1	76·9	89·1	+0·4	77·2	+0·6	83·2	+0·5	11·9	94·0	7th	75·4	16th
	Ranchi	2,128	27·545	+·023	29·582	27·673	30th	27·339	12th	75·3	73·5	82·8	−0·7	73·1	+0·2	77·9	−0·3	9·7	86·6	5th	71·1	13th
	Purulia	*816*	28·817†	+·035†	29·611†	28·972	30th	28·636	12th	79·8	77·2	88·8	−0·3	76·7	+0·2	82·7	−0·1	12·1	94·1	7th	73·4	16th
	Daltonganj	*730*	28·879	−·007	29·558	29·010	30th	28·667	12th	79·8	76·7	89·1	−0·3	76·4†	−0·6†	82·7†	−0·5	12·7	96·1	6th	69·1	12th
8	Purnea	124	29·536	+·011?	29·614?	29·622	16th	29·302	12th	81·8	79·8	88·2	−0·8	79·4	+0·9	83·8	+0·1	8·8	91·9	19th	76·6	24th
	Monghyr	155	29·481		29·588	29·586	30th	29·232	12th	82·1	79·4	89·4		78·9		84·1		10·5	93·0	1st	74·9	8th
	Darbhanga	165	29·492	+·022	29·612	29·585	30th	29·257	12th	81·9	79·1	88·2	−0·5	78·9	−0·4	83·5	−0·5	9·3	92·1	1st	75·7	30th & 31st.
	Pusa	188	29·463		29·606	29·559	30th	29·214	12th	82·3	79·8	89·8		77·1		83·5		12·7	93·6	1st	73·8	31st
	Patna	183	29·464	+·024	29·601	29·558	30th	29·206	12th	83·4	80·7	89·0	−0·2	79·4	−0·1	84·2	−0·1	9·6	93·7	1st	75·5	19th
	Buxar	239	29·389	+·015	29·532	29·495	30th	29·132	12th	81·6	79·3	89·1‡	+0·2‡	78·4	0	83·8‡	+0·1	10·7	93·8	5th	74·8	19th
	Gaya	372	29·271	+·030	29·591	29·393	30th	29·015	12th	83·5	79·3	91·0	+0·8	78·7	+0·3	84·9	+0·5	12·3	95·9	5th	71·4	8th
	Naya Dumka	489	29·180	+·036	29·619	29·286	30th	28·933	12th	81·6	78·7	89·2	+0·8	77·9	+0·5	83·6	+0·7	11·3	92·2	10th	75·6	30th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·381	+·019	29·595	29·466	23rd	29·186	11th	81·6	79·2	89·0	−0·6	78·3	−0·3	83·7	−0·5	10·7	94·3	15th	73·8	19th
	Benares	267	29·353	+·010	29·573	29·463	30th	29·152	12th	81·6	79·4	89·6	0	77·9	−0·7	83·8	−0·3	11·7	96·0	5th	74·0	13th
	Allahabad	306	29·297	−·002	29·550	29·409	30th	29·150	12th	82·1	78·5	88·8	−1·1	77·8	−0·8	83·3	−0·9	11·0	96·3	5th	74·5	12th
	Cawnpore	416	29·211	+·023	29·583	29·318	30th	29·056	11th	80·6	78·7	88·0	−1·4	78·0	−0·6	83·0	−1·0	10·0	95·2	5th	73·5	12th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 21 days.
† " " 30 "
‡ " " 22 "

B—*continued.*

stations in India, etc., in August, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs., in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May, to 31st August, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															III.—Bengal—*concld.*
10	0	1	6	8	6	0	0	0	S 48° E	S 56° E	1·9	2·6	−0·7	53	−15	91	+ 1	·960	+·002	9·0	+0·9	19	− 0·5	21·61	15·24	+ 6·37	62·00	63·69	− 1·69	8·07	Mymensingh.
11	0	1	11	1	6	1	0	0	S 60° E	S 55° E	0·9	2·6	−1·7	43	−28	90	+ 2	·988	+·027	8·1	+0·8	17	+ 0·6	15·4	12·26	+ 3·18	46·91	46·66	+ 0·25	4·12	Bogra.
6	0	3	13	6	1	2	0	0	S 76° E	S 68° E	2·6	2·8	−0·2	59	− 9	91	+ 1	·976	+·008	6·9	−1·1	15	− 0·6	21·37	13·33	+ 8·04	70·42	49·42	+21·00	5·55	Dinajpur.
25	0	1	2	2	1	0	0	0	S 67° E	N 78° E	1·6			13	−41	94	+ 2	·918	0	6·2	+0·5	23	+ 3·0	31·92	25·74	+ 6·18	125·88	92·40	+33·48	5·23	Jalpaiguri
1	0	1	3	6	9	10	1	0	S	S 10° W	9·4	6·3	+3·1	63	+16	89	0	·991	−·003	8·5	−0·2	19	+ 2·2	12·58	14·49	− 1·91	43·05	44·82	− 1·77	2·29	Saugor Island.
12	0	1	1	10	5	2	0	0	S 28° E		2·3			48		88	+ 1	·958	+·009	7·9	+2·6	20	+ 3·4	13·50	12·56	− 0·06	40·37	40·13	+ 0·24	2·10	Midnapore.
0	1	3	5	10	5	7	0	0	S 31° E	S 18° E	3·5	3·4	+0·1	56	+ 9	90	+ 1	·962	−·010	9·5	+1·1	24	+ 5·7	18·94	12·16	+ 6·78	47·39	42·22	+ 5·17	4·48	Calcutta.
14	0	0	3	7	5	2	0	0	S 30° E	S 25° E	3·5	2·7	+0·8	43	− 7	86	− 4	·944	−·050	8·8	+0·7	16	− 1·1	9·73	10·88	− 1·15	28·89	43·64	−14·75	1·77	Jessore.
12	0	3	5	4	4	1	0	2	S 62° E	S 32° E	1·5	2·5	−1·0	30	− 2	90	+ 2	·964	+·005	9·0	+0·5	21	+ 5·0	17·52	11·53	+ 5·99	39·18	40·39	− 1·21	3·94	Burdwan.
3	0	1	6	12	5	4	0	0	S 39° E	S 79° E	3·3	2·9	+0·4	62	+22	89	− 2	·960	−·026	7·8	−0·8	15	− 1·5	11·67	11·74	− 0·07	30·63	37·11	− 6·48	2·90	Berhampore.
																															IV.—Bihar and Orissa.
8	0	0	2	0	5	17	3	1	S 39° W	S 41° W	2·3	3·1	−0·8	53	+13	90	+ 3	·980	+·028	6·5	+0·6	16	+ 1·6	6·77	11·22	− 4·45	26·66	36·73	−10·07	1·16	Balasore.
3	0	1	1	2	7	13	2	2	S 31° W		9·7			59						7·9	−0·4	15	− 0·5	13·96	13·13	+ 5·83	40·67	37·70	+ 2·97	4·20	Hukitala (False Point).
18	0	1	1	1	0	5	5	0	S 60° W	S 66° W	1·5	2·0	−0·5	23	−24	85	+ 2	·936	+·030	7·4	+0·1	18	− 0·1	15·40	14·06	+ 1·34	41·99	39·53	+ 2·46	2·83	Cuttack.
6	2	1	0	0	5	9	6	2	S 61° W		10·1			45		87	+ 1	·986	+·020	8·8	+1·9	14	+ 0·9	9·39	12·09	− 2·70	26·68	31·35	− 4·67	1·60	Puri.
8	0	2	3	3	3	2	7	3	S 53° W		3·5			16		85	− 1	·891	+·003	7·4	+1·8	21	+ 6·8	13·58	12·67	+ 0·91	36·30	32·20	+ 4·10	2·39	Angul.
0	1	0	3	6	4	16	0	1	S 15° W	S 30° W	3·3	3·2	+0·1	62	+ 2	89	+ 4	·904	+·021	9·2	+1·2	23	+ 3·9	26·67	18·60	+ 8·07	57·96	51·64	+ 6·32	7·80	Sambalpur.
17	0	3	4	0	1	6	0	0	S 32° E	S 54° W	2·3	1·3	+1·0	13	−20	86	0	·882	+·010	8·6	+1·5	14	− 2·9	8·26	11·81	− 3·55	24·12	35·85	−11·73	2·06	Chaibasa.
2	1	1	7	3	3	7	6	1	S 14° W	S 56° W	4·0	5·3	−1·3	27	+13	91	+ 2	·801	+·007	8·8	+0·5	21	+ 2·1	12·31	12·88	− 0·57	31·04	39·53	− 8·49	2·12	Ranchi.
9	0	3	1	9	1	1	4	3	S 37° E		1·8			16		89	− 1	·902	−·011	8·9	+2·5	18	+ 0·3	10·73	11·25	− 0·52	28·28	33·69	− 5·41	1·70	Purulia.
13	0	2	6	3	1	2	2	1	S 72° W		3·2			23		87	+ 1	·879	−·014	5·9	+0·3	17	+ 0·2	12·72	12·27	+ 0·45	35·69	29·71	+ 5·98	2·16	Daltonganj.
1	2	6	12	8	0	1	1	0	S 90° E	S 89° E	2·6	2·2	+0·4	65	+11	91	0	·990	+·006	7·3	0	14	− 2·3	20·15	13·60	+ 6·55	66·66	43·28	+23·38	3·20	Purnea
0	0	0	14	12	0	2	1	1	S 63° E		8·1			65		88		·968		7·5		13		11·63			29·16			3·52	Monghyr.
10	0	3	16	1	0	1	0	0	N 88° E	S 74° E	4·2	3·2	+1·0	59	− 5	83	− 1	·958	−·018	5·0	+0·9	16	+ 1·5	15·94	13·38	+ 2·56	36·87	36·32	+ 0·55	4·05	Darbhanga.
4	0	2	9	5	1	1	1	0	S 72° E*		2·9			42		89		·979		8·4	−0·1	13		15·85			36·51			4·31	Pusa.
3	0	0	24	0	1	2	1	0	S 84° E	S 73° E	5·4	3·2	+2·2	72	+18	89	+ 2	1·014	+·035	8·9	+1·6	15	+ 1·2	15·46	12·88	+ 2·58	33·46	34·62	− 1·16	3·24	Patna.
1	0	4	14	6	1	4	1	0	S 74° E		4·0			55		90	+ 2	·966	+·013	8·0	+1·2	15	+ 1·0	13·29	11·90	+ 1·39	34·40	29·06	+ 5·34	2·46	Buxar.
1	0	9	6	6	1	8	0	0	S 67° E	S 52° E	3·1	2·7	+0·4	40	+21	83	− 3	·941	+·006	3·7	−3·2	15	0	7·77	12·88	− 5·11	38·00	33·96	+ 4·04	2·13	Gaya.
7	0	2	6	9	4	1	1	1	S 52° E		2·4			46		88	0	·911	+·006	6·8	−0·1	21	+ 2·9	11·49	12·95	− 1·46	42·46	39·32	+ 3·14	2·11	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
4	0	4	21	1	0	0	1	0	N 85° E	S 88° E	2·9	1·6	+1·3	76	+40	89	+ 1	·960	+·001	4·5	−2·0	18	+ 3·1	12·22	13·86	− 1·64	42·38	36·63	+ 5·75	2·20	Gorakhpur.
2	0	4	6	9	1	5	2	2	S 51° E	S 54° E	3·1	3·0	+0·1	33	+22	89	+ 2	·965	+·007	8·2	+0·2	15	+ 0·2	15·40	11·51	+ 3·49	31·83	28·21	+ 3·62	2·76	Benares.
9	0	1	13	1	0	1	5	1	E	N 79° W	3·3	4·8	−1·5	26	+22	84	− 2	·925	−·020	9·1	+0·5	18	+ 4·0	17·91	12·03	+ 5·88	50·82	28·97	+21·85	3·30	Allahabad.
4	1	2	10	8	2	3	1	0	S 62° E	S 2° W	3·3	2·9	−0·6	49	+42	91	0	·952	+·006	4·7	−1·7	18	+ 4·7	13·16	11·81	+ 1·35	41·60	26·22	+15·38	2·80	Cawnpore.

* 8 variable winds.

Table

(2) Abstract of observations taken at 8 hrs. at 216

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	368	29·256	+·020	29·580	29·364	23rd	29·077	11th	81·5	79·0	88·7	−1·7	77·8	−0·7	83·3	−1·2	10·9	98·5	5th	74·1	12th
	Bahraich	407	29·227	+·025	29·594	29·333	23rd	29·021	11th	82·3	78·3	89·7	−0·4	78·0	−0·3	83·8	−0·3	11·7	95·4	5th	75·4	1st & 5th
10	Jhansi	824	28·788	−·017	29·564	28·920	30th	28·697	12th	79·7	77·0	88·3	−0·7	76·2	−1·2	82·8	−0·9	12·1	94·4	5th	72·8	22nd & 30th.
	Agra	556	29·058	+·007	29·569	29·155	23rd	28·916	12th	83·1	79·0	90·3	−1·1	78·7	−0·5	84·5	−0·8	11·6	97·5	5th	72·8	12th
	Mainpuri	516	29·092	+·007	29·565	29·176	23rd & 24th.	28·939	11th	81·2	78·8	88·7	−2·6	78·0	−0·6	83·3	−1·6	10·7	94·9	5th	71·6	12th
	Bareilly	568	29·057	+·021	29·584	29·160	23rd	28·867	11th	81·3	78·2	89·5	−0·5	77·4	−0·6	83·4	−0·5	12·0	96·1	15th	70·0	12th
	Roorkee	899	28·746	+·036	29·605	28·966	23rd	28·547	11th	80·6	77·2	89·1	−0·9	76·6	−0·4	82·8	−0·7	12·5	95·0	15th	70·8	13th
	VI.—Punjab.																					
11	Delhi	718	28·915	+·032	29·593	29·025	23rd	28·736	11th	80·9	77·6	89·8	−2·0	77·9	+1·7	83·9	−1·9	11·9	98·8	4th	72·9	12th
	Hissar	725	28·893	+·035	29·573	29·004	23rd	28·711	11th	83·3	78·5	93·5	−4·6	77·8	+2·7	85·7	−3·7	15·7	101·5	1st	73·2	7th
	Patiala	*818*	28·768	+·021	29·575	28·924	23rd	28·610	12th	82·3	78·5	90·7	−1·3	78·2	+0·3	84·5	−0·8	12·5	97·2	15th	75·0	11th
	Ambala	892	28·737	+·036	29·591	29·855	23rd	28·532	11th	80·6	77·5	91·3	−0·7	76·5	+1·2	83·9	−0·9	14·8	97·7	15th	71·1	18th
	Ludhiana	812	28·813	+·036	29·586	29·922	23rd	28·598	11th	82·3	78·0	92·3	−2·0	78·6	+0·5	85·5	−1·8	13·7	99·1	17th	74·4	13th
	Lahore	702	28·905	+·036	29·570	29·047	23rd	28·687	12th	83·1	79·5	92·8	−5·0	79·1	+0·2	86·0	−2·4	13·7	98·0	16th	74·2	26th
	Sialkot	830	28·788	+·035	29·583	28·964	16th	28·557	11th	81·3	78·5	90·9	−3·5	77·0	+1·3	84·0	−2·4	13·9	97·2	16th	72·4	25th
	Rawalpindi	1,674	27·964	+·029	29·580	28·145	16th	27·722	12th	80·0	76·8	89·3	−4·4	74·8	+0·6	82·1	−2·5	14·5	96·1	16th	69·0	20th
12	Khushab	812	29·003	+·048P	29·581	29·139	16th	28·761	11th	83·7	79·2	94·1	−6·6	80·5	+0·9	87·3	−3·7	13·6	101·6	16th	75·2	2nd & 21st.
	Lyallpur	605	28·992		29·560	29·128	16th & 23rd.	28·749	12th	84·1	79·6	95·2		78·9		87·0		16·3	101·8	1st	74·9	21st & 22nd.
	Montgomery	558	29·038	+·034	29·558	29·158	16th	28·814	12th	85·2	79·6	96·6	−5·2	80·1	+2·0	88·3	−3·6	16·5	103·8	1st	75·0	21st
	Multan	426	29·146	+·022	29·531	29·303	23rd	28·912	12th	86·0	80·8	98·9	−2·3	81·8	+0·8	90·4	−1·5	17·1	107·0	2nd	74·5	13th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·492	+·015	29·563	28·634	23rd	28·239	12th	82·5	78·4	95·0	−4·2	77·9	+0·1	86·4	−2·1	17·1	105·0	1st	70·9	17th
	D. I. Khan	590	28·996	+·022	29·551	29·151	23rd	28·755	11th	84·6	80·2	95·3	−5·6	81·2	0	88·2	−2·8	14·1	101·4	16th	76·4	17th
	VIII.—Sind.																					
16	Jacobabad	186	29·383	+·022	29·524	29·493	17th	29·125	12th	88·6	81·9	103·4	−1·2	84·1	+2·2	93·8	+0·5	19·3	113·5	12th	76·8	22nd
	Hyderabad	96	29·481	−·005	29·529	29·560	25th	29·305	12th	83·4	78·8	93·4	−2·5	80·1	+1·1	86·7	−0·7	13·3	102·1	7th	75·5	23rd
	Karachi	13	29·609	−·012	29·573	29·706	31st	29·485	1st	81·6	78·6	87·0	+1·5	78·9	+1·2	82·9	+1·3	8·1	95·2	4th & 5th	75·0	18th
	IX.—Rajputana.																					
17	Bikaner	*771*	28·833	+·011	29·556	28·914	20th	28·656	12th	84·5	78·6	97·6	+0·1P	80·1	−0·9	88·8	−0·4P	17·5	104·2	5th	75·9	8th
	Jodhpur	780	28·833	−·019	29·568	28·928	19th	28·685	12th	81·3	76·1	91·7	−1·6	78·4	+0·4	85·1	−0·6	13·3	101·5	4th	74·8	4th
18	Jaipur	1,431	28·213	−·004	29·585	28·297	31st	28·088	12th	79·3	76·4	87·3	−4·1	75·7	+0·7	81·5	−2·4	11·6	93·7	5th	71·1	11th & 22nd
	Ajmer	1,611	28·033	−·016	29·576	28·121	30th	27·898	12th	77·4	74·6	85·3	−2·7	75·9	0	80·6	−1·3	9·4	91·2	4th & 5th	72·0	22nd & 26th
	Kotah	832	28·782	−·012	29·566	28·892	30th	28·692	15th	81·0	77·3	88·0	−2·5	77·2	+1·7	82·6	−2·1	10·8	99·4	4th	73·2	26th

N. B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in August, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs., in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															V.—United Provinces of Agra and Oudh—*concld.*
14	0	1	13	2	0	1	0	0	S 84° E	S 88° E	1·7	2·1	−0·4	46	+29	89	+ 2	·960	+·009	8·0	+0·6	17	+3·8	15·46	11·27	+4·19	33·41	28·65	+4·76	3·60	Lucknow.
4	1	0	12	11	0	1	1	1	S 69° E	S 70° E	1·9*	2·0	−0·1	59	+11	83	− 4	·914	−·044	3·7	−1·9	12	−1·6	10·72	14·29	−3·57	25·33	32·91	−7·58	2·79	Bahraich.
0	2	6	5	1	3	7	6	4	S 45° W	S 85° W	4·8	2·8	+2·0	10	−26	88	+ 5	·889	+·069	6·8	+1·8	15	+1·1	17·98	11·63	+6·35	35·05	28·76	+6·29	2·71	Jhansi.
4	1	7	9	3	3	3	1	0	S 85° E	S 40° W	4·0	3·6	+0·4	43	+14	83	+ 2	·934	+·035	7·7	+1·1	16	+5·8	13·20	8·26	+4·94	25·62	20·82	+4·80	3·67	Agra.
4	0	3	9	9	1	2	3	0	S 63° E	S 13° W	1·7	1·2	+0·5	46	+40	89	+ 5	·956	+·021	8·4	+1·6	11	+0·2	7·92	9·05	−1·13	25·94	19·48	+6·46	2·91	Alainpuri.
19	0	0	9	8	0	0	0	0	S 69° E	S 71° E	0·9	1·9	−1·0	53	+31	87	− 1	·923	−·013	8·1	+1·1	13	+0·2	14·48	13·20	+1·28	42·38	33·34	−9·04	4·09	Bareilly.
20	0	0	0	11	0	0	0	0	S 45° E	S 36° E	2·1	1·8	+0·3	37	+ 5	85	0	·881	−·093	6·5	0	15	+2·6	16·55	12·63	+3·92	35·80	30·52	+4·88	2·52	Roorkee.
																															VI.—Punjab.
6	1	5	6	7	0	1	1	4	N 79° E	S 27° W	4·1†	2·8	+1·3	38	+15	86	+ 7	·909	+·034	6·4	−0·2	15	+5·2	13·41	7·88	+5·53	21·08	19·67	+1·41	2·83	Delhi.
3	1	6	6	11	8	5	2	0	N 32° E	S 42° W	4·6			49	+ 9	80	+ 9	·908	+·050	6·1	+2·3	9	+3·6	11·15	3·62	+7·53	16·62	9·79	+6·83	3·25	Hissar.
1	0	2	17	4	5	0	2	0	S 72° E		3·5			65		84	+ 1	·925	−·012	5·3	−0·4	8	−1·0	8·14	7·38	+0·76	21·23	16·64	+4·59	1·92	Patiala.
7	0	0	14	8	0	1	0	1	S 73° E	S 21° E	2·5	0·9	+1·6	62	+38	87	0	·904	−·039	7·1	+1·2	14	+4·9	9·49	7·90	+1·59	25·94	20·06	+4·98	1·80	Ambala.
27	0	0	0	3	1	0	0	0	S 34° E	S 29° E	1·9	1·3	+0·6	13	−26	82	+ 2	·898	+·005	2·5	−3·1†	7	−1·2	7·51	7·61	−0·10	20·39	19·11	+1·28	3·52	Ludhiana.
17	0	3	3	6	1	1	0	0	S 66° E	S 41° E	1·3	2·0	−0·7	33	− 7	85	+10	·962	+·057	5·7	+1·9	9	+3·1	5·08	5·30	−0·22	22·48	13·30	+9·18	1·36	Lahore.
9	2	7	7	4	0	1	0	0	N 73° E	N 83° E	1·5	1·8	−0·3	46	− 1	86	+ 9	·937	+·041	5·7	+1·6	9	−0·4	5·92	9·38	−3·46	26·78	20·91	+5·87	1·44	Sialkot.
11	0	4	7	5	1	0	2	1	S 85° E	S 82° E	1·5	1·2	+0·3	37	+ 8	86	+ 8	·883	+·051	6·4	+1·8	15	+5·7	23·58	8·82	+14·76	37·53	20·40	+17·13	4·37	Rawalpindi.
6	0	9	13	1	1	1	0	0	N 78° E	N 68° E	6·5	4·5	+2·0	62	+ 5	81	+12	·939	+·070	6·3	+3·3	5	+1·8	4·45	3·03	+1·42	10·77	8·99	+1·78	2·55	Khushab.
6	1	7	3	6	6	1	0	1	S 68° E		2·4			40		81		·947		6·0		8	+5·0	5·74	2·37	+3·37	8·44	7·94	+0·50	2·53	Lyallpur.
1	3	5	2	3	7	5	2	3	S	S 12° W	5·3	6·0	−0·7	13	−41	77	+15	·931	+·114	4·1	+1·6	9	+5·2	7·87	3·24	+4·63	9·46	6·86	+2·60	2·45	Montgomery.
16	3	4	0	2	3	3	0	0	S 72° E	S 14° E	1·6	2·1	−0·5	7	−36	79	+11	·984	+·117	4·6	+2·7	5	+2·7	2·90	1·74	+1·16	4·27	4·66	−0·39	0·25	Multan.
																															VII.—North-West Frontier Province.
24	7	0	0	0	0	0	0	0	N	N 10° W	1·1	2·6	−1·5	23	−20	83	+13	·923	+·098	5·3	+2·0	10	+7·7	10·85	2·08	+8·77	12·92	4·75	+8·17	3·18	Peshawar.
24	1	2	0	3	0	1	0	0	S 81° E	N 72° E	1·5	1·5	0	9	−27	82	+ 7	·969	+·057†	5·0	+2·9	3	+0·6	4·39	2·10	+2·29	6·43	5·46	+0·97	2·02	D. I. Khan.
																															VIII.—Sind.
19	0	0	2	8	1	1	0	0	S 43° E	S 41° E	2·1	3·1	−1·0	33	−37	75	+ 3	·999	+·086	5·0	+2·8	4	+2·4	2·26	1·01	+1·25	2·86	2·32	+0·54	0·94	Jacobabad.
2	6	2	0	0	8	12	1	0	S 42° W	S 43° W	7·4	11·9	−4·5	40	−46	81	+11	·915	+·130	7·1	+2·6	11	+8·6	9·43	2·14	+7·34	11·80	5·76	+6·04	1·72	Hyderabad.
1	1	1	1	2	0	8	15	2	S 77° W	S 76° W	12·0	12·0	0	62	−24	87	+ 2	·938	+·076	8·3	+0·8	10	+8·1	14·15	1·59	+12·56	20·37	5·75	+14·62	3·58	Karachi.
																															IX.—Rajputana.
0	1	4	3	3	5	7	4	4	S 33° W	S 36° W	6·2	5·6	+0·6	30	−50	76	+ 7	·896	+·061	5·2	+1·0	7	+2·0	5·11	3·57	+1·54	16·51	8·94	+7·57	3·04	Bikaner.
2	0	2	3	2	2	17	2	1	S 34° W		5·5			53		79	+ 3	·829	+·028	8·3	+1·5	9	+3·3	11·03	4·31	+6·72	14·74	10·00	+4·74	6·89	Jodhpur.
3	2	5	6	2	0	1	6	6	N	N 88° W	4·5	3·4	+1·1	25	−32	87	+ 8	·867	+·049	8·6	+1·6	17	+6·3	12·04	8·31	+3·73	18·24	18·76	−0·52	3·09	Jaipur.
10	0	2	3	2	0	7	5	2	S 57° W	S 35° W	4·3	5·0	−0·7	29	−62	88	+ 5	·822	+·010	9·1	+2·6	17	+8·2	10·26	7·05	+3·21	19·92	16·81	+3·11	2·21	Ajmer.
1	0	4	1	2	0	10	4	8	S 86° W		4·3			37		84	+10†	·879	+·074†	7·4	+1·6	19	+3·8	22·87	8·20	+14·67	38·39	21·48	+16·91	4·92	Kotah.

* Mean of 29 days.
† „ „ 20 „

Table

(2) Abstract of observations taken at 8 hrs. at 216

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay.																					
19	Deesa	466	29·193	−·017	29·6.2	29·312	31st	29·080	15th	79·3	77·2	88·9	−0·2	76·7	+0·9	82·8	+0·3	12·2	102·3	3rd	74·8	31st
	Bhuj	334	29·368	−·027	29·592	29·405	31st	29·159	3rd	80·1	76·8	86·1	−2·5	76·8	+0·5	81·5	−1·0	9·3	94·4	1st & 4th	74·3	15th
	Jamnagar	61	29·607	−·025	29·614	9·708	31st	29·415	3rd	80·5		85·7	−2·4	76·1	−0·6	80·9	−1·5	9·6	91·9	1st	73·9	31st
	Dwarka	37	29·639	−·026	29·622	9·724	31st	29·457	3rd	80·4	77·5	83·7	−0·8	78·8	+0·7	81·3	−0·1	4·9	86·7	6th	77·3	30th
	Rajkot	428	29·247	−·028	29·621	9·337	19th	29·060	3rd	78·6	76·2	86·3	−2·5	74·6	+0·1	80·4	−1·2	11·7	89·9	31st	72·5	26th & 31st.
	Veraval	*18*	29·690	−·028	29·651	29·777	9th & 31st.	29·480	3rd	79·9	77·9	82·0	−0·3	78·9	+1·1	80·5	+0·3	3·1	83·6	6th	75·3	28th & 29th.
	Bhavnagar Para	55	29·633	−·036	29·634	29·734	31st	29·462	3rd	81·1		89·9	−1·6	75·7	−0·1	83·3	−0·9	13·2	95·6	1st	74·2	30th & 31st.
	Surat	39	29·678	−·024	29·660	29·774	30th & 31st.	29·516	3rd	80·3	77·3	85·4	−1·3	76·8	+0·1	81·1	−0·6	8·3	87·7	3rd	73·3	29th
	Ahmadabad	163	29·528	−·011	29·641	29·646	31st	29·378	15th	79·8	77·0	89·4	−0·3	76·7	−0·4	83·1	−0·3	12·7	97·2	1st	74·2	2nd
25	Bombay	37	29·737	−·019	29·714	29·823	30th	29·575	3rd	80·6	77·7	84·5	+0·3	78·3	+1·2	81·4	+0·7	6·2	87·6	31st	76·0	2nd
	Ratnagiri	207	29·603	−·015	29·750	29·661	30th	29·455	3rd	79·5	76·4	82·6	−1·1	75·9	+0·5	79·3	−0·3	6·7	85·1	30th & 31st	72·9	2nd
	Marmagao*	*60*	29·772	−·022	29·768	29·838	9th	29·668	3rd	79·9	78·0	84·0	+0·6	76·0	+0·2	80·0	+0·4	8·0	86·2	28th	73·9	12th
	Karwar	44	29·815	−·005	29·794	29·869	11th	29·722	2nd & 3rd.	78·8	76·6	83·2	+0·8	75·8	+1·1	79·5	+0·9	7·4	85·6	31st	73·6	11th
26	Malegaon	1,420	28·303	−·007	29·672	28·403	30th	28·147	15th	77·8	72·0	89·0	+2·1	72·7	+0·8	80·8	+1·5	15·3	95·0	31st	70·1	30th & 31st.
	Ahmednagar	2,154	27·627	−·011	29·690	27·711	30th	27·499	3rd	74·9	70·2	84·5	−0·3	69·4	+0·4	77·0	+0·1	15·1	91·4	31st	65·9	30th
	Poona	1,846	27·940	−·003	29·719	28·045	3.th	27·794	3rd	74·5	71·7	81·6	−0·1	70·6	+1·0	76·1	+0·5	11·0	86·6	31st	64·9	20th
	Sholapur*	1,590	28·082	−·016	29·704	28·274	30th	28·069	15th	76·3	71·4	87·2	−1·5	71·3	+0·5	79·2	−0·5	15·9	93·0	28th	69·1	18th
	Bijapur	*1,948*	27·853	−·004	29·724	27·941	30th	27·742	3rd	74·6	70·1	85·3	−1·2	70·0	+0·2	77·7	−0·5	15·3	90·4	31st	67·9	11th & 18th.
	Belgaum	2,562	27·304	+·011	29·781	27·364	25th	27·205	3rd	70·1	68·9	76·2	−0·1	66·5	+0·2	71·4	+0·1	9·7	85·1	31st	64·5	20th
	XI.—Central India.																					
20	Neemuch	1,626	28·039	−·028	29·601	28·158	31st	27·927	15th	76·0	73·9	83·6	−1·3	73·7	+1·1	78·7	−0·1	9·9	91·7	3rd & 4th	71·8	31st
	Indore	1,823	27·866	−·023	29·622	27·989	30th	27·709	15th	74·9	72·8	82·1	−0·5	72·2	+0·8	77·1	+0·1	9·9	89·3	3rd	69·1	31st
21	Nowgong	754	28·857	−·012	29·563	28·997	30th	28·767	12th	79·6	77·2	87·2	−0·7	76·7	−0·3	81·9	−0·5	10·5	93·4	5th	74·0	12th & 13th.
	Satna	1,041	28·572	−·002	29·562	28·721	30th	28·456	11th	78·7	76·0	85·7	−0·3	75·7	−0·5	80·7	−0·4	10·0	91·8	5th	73·0	7th & 12th
	XII.—Central Provinces.																					
22	Buldana	2,134								75·6	70·5	82·0	+0·1	70·5	+1·0	76·3	+0·5	11·5	85·8	30th	68·8	30th
	Akola	925	28·776	−·019	29·619	28·906	30th	28·611	15th	77·9	74·1	87·1	0	71·1	+0·7	80·6	+0·3	13·0	92·8	30th	71·8	27th
	Amraoti	1,215	28·484	−·010	29·616	28·614	30th	28·325	15th	76·7	73·3	86·0	−0·2	73·7	+1·0	79·9	+0·4	12·3	91·6	21st	72·1	27th
23	Khandwa	1,044	28·646	−·015	29·641	28·741	31st	28·488	15th	76·7	74·0	84·6	−1·1	74·8	+0·6	79·7	−0·3	9·8	89·6	3rd & 5th	71·9	30th
	Hoshangabad	1,006	28·668	−·009	29·622	28·783	30th	28·514	15th	77·8	75·6	84·2	−0·9	74·2	+0·2	79·2	−0·3	10·0	88·5	4th	71·4	22nd
	Saugor	1,807	27·839	−·025	29·576	27·985	30th	27·724	15th	75·2	73·3	83·6	0	72·3	0	78·2	0	10·7	89·2	4th	69·2	22nd
	Jubbulpore	1,327	28·309	−·013	29·576	28·471	30th	28·170	14th	77·7	74·6	85·5	+0·8	74·6	+0·9	80·2	+0·9	10·7	89·5	4th & 24th	72·3	25th
	Seoni	2,033	27·655	+·001	29·605	27·805	30th	27·502	14th	76·1	73·4	82·7	−0·4	70·1	−1·6	76·4	−1·0	12·6	86·4	7th	66·1	22nd
	Nagpur	1,017	28·658	−·009	29·619	28·800	30th	28·504	15th	78·7	74·6	86·4	−0·5	74·9	+0·3	80·7	−0·1	11·5	91·3	31st	71·8	22nd
24	Pendra	2,940	27·636	+·016	29·594	27·802	30th	27·488	14th	76·4	73·6	83·7	+0·4	72·2	−0·4	77·9	0	11·5	87·6	1st	70·8	13th & 29th.

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B—*continued.*

stations in India, etc., in August, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															X.—Bombay.
1	1	1	0	1	4	4	8	1	S 55° W	S 71° W	9·5	8·8	+0·7	66	−9	90	+6	·904	+·061	9·2	+0·8	20	+10·5	16·02	8·01	+8·01	19·56	19·73	−0·17	3·78	Deesa.
0	2	0	1	0	1	1	26	0	N 89° W	S 76° W	10·4	11·5	−1·1	83	−7	85	+2	·878	+·019	8·1	+0·8	11	+6·8	7·82	2·95	+4·87	10·91	11·54	−0·63	2·30	Bhuj.
0	0	1	0	1	5	1	3	0	S 35° W		12·8			78		81	0	·922	+·055	8·5	+3·4†	13	+5·5	10·86	7·01	+3·8	18·45	16·82	+1·63	2·60	Jamnagar.
0	0	0	1	0	0	17	12	1	S 64° W		16·0			85		87	+1	·903	+·001	8·5	+0·5	13	+8·1	6·37	3·56	+2·81	9·14	12·65	−3·51	1·42	Dwarka.
0	0	0	0	2	4	23	2	0	S 38° W	S 77° W	12·4	9·1	+3·3	86	−4	89	+5	·869	+·031	9·3	+1·9	15	+7·3	7·85	5·91	+1·94	19·12	21·94	−2·82	2·11	Rajkot.
0	1	0	0	0	0	12	17	1	S 76° W	S 77° W	15·5†	8·5	+6·9	89	+7	91	+2	·930	+·041	8·8	+0·7	10	+4·0	6·25	4·38	+2·17	15·19	15·31	−0·12	2·73	Veraval.
0	0	0	1	0	0	23	4	0	S 51° W	S 48° W	5·1	8·6	−3·5	76	−14	86	+6	·909	+·058	7·7	+0·2	8	−0·4	7·23	5·96	+1·27	15·55	16·08	−0·53	2·31	Bhavnagar Para.
3	0	0	0	2	9	10	5	2	S 37° W	S 66° W	5·7	7·2	−1·5	66	−14	87	+2	·891	+·001	9·4	+1·5	16	+3·5	17·79	7·67	+10·12	39·88	33·25	+6·63	3·90	Surat.
1	1	0	0	2	5	16	4	2	S 45° W	S 63° W	4·9	3·6	+1·3	69	−3	88	+5	·837	+·032	8·3	−0·1	18	+7·2	13·13	8·57	+4·56	41·13	25·23	−4·10	1·70	Ahmadabad.
0	0	1	0	1	1	8	20	0	S 75° W	S 77° W	9·4	11·2	−1·8	82	−1	88	+1	·907	+·024	8·6	−0·3	23	+3·8	19·51	14·19	+5·32	65·79	58·55	+7·24	4·81	Bombay.
0	3	1	0	2	1	10	12	2	S 76° W	S 74° W	8·1	6·9	+1·2	59	−9	86	−2	·864	−·003	8·5	+0·3	28	+4·4	29·19	20·02	+9·17	105·45	84·70	+24·75	4·00	Ratnagiri.
3	0	0	2	0	0	1	23	2	N 88° W	N 56° W	8·1	8·2	−0·1	76	−1	92	+1	·931	+·027	9·1	+1·5	22	0	15·38	15·67	−0·29	89·95	79·32	+10·63	3·10	Marmagao.
20	1	0	0	0	8	1	0	1	S 11° W	N 81° W	2·5	3·1	−0·6	23	−24	90	+3	·884	+·047	7·8	+0·4	18	−5·7	17·71	21·15	−4·44	94·45	102·46	−8·01	3·72	Karwar.
3	0	0	0	0	2	24	1	1	S 46° W	S 78° W	8·6	9·3	−0·7	85	0	79	+2	·754	+·031	7·5	+0·9	6	+0·1	3·00	3·40	−0·40	16·28	13·66	+2·62	1·32	Malegaon.
1	0	0	0	0	1	9	14	6	S 83° W	S 86° W	6·9	13·5	−6·6	82	+7	79	−1	·676	−·008	5·9	−0·5	1	−4·4	0·95	2·78	−1·83	18·64	11·89	+6·75	0·52	Ahmadnagar.
0	0	0	0	0	1	1	29	0	S 87° W	S 83° W	10·1	10·8	−0·7	99	+9	87	+3	·739	+·045	5·2	−2·3?	13	+4·1	3·30	3·76	−0·46	14·84	16·88	−2·04	0·48	Poona.
1	1	0	0	0	0	17	9	3	S 69° W	S 83° W	7·8	9·3	−1·5	79	−5	79	+3	·706	+·025	7·9	+0·4	7	−1·3	2·87	5·46	−2·59	21·78	15·47	+6·31	0·73	Sholapur.
0	0	0	0	0	0	14	10	7	S 78° W	S 82° W	8·7	7·8	+0·9	82	−3	80	−1	·681	−·008	6·0	−1·2	6	+0·7	2·48	2·73	−0·25	12·97	9·26	+3·71	0·90	Bijapur.
8	0	0	0	0	0	8	15	0	S 75° W	S 83° W	13·3	15·7	−2·4	72	−19	94	+2	·689	+·016	8·7	−0·1	14	−3·0	11·95	9·23	+2·72	32·88	36·03	−3·15	1·86	Belgaum.
																															XI.—Central India.
3	0	0	4	0	0	5	19	0	S 79° W	S 75° W	7·0	8·0	−1·0	62	−22	91	+5	·814	+·030	9·2	+2·0	15	+5·0	17·11	9·02	+8·09	32·21	22·26	+9·95	4·62	Neemuch.
2	1	0	0	0	0	3	20	5	N 85° W	S 85° W	7·7	4·2	+3·5	86	+4	90	+1	·790	+·020	9·6	+0·4	21	+10·2	14·09	7·67	+6·42	33·44	23·62	+9·82	2·95	Indore.
4	0	1	10	2	5	4	7	0	S 28° E	S 89° W	2·7	2·3	+0·4	30	−21	89	+2	·900	+·015	8·5	+0·3	18	+4·4	20·56	15·26	+7·30	37·56	33·71	+3·85	5·99	Nowgong.
4	1	0	5	4	3	5	8	1	S 31° W	S 89° W	3·8	5·6	−1·8	30	−11	89	+2	·873	−·003	7·9	−0·4	19	+4·2	15·44	12·23	+1·18	41·77	32·39	+8·88	4·90	Sutna.
																															XII.—Central Provinces.
0	0	0	0	0	0	8	15	8	W		6·7	6·3	+0·4	84		86		·708		7·3		11	−1·2	7·65	7·41	+0·24	39·35	23·38	+15·97	1·85	Buldana.
1	0	0	0	0	1	3	19	7	N 86° W	N 78° W	6·7	6·3	+0·4	86	0	83	+1	·789	+·021	9·7	+1·7	13	+2·9	8·06	7·03	+1·03	28·06	22·55	+5·51	1·48	Akola.
0	0	0	0	0	0	2	15	8	N 79° W	N 89° W	7·8‡	5·7	+2·1	88	+2	85	−2	·777	+·003	9·0	+1·2	12	+1·3	9·86	6·97	+2·89	27·13	23·55	+3·58	3·05	Amraoti.
1	0	0	0	0	0	1	27	[illegible]	N 89° W	N 86° W	7·4	6·4	+1·0	96	+3	88	+4	·802	+·034	6·1	−1·3	15	+4·7	9·87	6·66	+3·21	26·84	21·10	+5·74	3·15	Khandwa.
7	0	2	0	0	0	22	0	0	S 45° W	S 53° W	3·5	2·8	+0·7	66	−13	91	+1	·858	+·030	7·8	−0·9	24	+8·5	28·12	14·63	+13·49	46·46	36·80	+9·66	4·12	Hoshangabad.
2	1	0	2	2	1	5	13	[illegible]	S 85° W	S 87° W	7·4	3·9	+3·5	56	−9	91	+3	·793	+·012	8·7	+0·7	20	+4·5	15·61	13·37	+2·24	28·81	35·32	−6·51	3·45	Saugor.
1	0	1	3	3	2	10	10	1	S 51° W	S 77° W	2·9	3·1	−0·2	53	−15	86	−3	·813	−·008	8·7	+0·5	21	+3·5	14·15	16·54	−2·39	35·03	43·16	−8·13	1·88	Jubbulpore.
2	3	1	1	2	2	5	12	3	S 86° W	N 76° W	4·4	3·6	+0·8	49	+6	87	−1	·787	+·017	8·1	+1·2	20	+3·2	17·93	12·75	+5·18	37·33	38·18	−0·35	3·63	Seoni.
2	1	0	0	0	0	1	13	14	N 67° W	S 89° W	5·8	5·3	+0·5	82	+21	82	−3	·801	−·002	8·5	+0·3	15	+1·2	13·48	11·76	+1·72	38·22	35·60	+2·62	3·75	Nagpur.
12	3	0	1	1	5	5	1	3	S 50° W	S 56° W	2·7	6·1	−3·4	23		87	0	·792	+·009	6·2	−1·0	20	+1·5	14·36	13·65	+1·31	39·40	37·27	+2·13	2·85	Pendra.

† Wind observations for 25 days.

† Mean of 22 days.
‡ „ „ 25 „

Table

(2) Abstract of observations taken at 8 hrs. at 216

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XII.—Central Provinces—concld.																					
	Raipur	970	28·685	−·005?	29·598?	28·842	30th	28·498	14th	78·5	75·9	85·7	+0·9	75·6	+0·9	81·1	+0·9	11·1	90·3	4th	71·8	3rd
	Chanda	634	29·055	−·024	29·635	29·79	30th	28·919	15th	78·9	75·7	86·9	−0·6	75·6	+0·5	81·2	−0·1	11·3	91·1	10th	73·0	25th
	Jagdalpur	1,813	27·893		29·626	28·024	30th	27·764	9nd	76·2	73·9	83·2		72·1		77·7		11·1	86·4	3rd, 24th & 31st.	70·2	27th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·850	−·021	29·683	27·958	30th	27·703	15th	74·3	71·3	84·0	−1·0	70·2	+0·9	77·1	−0·1	13·8	88·2	30th	66·0	29th
	Nizamabad	1,243	28·491	?	29·681	28·582	30th	28·366	15th	75·8	72·6	86·9	+0·8	73·4	+0·6	80·1	+0·7	13·5	90·9	31st	69·9	1st
	Bidar	2,268								74·6	71·2	83·1	−0·7	69·5	+2·1?	76·3	+0·7?	13·6	87·5	22nd & 23rd.	67·4	12th
28	Gulbarga	1,503	28·275	−·009	29·715	28·359	30th	28·161	3rd	75·5	71·3	88·3	+0·1	71·7	+0·3	80·0	+0·2	16·6	93·8	27th	69·8	28th
	Raichur	1,312	28·496	+·018	29·745	28·570	30th	28·384	2nd	77·4	72·9	88·6	−0·4	73·7	+1·2	81·2	+0·4	14·9	93·8	19th & 26th.	71·0	14th
	Hyderabad (Deccan)	1,719	28·660	+·012	29·703	28·145	30th	27·956	15th	75·6	72·1	86·0	+0·5	73·2	+0·8	79·6	+0·7	12·8	91·3	31st	71·0	1st 1st; & 2nd.
	Hanamkonda	877	28·864	+·006	29·682	28·980	30th	28·737	2nd	79·3	73·7	87·5	−0·2	75·7	+0·6	81·6	+0·2	11·8	92·5	22nd	73·0	
	XIV.—Mysore.																					
21	Chitaldrug	2,405	27·452	+·004	29·766	27·522	10th	27·355	3rd	72·0	68·4	82·7	+0·6	68·9	+0·7	75·8	+0·7	13·8	88·9	31st	67·8	4th
	Hassan	3,149	26·770	+·003	29·787	26·833	10th	26·702	3rd	69·6	67·2	78·4	−0·1	65·8	+1·1	72·1	+0·5	12·6	83·7	28th	63·7	22nd
	Bangalore	3,021	26·884	−·003	29·782	26·953	9th	26·803	2nd	69·5	67·4	80·6	−1·3	65·8	0	73·2	−0·7	14·8	85·2	31st	63·4	21st
	Mysore	2,518	27·374	−·008	29·795	27·434	9th	27·311	2nd	71·9	68·8	81·2	−2·1	67·1	+0·5	74·1	−0·8	14·1	85·8	28th	65·5	16th
	XV.—Madras.																					
30	Mangalore	72	29·864	−·026	29·808	29·861	10th	29·742	1st	78·5	76·1	84·1*	+0·7	75·1	+1·4	79·6*	+1·1	9·0	87·1	17th	72·3	4th
	Calicut	27	29·860	−·017	29·816	29·919	10th	29·795	31st	77·2	76·0	82·6	−0·1	75·4	+1·1	79·0	+0·5	7·2	84·1	13th, 14th & 29th.	73·1	14th
	Cochin	9	29·892	−·018	29·829	29·940	10th	29·827	31st	78·9	75·5	84·9	+0·8	75·0	+0·6	79·9	+0·7	9·9	86·5	5th & 14th.	72·2	27th
	Trivandrum	198	29·699	−·008	29·828	29·748	9th & 17th.	29·637	31st	78·3	74·5	83·9	+1·7	74·4	−0·6	79·1	+0·5	9·5	86·5	23rd & 20th.	72·3	27th
31	Pamban	37	29·804	−·010	29·770	29·868	9th	29·744	1st	82·0	77·0	87·6	+1·7	79·1	+0·7	83·4	−0·5	8·5	89·2	9th & 11th.	77·7	27th
	Madura	447	29·393	−·004	29·771	29·468	9th	29·231	1st	81·7	74·5	92·7	−3·6	75·9	+0·1	84·4	−1·7	16·8	96·4	20th	73·0	23rd
	Pudukkottai	318	29·534	+·009	29·779	29·600	9th	29·458	7th	81·6	73·6	93·8	−0·8	75·7	+0·1	84·8	−0·3	18·1	99·1	20th	70·0	28th
	Negapatam	31	29·805	0	29·785	29·880	9th	29·749	1st	82·3	78·2	93·1	−0·8	77·4	+0·1	85·2	−0·3	15·7	98·8	8th	71·8	31st
	Trichinopoly	255	29·587	−·001	29·775	29·663	9th	29·512	1st	81·1	74·4	93·5	−3·0	76·4	−0·4	85·0	−1·7	17·1	97·9	20th	72·6	29th
	Coimbatore	1,341	28·524	+·008	29·796	28·589	9th	28·440	1st	77·1	72·4	87·7	−0·5	71·8	+1·0	79·7	+0·3	15·9	91·4	24th	69·7	6th & 8th.
	Salem	913	28·936	+·006	29·784	29·007	10th	28·870	1st	78·3	73·5	90·7	−1·4	73·2	+0·5	82·0	−0·5	17·4	98·3	17th	70·8	31st
	Cuddalore	37	29·786	+·001	29·754	29·861	10th	29·695	1st	81·8	76·7	92·1	−1·7	76·7	0	84·4	−0·9	15·4	96·7	17th	71·3	21st & 28th.
	Vellore	707	29·111	0	29·755	29·186	10th	29·005	1st	79·5	75·2	91·0	−1·9	74·5	−1·8	82·8	−1·9	16·5	94·1	15th	70·9	31st
	Madras	22	29·788	+·001	29·743	29·866	10th	29·701	1st	82·8	76·8	94·2	+0·4	78·0	+0·5	86·1	+0·5	16·2	100·2	15th	75·7	9th & 28th.
	Cuddapah	623	29·376	−·009	29·740	29·444	10th & 18th.	29·278	2nd	81·1	75·9	91·6	−2·7	77·6	+0·8	84·6	−0·9	14·0	97·6	19th	72·6	29th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B—*continued.*

Stations in India, etc., in August, 1916—*continued.*

Wind direction. Number of winds from Calm (24)	N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st May to 31st August, 1916. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															XII.—Central Provinces—*concld.*
0	0	0	2	0	4	14	10	1	S 55° W	S 76° W	5·6	4·1	+1·5	76	+ 4	89	0	·864	+·027	5·5	−2·1	11	−4·5	8·56	13·07	−4·51	28·67	37·33	− 8·16	1·83	Raipur.
0	0	0	1	1	3	14	11	1	S 57° W		5·4			79	+ 1	86	− 4	·851	+·042	7·4	−0·5	18	+2·7	20·73	13·17	+7·56	42·82	38·48	+ 4·34	3·46	Chanda.
0	0	0	0	0	6	14	11	0	S 52° W		4·1			86		90		·809		8·5		22		14·26			31·77			2·16	Jagdalpur.
																															XIII.—Hyderabad.
0	0	0	0	0	0	7	21	3	S 84° W		11·5			92		86	+ 2	·725	+·016	9·0	+0·8	13	+3·5	6·21	5·35	+0·86	30·33	17·87	+12·46	2·00	Aurangabad.
0	1	0	0	0	2	12	11	5	S 76° W		4·7			79		81	− 1	·743	−·005	8·1	+1·2	15	+0·5	9·44	10·82	−1·38	25·63	26·26	− 0·63	1·71	Nizamabad.
0	0	0	0	0	0	2	3	3	S 55° W		7·5			90		84	− 2	·724	+·013	8·3	+2·4	10	−1·7	3·17	7·33	−4·16	24·03	21·12	+ 2·91	0·67	Bidar.
0	0	0	0	0	0	4	21	6	N 87° W	N 75° W	6·7	10·0	−3·3	92	+11	81	0	·713	+·001	7·1	−0·1	5	−4·1	3·52	6·45	−2·93	22·77	18·98	+ 3·79	1·62	Gulbarga.
0	0	0	0	0	3	5	7	12	S 88° W	S 81° W	8·1	9·5	−1·4	72	− 9	80	+ 4	·752	+·047	4·1	−1·8	8	−1·3	3·18	5·74	−2·56	20·53	15·44	+ 5·09	0·95	Raichur.
0	0	0	0	0	0	13	15	2	S 75° W	N 83° W	5·7	6·1	−0·4	89	− 4	84	+ 3	·741	+·024	8·9	+1·5	7	−4·3	3·19	6·80	−3·61	23·42	17·96	+ 5·46	0·91	Hyderabad (Deccan).
1	0	0	0	0	2	5	13	10	N 87° W		4·7			76		76	+ 1	·753	+·003	8·3	+1·2	12	+1·2	5·60	6·94	−1·34	26·66	22·83	+ 3·83	1·56	Hanamkonda.
																															XIV.—Mysore.
0	0	0	0	0	0	14	15	2	S 72° W	S 78° W	7·7	7·8	−0·1	89	+ 1	82	− 1	·646	−·009	8·0	−0·7	5	−2·3	1·84	3·26	−1·42	13·64	12·34	+ 0·30	0·59	Chitaldrug.
6	0	0	0	0	0	7	15	3	S 82° W	N 87° W	7·5	3·2	+4·3	71	−17	88	+ 3	·639	+·010	7·2	−1·5	13	+3·6	6·09	4·21	+1·88	24·61	18·73	+ 5·88	0·91	Hassan.
0	0	0	0	0	0	7	18	6	S 89° W	S 78° W	7·7	6·1	+1·6	89	+21	89	+ 4	·643	+·019	8·9	+0·2	15	+5·3	11·83	5·49	+6·34	31·46	16·87	+14·59	3·66	Bangalore.
2	0	0	1	0	0	9	14	5	S 83° W	S 72° W	6·3	9·1	−2·8	76	−12	85	+ 2	·655	+·014	7·4	−1·1	13	+6·3	5·81	3·53	+2·28	19·70	14·01	+ 5·69	1·73	Mysore.
																															XV.—Madras.
0	6	7	3	0	0	2	11	2	N 28° W	N 72° W	5·5	1·8	+3·7	13	+18	88	− 1	·866	+·023	8·0	−0·5	21	−3·6	15·02	22·79	−7·77	92·15	104·45	−12·30	2·13	Mangalore.
14	1	0	0	0	0	0	7	9	N 61° W	N 22° W	3·6	5·6	−2·0	46	+ 6	91	+ 3	·876	+·035	8·3	+0·5	18	−0·4	13·08	16·05	−2·97	86·94	89·23	− 2·29	3·38	Calicut.
6	2	6	9	1	0	0	4	3	N 46° E	N 13° W	5·7	4·2	+1·5	37	−10	85	− 1	·832	−·009	6·8	−0·5	20	+1·8	15·42	13·09	+2·33	77·53	75·49	+ 2·04	3·90	Cochin.
2	7	0	0	0	0	0	3	19	N 39° W	N 12° W	6·6	6·6	0	82	− 1	83	− 2	·801	−·005	8·4	+0·7	9	−0·3	2·45	4·09	−1·64	28·65	32·89	− 4·24	0·35	Trivandrum.
14	1	0	0	0	10	6	0	0	S 18° W	S 43° W	6·0	7·3	−1·3	46	−19	79	+ 2	·861	−·010	3·6	+0·4	3	+1·7	1·17	0·92	+0·25	10·20	2·16	+ 8·04	0·52	Pamban.
0	3	2	1	1	1	1	10	12	N 57° W	N 41° W	4·0	2·3	+1·7	62	−17	70	+ 3	·755	+·012	7·7	+2·5	4	−1·8	3·97	4·13	−0·16	13·36	10·33	+ 3·03	1·65	Madura.
10	6	1	0	0	1	0	4	9	N 40° W		3·8			52		67	− 4	·719	−·035	4·9	−2·2	7	−2·6	5·86	6·77	−0·91	21·57	14·17	+ 7·40	2·42	Pudukkottai.
2	0	0	0	0	0	1	27	1	W	S 72° W	5·6	4·5	+1·1	92	+ 9	82	+11	·905	+·107	6·0	+0·7	3	−2·4	7·01	3·68	+3·33	14·18	8·81	+ 5·37	3·20	Negapatam.
1	0	1	0	0	0	11	17	1	S 75° W	S 85° W	5·3	5·8	−0·5	86	− 2	72	+ 4	·762	+·025	5·2	−0·8	5	−0·5	3·23	4·28	−1·05	15·70	10·27	+ 5·43	1·28	Trichinopoly.
11	0	0	0	0	4	12	4	0	S 45° W	S 36° W	5·6	4·7	+0·9	56	−23	79	− 5	·738	−·008	4·1	−1·4	4	+0·2	4·27	1·22	+3·05	12·49	6·63	+ 5·86	2·34	Coimbatore.
11	0	0	0	0	0	0	20	0	W	S 37° W	2·9	2·9	0	65	− 7	79	− 1	·765	−·014	6·3	−0·2	8	−3·0	6·21	7·25	−1·04	21·19	19·15	+ 2·04	3·00	Salem.
6	1	0	0	0	1	15	8	0	S 60° W	S 73° W	3·4	1·7	+1·7	69	− 3	78	0	·847	−·016	6·0	+0·5	5	−2·8	5·19	4·84	+0·35	12·32	10·57	+ 1·75	1·41	Cuddalore.
6	0	0	0	0	0	2	13	19	N 75° W		3·7			74		81	+10	·815	+·075	5·0	−0·4	11	+2·7	7·43	7·77	−0·34	24·34	18·49	+ 5·85	2·33	Vellore.
0	0	0	0	1	3	17	10	0	S 54° W	S 66° W	4·6	5·0	−0·4	86	+ 7	75	− 1	·835	−·001	5·4	−1·4	6	−2·2	2·30	4·94	−2·64	10·11	12·01	− 1·90	0·71	Madras.
0	8	0	0	0	0	3	7	12	N 50° W	N 82° W				76	− 7	78	+ 7	·820	+·054	6·1	−1·5	10	+1·5	9·54	6·31	+3·22	21·56	14·85	+ 6·71	2·40	Cuddapah.

Table

(2) Abstract of observations taken at 8 hrs. at 216

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean of 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras— *concld.*																					
	Bellary	1,475	28·235	−·008	29·739	28·407	18th	28·226	2nd	78·2	71·3	90·0	−0·8	74·3	+0·5	82·2	−0·1	15·7	96·1	28th	71·7	9th
	Kurnool	923	28·886	+·015	29·749	28·958	30th	28·772	2nd	78·0	75·8	89·1	−1·0	74·9	+1·0	82·0	0	14·2	94·0	19th & 31st.	72·3	1st
33	Nellore	66	29·715	−·002	29·715	29·808	10th	29·620	1st	82·7	76·3	92·9	−2·8	78·8	0	85·8	−1·4	14·1	97·6	18th & 29th.	75·1	7th & 8th.
	Masulipatam	15	29·741	−·001	29·691	29·849	30th	29·618	2nd	81·8	77·4	89·7	−1·5	78·2	+0·5	83·9	−0·5	11·5	95·5	18th	72·7	25th
	Cocanada	26	29·717	+·017	29·630	29·836	30th	29·581	2nd	81·4	74·9	88·7	−0·8	78·0	−0·4	83·4	−0·6	10·7	93·2	10th	74·7	25th
	Waltair (Vizagapatam)	*296*	29·475	+·008	29·641	29·623	30th	29·318	14th	81·3	78·0	88·9	+0·2	78·2	+0·2	83·6	+0·2	10·7	93·4	14th & 15th.	70·5	22nd
	Calingapatam	19	29·667		29·624	29·820	30th	29·503	14th	83·0	79·1	91·7		79·4		85·5		12·3	97·0	19th	75·1	19th
	Gopalpur	33	29·634	+·010	29·607	29·787	30th	29·464	14th	83·0	79·7	89·0	+1·7	80·4	+1·7	84·7	+1·7	8·6	94·1	13th	77·7	11th & 30th.
	Bay Islands.																					
1	P. V. Fraser	8	29·646		29·598	29·757	30th	29·440	13th	83·2	80·1											
	Port Blair	58	29·780	−·010	29·768	29·913	9th	29·657	12th	81·2	78·1	85·3	+0·1	77·0	−0·2	81·1	−0·1	8·3	88·4	30th	72·3	15th
	Table Island*		29·740	+·010†	29·764	29·791	30th	29·679	15th	80·5	77·9	84·5†	+0·1†	77·4†	+0·3†	81·0†	+0·2†	7·1	87·1	21st	75·6	18th
	Kashmir.																					
13	Muzaffarabad‡		27·283			27·437	16th	27·015	11th	76·9	73·5	88·5		73·2		80·8		15·3	96·8	12th	68·9	20th
	Srinagar	5,204	24·733	+·024	24·704	24·878	17th	24·547	12th	70·8	66·7	83·7	−1·0	66·4	+3·0	75·0	+1·0	17·3	90·9	13th	61·5	23rd
	Gulmarg	*8,589*	21·895	+·010	21·773	21·909	17th	21·665	12th	61·8	58·4	68·7	+0·4	52·1	+1·2	60·4	+0·8	16·6	76·7	12th	47·0	30th
	Dras	*10,059*	20·765	+·038	20·733	20·879	17th	20·655	7th	59·4	52·5	74·4	−5·3	50·6	+2·2	62·5	−1·5	23·8	79·2	11th & 16th.	44·2	12th
	Leh	*11,503*	19·724	+·056	19·692	19·868	17th	19·619	11th	57·1	50·5	72·3	−4·6	49·3	−0·4	60·3	−2·5	23·0	78·7	29th	43·8	15th
	Skardu	*7,505*	22·713	+·011	22·683	22·859	23rd	22·577	7th	70·1	57·1	90·0	+2·9	64·5	+3·4	77·3	+3·1	25·5	99·3	17th	57·3	22nd & 23rd.
	Gilgit	4,890	24·902	+·003	24·875	25·076	23rd	24·738	12th	81·1	71·0	96·6	+1·4	72·6	+0·9	84·6	+1·1	24·0	104·7	2nd	65·2	23rd & 25th.
	Baluchistan.																					
15	Fort Sandeman	4,614	25·236		25·205	25·352	17th	25·063	12th	76·6	69·8	93·8		72·0		82·9		21·8	109·9	11th	66·1	21st
	Quetta	5,502	24·488	+·004	24·448	24·575	16th	24·339	12th	71·5	65·6	91·2	0	65·1	+3·7	78·2	+1·9	26·1	98·3	2nd	54·5	28th
	Chaman	4,311	25·466	−·027	25·428	25·553	18th	25·307	12th	82·1	72·8	99·4	+1·7	75·2	+3·8	87·3	+2·7	24·2	104·9	2nd	66·7	18th
	Kalat	6,630	23·623		23·585	23·692	16th	23·492	12th	66·6	63·2	87·6	−3·7	62·3		74·9		25·3	95·0	2nd	54·2	28th
	Dalbandin	2,772	26·851		26·814	26·950	18th	26·701	12th	81·2	66·3	105·8		75·1		90·5		30·7	112·0	2nd	65·3	9th
	Pasni		29·612		29·572	29·709	31st	29·483	13th	82·4	79·1	90·6		75·9		83·3		14·7	97·5	17th	71·4	24th
	Panjgur		26·512		26·470	26·573	18th	26·373	12th	76·8	72·7	96·0		71·2		85·1		21·8	106·3	2nd	68·2	24th
	Robat		26·626		26·584	26·681	19th	26·495	13th	84·9	61·1	108·5		78·7‡		93·7‡		29·8	112·1	1st	70·4	28th
	Seistan (e)		22·756			27·810	30th & 31st.	27·630	12th	84·1	64·7	103·2		80·4		91·8		22·8	107·5	6th	69·4	27th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Pare Chinar	6,000	24·338	+·023	24·314	24·431	23rd	24·185	12th	71·5	66·3	82·0	−3·6	65·2	+0·4	73·6	−1·6	16·8	88·4	12th	58·7	22nd
	Cherat	*4,956*	25·562	+·032	25·530	25·687	23rd	25·364	12th	71·9	69·3	79·5	−7·1	67·6	−2·3	73·6	−4·7	11·9	87·9	12th	60·6	30th
	Drosh (e)		24·884			25·625	23rd	24·700	11th & 12th.	79·2	68·3	95·4	+0·1	74·8	+2·9	85·1	+1·5	20·6	106·3	12th	65·8	18th
	Murree	6,233	23·769	+·028	23·737	23·880	23rd	23·606	11th	64·2	62·1	71·3	−2·6	61·2	+0·6	66·3	−1·0	10·1	76·3	13th	56·2	20th & 29th.

N.B.—Elevations in italics indicate barometrical determinations.

(e) Aneroid.

* Mean of 17 days.
† " " 16 "
‡ " " 30 "

NOTE.—The barometric readings are not reduced to sea-level, in the case

B—*continued.*

stations in India, etc., in August, 1916—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															XV.—Madras—*concld.*
1	1	1	0	0	0	5	15	8	N 81° W	N 85° W	7·5	8·2	−0·7	76	−10	71	+ 3	·676	+·028	7·7	+0·1	2	−2·4	0·80	2·36	−1·56	13·18	8·15	+5·03	0·38	Bellary
2	1	0	0	0	0	9	15	4	S 84° W	N 89° W	8·8	6·9	+1·9	79	+14	76	− 1	·731	−·003	8·8	+1·6	9	−0·8	4·41	5·56	−1·15	16·07	14·57	+1·50	1·35	Kurnool
2	0	0	0	0	0	6	12	11	N 82° W	N 68° W	4·1	5·6	−1·5	79	+ 4	74	+ 4	·820	+·018	7·7	−0·4	9	+3·1	4·82	3·48	+1·34	11·02	8·18	+2·84	1·12	Nellore.
1	1	0	0	0	1	7	12	9	N 87° W	N 72° W	6·9	5·6	+1·3	76	− 7	81	− 2	·877	−·030	8·5	+0·7	12	+1·4	10·45	6·83	+3·62	36·43	18·68	+17·75	2·75	Masulipatam.
1	0	0	0	0	0	12	15	3	S 76° W	S 74° W	6·5			86	+ 7	86	+ 3	·919	+·040	7·7	+0·5	11	+1·1	4·59	5·55	−0·96	22·78	17·16	+5·62	1·16	Cocanada.
2	1	0	1	0	1	19	7	0	S 56° W	S 84° W	4·5			76	− 5	86	+ 7P	·911	+·061P	6·7	−1·3	8	−0·8	4·01	5·58	−1·57	19·75	16·48	+3·27	1·20	Waltair (Vizagapatam).
11	1	1	0	0	0	8	8	2	S 78° W		4·0			45		84		·944		4·6		10	−1·0	4·92	8·75	−3·83	12·77	20·15	−7·38	1·03	Calingapatam.
3	4	0	1	0	8	10	1	4	S 50° W	S 63° W	6·7	8·0	−1·3	43	−15	86	+ 1	·968	+·043	6·6	+1·6	13	+1·6	4·81	7·53	−2·72	10·23	22·60	−12·37	0·94	Gopalpur.
																															Bay Islands.
1	1	0	1	4	7	15	2	0	S 25° W					68		87		·985		7·2		15		5·81			25·03			0·90	P. V. Fraser.
9	1	0	0	0	4	6	8	3	S 70° W	S 62° W	5·3	7·9	−2·6	49	−30	87	− 1	·917	+·003	7·2	−1·0	23	+3·8	16·73	14·79	+1·94	66·13	66·63	−0·50	2·85	Port Blair.
0	0	0	0	1	3	6	2	0	S 23° W					82		88		·919		7·3		11		5·04	12·87		5·0 §	52·02		1·38	Table Island.
																															Kashmir.
27	1	0	0	0	0	1	0	1	N 45° W		0·9‖			3		85		·784		5·4		18		13·42			30·68¶			1·71	Muzaffarabad.
14	0	1	0	6	2	2	2	4	S 18° W	S 48° E	2·0	2·6	−0·6	13	−19	81	− 4	·608	−·008	5·1	+0·3	11	+5·6	4·25	2·41	+1·84	9·37	9·64	−0·27	0·99	Srinagar.
16	3	6	3	2	0	1	0	0	N 57° E		2·7			30	−49	83		·457	+·036	6·3	+1·4	13	+2·9	5·79	4·91	+0·88	13·76¶	12·96	+0·80	1·10	Gulmarg.
25	0	0	0	0	0	1	3	2	N 82° W		5·3			17	−45	67	+ 5	·325	−·002	4·2	+0·1	2	+0·9	1·32	0·48	+0·84	3·91	5·09	−1·18	0·60	Dras.
22	0	0	0	1	1	1	0	0	S	N 85° W	1·2	1·3	−0·1	8	−52	67	+ 8	·310	+·027	5·6	+1·1	4	+2·3	1·25	0·52	+0·73	2·87	1·37	+1·50	0·46	Leh.
23	0	0	2	0	1	0	0	0	S 63° E		4·6			7		46	− 8	·333	−·047	3·4	−0·7	2	+0·9	0·31	0·41	−0·10	0·93	2·59	−1·66	0·11	Skardu.
30	0	0	1	0	0	0	0	0	E		0·4			3		61	+14	·654	+·191	2·1	−1·8	0	−1·8	0·12	0·45	−0·33	1·22	2·38	−1·16	0·08	Gilgit.
																															Baluchistan.
25	0	3	2	0	0	0	1	0	N 56° E		2·8			10		71		·649		2·1		7		2·23			7·65			0·96	Fort Sandeman.
21	0	1	2	2	4	1	0	0	S 33° E	S 22° W	3·0	2·0	+1·0	20	+14	74	+18	·573	+·094	4·9	+3·8	4	+3·3	1·33	0·45	+0·88	2·08	1·74	+0·34	0·38	Quetta.
5	1	0	4	10	8	3	0	0	S 20° E	S 61° W	4·8	6·1	−1·3	59	+ 8	65	+24	·720	+·374	3·3	+2·8	1	+0·9	0·33	0·02	+0·31	0·74	0·22	+0·52	0·31	Chaman.
31	0	0	0	0	0	0	0	0	Calm	S 16° W	4·9			(a)		83	+42	·544	+·185	4·4		5	+4·6	2·40	0·19	+2·21	3·02	1·37	+1·65	0·89	Kalat.
6	1	2	2	0	3	7	4	6	S 84° W		5·5			33		45		·477		4·8		2		0·50			0·50			0·18	Dalbandin.
5	1	1	2	2	2	4	12	2	S 76° W		6·4			40		86		·952		4·7		3		2·06			2·10			1·66	Pasni.
21	0	0	1	0	0	7	2	0	S 50° W		4·8			27		82		·751		6·0		7		4·38			4·57			1·31	Panjgur.
12	0	0	1	2	0	13	3	0	S 43° W		3·9			49		21		·250		2·1		0		0			0			0	Robat.
1	6	0	0	0	0	0	0	24	N 37° W		13·6			92		32		·369		0·5		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		0·3			(a)		76	+15	·585	+·066	3·0	−1·3	8	+1·2	4·04	2·83	+1·21	12·75	11·37	+1·38	1·72	Para Chinar.
3	9	0	0	3	15	1	0	0	S 9° E	S 31° E	4·7	5·9	−1·2	30	+ 2	83	+12	·686	+·045	7·1	+2·8	12	+5·9	11·94	4·50	+7·44	15·51	11·14	+4·37	1·59	Cherat.
28	0	0	0	0	0	1	2	0	S 75° W		4·6			10	−12	58	0	·570	+·014	3·6	+1·3	1	−1·8	0·25	0·85	−0·60	4·60	4·43	+0·17	0·23	Drosh.
12	7	0	1	10	1	0	0	0	S 83° E	N 46° W	3·9	3·9	0	27	+ 5	90	+ 7	·534	+·004	7·4	+2·2	21	+6·4	22·00	14·12	+17·88	55·73	32·24	+23·49	5·87	Murree.

of hill or plateau stations, the elevations of which exceed 3,200 feet.

§ Rainfall since 15th August.
‖ Mean of 29 days.
¶ Rainfall since 1st June.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 216

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Hill stations, excluding Kashmir and Baluchistan —concld.																					
	Simla	7,262	22·048	+·037	23·008	23·163	18th	22·873	11th	62·1	60·1	66·9*	+0·2*	59·5	+0·3	63·2*	+0·2	7·4	72·0	15th	57·0	19th
	Sarain		23·083	+·018	23·046	23·207	16th	22·859	11th	68·3	60·2	71·4	+1·0	57·5	−0·5	64·4	+0·3	13·9	77·0	15th	54·2	29th
	Kalabagh		20·118		20·069	20·215	23rd	19·890	12th	58·1	51·0	56·6	+0·7	50·2	+2·4	53·4	+1·5	6·4	59·5	11th	47·0	14th
	Chakrata	7,072	22·330	?	22·396	22·485	16th	22·143	11th	62·5	51·3	69·9	+1·1	59·9	+0·1	64·8	+0·7	10·2	75·1	15th	56·7	13th
	Mukteswar	7,592	22·724	+·023	22·743	22·870	16th & 23rd.	22·596	11th	60·5	59·1	66·3	−0·5	57·1	−0·6	62·7	−0·5	11·2	74·5	15th	54·3	20th
	Darjiling	7,432	22·911	−·036	22·866	23·027	16th	22·734	11th	61·6	59·9	68·7	+2·8	58·1	+0·7	63·4	+1·7	10·6	73·1	21st & 22nd.	56·2	15th
	Shillong	4,890	25·044	+·006	24·998	25·141	23rd	24·847	12th	68·6	65·3	75·0	0	63·4	−0·1	69·2	−0·1	11·6	82·8	16th	60·9	6th
	Cherrapunji	4,309	25·568	+·008	25·539	25·680	23rd	25·385	12th	66·0	66·5	72·9	+0·9	64·3	−0·1	68·9	+0·1	8·0	83·0	16th	62·1	28th
	Natarhat		26·082			26·142	31st	24·913	12th	70·6	69·4	78·2		66·5		72·3		11·7	82·7	6th	64·5	12th & 29th.
	Maymyo	3,546	26·346	+·016	26·291	26·421	23rd	26·168	12th	69·4	68·0	76·7	+0·2	66·6	+1·1	71·6	+0·7	10·1	80·6	16th	64·0	29th
	Pachmarhi	3,528	26·242	−·031	26·189	26·378	30th	26·095	15th	69·1	66·3	75·2	+0·3	67·6	+0·6	71·4	+0·5	7·6	80·0	4th	65·1	22nd
	Mount Abu	3,945	25·840	−·026	25·790	25·907	27th	25·774	15th	67·3	67·3	71·5	−0·5	65·9	+1·5	68·7	+0·5	5·6	79·4	3rd & 4th	63·2	26th
	Mercara	3,781	26·167	−·015	26·100	26·231	9th	26·121	7th	64·6	63·9	70·4	+0·7	61·5	+0·6	65·9	+0·1	8·9	78·0	31st	58·2	22nd
	Ootacamund	7,327	23·013	+·008	22·949	23·066	9th	22·950	2nd	56·8	51·9	63·3	+0·6	52·0	−0·1	57·7	+0·3	11·3	69·9	25th	49·3	18th
	Kodaikanal	7,688	22·787	−·001	22·722	22·852	9th	22·724	2nd	57·0	53·4	64·0	+0·9	52·2	+0·3	58·1	+0·3	11·8	68·2	26th	50·8	5th & 15th.
	Extra India.																					
	Singapore (a)	20	29·855	−·075	29·766	29·917	4th	29·690	7th	81·6		87·5	+0·1	74·2	+0·6	80·9	+0·3	13·3	90·5	7th	72·0	8th, 10th & 24th.
	Penang (a)	17	29·828	−·087	29·770	29·898	20th	29·731	5th	81·2		88·8	+0·1	72·8	+0·9	80·8	−0·5	16·0	92·0	6th & 8th	70·0	8 days.
	Trincomalee	80	29·741	−·009	29·769	29·914	9th	29·586	2nd & 6th, 8th.	78·0	76·1	86·1	+1·4	76·2†	+0·8*	84·6*	+0·3	16·9	90·6	26th	72·1	21st
	Colombo	64	29·874	−·022	29·824	29·926	10th	29·819	6th	78·3	76·7	84·9	+1·1	76·38	+1·1	80·6	+1·1	8·6	86·1	18th & 20th.	71·3	2nd
	Hambantota	64	29·820		29·810	29·877	9th	29·767	6th	77·3	75·1	86·5		76·6		81·5		9·9	91·8	15th	72·4	26th
	Minicoy	7																				
	Amini Divi	13	29·869	−·025	29·810	29·921	9th	29·813	7th	81·5	77·4	87·0	+1·6	78·4	+1·1	82·7	+1·3	8·6	89·0	27th	75·3	7th, 14th & 30th.
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,667	24·384	+·018	24·289	24·501	16th	24·228	12th	68·5	65·2	74·3	−0·3	62·2	+0·6	68·2	+3·1	12·1	80·9	16th	58·2	8th
	Gartok (c)	15,100	15·036†			15·060	16 days	14·980	6th	44·8		57·9		44·0†		55·9†		23·9	70·9	19th	38·8	9th
	Kashgar (c)	4,255	25·325	−·165		25·150	28th & 27th.	25·210	12th & 20th.	77·9	62·8	98·3	+3·5	66·7	+1·1	82·5	+4·8	31·6	107·8	18th	59·8	26th
	Kabul (c)		24·004	−·131†		24·140	16th	23·810	1th	64·9	60·3	98·0	+4·5	64·0*	+4·5	81·1*	+4·5	34·0	105·4	11th	58·0	24th
	Meshed	3,104								73·6	61·8	96·5	+9·1	60·6	+1·0	78·6	+4·5	35·9	107·4	16th	52·5	25th
	Jask	13	29·574	−·019	29·540	29·673	31st	29·419	13th	86·2	81·1	93·8	−0·5	81·0	+0·1	88·9	−0·3	9·8	108·4	13th	75·1	20th
	Muscat	20	29·578	−·004	29·546	29·673	31st	29·459	13th	85·6	79·9	91·2	+2·1	83·4	−0·6	87·2	+0·7	7·8	99·8	12th	75·3	19th
	Bushire	14	29·510	−·034	29·485	29·606	19th	29·364	3rd	91·3	85·7	95·8	−1·1	86·2	+2·3	91·0	+0·6	9·6	98·7	1st, 3rd & 26th.	79·8	31st
	Busrah	25	29·512	−·057	29·506	29·630	23rd	29·352	4th	88·7	75·4	102·6	−1·6	75·6	−5·4	89·1	−3·5	27·0	106·5	10th	79·2	22nd
	Ispahan (c)	5,817	24·177	−·113		24·310	24th	24·040	21st	74·4	63·8	98·1	+2·2	67·3	+4·1	82·7	+3·1	30·8	102·4	10th	59·2	27th
	Tehran (c)	4,002																				
	Baghdad	127																				
	Aden	94	29·633	−·017	29·660	29·717	1st	29·582	9th	83·4	76·0	89·3	−2·7	78·0	+2·4	83·6	−2·5	11·3	98·0	28th	74·9	31st
	Zanzibar	72	30·085	+·001	30·084	30·169	5th	30·007	22nd & 24th.	74·1	70·8	89·5	−0·6	72·3	−0·4	76·4	−0·5	8·2	82·9	13th	70·6	30th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(c) Aneroid.

* Mean of 30 days.
† „ „ 23 „

B—*concluded.*

stations in India, etc., in August, 1916—*concluded.*

Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind stradiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Hill stations, excluding Kashmir and Baluchistan—*concld.*
																90	— 1	·499	—·001	8·2	0	18	—1·8	8·99	18·16	- 9·17	41·80	44·70	— 2·90	1·06	Simla.
																85	+ 2	·491	+·002	8·0	+0·4	19	+0·1	6·81	12·06	—5·25	37·66	30·85	+ 6·81	0·98	Sarain.
14	8	2	0	0	6	0	0	1	N 14° E		5·2			13		88	— 5	·355	+·002	8·5	—0·6	22	—1·8	9·55	19·02	—9·47	49·35	42·40	+ 6·95	1·33	Kalabagh.
8	0	6	4	1	1	4	5	2	N 16° W	S 39° E	6·0	3·9	+2·1	4	— 4	96	+ 3	·544	+·014	9·1	+2·8	17	—3·3	13·09	19·98	—6·89	46·39	50·45	— 4·06	3·31	Chakrata.
10	1	3	6	6	2	0	3	0	S 72° E		5·0			20		92	— 2	·487	—·021	8·5	—0·2	16	—1·9	8·99	12·67	—3·68	45·69	34·14	+11·55	1·61	Mukteswar.
26	1	1	2	0	0	0	1	0	N 45° E	N 88° E	6·4	2·7	—2·3	10	—30	91	— 5	·499	—·022	9·7	+0·7	22	—2·4	18·62	26·60	—7·98	37·57	90·48	— 2·91	2·48	Darjiling.
17	1	1	3	6	1	1	1	0	S 56° E		1·9			27		85	— 2	·586	—·007	8·8	+1·2	24	+3·7	22·34	16·35	+5·99	50·34	57·99	— 7·65	4·65	Shillong.
2	0	8	8	3	3	4	2	1	S 81° E		5·3			33		93	— 3	·629	—·010	9·1	+0·4	23	—4·7	79·38	84·81	—5·43	331·12	312·62	+18·50	12·84	Cherrapunji.
1	0	0	4	8	3	5	7	3	S 12° W		7·5§			32		94		·707		8·8		23		18·03			18·03†			2·96	Natarhat.
17	0	0	0	0	1	11	2	0	S 48° W		1·3			46		92	+ 2	·664	—·004	9·4	+1·8	15	0	11·36	8·29	+3·07	34·64	32·18	+ 2·46	2·35	Maymyo.
4	0	0	2	0	2	2	17	4	S 88° W	S 87° W	5·3	6·8	—1·5	62	—14	97	+ 5	·686	+·031	9·9	+0·9	29	+7·5	36·20	21·78	+14·42	72·64	55·64	+17·00	6·10	Pachmarhi.
0	0	5	0	3	0	18	4	1	S 48° W	S 59° W	7·1	8·2	—1·1	53	—25	97	+ 2	·662	+·047	9·5	+0·6	29	+11·1	61·27	21·06	+40·21	75·42	49·99	+25·43	10·37	Mount Abu.
1	0	1	0	0	0	13	14	2	S 74° W	N 76° W	5·4	6·1	—0·7	82	— 8	95	— 1	·580	—·004	9·0	—0·4	25	—1·3	29·91	26·39	+3·52	92·68	100·20	— 7·22	5·78	Mercara.
10	0	0	1	2	0	4	7	7	N 87° W		4·6			40		89	+ 2	·409	+·013	9·2	+1·1	15	+1·5	6·66	6·67	—0·01	29·65	29·63	+ 0·02	1·29	Ootacamund.
9	2	1	1	3	1	1	16	6	N 80° W		9·3			56		83	+ 3	·386	+·006	6·5	+0·2	14	+1·3	8·53	7·49	+1·04	29·73	22·22	+ 7·54	1·81	Kodaikanal.
																															Extra India.
16	0	0	0	6	3	2	0	4	S					19						7·5	+1·7	13	+0·5	10·25	7·47	+2·78	39·60	27·14	+12·46	2·33	Singapore.
0	0	6	3	11	1	3	1	6	S 72° E					27						7·5*	+5·9	8	—5·8	2·65	11·33	—8·68	32·00	33·95	— 1·95	1·10	Penang.
0	0	0	0	0	0	14	17	0	S 70° W	S 45° W	7·4	10·2	—2·8	96	— 1	82	+ 1	·784	—·069	6·6	+5·8	4	—1·2	2·22	4·45	—2·23	12·70	10·11	+ 2·59	1·14	Trincomalee.
2	0	2	1	2	0	14	5	2	S 61° W	S 61° W	4·3	6·7	—2·4	56	—32	88	+ 6	·852	—·015	9·6	+3·2	11	+4·7	4·83	3·61	+1·22	59·42	26·98	+32·44	1·10	Colombo.
1	0	1	0	0	0	11	16	2	S 77° W		11·8	12·0	—0·2	82		90		·839		4·5		4		2·66	1·22	+1·44	15·80	8·21	+ 7·59	1·30	Hambantota.
										N 79° W		10·9													7·46			31·68			Minicoy.
0	1	0	0	0	0	5	13	12	N 76° W		13·4			81		82	— 1	·878	—0·11	7·3	+0·3	10	—0·9	2·55	6·86	—4·31	35·62‡	35·50	+ 0·12	0·42	Amini Divi.
																															Gyantse.
																															Pharijong.
28	1	1	0	0	0	0	1	0	N 10° W		0·6			6		94	+ 2	·608	+·010	3·2	—2·7	28	+0·8	25·72	22·69	+3·03	93·06	87·66	+ 5·40	3·63	Gangtok.
23	0	2	0	4	0	0	0	2	E		7·8			13						3·5		9		2·36			4·19‖			0·50	Gartok.
26	0	0	1	0	3	0	0	1	S 8° E	N 48° W	1·0	3·1	—2·1	6	— 1	49	— 4	·468	+·017	2·8	—0·5	0	—1·9	0	0·64	—0·64	0·10	1·93	— 1·83	0	Kashgar.
0	0	2	5	6	2	9	5	2	S 11° W	S 88° E				32	+18	78	+31	·481	+·075	2·3	+1·9	0	—0·5	0	0·15	—0·15	1·81	1·47	+ 0·34	0	Kabul.
31	0	0	0	0	0	0	0	0	Calm.		1·1			(a)		49	+ 2	·410	—·025	0·1	—0·3	0	—0·1	0	0·03	—0·03	1·45	1·82	— 0·37	0	Meshed.
0	0	0	22	5	1	0	1	2	S 83° E	S 74° E	10·6	10·5	+0·1	76	0	79	+ 2	·996	—·034	4·3	+1·6	1	+1·0	0·29	0	+0·29	0·29	0·06	+ 0·23	0·20	Jask.
3	0	1	7	15	0	1	0	4	S 62° E	S 76° E	3·5	3·2	+0·3	56	— 4	77	— 4	·942	—·066	4·9	+2·1	2	+2·0	0·58	0	+0·58	0·58	0·17	+ 0·41	0·41	Muscat.
13	0	2	2	3	4	0	1	6	S 31° E	N 59° E	5·4	5·3	+0·1	2	—20	82	+14	1·213	+·226	1·2	+0·4	0	0	0	0·01	—0·01	0	0·03	— 0·03	0	Bushire.
1	0	0	0	0	0	0	28	2	N 88° W		0·8§			94		52		·709		0		0	0	0	0	0	0·01	0·46	— 0·45	0	Busrah.
31	0	0	0	0	0	0	0	0	Calm	N 34° W	1·0	2·4	—1·4	(a)		56	+ 5	·475	+·002	1·1	+0·4	0	0	0	0·01	—0·01	0·24	0·30	— 0·06	0	Ispahan.
										S 14° W		1·6													0·05			0·80			Tehran.
										N 4° W		2·8													0·05			0·28			Baghdad.
6	2	3	1	7	7	5	0	0	S 21° E	S 12° W	7·6	7·8	—0·2	40	—14	81	+ 8	·835	—·042	4·6	+0·9	1	+0·7	0·62	0·13	+0·50	0·89	0·36	+ 0·53	0·63	Aden.
1	0	0	0	5	12	13	0	0	S 14° W	S 1° W	5·2	5·0	+0·2	84	—2	84	— 1	·705	—·026	7·8	+1·5	5	+0·8	2·11	1·72	+0·39	8·22	17·71	— 9·49	0·98	Zanzibar.

* Mean of 29 days.
† Since 1st August 1916.
‡ Exclusive of May 1916.
§ Mean of 30 days.
‖ Rainfall since 28th June.
(a) Indeterminate.

Table C.—Abstract of observations taken at 8 hrs. at 57 fourth and fifth class stations in India, etc., in August, 1916.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry-bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
	Bishnath	81·9	81·0	91·0	+1·6	78·3	+4·2	84·7	+2·9	12·7	98·1	17th	72·9	1st	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	82·3	79·4	92·9	+2·7	76·0	+0·6	84·5	+1·7	16·9	99·6	14th	72·4	24th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	80·7	78·5	92·6	+3·0	64·6	−10·8	78·6	−3·9	28·0	99·9	14th	58·0	10th	...	...	...	...	...	...	...	...	...	...	...
	Doom-Dooma	79·3	76·7	92·5	+3·0	75·8	+0·7	84·2	+1·9	16·7	98·9	21st	73·6	10th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	80·0	77·4	89·1	+0·5	76·1	+0·2	82·6	+0·3	13·0	97·4	16th	73·2	30th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	80·5	78·5	89·1	+1·1	74·9	...	82·0	...	14·2	96·1	17th	70·0	17th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	80·5	77·8	89·1	0	75·4	−0·5	82·3	−0·3	13·7	97·0	14th	72·4	11th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	81·2	78·4	89·7	+0·5	76·6	+0·3	83·1	+0·4	13·1	96·9	14th	71·6	17th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	[illegible]	77·5	90·0	...	75·9	...	82·9	...	14·1	98·9	14th	73·4	11th	...	...	...	...	...	...	...	...	...	...	...
	Messai	[illegible]	[illegible]	[illegible]	+1·5	[illegible]	−2·4	83·8	−0·5	21·4	101·0	[illegible]	67·1	15th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	[illegible]	74·[illegible]	90·2	+1·[illegible]	74·5	−0·2	82·3	+0·[illegible]	15·7	96·2	14th	71·8	15th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·6	78·0	88·6	+0·5	77·6	+0·3	83·1	+0·4	11·0	92·0	20th	74·9	9 & 11th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	82·6	78·9	88·4	+0·7	76·2	−1·6	82·3	−0·5	12·2	93·1	6th	73·1	4 days	...	...	...	...	...	...	...	...	...	...	...
	Pabna	81·8	79·0	87·9	−4·1	76·9	+1·0	82·4	−1·5	11·0	91·0	16, 18 & 20	73·9	20 & 26	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur-Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam-Dim	78·5	77·0	92·1	+1·0	73·8	−0·8	82·9	+0·1	18·3	98·2	16th	71·3	24th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	81·2	77·7	90·0	+1·3	74·2	−0·5	82·1	+0·4	15·8	97·1	14th	72·0	10th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	81·2	77·9	90·0	+1·6	74·4	−0·2	82·2	+0·7	15·6	96·1	15th	72·0	24th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C.

and fifth class stations in India, etc., in August, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	96	+ 2	1·051	+·112	...	...	12	−6·2	10·35	19·65	− 9·30	58·59	58·43	+0·16	2·82	Bishnath.
...	...	...	...	...	88	− 3	·972	+·032	...	...	13	−4·5	16·77	13·71	+ 3·06	56·35	54·67	+1·68	3·37	Borjuli.
...	...	...	...	...	90	− 1	·945	+·009	...	...	20	0	14·24	13·85	+ 0·39	50·08	68·74	−18·66	3·50	Chandkhira.
...	...	...	...	...	89	− 5	·883	−·038	...	...	16	−1·3	14·49	15·45	− 0·96	56·27	61·50	−5·23	2·65	Doom Dooma
...	...	...	...	...	89	− 4	·968	−·006	...	...	16	−3·8	21·40	8·81	+ 3·12	76·92	65·38	+11·54	3·58	Dikom.
...	...	...	...	...	91	0	·945	+·006	...	...	20	+3·3	19·45	18·28	+ 6·89	48·27	43·48	+4·79	3·35	Golaghat.
...	...	...	...	...	88	− 3	·912	+·005	...	...	21	−2·5	17·80	18·89	−1·09	53·79	74·92	−21·13	4·80	Hailakandi.
...	...	...	...	...	88	− 2	·933	+·001	...	...	17	−1·8	14·78	16·83	− 2·05	42·82	50·00	−7·18	3·05	Jorehat.
...	...	...	...	...	88	...	·903	...	...	...	14	+3·3	7·16	7·16	0	22·32	28·07	−5·75	1·78	Lumding.
...	...	...	...	...	78	− 9	·827	−·125	...	...	18	−2·2	14·57	18·51	− 3·94	52·79	60·99	−8·20	1·97	Messa.
...	...	...	...	...	94	− 1	·846	−·014	...	...	14	+0·5	14·07	11·17	+ 2·90	52·30	50·32	+1·98	3·59	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	17	−0·7	12·40	15·96	− 3·56	37·15	59·55	−22·40	2·10	Comilla.
...	...	...	...	...	85	− 2	·911	−·025	...	...	17	−2·0	8·59	14·10	− 5·51	33·90	51·95	−18·05	1·58	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	18	+0·9	20·27	11·78	+ 8·49	46·53	46·26	+0·27	4·68	Faridpur.
...	...	...	...	...	85	− 1	·940	−·018	...	...	23	+6·8	18·78	10·58	+ 8·20	44·40	41·85	+2·55	2·50	Goalundo.
...	...	...	...	...	88	+ 1	·956	−·017	...	...	18	+3·5	18·20	8·69	+ 9·51	42·83	39·99	+2·84	2·61	Pabna.
...	...	...	...	...	...	...	...	...	...	...	21	+6·0	18·40	11·14	+ 7·26	36·41	43·15	−6·74	2·45	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	16	+1·9	11·95	9·74	+ 2·21	53·25	36·25	+17·00	1·76	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	17	+2·5	8·25	10·74	− 2·49	31·98	35·04	−3·08	1·67	Malda.
...	...	...	...	...	...	...	...	...	...	...	11	−3·1	13·19	13·32	− 0·13	66·38	56·24	+10·09	4·30	Rangpur.
...	...	...	...	...	83	− 2	·904	−·044	...	...	21	−1·5	30·10	35·03	− 4·93	116·06	119·14	−3·08	4·82	Dam Dim.
...	...	...	...	...	84	− 3	·912	−·026	...	...	20	−9·8	20·99	37·92	−16·93	141·15	117·59	+23·56	5·15	Kalchini.
...	...	...	...	...	86	− 3	·914	+·011	...	...	21	−1·8	21·85	34·96	−13·11	108·95	120·93	−11·98	3·18	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	17	−1·5	17·56	25·73	− 8·17	134·23	105·15	+29·08	3·02	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	18	+3·5	19·43	10·09	+ 2·34	36·50	37·94	−1·44	1·85	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	18	+2·4	13·15	10·57	+ 2·58	37·39	38·19	−0·80	2·63	Bankura.
...	...	...	...	...	...	...	...	...	...	...	20	+4·0	9·91	11·78	− 1·87	31·39	37·34	−5·95	1·60	Raniganj (Bankura).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	21	+3·1	10·03	12·74	−2·71	30·99	36·52	−5·53	2·33	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	14	+1·4	10·47	10·90	−0·43	29·81	34·62	−4·81	2·72	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	12	−1·3	16·36	19·51	−3·15	39·65	36·57	+3·08	4·19	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	13	−0·9	9·81	13·63	−3·82	37·68	41·31	−3·63	2·20	Motihari.
...	...	...	...	...	...	...	...	...	...	...	15	+2·1	28·48	10·93	+17·55	62·64	30·32	+32·32	5·12	Chapra.
...	...	...	...	...	...	...	...	...	...	...	16	+2·1	12·38	11·25	+1·13	35·84	32·01	+3·83	1·82	Arrah.
...	...	...	...	...	...	...	...	...	...	...	18	+3·6	12·02	12·84	−0·82	29·18	30·40	−1·22	3·10	Dehri.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry-bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Wind direction. Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	75·9	71·6	82·4	...	71·6	...	77·0	...	10·8	87·4	24th	66·1	22nd	13	0	0	0	0	0	5	10	3	S 86° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	77·9	73·3	89·4	...	73·7	...	81·6	...	15·7	94·4	19th	71·2	9th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	82·0	76·8	91·0	...	77·9	...	84·5	...	13·1	98·2	18th	72·9	8th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	81·2	77·0	89·9	...	76·5	...	83·2	...	13·4	95·8	16th	70·8	25th	0	8	12	4	2	2	0	1	2	N 36° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	70·6	57·5	87·4	...	53·7	...	70·6	...	33·7	95·1	29th	47·4	8th	0	17	2	2	2	1	1	1	5	N 1° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	78·7	75·7	87·8	+0·6	73·4	−0·4	80·6	+0·1	14·4	94·5	16th	71·2	15th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	70·1	69·8	74·5	+1·5	64·3	−0·4	69·4	+0·5	10·2	82·3	14th	62·6	8th & 25th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...		93·5	−2·9	64·5	+4·9	79·1	+1·0	28·9	100·4	2nd	55·1	28th	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in August, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	15	+ 4·8	14·15	9·29	+ 4·86	29·90	22·40	+ 7·50	4·45	Meerut.
...	...	...	...	...	...	...	...	...	...	...	21	− 1·0	29·83	30·55	− 0·72	75·15	67·45	+ 7·70	5·18	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	14	+ 4·8	11·68	6·95	+ 4·73	24·62	18·30	+ 6·32	3·25	Udaipur.
																				XII.—Central Provinces.
4·0	...	...	52	...	84	...	·731	...	7·4	...	16	...	9·63	...	...	35·36	...	...	2·05	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	10	0	6·30	6·79	− 0·49	28·12	19·96	+ 8·16	1·55	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	3	+ 1·9	0·98	0·63	+ 0·35	7·75	3·07	+ 4·68	0·46	Tinnevelly.
...	...	...	...	...	80	...	·763	...	6·3	...	3	+ 3·1	3·24	2·80	+ 0·44	18·22	8·55	+ 9·67	0·77	Anantapur.
...	...	...	...	...	79	...	·854	...	4·9	...	9	− 0·2	7·17	5·66	+ 1·51	23·51	16·71	+ 6·80	1·42	Guntur.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	10	− 5·5	18·07	10·69	+ 7·38	61·66	44·88	+16·78	4·00	Car Nicobar.
																				Kashmir.
...	...	...	61	...	83	...	·883	...	6·0	...	17	+ 5·9	23·26	12·21	+11·05	47·26	26·80	+20·46	3·40	Jammu.
...	...	...	...	...	...	...	...	...	...	...	9	− 0·2	3·34	3·38	− 0·04	13·21	16·37	− 3·16	1·15	Sonamarg.
...	...	...	62	...	46	...	·339	...	4·2	...	4	+ 3·3	0·90	0·17	+ 0·73	1·60	2·50	− 0·70	0·34	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	11	+ 7·2	7·86	2·40	+ 5·46	10·20	6·08	+ 4·12	1·58	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	87	− 1	·848	−·020	...	...	22	+ 0·3	26·63	32·39	− 5·76	102·12	103·17	−1·05	4·80	Panighatta.
...	...	...	...	...	99	+ 6	·724	+·095	...	...	24	− 1·3	30·60	33·96	− 3·36	133·48	115·81	+17·67	4·31	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	27	...	26·03	...	...	98·18	...	...	2·70	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	21	...	9·07	...	...	39·10	...	...	1·18	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bingim.
...	...	...	...	...	...	...	...	...	...	...	27	+ 4·6	28·34	31·35	− 3·01	101·51	72·85	+28·66	3·21	Mussoorie.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·74	...	...	2·78	...	...	Poo.
...	...	...	...	...	...	...	...	...	...	...	6	+ 2·1	2·27	1·47	+ 0·80	3·72*	6·58	− 2·86	1·08	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	1·9	...	3	+ 2·8	1·02	0·13	+ 0·89	1·20	0·43	+ 0·77	0·50	Pishin.

* Rainfall for May 1916 wanting.

Table

Abstract of observations taken at 8 hrs. at 57 fourth and

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry-bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Kermen*	...	...	100·4	...	51·8	...	76·1	...	48·6	104·4	19th	39·0	28th	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	54·7	52·8	65·0†	...	49·6	...	57·1†	...	15·0	69·0	29th	42·0	3rd	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Prison Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 17 days.
† " " 19 "

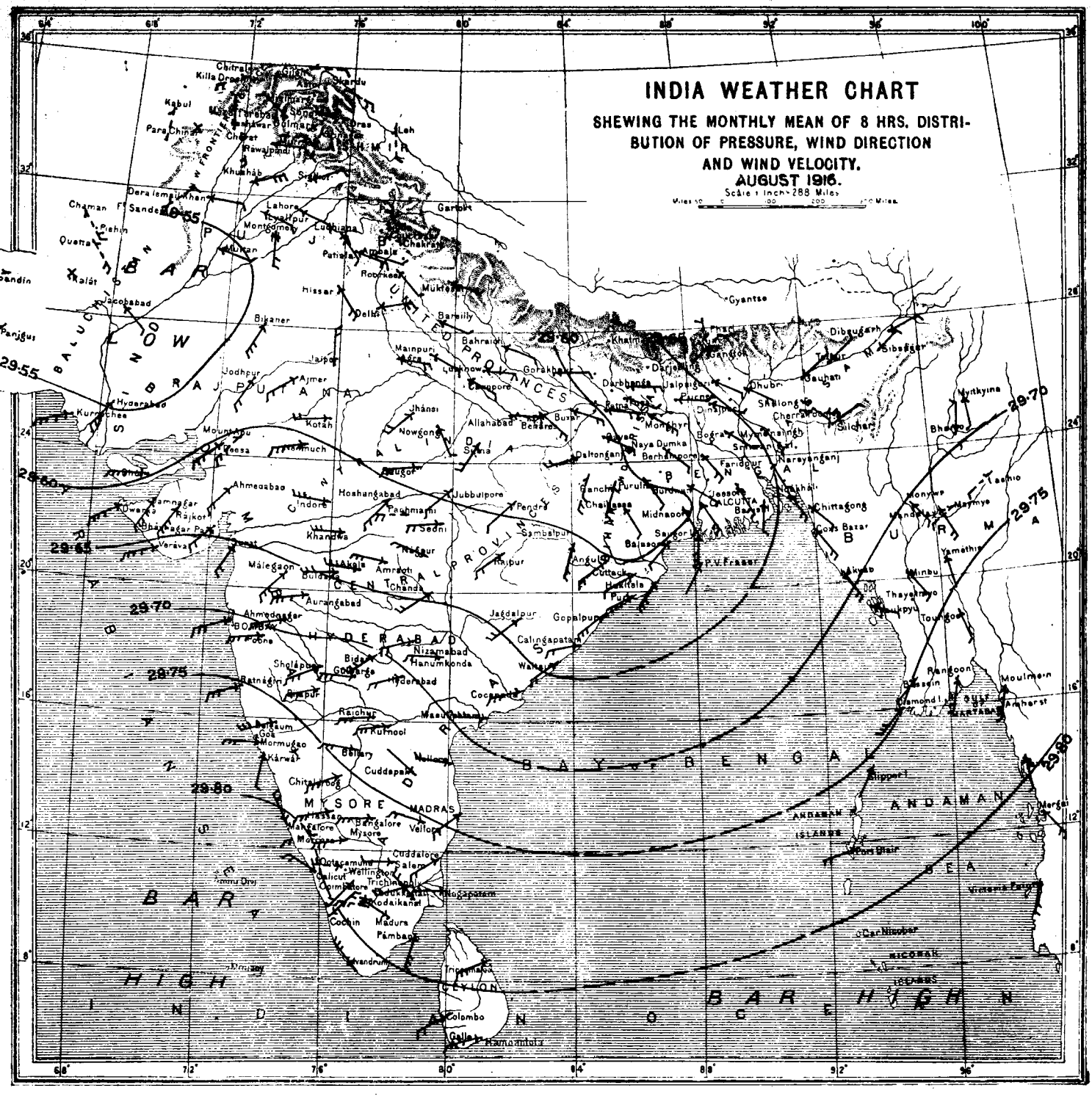
C—*concluded.*

fifth class stations in India, etc., in August, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	0·2	...	0	...	0	...	...	0‡	...	...	0	Kerman.
...	...	...	...	...	90	...	·385	...	4·9	...	11	...	3·73	...	...	15·80	...	...	0·89	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	3	−1·8	0·72	1·73	−1·01	17·25§	28·95	11·70	0·17	Pemba.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·07	...	...	20·05	...	...	Prison Island.

‡ Rainfall since 15th August, 1916.
§ " " July wanting.

CALCUTTA
SUPERINTENDENT, GOVERNMENT PRINTING, INDIA
8, HASTINGS STREET

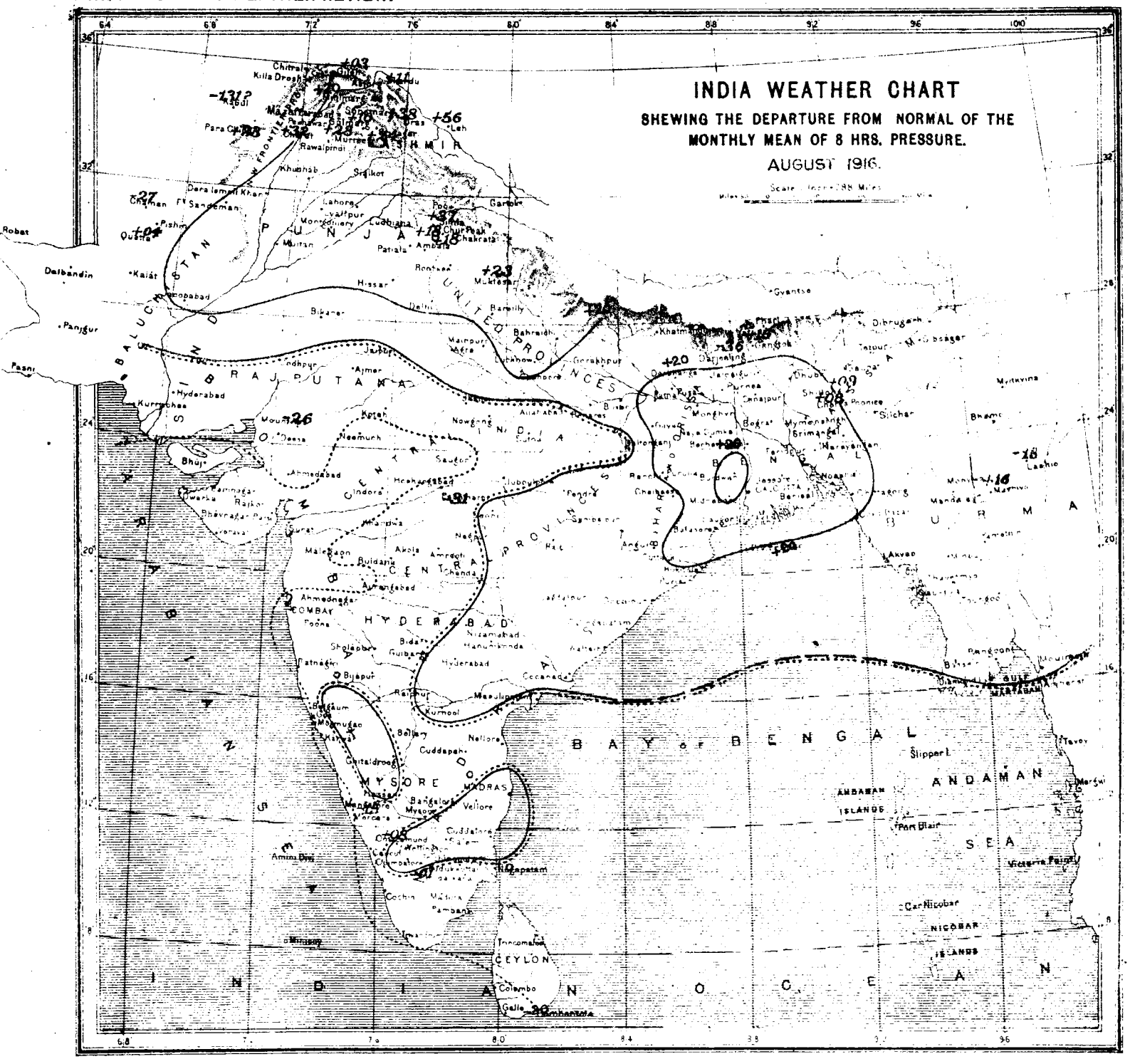


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one	feather	added	to	the	wind	arrow.
,, ,,	2 to 5	,, ,, ,,	...	two	feathers	,,	,,	,,	,,	
,, ,,	5 to 10	,, ,, ,,	...	three	,,	,,	,,	,,	,,	
,, ,,	10 to 20	,, ,, ,,	...	four	,,	,,	,,	,,	,,	
	over 20	,, ,, ,,	..	five	,,	,,	,,	,,	,,	

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020 or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

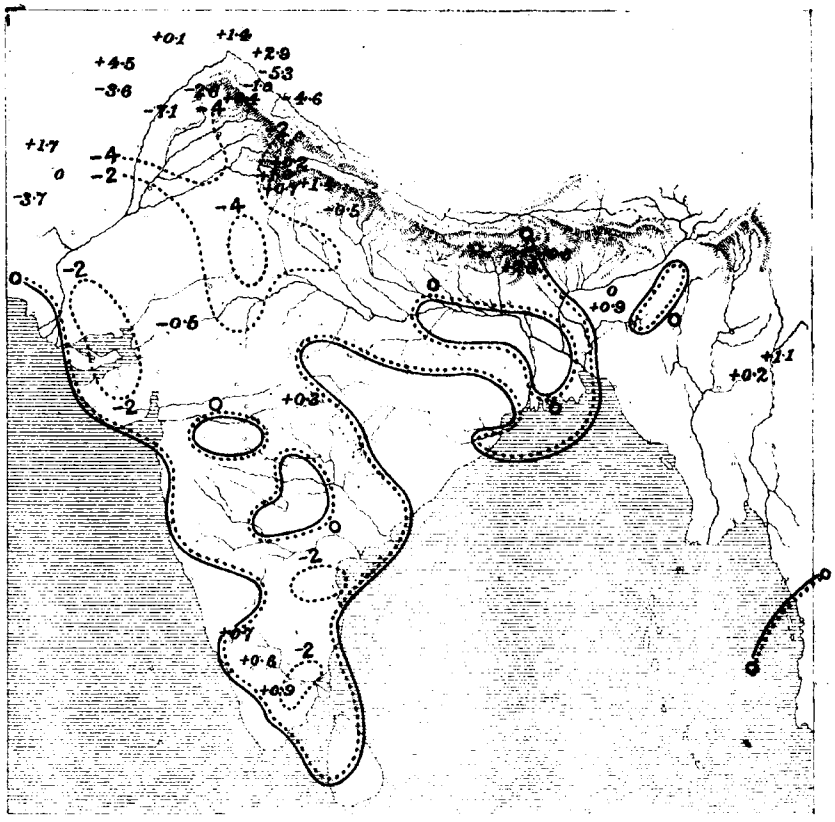


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

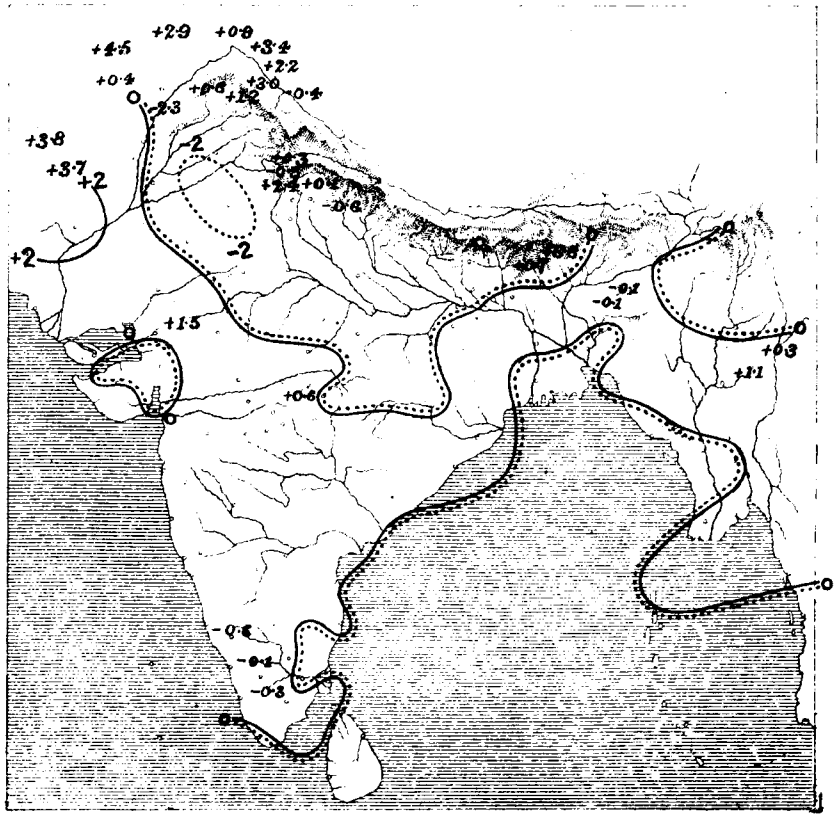


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE.

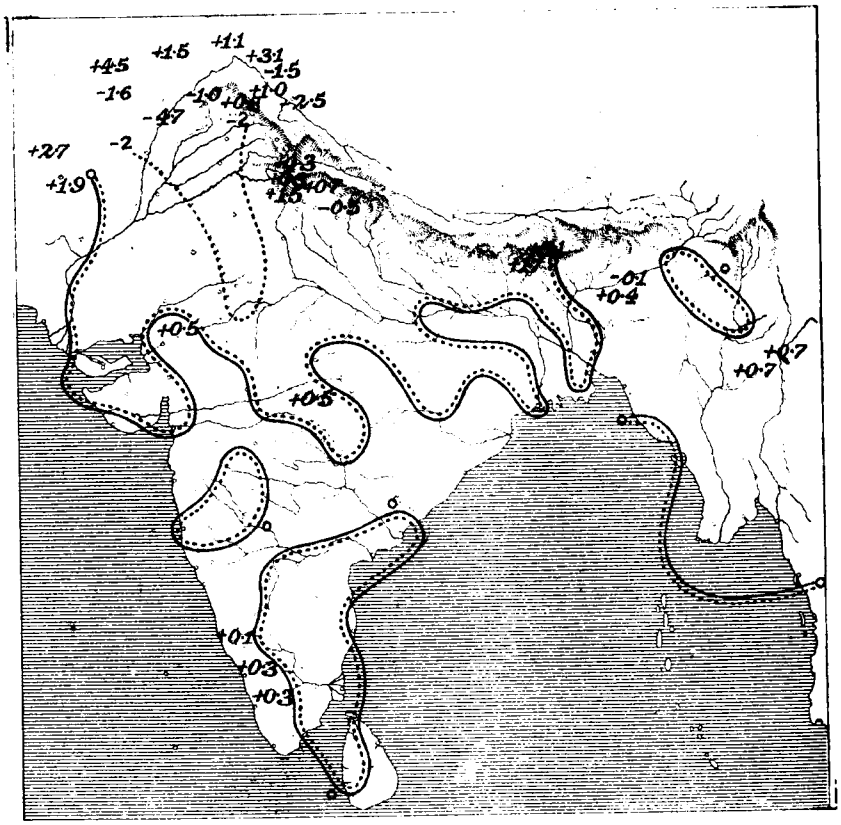


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

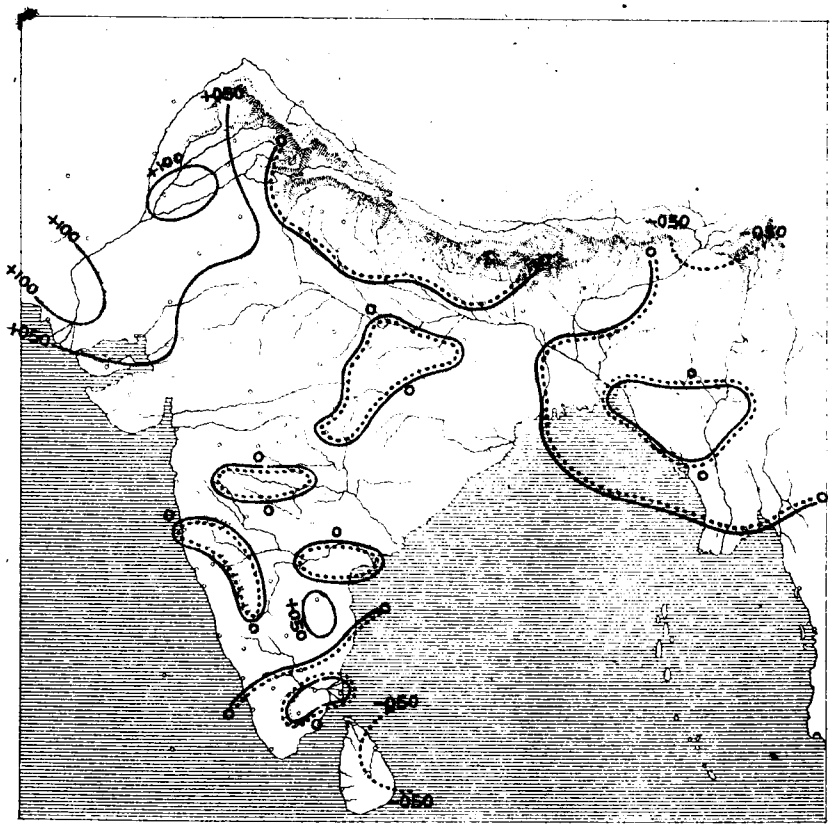


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

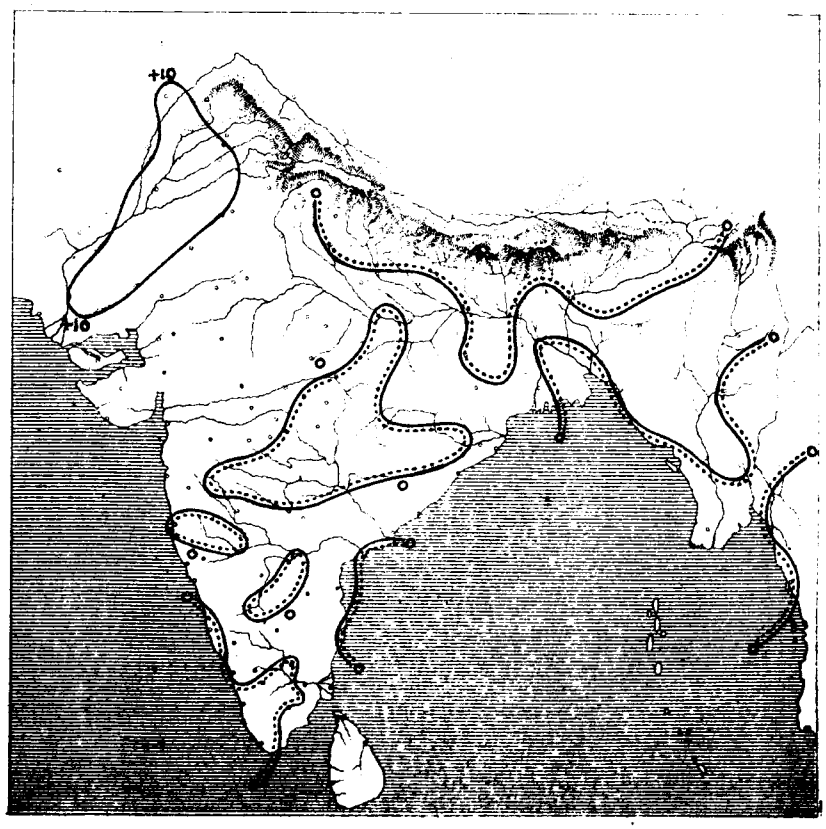


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

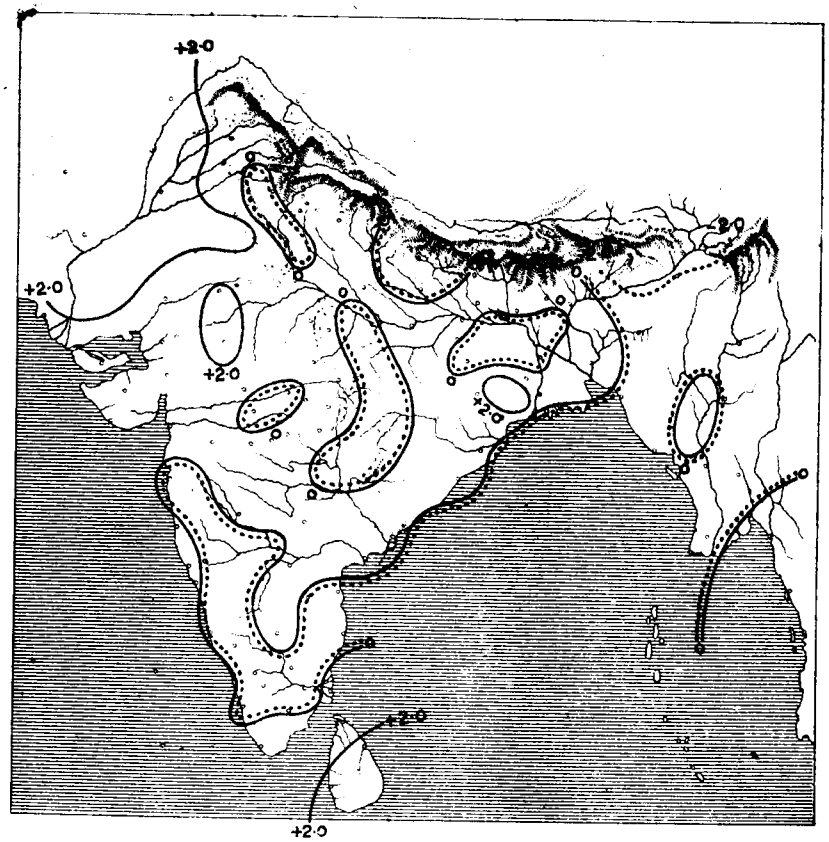
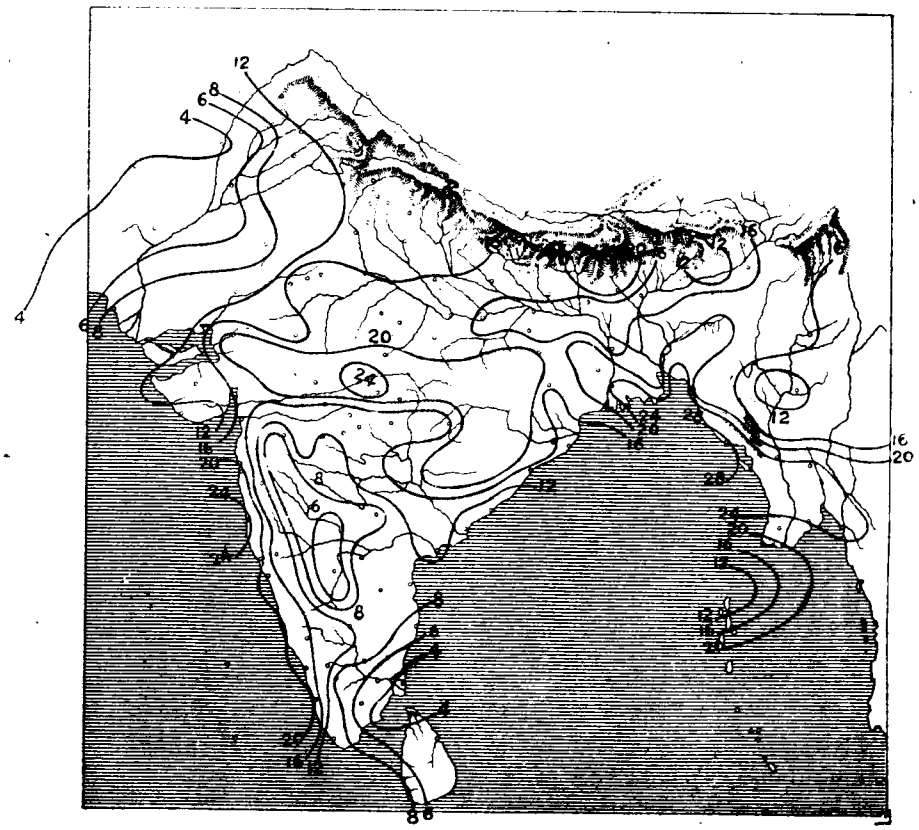
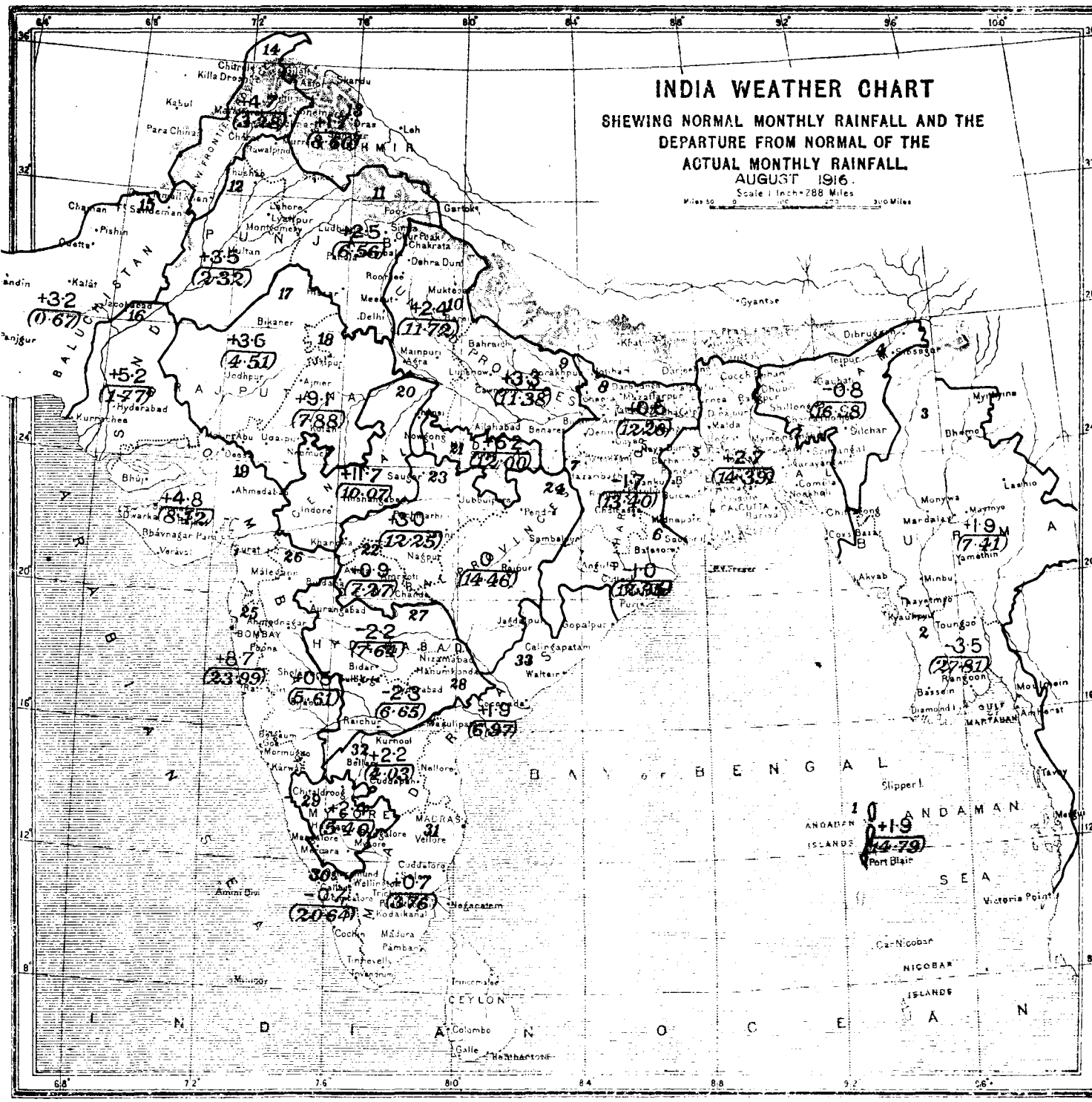


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

OCT 14 1916

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW.

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, SEPTEMBER, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of September, 1916, is based on observations taken daily at 8 hrs. at 217 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon currents were on the whole more active than usual, and the total rainfall of the month was either about normal or in excess in all the larger provinces with the exception of Central India where it was in defect by 16 per cent. The excess amounted to $3\frac{2}{5}''$ in Bombay and Hyderabad, 3″ in Bengal, $2\frac{1}{2}''$ in the United Provinces, $2\frac{1}{4}''$ in the Central Provinces, about 2″ in Burma and about 1″ in Sind and Rajputana.

Of other climatic elements, temperature was nearly normal throughout the country with the exception of Baluchistan where it was $2\frac{1}{2}°$ higher than usual. Cloud was in decided excess in the Punjab, Rajputana, Hyderabad and Bombay; while humidity was appreciably high in most parts of north-west India.

Barometric pressure averaged over the plains of India was lower than usual by ·059″.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun could not be examined for spots and faculæ on four days during the month and prominences could not be photographed on five days.

Sunspots.—Twenty-four new groups of spots were observed as against nineteen in August. The daily average number was 2·8 and the average life of a spot was 3·3 days, the averages for the preceding month being 2·3 and 3·7 respectively. The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North . .	4	8	3	1	17°·7	9° & 32°
South . .	—	5	3	—	18°·8	14° & 23°

Prominences.—Forty-nine large, one eruptive, and one metallic prominences were recorded during the month. The highest was 180″ and was observed on the 24th at latitude —3° east.

Magnetic disturbances.—"Moderate" disturbances were recorded on the following dates; 3rd to 5th, 10th to 13th, 16th, 23rd to 24th, 27th to 28th, and on the 30th.

T. ROYDS,
for *Director,*
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2343$ m. *Subsoil Rock.*

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	∈	$\frac{r}{To^2}$
AN:				
AE:	9·76	18·0	1	2·6
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u). AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Sep. 11th	e P	9 36 06	...	...	...	...	...	
	i L	9 44 00	...	...	...	...	...	
	M	9 45 06	...	...	100	...	...	
	F	11 07 00	...	...	...	...	...	
„ 15th	e P	7 12 00	...	...	...	...	...	
	i L	7 20 00	...	...	...	...	...	
	M	7 21 48	...	...	50	...	...	
	F	8 19 42	...	...	...	...	...	
„ 29th	e P	20 24 06	...	...	...	...	.	Widening of line.
	F	20 41 30	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of September 1916, the traces showed 7 calm days, 22 days of small, and 1 day of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 1st, 9th, 19th, 20th and the 29th.

The following table represents the magnetic character of each day during the month.

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	C	9	C	17	S	25	S
2	S	10	S	18	S	26	S
3	S	11	S	19	C	27	S
4	S	12	S	20	C	28	S
5	S	13	S	21	C	29	C
6	S	14	C	22	S	30	M
7	S	15	S	23	S		
8	S	16	S	24	S		

C = calm; S = small; M = moderate; G = great; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follow :—

Easterly declination	0° 35′ 49″
Horizontal force	0·36861 C. G. S. unit.
Vertical force	0·16810 C. G. S. unit.
Inclination	24° 30′·9.
Horizontal force range	0·00039 C. G. S. unit.
Horizontal force summed range	0·00226 C. G. S. unit.
Declination range	5′·5.
Declination summed range	21′·8.

(NOTE.—Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$m. *Subsoil Trap.*

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	∈	$\frac{r}{To^2}$
AN:				
AE:	9	21	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Sept. 3rd		7 36 0	...	...	...	...	...	Thickening of line.
„ 6th		4 44 0	...	...	...	...	...	„
„ 6th		5 59 0	...	...	...	...	...	„
„ 11th	S	6 44 59	...	...	...	...	...	P as shown by Tromograph is at 6h. 38m. 6s.
	M 1	6 45 29	...	...	100	...	...	
	M 2	7 1 25	...	...	78	...	...	
	F	7 32 11	...	...	...	...	...	
„ 13th	...	5 17m. to 19m.	...	...	...	...	...	Thickening of line.
„ 15th	P	7 11 32	...	...	...	...	...	
	S	7 20 7	...	...	...	...	...	
	M	7 38 57	...	...	56	...	...	
	F	8 1 50	...	...	...	...	...	
„ 23rd	P	7 2 14	...	...	...	...	...	
	M	7 12 38	...	...	22	...	...	
	F	7 37 38	...	...	...	...	...	
„ 29th	...	20 21m. to 24m.	...	...	...	...	...	Thickening of line.
29th	...	20 25 to 27	...	...	...	...	...	„

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·32."

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5. CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32' N$; $\lambda = 88° 20' E$; $h = 6·4$ *Subsoil Alluvial.*

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	20	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Sept. 11th	P	6 38 6	5	...	...	...	...	
	S	6 43 42	?	...	..	...	...	
	L	6 47 36	?	...	...	...	...	
	M_1	6 48 30	...	310	121	...	...	
	M_2	6 59 48	...	345	...	...	...	
	F	7 17 12	...	...	...	...	...	
„ 15th	P	7 9 42	7	...	...	...	...	
	S	7 19 36	11	...	...	...	...	
	L	7 27 54	17	...	...	...	...	
	M	7 28 54	...	86	190	...	...	
	F	8 15 30	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.
		h. m.	sec.		
Sat Tal (District Naini Tal) .	Sept. 2nd	0 40	...	...	1
Muktesar	„ 2nd	0 44	5	4	1
Ditto	„ 16th	6 52	8	5	1
Kirman (Persia) . . .	„ 16th	11 28	10	...	1

The Simla seismograph notes will appear in a future number of the Review.

Solar radiation.—Observations not recorded owing to the absence of officers on war service.

GILBERT T. WALKER,
Director General of Observatories, Simla.

Weather in the Indian Ocean.

7. The defect of pressure over India extended in a modified degree, southwards to the latitude of Mauritius. Rainfall was largely below the average at Seychelles, where winds were appreciably stronger than usual, and was in excess at Zanzibar and Mauritius, where the rate of air motion was almost normal.

TABLE 7.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·007	—·021	—·035
Actual mean wind direction . .	S 76° E	S 6° W	S 38° E
Normal mean wind direction . .	S 77° E	S 5° E	S 40° E
Actual mean wind velocity (miles per diem).	189	94	272
Normal mean wind velocity (miles per diem).	211	98	210
Rainfall departure from normal . .	+1·22	+0·71	—4·23

Depressions and cyclonic storms.

8. There was an almost complete break in the rains over nearly the whole country during the first week. A fresh advance of the monsoon occurred over the Indian seas during the second week and gave rise to a severe cyclonic storm over the Bay. This according to the available marine information was generated on the 18th off the Arakan coast and travelling northwards by 8 hours of the 21st had reached a position a short distance to the east of the Sandheads. It had meanwhile developed into a severe disturbance at the centre of which the barometer stood at least three-fifths of an inch below the normal height. It intensified still further during the day and advancing almost due north passed between 20 and 21 hours approximately over Calcutta, doing considerable damage to property. The lowest reading of the barometer recorded at the Alipore observatory during the passage of the centre was 28·55″ and was about an inch below the normal. By 8 hours of the 22nd it had reached the neighbourhood of Burdwan and had weakened considerably, pressure in the centre having increased by about half an inch. During the succeeding 72 hours it proceeded almost due west, and on the morning of the 25th had its centre to the west of Jubbulpore. It had weakened still further and was now only of slight intensity. It changed its course during the 25th and after travelling slowly northwestwards disappeared over the southwest Punjab on the 29th. The storm was unusually severe for September, and its path was unique. The rainfall associated with it was, however, by no means remarkable.

In the Arabian Sea the advance of the monsoon was preceded by a wave of low pressure; this became visible first on the 12th near Bombay and thence travelling slowly northwestwards disappeared near Karachi on the 16th.

Pressure.

9. Atmospheric pressure was well below the normal everywhere, but the defect was on the whole somewhat more marked at the earth's surface than at the level of the observing hill stations.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·051
Assam	—·041
Bengal	—·052
Bihar and Orissa	—·047
United Provinces	—·054
Punjab	—·047
North-West Frontier Province	—·065
Sind	—·063
Rajputana	—·074
Bombay	—·065
Central India	—·069
Central Provinces	—·064
Hyderabad	—·062
Mysore	—·057
Madras	—·056

TABLE 9.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	″		″	″
Quetta . . .	—·041	Jacobabad . .	—·052	—·011
Leh . . .	—·031	Lahore . . .	—·049	—·018
Murree . . .	—·035	Peshawar . .	—·066	—·031
Simla . . .	—·037	Ludhiana . .	—·039	—·002
Mukteswar . .	—·040	Bareilly . .	—·050	—·010
Darjiling . .	—·032	Dhubri . .	—·048	—·016
Mount Abu . .	—·082	Deesa . . .	—·076	+·006
Pachmarhi . .	—·086	Khandwa . .	—·078	+·008
Kodaikanal . .	—·046	Madura . .	—·060	—·014

Temperature.

10. Temperature conditions of the month did not differ to any marked extent from the normal.

TABLE 10.

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	84·7	76·5	80·6	8·3	+0·1	—0·2	+0·3
2. Lower Burma	85·0	75·2	80·1	9·8	—0·5	—0·3	—0·2
3. Upper Burma	89·8	75·2	82·5	14·6	—0·1	+0·3	—0·4
4. Assam	88·2	76·1	82·1	12·0	—0·4	—0·1	—0·3
5. Bengal	87·8	77·8	82·8	10·1	—0·3	0	—0·3
6. Orissa	89·3	78·0	83·6	11·4	+0·3	+0·1	+0·2
7. Chota Nagpur	88·5	75·1	81·9	13·4	+0·3	+0·4	—0·1
8. Bihar	88·7	78·1	83·5	10·6	—0·8	+0·4	—1·2
9. United Provinces, East	89·5	77·3	83·4	12·2	—1·7	+0·3	—2·0
10. Do. do., West	89·7	76·4	83·0	13·3	—2·5	+1·0	—3·5
11. Punjab, East and North	92·1	74·6	83·3	17·5	—2·6	+0·6	—3·2
12. Do., South-west	98·5	77·2	87·9	21·3	—1·0	+1·1	—2·1
13. Kashmir	77·8	52·3	65·0	25·5	+1·1	+0·7	+0·4
14. North-West Frontier Province	96·4	73·9	85·2	22·5	—1·3	+1·2	—2·5
15. Baluchistan	93·3	62·8	78·0	30·5	+2·5	+2·7	—0·2
16. Sind	95·1	78·0	86·6	17·1	—0·5	+2·0	—2·5
17. Rajputana, West	94·3	77·1	85·7	17·2	—2·1	0	—2·1
18. Do., East	89·8	75·6	82·7	14·3	—2·5	+0·7	—3·2
19. Gujarat	89·5	76·3	82·9	13·3	—0·4	+1·2	—1·6
20. Central India, West	87·2	72·1	79·7	15·1	+0·7	+1·7	—1·0
21. Do., East	87·5	75·8	81·7	11·7	—1·3	+0·9	—2·2
22. Berar	86·6	72·6	79·6	14·0	—0·2	+1·2	—1·4
23. Central Provinces, West	87·0	73·0	80·0	14·1	—0·1	+0·5	—0·6
24. Do., East	86·7	73·3	80·0	13·5	—0·1	+0·4	—0·5
25. Konkan	83·2	75·1	79·2	8·1	—0·5	0	—0·5
26. Bombay Deccan	85·1	69·4	77·3	15·7	—0·2	+0·7	—0·9
27. Hyderabad, North	86·3	71·0	78·6	15·3	—0·5	+1·4	—1·9
28. Do., South	88·0	73·0	80·5	15·0	+0·5	+0·5	0
29. Mysore	81·6	66·3	74·0	15·3	—0·8	+0·5	—1·3
30. Malabar	83·3	74·2	78·8	9·1	—0·5	—0·1	—0·4
31. Madras, South-east	90·7	75·5	83·1	15·2	—1·7	+0·1	—1·8
32. Do. Deccan	90·4	74·1	82·2	16·3	—0·7	0	—0·7
33. Do. Coast, North	90·2	78·4	84·3	11·7	—0·4	+0·4	—0·8

TABLE 11.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·3	0	—0·1
Assam	—0·4	—0·1	—0·2
Bengal	—0·3	0	—0·2
Bihar and Orissa	—0·2	+0·3	+0·1
United Provinces	—2·0	+0·6	—0·7
Punjab	—2·1	+0·7	—0·7
North-West Frontier Province	—1·3	+1·2	—0·1
Sind	—0·5	+2·0	+0·7
Rajputana	—2·3	+0·4	—0·9
Bombay	—0·3	+0·8	+0·2
Central India	—0·3	+1·3	+0·5
Central Provinces	—0·1	+0·7	+0·3
Hyderabad	+0·3	+0·6	+0·5
Mysore	—0·8	+0·5	—0·1
Madras	—1·1	+0·1	—0·5

Winds.

11. (*a*) The velocity of the currents was low in the North-West Frontier Province, Sind, Rajputana, Bombay and Hyderabad, high in Mysore, and nearly normal elsewhere.

(*b*) The steadiness was appreciably greater than usual in Assam and the United Provinces, and much below the normal in Burma, Bengal, Central India, Bombay and over nearly the whole of the plains of north-west India.

(*c*) On the mean of the month winds were more southerly or less westerly than usual in the Konkan, the east of Central India and along the south coast of Burma, but elsewhere the deflections from the normal directions were irregular and of no great significance.

TABLE 12.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·2	— 8
Assam	+0·3	+ 8
Bengal	—0·3	—18
Bihar and Orissa	0	0
United Provinces	0	+ 3
Punjab	+0·3	— 5
North-West Frontier Province	—0·7	—10
Sind	—2·0	—15
Rajputana	—0·6	—22
Bombay	—1·4	—11
Central India	0	—19
Central Provinces	+0·2	— 1
Hyderabad	—1·4	+ 1
Mysore	+1·5	— 2
Madras	+0·2	— 2

Humidity and cloud.

12. The air was appreciably damper than usual, both absolutely and relatively, over most of north-west India, but elsewhere the hygrometric conditions were nearly normal.

The cloud proportion was decidedly high in Tenasserim, deltaic Bengal, the western parts of the United Provinces, the Punjab, Rajputana, Gujarat, Hyderabad and along the west coast, low in Kashmir, and about the average elsewhere.

TABLE 13.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	90	0	·877	—·011	7·4	+0·4
Assam	89	— 1	·912	—·008	7·0	—0·1
Bengal	89	+ 1	·952	—·002	7·0	+0·5
Bihar and Orissa	86	0	·921	+·016	5·9	+0·4
United Provinces	83	+ 2	·891	+·032	4·6	+0·6
Punjab	75	+ 7	·805	+·063	2·7	+0·9
North-West Frontier Province.	73	+ 6	·745	+·048	1·1	—0·1
Sind	76	+ 3	·850	+·057	2·2	—0·1
Rajputana	77	+ 7	·792	+·059	4·6	+1·3
Bombay	87	+ 5	·830	+·043	6·6	+0·9
Central India	84	+ 1	·815	+·031	5·6	+0·3
Central Provinces	85	+ 2	·801	+·032	6·0	+0·2
Hyderabad	84	+ 4	·754	+·031	7·2	+1·4
Mysore	85	+ 2	·635	+·002	7·7	—0·1
Madras	81	+ 2	·828	+·006	6·1	+0·2

Rainfall.

13. An almost complete break prevailed generally in the interior of India during the first seven days. The monsoon currents began to penetrate inland again on the 8th and extending gradually had by the 14th reached the extreme northwest. They gave widespread rain during the next three days; but on the 18th a depression began to form over the north of the Bay causing a marked diminution of rainfall in northern and central India. The disturbance developed rapidly into a severe storm during the next two days and after advancing along a curved path disappeared over the southwest Punjab during the 29th. The rainfall accompanying it was chiefly confined to its immediate neighbourhood, and, although heavy in places, was by no means remarkable, considering its barometric depth and unusually slow movement. At the end of the month there were no signs of the final retreat of the monsoon from upper India, an event which usually happens near the middle of the month.

Averaged over the whole of the plains of India, the month's rainfall exceeded the normal by nearly 1½″ or 21 per cent.; the excess was not, however, entirely general for the quantities recorded in Assam, Orissa, Chota Nagpur, the Punjab South-west, Central India, the Central Provinces East, Madras South-east and the Madras Coast North were more or less below normal. Rainfall was unusually abundant (*i.e.*, more than 50 per cent above normal) in Malabar, the Konkan, Hyderabad South, Berar, the United Provinces West, Rajputana West and Sind, being three times the average fall in the last area. The proportional excess was marked also in Bengal, Bihar, the Central Provinces West, Gujarat, the Bombay Deccan, Hyderabad North and the Madras Deccan. In the region of deficient fall the shortage was most marked in Orissa (2¼″ or 24 per cent.), and Central India (1″ or 16 per cent.)

In Kashmir there was a defect of 2½″ or 53 per cent., while in Baluchistan the month was, as usual, almost without rain.

TABLE 14.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	20·0	18·4	16·29	15·19	+1·10	+ 7
2. Lower Burma	21·1	19·4	21·35	18·70	+2·65	+ 14
3. Upper Burma	12·5	11·0	9·63	8·16	+1·47	+ 18
4. Assam	13·1	13·6	11·97	12·21	—0·24	— 2
5. Bengal	13·5	12·4	14·41	11·45	+2·96	+ 26
6. Orissa	11·6	12·0	7·18	9·43	—2·25	— 24
7. Chota Nagpur	9·5	10·6	7·85	8·67	—0·82	— 9

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
8. Bihar	11·1	9·2	10·88	8·64	+2·24	+ 26
9. United Provinces, East	9·6	7·3	7·11	6·67	+0·44	+ 7
10. Do., West	9·0	5·8	9·81	5·63	+4·18	+ 74
11. Punjab, East and North	4·3	3·2	3·32	3·23	+0·09	+ 3
12. Punjab, South-west	1·5	1·3	0·82	1·02	—0·20	— 19
13. Kashmir	3·0	4·2	2·14	4·57	—2·43	— 53
14. North-West Frontier Province	2·8	2·0	1·79	1·29	+0·50	+ 39
15. Baluchistan	0·2	0·3	0·07	0·14	—0·07	— 50
16. Sind	1·7	0·6	1·39	0·45	+0·94	+209
17. Rajputana, West	4·4	2·3	4·03	2·11	+1·92	+ 91
18. Do., East	7·3	4·8	4·97	4·08	+0·89	+ 22
19. Gujarat	8·8	5·6	6·77	4·74	+2·03	+ 43
20. Central India, West	7·5	7·2	4·82	5·89	—1·07	— 18
21. Do., East	7·5	6·9	5·69	6·69	—1·00	— 15
22. Berar	13·7	7·9	10·81	5·81	+5·00	+ 86
23. Central Provinces, West	11·2	9·5	10·57	7·80	+2·77	+ 36
24. Do., East	11·9	9·6	7·83	8·00	—0·17	— 2
25. Konkan	20·2	15·5	22·51	12·60	+9·91	+ 79
26. Bombay Deccan	10·6	8·2	7·48	5·63	+1·85	+ 33
27. Hyderabad, North	14·4	10·0	11·06	8·31	+2·75	+ 33
28. Do. South	13·4	9·8	11·05	6·96	+4·09	+ 59
29. Mysore	9·1	7·9	5·44	4·95	+0·49	+ 7
30. Malabar	21·0	13·7	16·29	9·49	+6·80	+ 72
31. Madras, South-east	5·6	6·1	3·68	4·47	—0·79	— 18
32. Do. Deccan	8·7	7·6	7·16	5·35	+1·81	+ 34
33. Do. Coast, North	9·3	9·1	6·41	6·84	—0·43	— 6

TABLE 15.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	14·18	12·30	+1·88	+ 15
Assam	11·97	12·21	—0·24	— 2
Bengal	14·41	11·45	+2·96	+ 26
Bihar and Orissa	9·18	8·84	+0·34	+ 4
United Provinces	8·57	6·11	+2·46	+ 40
Punjab	2·71	2·69	+0·02	+ 1
North-West Frontier Province	1·79	1·29	+0·50	+ 39

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	1·39	0·45	+0·94	+209
Rajputana	4·68	3·48	+1·20	+ 34
Bombay	9·95	6·59	+3·36	+ 51
Central India	5·26	6·29	—1·03	— 16
Central Provinces	9·58	7·32	+2·26	+ 31
Hyderabad	11·06	7·68	+3·38	+ 44
Mysore	5·44	4·95	+0·49	+ 7
Madras	6·05	5·74	+0·31	+ 5
Mean of India	8·33	6·90	+1·43	+ 21

Snowfall.

14. I.—*Afghanistan.* } No reports have
II.—*North-West Frontier Province.* } been received.

III.—KASHMIR.

(*a*) *Hills around Srinagar, Gulmarg and Dras.*—No snow fell.

(*b*) *Mountains around Skardu.*—Slight falls occurred on the highest peaks on the 1st and 2nd.

(*c*) *Hills near Kargil.*—Snowfall, varying in depth from one to four inches, occurred on the higher elevations on the 19th. At the end of the month only about 2 inches of snow still remained unmelted on the summit of the Archulla.

IV.—PUNJAB.

Kilba (*Simla Hills*).—Snowstorms occurred on the 25th, 26th and 27th down to 11,000 feet at which level the total fall amounted to about 6 inches in depth.

TABLE 16.

Name of pass.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Rupin	2	2¾
Brua	3	2¾
Shatul	4	2
Harang	*Nil*	¼

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—Snow to a total depth of about one foot fell on the 24th and 25th on the higher peaks in the north of the district.

(*b*) *Almora.*—The aggregate fall of the month was estimated at about 10½ feet in Byans, 5½ feet in Mallas Johar and Darma, 3 feet in Chaudas and 1 foot in Malla Danpur.

TABLE 17.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	15	22½
Lampia "	13	8
Lipulekh "	9	6½
Binkaru "	5	9
Untadhura	5½	7½
Ralamdhura	5½	4¾
Milandhura	5½	11¼
Pindari peak	1½	2¾
Kaphini "	1½	2½
Kuntela "	1½	2½

SUMMARY.

15. Except locally in the Almora hills the snowfall of the month in the western Himalayas, for which alone information is available, was lighter than usual.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in September, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·678	29·558	·120	29·619	—·073	29·587	88·8	78·5	10·3	92·7	75·7	17·0	85·0	85·1	83·3	+0·7	76·8	80·3	80·0	79·1
	VI.—Punjab.																					
11	Lahore . . .	702	28·972	28·870	·103	28·914	—·058	29·568	95·2	75·8	19·4	100·9	71·2	29·7	87·8	93·9	84·5	—0·3	72·7	78·0	79·3	76·7
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·284	28·177	·107	28·227	—·077	29·579	90·9	74·1	16·8	100·5	70·1	30·4	84·5	88·7	81·9	—1·4	71·8	75·1	75·3	74·1
	X.—Bombay.																					
25	Bombay . .	37	29·752	29·651	·101	29·699	—·092	29·677	84·8	77·6	7·2	89·8	75·5	14·3	80·6	82·5	80·1	+0·7	75·5	77·8	78·0	77·1
	XIV.—Mysore.																					
29	Bangalore . .	3,021	28·672	28·757	·115	28·823	—·061	29·666	81·5	63·8	16·7	84·6	61·8	22·7	74·1	79·6	71·8	0	64·8	68·5	69·8	67·4
	XV.—Madras.																					
31	Pudukkottai . .	318	29·515	29·380	·135	29·447		29·631	92·6	75·2	17·4	97·9	72·4	25·5	85·1	90·1	83·9		74·9	76·3		
	Madras . .	22	29·762	29·642	·120	29·711	—·066	29·668	93·6	78·0	15·6	99·4	74·5	24·9	87·8	89·9	84·7	+0·8	74·9	78·8	79·9	77·9
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain . . .		23·097	23·039	·058	23·061		23·023	69·1	52·5	16·6	75·6	46·2	29·4	64·2	65·7	60·4		58·7	59·8		
	Katmandu . .	4,388	25·594	25·522	·072	25·555	+·032	25·509	81·5	66·4	15·1	87·4	61·2	26·2	74·5	78·2	73·5	+0·3	64·9*	69·1	70·9	68·3
	Kodaikanal . .	7,688	22·780	22·709	·071	22·745		22·679	63·4	52·5	10·9	67·1	48·7	18·4	60·6	58·7	57·9		49·7	56·2	56·6	54·2
	Extra India.																					
	Seychelles . .	15	29·986	29·887	·099	29·945	—·035	29·882	80·7	76·7	4·0	83·0	74·8	8·2	79·1	80·0	77·4	—0·2	69·7	73·7	74·1	72·5
	Mauritius . .	181				29·925	—·007	30·057	75·7	63·8	11·8	79·7	57·9	21·8			69·1	—0·5				64·2

N.B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 28 days.

A.

at 12 stations in India, etc., in September, 1916.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·900	·971	·953	·947	—·005	93	81	79	85	— 1	8·3	8·7	8·5	+0·6	6	1	5	9	7	9	17	3	3	S 1° E	S 9° W	32	46	75	71	17·90	5·29	Calcutta . .	5
																															VI.—Punjab.	
·763	·826	·805	·809	+·091	86	63	52	70	+ 9	1·4	1·1	1·3	—0·6	21	2	6	5	8	2	1	4	11	N 24° E	N 46° E	10	59	25	37	0·97	0·68	Lahore . .	11
																															IX.—Rajputana.	
·756	·753	·709	·757	+·065	69	65	55	75	+ 6	5·0	6·1	5·5	+1·0	0	6	8	7	1	2	10	11	15	N 51° W	N 42° W	33	43	79	74	3·79	1·19	Jaipur . .	18
																															X.—Bombay.	
·852	·908	·897	·893	+·021	91	87	81	87	+ 1	8·1	7·4	7·7	+0·8	0	2	0	3	8	7	7	22	11	S 75° W	N 81° W	45	52	133	189	14·59	3·24	Bombay . .	25
																															XIV.—Mysore.	
·605	·630	·626	·632	+·009	96	75	65	82	+ 2	8·0	8·0	8·0		0	0	0	1	2	1	13	38	5	S 80° W	S 84° W	82	83	177	123	3·72	1·20	Bangalore . .	29
																															XV.—Madras.	
·727	·723	...	...		...	61	52	...		5·0	6·5	5·7		8	4	0	2	0	6	16	8	16	S 86° W		48		81		5·86	2·12	Pudukkottai .	31
·822	·862	·834	·867	+·019	86	66	63	74	— 3	5·6	6·1	5·9	—0·4	0	0	1	2	6	2	9	32	8	S 80° W	S 36° W	63	53	101	105	2·92	0·88	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·439	·455	...	...			74	73			5·2	6·3	5·7																	9·21	3·43	Sarain.	
·592*	·650	·673	·640	+·007	91*	76	73	82	+ 1	7·2	7·1	7·1	+0·8	0	0	1	22	0	0	1	32	4	N 77° W	N 87° W	22	11	18	12	8·17	1·72	Katmandu.	
·330	·410	·425	·392		84	78	88	83		6·9	9·5	8·2		1	3	1	0	5	2	5	22	21	N 75° W		62		223		8·35	2·27	Kodaikanal.	
																															Extra India.	
·635	·757	·762	·735	—·042	69	76	74	75	— 5	5·8	6·2	6·0	+0·4†	0	1	1	0	46	9	2	0	1	S 38° E	S 40° E	85	87	272	210	0·63	0·18	Seychelles.	
			·526	+·015				74	+ 3			6·4	+1·3										S 76° E	S 77° E			189	211	2·60	0·42	Mauritius.	

* Mean of 23 days. † Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 217 stations in India, etc., in September, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°			%		"				"	"	"
Burma	−·051	87·0	−0·3	75·2	0	81·1	−0·1	11·8	+0·2	− 8	90	0	·877	−·011	7·4	+0·4	14·18	12·30	+1·88
Assam	−·041	88·2	−0·4	76·1	−0·1	82·1	−0·2	12·0	+0·3	+ 8	89	− 1	·912	−·008	7·0	−0·1	11·97	12·21	−0·24
Bengal	−·052	87·8	−0·3	77·8	0	82·8	−0·2	10·1	−0·3	−18	89	+ 1	·952	−·002	7·0	+0·5	14·41	11·45	+2·96
Bihar and Orissa	−·047	88·9	−0·2	77·4	+0·3	83·1	+0·1	11·5	0	0	86	0	·921	+·016	5·9	+0·4	9·18	8·84	+0·34
United Provinces of Agra and Oudh	−·054	89·6	−2·0	76·9	+0·6	83·2	−0·7	12·7	0	+ 3	83	+ 2	·891	+·032	4·6	+0·6	8·57	6·11	+2·46
Punjab	−·047	94·3	−2·1	75·4	+0·7	84·9	−0·7	18·8	+0·3	− 5	75	+ 7	·805	+·063	2·7	+0·9	2·71	2·69	+0·02
North-West Frontier Province	−·065	96·4	−1·3	73·9	+1·2	85·2	−0·1	22·5	−0·7	−10	73	+ 6	·745	+·048	1·1	−0·1	1·79	1·29	+0·50
Sind	−·063	95·1	−0·5	78·0	+2·0	86·6	+0·7	17·1	−2·0	−15	76	+ 3	·850	+·057	2·2	−0·1	1·39	0·45	+0·94
Rajputana	−·074	91·6	−2·3	76·2	+0·4	83·9	−0·9	15·4	−0·6	−22	77	+ 7	·792	+·059	4·6	+1·3	4·68	3·48	+1·20
Bombay	−·085	86·8	−0·3	73·9	+0·8	80·3	+0·2	12·9	−1·4	−11	87	+ 5	·830	+·043	6·6	+0·9	9·95	6·59	+3·36
Central India	−·069	87·4	−0·3	73·9	+1·3	80·7	+0·5	13·4	0	−19	84	+ 1	·815	+·031	5·6	+0·3	5·33	6·29	−0·96
Central Provinces	−·064	86·8	−0·1	73·0	+0·7	79·9	+0·2	13·9	+0·2	− 1	85	+ 2	·801	+·032	6·0	+0·2	9·58	7·32	+2·26
Hyderabad	−·062	87·3	+0·3	72·1	+0·6	79·7	+0·5	15·1	−1·4	+ 1	84	+ 4	·754	+·031	7·2	+1·4	11·06	7·68	+3·38
Mysore	−·057	81·6	−0·8	66·3	+0·5	74·0	−0·1	15·3	+1·5	− 2	85	+ 2	·635	+·002	7·7	−0·1	5·44	4·95	+0·49
Madras	−·056	89·3	−1·1	75·9	+0·1	82·5	−0·5	13·4	+0·2	− 2	81	+ 2	·828	+·006	6·1	+0·2	6·05	5·74	+0·31

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at Lat. 45°	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·721		29·798	29·802	1st	29·642	28th	76·6	75·5	82·0		74·1		79·1		9·9	88·6	2nd	70·7	24th
	Mergui	66	29·792	−·052	29·788	29·867	1st	29·702	28th	76·2	75·4	82·9	−1·6	72·2	−0·7	77·5	−1·1	10·7	88·8	7th	70·9	7 days.
	Tavoy	19	29·822	−·067	29·774	29·919	1st	29·721	28th	77·4	75·7	83·5	+0·5	75·6	+1·5	80·1	+1·0	8·9	89·5	3rd & 7th.	74·0	21st
	Moulmein	94	29·744	−·026	29·779	29·859	1st	29·657	29th	77·2	75·7	85·0	+0·2	74·4	−0·2	79·7	0	10·6	89·5	13th & 15th.	72·5	29th
	Rangoon	18	29·791	−·009?	29·746	29·915	1st	29·691	18th	79·2	77·5	85·0	−0·7	75·7	−0·3	80·4	−0·5	9·3	90·1	14th	73·5	22nd
	Bassein	27	29·762	−·061	29·725	29·890	2nd	29·647	19th	79·4	77·6	85·5	−0·1	76·1	0	80·8	−0·1	9·4	91·2	15th	71·9	15th
	Diamond Island	41	29·736	−·071	29·714	29·863	1st	29·613	20th	80·1	77·4	83·5	−1·1	77·5	+1·2	80·5	+0·1	6·0	88·2	7th	74·0	23rd
	Toungoo	164	29·637	−·044	29·741	29·762	12th	29·561	29th	79·4	77·3	88·5	−0·5	73·9	−1·4	81·2	−0·9	14·6	92·3	14th	72·0	1st & 2nd.
	Kyaukpyu	18	29·742		29·700	29·887	12th	29·572	20th	79·5	77·7	85·1		76·8		81·0		8·3	88·3	17th	74·4	1st & 21st.
	Akyab	20	29·736	−·059	29·697	29·880	12th	29·559	20th	79·4	77·9	86·1	−0·3	75·6	−2·2	80·9	−1·3	10·5	91·4	20th	73·8	12th
3	Minbu	*165*	29·603	−·056	29·711	29·735	12th	29·504	20th	79·7	76·9	89·6	−0·7	77·1	+0·3	83·3	−0·2	12·5	94·7	22th	75·4	29th
1	Yamethin	641	29·139	−·047	29·733	29·274	12th	29·064	29th	78·5	75·4	89·1	−1·6	74·9	+0·2	82·0	−0·7	14·2	94·1	14th	73·6	16th
	Mandalay	250	29·524	−·050	29·721	29·604	12th	29·443	9th	81·8	77·6	93·7	+0·9	77·4	+0·4	85·5	+0·7	16·3	100·7	6th	75·0	30th
	Monywa	*280*	29·492	−·038	29·720	29·625	12th	29·409	9th & 29th.	80·3	77·0	92·3	+0·5	78·2	+0·5	85·3	+0·5	14·1	97·8	6th	73·6	17th
	Lashio	*2,820*	22·005	−·062	26·951	27·129	12th	26·962	9th	72·7	70·4	83·3	−0·3	69·3	+1·4	76·4	+0·5	14·5	88·5	27th	65·6	19th
	Bhamo	*361*	29·396	−·040	29·710	29·523	12th	29·289	9th	78·3	76·8	90·2	+0·4	74·0	−0·6	82·1	−0·1	16·2	95·4	20th	72·0	16th
	Myitkyina	468	29·289	−·031	29·705	29·412	12th	29·186	8th	77·7	76·0	89·9	+0·1	75·4	−0·2	82·7	−0·1	14·5	94·8	30th	72·0	16th
	II.—Assam.																					
4	Dibrugarh	353	29·390	−·045	29·701	29·517	13th	29·273	10th	79·2	76·7	87·5	+0·5	75·8	+1·0	81·7	+0·7	11·7	93·9	28th	72·9	1st
	Sibsagar	333	29·431	−·046	29·722	29·547	13th	29·312	10th	79·8	77·6	87·6	−0·2	72·9	−2·4	80·7	−1·3	13·7	92·7	26th	70·0	1st
	Tezpur	252	29·505	−·025	29·717	29·630	13th	29·342	10th	79·3	77·3	88·5	−0·2	76·7	−0·1	82·6	−0·1	11·8	92·9	28th	71·9	16th
	Gauhati	196	29·562	−·023	29·713	29·697	13th	29·410	20th	82·4	78·5	89·2	−0·7	77·1	+0·4	83·1	−0·1	12·1	93·6	21st	75·3	2nd
	Dhubri	115	29·617	−·048	29·683	29·762	13th	29·479	20th	79·9	77·9	84·9	−0·5	77·3	+0·1	81·1	−0·2	7·6	90·5	29th	75·3	8th
	Silchar	104	29·645	−·059	29·702	29·764	12th	29·567	20th	79·9	77·7	89·3	−0·5	76·8	+0·5	83·1	0	12·5	94·1	24th	73·4	26th
	Srimangal	66	29·656		29·671	29·800	13th	29·493	20th	79·2	77·3	90·1	−0·9	75.3	−0·4	82·7	−0·7	14·8	95·5	30th	72·6	26th
	III.—Bengal.																					
5	Cox's Bazar	36	29·704		29·685	29·856	13th	29·518	20th	80·6	78·3	86·0		75·6		80·8		10·4	90·9	19th	73·7	3rd & 19th.
	Chittagong	87	29·657	−·052	29·689	29·814	13th	29·465	21st	79·9	78·0	87·4	+0·6	76·2	−0·1	81·8	+0·3	11·2	91·9	19th	71·1	3rd
	Noakhali	43	29·697	−·047	29·687	29·854	13th	29·511	21st	81·1	78·7	87·0	+0·5	77·8	+0·4	82·4	+0·5	9·2	90·8	20th, 29th & 30th.	73·3	2nd
	Barisal	12	29·711	−·047	29·670	29·872	13th	29·476	21st	82·1	79·4	87·5	−0·5	78·0	−0·1	82·8	−0·3	9·5	91·2	6th	72·0	2nd
	Narayanganj	26	29·702	−·051	29·677	29·858	13th	29·509	21st	81·9	78·9	87·6	−0·9	78·2	−0·7	82·9	−0·8	9·4	92·7	30th	72·6	1st
	Mymensingh	63	29·668	−·051	29·683	29·821	13th	29·515	20th	81·3	79·2	87·2	−0·4	78·6	+0·9	82·9	+0·3	8·6	92·3	20th	75·5	2nd
	Bogra	75	29·644	−·053	29·671	29·804	13th	29·488	21st & 22nd.	80·9	79·0	88·4	−0·2	77·9	+0·2	83·2	0	10·5	94·2	9th	75·0	3rd
	Dinajpur	123	29·595	−·040	29·676	29·749	13th	29·452	20th	81·5	78·9	88·3	−0·3	78·4	+0·9	83·4	+0·3	9·9	93·6	11th	75·5	4 days
	Jalpaiguri	283	29·446	−·045	29·657	29·591	13th	29·326	20th	78·7	77·2	87·7	0	75·7	−0·1	81·7	−0·1	12·0	92·5	29th	70·2	29th
	Saugor Island	10	29·681	−·054	29·636	29·838	13th	29·198	21st	82·6	79·7	87·1	−1·1	78·1	−1·6	82·6	−1·3	9·0	90·0	6th	72·5	26th
	Midnapore	149	29·531	−·066	29·629	29·688	13th	29·193	22nd	82·3	78·6	89·2	−0·7	77·8	−0·1	83·5	−0·1	11·4	95·8	30th	74·3	13th
	Calcutta	21	29·67	−·061	29·689	29·888	13th	29·233	21st	81·6	79·8	88·5	+0·5	78·5	+0·5	83·5	+0·5	10·0	92·7	7th	75·7	17th

N. B.—Elevations in italics indicate barometrical determinations.

B.

at 217 stations in India, etc., in September, 1916.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															I.—Burma.
10	1	1	6	4	3	5	0	0	S 39° E		5·0			33		86		·844		7·6		22		23·64			114·03			3·10	Victoria Point.
20	0	0	2	6	2	0	0	0	S 45° E	N 76° W	2·8	1·2	+1·6	27	−31	97	+ 4	·878	+ ·005	7·3	+1·1	26	−3·5	33·75	27·22	+ 6·53	118·64	135·13	−16·49	5·65	Mergui.
19	1	1	0	3	4	2	0	0	S 14° E	S 64° W	2·0	0·9	+1·1	20	+ 9	92	− 1	·867	−·002	7·4	+0·4	21	−2·2	37·16	34·81	+2·35	188·25	197·18	− 8·93	4·16	Tavoy.
1	0	3	1	12	14	1	0	1	S 30° E	S 12° E	6·7	2·3	+4·4	66	+29	93	+ 1	·867	−·012	8·7	+1·3	22	−0·2	22·45	28·34	−5·89	160·04	173·12	−13·08	4·34	Moulmein
2	1	2	5	6	9	4	1	0	S 26° E	S 50° W	3·4	2·6	+0·8	53	+ 5	92	0	·917	+·004	9·6	+1·2	23	+3·3	22·52	15·63	+ 6·89	90·37	86·03	+ 4·34	3·78	Rangoon.
13	0	0	2	3	8	1	1	2	S 8° E	S 5° W	2·7	2·9	−0·2	30	− 7	92	− 1	·928	−·003	6·5	−0·6	23	+2·5	21·31	15·42	+ 5·89	108·33	96·44	+11·89	2·83	Bassein.
2	1	1	2	4	5	11	3	1	S 21° W	S 51° W	6·5	5·8	+0·7	46	+ 5	88	+ 2	·906	+·002	6·3	−1·0	19	+1·5	26·29	17·72	+8·48	101·57	101·40	+ 0·17	5·40	Diamond Island.
10	2	1	1	5	7	2	0	2	S 17° E	S 32° E	2·4	2·3	+0·1	47	−23	90	0	·896	−·021	8·5	+0·3	21	+3·1	17·51	12·39	+ 5·12	65·57	70·18	− 4·61	3·75	Toungoo.
21	0	1	5	3	0	0	0	0	S 30° E		0·8			27		90		·908		8·7		28		30·66			154·68			8·48	Kyaukpyu.
12	0	0	5	3	2	4	0	0	S 60° E	N 87° E	2·9	2·2	+0·7	27	−29	93	0	·931	−·020	8·0	+0·5	20	+0·6	54·25	21·71	+32·54	214·49	174·37	+40·12	9·69	Akyab.
1	0	1	3	19	2	0	2	2	S 46° E	S 42° E	3·4	6·0	−2·6	62	− 5	87	+ 1	·878	−·008	7·2	+0·9	9	−1·0	4·88	6·19	− 1·31	33·77	26·05	+ 7·72	1·05	Minbu.
17	0	0	3	4	3	2	1	0	S 25° E	S 10° E	1·7	4·0	−2·3	27	−40	87	− 1	·837	−·026	5·7	−0·8	13	+2·1	14·08	7·31	+6·77	39·65	28·29	+11·36	5·60	Yamethin.
8	1	2	2	10	6	0	0	0	S 47° E	S 3° W	2·1	3·4	−1·3	49	− 5	88	− 1	·886	−·004	2·3	−3·5?	13	+4·1	8·06	6·08	+ 1·98	23·81	24·48	− 0·67	3·80	Mandalay.
9	3	1	2	14	1	0	0	0	S 61° E		1·7			46		86	− 1	·881	−·040	8·7	+1·4	8	−1·7	5·92	7·73	− 1·81	24·63	23·21	+ 1·42	1·19	Monywa.
13	2	6	1	2	0	2	1	2	N 51° E		2·0			33		89	− 3	·714	−·018	8·1	+0·1	13	−0·5	5·99	7·58	− 1·59	36·98	50·45	−13·47	1·24	Lashio.
22	3	2	0	0	4	1	1	1	N 13° W	N 72° W	0·8	1·5	−0·7	13	− 1	94	+ 3	·898	+·013	7·4	+0·7	12	−0·5	11·26	9·17	+ 2·09	52·81	62·10	− 9·29	2·53	Bhamo.
30	0	0	0	0	0	0	0	0	Calm		1·0			(a)		92	+ 2	·873	−·023	7·5	+0·2	10	−1·9	5·56	9·48	− 3·92	56·26	63·43	− 7·17	1·25	Myitkyina.
																															II.—Assam.
20	2	4	2	0	1	0	0	1	N 43° E		0·6			22		89	− 3	·882	0	5·2	−2·2	7	−7·7	7·72	12·64	− 4·92	84·73	80·71	+ 4·02	2·44	Dibrugarh.
9	4	7	0	1	3	4	0	2	N 21° E	S 79° E	2·0	1·8	+0·2	13	+ 2	89	− 5	·905	−·023	7·8	−0·5	19	−1·5	14·04	11·86	+ 2·18	67·67	71·42	− 3·75	3·19	Sibsagar.
27	0	2	0	1	0	0	0	0	N 72° E		2·9			7		91	0	·910	−·003	6·8	−0·1	15	+3·4	10·78	7·20	+ 3·58	49·26	54·70	− 5·44	1·97	Tezpur.
28	0	1	1	0	0	0	0	0	N 66° E		0·8			7		83	− 5	·931	+·010	7·5	+0·5	9	−1·1	4·48	6·15	− 1·67	34·44	49·91	−15·47	1·36	Gauhati.
4	0	7	8	2	4	3	1	1	S 80° E	N 82° E	4·2	3·1	+1·1	37	+15	91	0	·923	+·002	7·3	+0·4	15	+2·2	12·49	14·25	−1·76	72·86	82·95	−10·09	2·53	Dhubri.
26	0	3	1	0	8	0	0	0	N 56° E	N 77° E	1·2	1·6	−0·4	10	+ 7	90	0	·917	−·012	9·3	+1·6	16	+1·0	11·56	13·93	− 2·37	74·17	90·91	−16·74	1·92	Silchar.
																91	+ 4	·912	−·029	5·0		19	+3·2	14·07	12·11	+ 1·96	58·37	70·63	−11·76	3·02	Srimangal.
																															III.—Bengal.
13	0	1	4	9	1	1	0	1	S 55° E		2·5			40		90		·911		7·2		18		23·67			126·90			3·28	Cox's Bazar.
17	0	0	5	7	1	0	0	0	S 58° E	S 60° E	2·2	3·2	−1·0	40	−23	92	+ 4	·935	+·011	7·4	+0·3	13	+0·3	18·21	11·66	+ 6·58	88·18	80·64	+ 7·54	5·40	Chittagong.
7	1	1	3	14	4	0	0	0	S 49° E		2·7			60		90	+ 1	·950	−·002	6·3	+1·4	17	+1·3	24·52	15·87	+ 8·65	98·01	100·17	− 2·16	6·06	Noakhali.
13	2	1	3	1	8	2	0	0	S 22° E	S 27° E	1·4	2·0	−0·6	27	+ 1	88	0	·964	−·008	7·7	+1·3	16	+1·2	13·19	11·31	+ 1·83	63·22	64·36	− 1·14	4·43	Barisal.
13	1	1	4	5	4	0	1	1	S 51° E	S 10° E	1·3	3·8	−2·5	27	−21	87	− 1	·918	−·022	7·4	−0·2	14	+2·1	15·47	9·37	+ 6·10	56·35	55·56	+ 0·79	3·06	Narayanganj.
22	0	0	5	2	8	0	0	1	S 83° E	S 63° E	1·3	2·0	−0·7	20	−36	91	+ 1	·973	+·016	7·6	+0·5	15	−0·2	9·25	14·08	− 4·83	71·25	77·77	− 6·52	2·18	Mymensingh.
12	2	5	7	0	8	2	1	1	N 56° E	S 49° E	1·6	2·2	−0·6	27	−29	92	+ 5	·965	+·013	7·3	+1·6	14	+1·1	12·03	11·73	+ 0·30	58·94	58·39	+ 0·55	1·82	Bogra.
9	1	5	5	5	1	4	0	0	S 73° E	S 76° E	2·5	2·6	−0·1	30	−22	89	0	·957	+·011	6·0	−0·7	11	−1·6	10·72	12·35	−1·63	81·14	61·77	+19·37	3·20	Dinajpur.
29	0	0	0	0	0	1	0	0	S 45° W	N 73° E	1·5			3	−57	93	+ 3	·915	+·006	6·0	+0·8	21	+5·6	17·84	19·75	− 1·91	143·72	112·15	+31·57	3·76	Jalpaiguri.
4	4	2	7	4	4	6	3	2	S 39° W		8·2	5·2	+3·0	17	−12	88	0	·883	−·002	7·9	−0·7	11	−2·5	11·15	11·67	−0·52	54·20	56·49	− 2·29	2·42	Saugor Island.
15	0	2	1	0	3	6	1	2	S 45° W		2·1*			29		84	− 2	·927	−·002	5·8	+1·7	14	+1·9	15·23	8·76	+ 6·47	55·60	48·89	+ 6·71	2·50	Midnapore.
4	0	1	3	5	1	11	1	4	S 26° W	S 13° E	3·1	2·0	+0·1	33	0	90	+ 3	·966	+·003	7·9	+1·0	18	+4·8	17·90	10·35	+7·55	65·29	52·57	+12·72	5·29	Calcutta.

(a) Indeterminate.

* Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Jessore	30	29·689	−·042	29·666	29·862	13th	29·434	21st	82·7	79·2	88·3	−0·9	78·3	−0·1	83·3	−0·5	10·0	91·9	8th	74·0	1st
	Burdwan	99	29·588	−·067	29·635	29·756	13th	29·192	22nd	81·9	79·1	88·7	−1·1	78·6*	−0·2*	83·7*	−0·7	10·1	92·6	7th	73·8	1st
	Berhampore	67	29·633	−·054	29·650	29·800	13th	29·321	22nd	81·5	78·9	88·6	−0·4	78·7	+0·1	83·7	−0·1	9·9	94·4	8th	74·6	1st
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·650	−·045	29·645	29·791	13th	29·390	21st	81·5	78·9	89·4	+0·6	77·9	0	83·7	+0·3	11·5	92·5	11th	74·1	25th
	Hukitala (False Point)	29	29·668	−·053	29·638	29·801	2nd & 13th.	29·363	21st													
	Cuttack	80	29·621	−·044	29·642	29·753	2nd	29·367	21st	81·9	78·0	90·2	+0·1	78·3	+0·2	84·2	+0·1	11·9	93·7	30th	75·3	25th
	Puri	24	29·685	−·042	29·650	29·816	2nd	29·424	21st	82·8	79·2	88·9	−0·1	80·2	+0·5	84·5	+0·2	8·7	93·5	30th	76·2	21st
	Angul	455	29·248	−·052?	29·648	29·378	2nd	29·034	21st	81·1	77·6	89·2	+0·7	76·4	−0·1	82·8	+0·3	12·8	92·8	30th	73·0	1st
	Sambalpur	486	29·217	−·050	29·650	29·340	1st & 2nd.	29·008	23rd	81·1	77·7	88·9	0	77·0	−0·1	83·0	−0·1	11·9	92·0	9th & 30th.	74·3	25th
7	Chaibasa	*733*	28·944	−·056	29·626	29·079	13th	28·630	22nd	80·3	76·4	89·8	+0·4	76·3	+0·4	83·1	+0·4	13·6	94·2	10th	72·8	29th
	Ranchi	2,128	27·586	−·043	29·623	27·706	13th	27·294	22nd	76·0	73·2	84·1	0	72·7	+0·7	78·4	+0·3	11·4	88·7	10th & 11th.	68·7	26th
	Purulia	*816*	28·874*	−·047*	29·636*	29·030	13th	28·345	22nd	80·6	77·6	90·3	+1·0	76·0	+0·3	83·1	+0·7	14·3	94·6	10th	72·6	23rd
	Daltonganj	*730*	28·950	−·057	29·630	29·056	13th	28·722	23rd	80·1	76·8	89·9	−0·4	75·6	+0·3	82·8	−0·1	14·3	94·2	9th	72·8	23rd
8	Purnea	124	29·574	−·058	29·653	29·722	13th	29·411	22nd	80·9	79·0	87·5	−1·4	75·3	+0·8	82·9	−0·3	9·2	93·6	11th	75·2	23rd & 30th.
	Monghyr	155	29·520*		29·627*	29·668	13th	29·282	22nd	82·1	79·0	88·2		78·4		83·3		9·8	92·1	9th & 10th.	74·7	23rd
	Darbhanga	165	29·533	−·047	29·653	29·673	13th	29·385	22nd	82·1	78·7	88·0	−0·7	78·0	−0·6	83·0	−0·7	10·0	92·5	29th & 30th.	75·2	11th & 23rd.
	Pusa	188	29·503		29·646	29·640	13th	29·365	22nd	82·6	79·6	89·4		77·4		83·4		12·0	94·2	8th	74·5	3rd & 11th.
	Patna	183	29·514	−·040	29·651	29·642	13th	29·360	22nd	83·5	80·0	88·2	−1·6	78·7	−0·2	83·5	−0·9	9·5	92·7	11th	75·2	3rd
	Buxar	239	29·441	−·049	29·635	29·541	13th	29·334	22nd	81·3	78·6	88·7	−1·4	78·4	+0·7	83·5	−0·3	10·3	94·7	11th	73·6	20th
	Gaya	372	29·325	−·036	29·646	29·446	13th	29·078	22nd	84·0	78·9	90·4	−0·5	78·7	+0·9	84·6	+0·2	11·7	96·7	10th	74·2	23rd
	Naya Dumka	489	29·211	−·041	29·650	29·365	13th	28·814	22nd	82·2	79·0	89·5	+0·6	77·2	+0·7	83·4	+0·7	12·2	95·7	9th	74·6	21st
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·429	−·047	29·644	29·546	13th	29·350	22nd	81·1	78·0	88·4	−2·1	77·5	−0·1	83·0	−1·1	10·9	94·9	10th	74·0	20th
	Benares	267	29·409	−·052	29·628	29·499	13th	29·305	21st	83·0	79·1	90·3	−0·7	77·5	+0·3	83·9	−0·2	12·8	96·6	11th	74·0	23rd
	Allahabad	309	29·354	−·068	29·617	29·427	13th & 14th.	29·235	24th	83·4	78·0	90·8	−0·7	76·7	−0·3	83·7	−0·5	14·1	96·9	10th	74·0	21st
	Cawnpore	416	29·269	−·040	29·640	29·345	13th	29·190	20th	81·6	78·4	89·6	−1·5	77·4	+0·1	83·5	−0·7	12·2	96·4	11th	75·9	14th
	Lucknow	368	29·308	−·050	29·632	29·396	13th	29·237	19th	82·5	78·7	89·8	−2·1	77·7	+1·3	83·8	−0·4	12·1	97·9	11th	73·8	21st
	Bahraich	407	29·275	−·044	29·641	29·378	13th	29·212	10th	81·5	77·5	88·2	−2·2	77·2	+0·7	82·7	−1·3	11·0	95·8	11th	73·3	16th
10	Jhansi	824	28·854	−·074	29·632	28·948	6th	28·748	20th	80·1	75·7	90·5	−1·0	75·9	−0·2?	83·2	−0·6?	14·6	98·6	12th	72·8	25th
	Agra	556	29·110	−·068	29·621	29·191	6th	28·938	20th	83·3	77·8	92·1	−1·1	77·9	+0·9	85·0	−0·1	14·2	100·6	12th	73·7	21st
	Mainpuri	516	29·143	−·066	29·616	29·212	13th	29·067	10th	81·1	77·6	89·7	−3·1	77·3	+1·3	83·5	−0·9	12·4	99·3	12th	74·9	17th
	Bareilly	568	29·103	−·050	29·632	29·205	13th	29·027	19th	80·4	77·1	87·7	−3·0	76·6	+0·9	82·2	−1·1	11·1	95·8	12th	72·4	17th
	Roorkee	899	28·787	−·040	29·649	28·882	13th	28·723	20th	79·5	75·3	88·3	−2·6	74·1	+0·8	81·2	−0·9	14·2	94·4	12th	68·4	19th
	VI.—Punjab.																					
11	Delhi	718	28·961	−·047	29·642	29·052	13th	28·873	10th	80·5	76·1	90·2	−2·5	77·0	−0·1	83·6	−1·3	13·2	98·9	11th	71·3	26th
	Hissar	725	28·950	−·044	29·635	29·026	13th	28·894	20th	81·6	75·2	94·3	−3·8	75·2	−0·7	84·8	−2·3	19·1	102·7	11th & 12th.	71·0	27th

* Mean of 29 days.

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 217 stations in India, etc., in September, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															III.—Bengal—*concld.*
20	0	0	0	7	2	1	0	0	S 29° E	S 32° E	2·6	2·3	+0·3	30	− 7	85	− 4	·949	−·043	7·4	+0·8	13	+ 1·0	13·25	8·90	+ 4·35	42·14	52·54	−10·40	5·92	Jessore.
17	1	0	2	3	3	1	1	2	S 16° E	S 18° E	1·4	2·2	−0·8	10	−12	88	+ 2	·956	+·012	7·0	+0·1	11	− 0·5	17·49	8·70	+ 8·79	56·67	49·09	+ 7·58	4·94	Burdwan.
11	0	1	5	4	6	2	1	0	S 23° E	S 19° E	2·5	2·7	−0·2	37	− 1	88	− 1	·951	−·024	6·8	−0·4	19	+ 7·1	17·24	10·08	+ 7·16	47·87	47·19	+ 0·68	3·60	Berhampore.
																															IV.—Bihar and Orissa.
17	2	2	0	0	2	6	0	1	S 58° W	S 59° W	1·3	2·6	−1·3	10	−12	89	+ 2	·960	+·011	5·4	+0·3	14	+ 0·7	8·53	12·23	− 3·70	35·19	48·96	−13·77	1·95	Balasore.
1	2	1	0	1	2	11	8	4	S 74° W		7·3			56	+19					6·2	−1·1	13	+ 0·6	11·93	10·38	+ 1·55	52·60	48·08	+ 4·52	3·88	Hukitala (False Point).
21	0	0	1	0	0	4	4	0	S 64° W	S 81° W	1·2	1·8	−0·6	23	− 7	82	− 1	·905	0	5·7	−0·4	11	− 1·4	4·91	10·09	− 5·18	46·90	49·62	− 2·72	1·36	Cuttack.
6	1	0	1	0	3	8	3	8	S 81° W		5·7			43		84	− 1	·950	−·008	6·2	+0·6	8	− 3·3	4·15	9·37	− 5·22	30·83	40·72	− 9·89	1·10	Puri.
9	1	1	1	1	2	1	2	12	N 38° W		2·9			37		84	− 2	·934	+·035	6·4	+1·9	11	+ 1·0	5·09	6·76	− 1·67	41·29	38·96	+ 2·43	1·65	Angul.
1	0	6	4	2	5	8	2	2	S 6° E	S	2·8	2·8	0	20	− 2	85	+ 3	·899	+·016	6·6	+0·7	11	− 0·5	6·95	9·02	− 2·07	64·91	60·66	+ 4·25	1·15	Sambalpur.
19	1	1	0	0	1	5	3	0	S 64° W	S 53° W	2·4	1·0	+1·4	23	0	83	− 3	·858	−·009	5·9	+0·3	7	− 4·6	5·41	8·82	− 3·41	29·53	44·67	−15·14	1·56	Chaibasa.
2	1	2	3	3	3	2	8	6	N 39° W	S 79° W	3·1	5·0	−1·9	24	+ 2	88	+ 4	·788	+·035	6·7	+0·6	11	− 1·2	8·78	9·52	− 0·74	39·82	49·05	− 9·23	2·70	Ranchi.
11	0	1	0	2	3	0	10	3	S 79° W		1·9			33		87	− 1	·909	+·020	6·2	+0·9	12	+ 0·6	9·23	10·61	− 1·38	37·51	44·30	− 6·79	1·99	Purulia.
15	1	2	4	4	0	2	1	1	S 79° E		3·1§			17		84	0	·859	+·008	3·9	−0·1	7	− 2·6	4·35	7·16	− 2·31	40·54	36·87	+ 3·67	2·23	Daltonganj.
4	0	4	8	5	3	5	1	0	S 54° E	N 88° E	2·6	2·2	+0·4	40	+ 2	91	+ 1	·867	+·009	6·2	+0·5	14	+ 3·0	15·46	12·72	+ 2·74	82·12	56·00	+26·12	4·86	Purnea.
2	0	1	10	7	2	5	3	0	S 42° E		6·7‡			47		87		·951		6·1		13		7·98			37·14			2·54	Monghyr.
15	0	7	6	0	0	2	0	0	N 69° E	S 76° E	4·1	2·8	+1·3	30	−20	85	− 2	·935	−·010	6·9	+1·8	13	+ 4·0	11·26	8·93	+ 2·33	48·13	45·25	+ 2·88	2·65	Darbhanga.
4	1	2	6	5	0	3	3	0	S 63° E*		2·6			23		87		·967		6·0		14		13·90			50·41			3·10	Pusa.
5	0	1	17	1	1	2	2	1	S 83° E	S 74° E	3·7	2·8	+0·9	46	+16	85	+ 2	·976	+·035	6·5	+0·5	15	+ 5·9	14·66	7·29	+ 7·37	48·12	41·91	+ 6·21	7·12	Patna.
1	3	1	9	4	2	6	4	0	S 39° E		3·4			23		88	+ 4	·939	+·029	6·0	+0·8	9	0	8·26	6·88	+ 1·38	42·66	35·94	+ 6·72	1·70	Buxar.
1	0	4	3	6	2	12	0	1	S 1° E	S 37° W	2·6	2·8	−0·2	39	+ 6	79	− 3	·915	+·021	3·2	−1·6	11	+ 1·6	11·38	7·79	+ 4·19	49·98	41·75	+ 8·23	4·00	Gaya.
19	0	1	4	4	2	0	0	0	S 61° E		1·9†			27		87	+ 2	·948	+·043	5·9	+0·4	9	− 3·7	13·24	9·49	+ 3·75	55·70	48·81	+ 6·89	3·30	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
9	0	4	12	2	0	0	3	0	N 84° E	N 63° E	2·6	1·5	+1·1	43	+17	87	+ 3	·922	+·009	3·7	−0·9	16	+ 7·3	14·90	7·81	+ 7·09	57·28	44·44	+12·84	3·03	Gorakhpur.
5	2	2	4	7	1	5	4	0	S 25° E	S 31° W	2·5	2·8	−0·3	23	+12	84	0	·932	+·023	5·4	+0·3	12	+ 3·5	8·87	6·64	+ 2·23	40·70	34·85	+ 5·85	2·90	Benares.
12	1	2	4	1	0	3	7	0	S 82° W	N 63° W	2·8	4·3	−1·5	10	− 5	78	− 3	·888	+·001	6·0	+0·5	7	− 0·5	7·47	5·39	+ 2·08	58·29	34·36	+23·93	2·58	Allahabad.
9	1	1	5	2	2	5	3	2	S 12° W	S 45° W	2·2	2·6	−0·4	13	+ 5	87	0	·929	+·063	2·3	−1·3	9	+ 2·4	5·56	6·27	− 0·71	47·16	32·49	+14·67	1·63	Cawnpore.
17	0	1	3	1	0	2	1	0	S 79° E	S 83° E	1·2	2·0	−0·8	23	+16	84	+ 3	·983	+·056	5·3	+0·9	11	+ 3·7	6·09	5·76	+ 0·33	39·50	34·41	+ 5·09	2·00	Lucknow.
9	0	0	3	7	1	2	2	1	S 53° E	S 68° E	2·0‡	2·3	−0·3	37	− 4	83	+ 1	·886	−·018	3·5	+0·2	10	+ 3·6	12·40	7·07	+ 5·33	37·73	39·98	− 2·25	3·90	Bahraich.
2	3	3	2	1	2	8	9	0	S 72° W	N 1° E	3·6	2·4	+1·2	33	− 2	81	+ 4	·828	+·014	4·8	+1·9	7	− 0·4	7·85	6·14	+ 1·71	42·90	34·90	+ 8·00	3·10	Jhansi.
5	1	4	5	3	3	5	3	1	S 33° E	S 59° W	3·4	3·3	+0·1	17	− 5	77	+ 3	·872	+·067	5·2	+1·7	6	+ 0·8	3·35	3·85	− 0·50	28·37	24·67	+ 4·20	0·87	Agra.
7	0	1	5	5	2	3	6	1	S 4° E	S 86° W	1·6	1·1	+0·5	21	+ 2	85	+ 6	·899	+·063	6·2	+2·0	6	+ 0·5	6·59	3·89	+ 2·70	32·53	23·37	+ 9·16	2·10	Mainpuri.
14	1	2	7	2	0	2	1	1	N 88° E	S 56° E	0·9	1·7	−0·8	22	− 4	86	+ 4	·887	+·038	5·0	+1·5	10	+ 3·4	18·45	6·90	+11·55	60·83	40·24	+20·59	5·52	Bareilly.
18	0	1	2	6	0	0	0	3	S 73° E	S 58° E	2·2	1·4	+0·8	17	+ 2	82	0	·821	+·032	3·6	+0·3	9	+ 3·6	7·52	5·69	+ 1·83	43·32	36·61	+ 6·71	2·48	Roorkee.
																															VI.—Punjab.
4	1	6	5	3	0	2	5	4	N 25° E	S 85° W	3·5	2·6	+0·9	20	− 9	82	+11	·844	+·084	4·8	+1·7	7	+ 2·6	6·08	4·40	+ 1·68	27·16	24·07	+ 3·09	2·10	Delhi.
4	1	1	9	4	2	2	5	2	S 56° E	S 59° W	3·8	3·6	+0·2	20	− 2	75	+ 9	·792	+0·60	4·1	+2·2	3	0	3·15	1·97	+ 1·18	19·77	11·76	+ 8·01	2·25	Hissar.

* 6 winds variable.
† Mean of 27 days.
‡ Mean of 26 days.
§ " " 28 "

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab—*concld.*																					
	Patiala	*818*	28·843	—·065?	29·623	28·929	13th	28·782	9th	80·6	76·1	90·2	—3·0	75·3	+0·8	82·7	—1·1	14·9	97·2	12th	72·0	26th
	Ambala	892	28·779	—·050	29·637	28·861	13th	28·715	10th	79·1	75·4	91·6	—1·3	74·1	+0·3	82·9	—0·5	17·5	97·9	11th	70·3	22nd, 23rd & 26th.
	Ludhiana	812	28·867	—·039	29·615	28·955	13th	28·798	1st	80·6	75·2	92·1	—2·2	75·8	+0·6	83·9	—0·8	16·3	98·5	12th	71·2	26th
	Lahore	702	28·956	—·049	29·625	29·054	27th	28·883	1st & 20th.	82·1	76·3	95·0	—3·3	75·8	+2·4	85·4	—0·5	19·2	100·9	12th	71·2	19th
	Sialkot	830	28·836	—·047	29·637	28·940	27th	28·753	1st	79·2	75·4	92·2	—3·0	73·5	—0·6?	82·9	—1·8?	18·7	98·1	12th	67·4	19th
	Rawalpindi	1,674	28·016	—·051	29·641	28·121	27th	27·925	1st	78·5	72·1	91·2	—2·3	69·8	+0·7	80·5	—0·8	21·4	97·1	12th	64·2	19th
12	Khushab	612	29·055	—·040	29·634	29·168	27th	28·970	1st	83·6	74·5	97·5	—1·4	77·5	+1·3	87·5	—0·1	20·0	103·6	12th & 13th.	71·2	5th
	Lyallpur	605	29·016		29·617	29·158	27th	28·958	1st	82·9	75·5	97·3		75·8		86·6		21·5	104·0	12th	70·5	24th
	Montgomery	558	29·095	—·050	29·617	29·196	27th	29·016	20th	83·9	75·5	98·6	—2·0	76·4	+0·3	87·5	—0·9	22·2	104·5	12th	71·0	23rd
	Multan	426	29·211	—·054	29·596	29·325	27th	29·133	1st	85·6	78·6	100·8	+0·3	79·1	+1·6	89·9	+0·9	21·7	108·5	13th	74·7	15th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·558	—·066	29·642	28·691	24th	28·483	19th	77·9	72·1	96·0	+0·4	71·2	+0·7	83·6	+0·5	24·8	109·0	13th & 14th.	65·1	25th
	Dera Ismail Khan	590	29·056	—·064	29·614	29·183	27th	28·953	1st	82·0	75·1	96·8	—3·0	76·7	+1·7	86·8	—0·7	20·1	104·0	13th	70·8	26th
	VIII.—Sind.																					
16	Jacobabad	186	29·463	—·052	29·607	29·558	27th	29·383	20th	85·4	77·7	103·2	—0·5	78·5	+2·3	90·8	+0·9	24·7	110·5	14th	70·8	27th
	Hyderabad	96	29·568	—·068	29·616	29·619	7th	29·489	20th	82·1	76·3	95·0	—2·4	77·3	+1·1	86·2	—0·7	17·7	102·0	14th	75·4	7th
	Karachi	13	29·695	—·070	29·659	29·754	6th	29·638	15th	81·4	77·5	87·1	+1·5	78·3	+2·5	82·7	+2·0	8·8	91·8	14th	75·1	16th
	IX.—Rajputana.																					
17	Bikaner	*771*	28·907	—·055	29·636	28·980	6th	28·863	20th	82·4	76·8	96·6	—1·5	77·1	—1·7	86·9	—1·6	19·5	106·0	13th	71·5	26th
	Jodhpur	780	28·910	—·081	29·645	28·989	6th	28·858	20th	80·7	74·7	92·1	—2·8	77·2	+1·7	84·6	—0·5	14·9	102·5	13th	73·8	29th
18	Jaipur	1,431	28·273	—·020	29·616	28·355	6th	28·233	19th & 20th.	79·9	73·9	90·7	—3·3	74·1	+0·6	82·4	—1·3	16·6	100·5	12th	70·1	4th
	Ajmer	1,611	28·093	—·080	29·641	28·183	6th	28·036	28th	77·9	73·2	87·3	—3·1	75·3	+1·2	81·3	—0·9	12·0	96·0	13th	70·8	6th & 7th
	Kotah	832	28·835	—·082	29·627	28·936	6th	28·752	26th	82·3	76·4	91·5	—1·0	77·3	+0·2	84·4	—0·4	14·2	99·4	12th	73·6	26th
	X.—Bombay.																					
19	Deesa	466	29·259	—·076	29·678	29·321	23rd	29·193	13th	80·4	77·1	92·5	—0·6	75·9	+1·8	84·2	+0·5	16·6	96·9	12th & 13th.	73·1	26th
	Bhuj	334	29·380	—·086	29·665	29·439	6th	29·275	14th	80·3	76·1	90·4	—1·6	76·1	+1·5	83·3	—0·1	14·3	97·0	28th	74·3	5th, 22th & 25th.
	Jamnagar	61	29·676	—·088	29·683	29·737	6th	29·579	14th	81·4		88·8	—0·6	74·9	+0·6	81·8	0.	13·9	90·7	2nd	72·1	25th
	Dwarka	37	29·703	—·087	29·686	29·762	23rd	29·614	14th	80·9	77·4	86·1	+0·9	78·8	+1·5	82·5	+1·2	7·3	88·1	26th	75·0	13th
	Rajkot	429	29·301	—·091	29·679	29·367	23rd	29·299	14th	79·1	76·3	90·5	—1·1	73·5	+1·3	82·0	+0·1	17·0	93·6	6th	69·6	30th
	Veraval	*18*	29·726	—·098	29·687	29·782	23rd	29·638	13th	80·1	77·6	83·2	—0·4	78·1	+1·8	80·7	+0·7	5·1	85·1	30th	75·8	12th & 25th.
	Bhavnagar Para	55	29·676	—·100	29·677	29·744	1st	29·602	12th & 13th.	81·3		92·1	—0·9	75·7	+0·6	83·9	—0·1	16·4	95·8	28th	72·8	30th
	Surat	39	29·708	—·097	29·690	29·774	23rd	29·622	12th	80·8	77·3	88·3	—0·3	76·1	+0·4	82·2	+0·1	12·2	92·9	5th & 10th	71·3	27th
	Ahmadabad	163	29·574	—·085	29·686	29·650	1st	29·499	12th	81·5	77·4	93·7	+1·4	77·2	+1·1	85·5	+1·3	16·5	98·6	12th	74·0	30th
25	Bombay	37	29·739	—·096	29·715	29·799	23rd	29·630	12th	79·2	77·0	84·9	+0·2	77·4	+0·7	81·2	+0·5	7·5	89·8	3rd	75·5	6th
	Ratnagiri	207	29·583	—·087	29·731	29·644	28th	29·496	12th	78·1	75·6	82·8	—1·3	74·5	0	78·7	—0·7	8·3	88·3	3rd	71·1	29th
	Marmagao	*60*	29·752	—·093	29·747	29·807	23rd	29·678	12th	77·7	76·8	83·0	—0·2	74·4	—0·8	78·7	—0·5	8·6	88·2	3rd	72·3	19th
	Karwar	41	29·796	—·051	29·775	29·854	23rd	29·715	12th	76·5	74·9	82·1	—0·5	74·1	+0·1	78·1	—0·2	3·0	86·5	2nd	71·2	29th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 217 stations in India, etc., in September, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															VI.—Punjab—*concld.*
6	2	2	10	1	3	3	1	2	S 83° E		4·3			27		·81	+ 5	·843	+ ·034	3·0	+0·7	9	+4·8	3·42	3·84	−0·42	24·65	20·48	+4·17	1·05	Patiala.
14	2	0	7	7	0	0	0	0	S 76° E	S 39° W	2·3	1·1	+1·2	40	+14	·84	+ 3	·835	+ ·039	3·9	+0·9	6	+1·5	4·42	3·99	+0·43	29·88	24·05	+5·41	1·95	Ambala.
26	1	1	0	2	0	0	0	0	N 81° E	S 20° E	0·9	1·0	−0·1	7	− 5	·77	+ 1	·799	+ ·031	1·3	−1·4	5	+1·2	6·47	3·93	+2·54	26·86	23·04	+3·82	3·26	Ludhiana.
14	0	3	2	4	5	1	1	0	S 39° E	S 34° E	1·2	1·5	−0·3	37	+12	·76	+ 6	·833	+ ·074	2·7	+1·1	2	−0·5	0·97	2·47	−1·50	23·45	15·77	+7·68	0·68	Lahore.
14	2	3	5	3	0	2	1	0	N 85° E	N 76° E	1·4	1·3	+0·2	28	−18	83	+11	·828	+ ·075	2·2	+0·1	4	+0·2	3·94	3·61	+0·33	30·72	24·52	+6·20	1·96	Sialkot.
0	3	5	6	5	2	3	5	1	S 85° E	N 56° E	1·8	1·1	+0·7	17	+ 2	·73	+ 4	·706	+ ·047	2·4	+0·3	5	+0·7	2·87	3·43	−0·56	40·40	23·83	+16·57	1·16	Rawalpindi.
9	0	10	10	1	0	0	0	0	N 71° E	N 65° E	6·0	3·9	+2·1	62	+ 6	65	+ 3	·739	+ ·038	2·3	+1·0	1	−1·1	0·76	1·36	−0·60	11·53	10·35	+1·18	0·58	Khushab.
8	1	1	2	13	4	0	0	1	S 46° E		1·7			49		70		·787		2·6		2	0	0·59	2·17	−1·58	9·03	10·11	−1·08	0·37	Lyallpur.
2	3	7	5	2	7	3	0	1	S 77° E	S 4° W	4·6	5·0	−0·4	30	−14	67	+10	·776	+ ·089	1·7	+0·6	0	−1·7	0	1·34	−1·34	9·46	8·20	+1·26	0	Montgomery.
23	5	0	0	0	1	1	0	0	N 12° W	S 5° W	1·3	1·9	−0·6	10	−31	72	+ 7	·880	+ ·128	1·6	+0·9	0	−0·6	0·03	0·36	−0·33	4·30	5·02	−0·72	0·03	Multan.
																															VII.—North-West Frontier Province.
25	5	0	0	0	0	0	0	0	N	N 34° W	0·7	2·0	−1·3	17	−13	74	+10	·714	+ ·066	0·5	−0·9	1	−0·5	0·03	0·75	+0·18	13·85	5·50	+8·35	0·85	Peshawar.
18	2	6	0	3	1	0	0	0	N 64° E	N 67° E	1·3	1·3	0	23	− 7	71	+ 2	·727	+ ·030	1·6	+0·8	1	+0·1	1·00	0·59	+0·41	7·43	6·05	+1·38	1·00	Dera Ismail Khan.
																															VIII.—Sind.
26	0	0	0	3	0	1	0	0	S 27° E	S 48° E	1·7	2·1	−0·4	10	−38	70	− 1	·837	+ ·031	0·5	−0·1	1	+0·8	0·87	0·08	+0·79	3·73	2·40	+1·33	0·87	Jacobabad.
1	2	0	0	1	13	12	1	0	S 23° W	S 39° W	5·9	9·9	−4·0	72	− 2	76	+ 8	·823	+ ·097	1·4	−0·1	2	+1·4	1·80	0·48	+1·32	13·60	6·24	+7·36	1·70	Hyderabad.
2	0	0	0	1	0	2	15	10	N 77° W	S 77° W	9·0	10·7	−1·7	76	− 5	83	+ 1	·890	+ ·043	4·7	−0·1	1	+0·4	1·30	0·14	+0·86	21·67	6·10	+15·43	1·22	Karachi.
																															IX.—Rajputana.
3	1	2	3	1	1	6	9	4	S 86° W	S 46° W	4·7	5·0	−0·3	37	−23	77	+12	·845	+ ·103	3·0	+0·9	5	+3·0	2·65	1·26	+1·39	19·16	10·20	+8·96	1·13	Bikaner.
2	1	2	1	0	4	12	7	1	S 56° W		3·0			58		75	+ 6	·777	+ ·055	5·3	+1·0	7	+4·5	11·01	2·40	+8·61	25·75	12·40	+13·35	3·90	Jodhpur.
2	3	2	5	0	6	4	6	8	N 46° W	N 68° W	3·4	3·1	+0·3	38	− 8	75	+ 5	·758	+ ·039	5·1	+1·4	7	+2·4	3·79	3·42	+0·37	22·03	22·18	−0·15	1·19	Jaipur.
9	0	3	1	0	1	5	5	6	N 72° W	S 80° W	2·2	4·1	−1·7	33	−34	80	+ 4	·757	+ ·015	5·1	+1·5	7	+3·1	6·28	2·57	+3·71	26·20	19·38	+6·82	3·20	Ajmer.
6	2	1	0	2	0	3	1	10	N 77° W		2·8			37		76	+ 3	·824	+ ·084	4·7	+1·6	8	+2·4	5·25	5·04	+0·21	43·64	26·52	+17·12	2·54	Kotah.
																															X.—Bombay.
4	1	2	1	0	1	6	2	13	N 64° W	S 79° W	4·4	6·1	−1·7	46	−13	86	+10	·886	+ ·105	6·2	+1·3	7	+3·5	5·51	3·62	+1·89	25·07	23·35	+1·72	1·75	Deesa.
1	3	0	0	0	0	5	17	4	N 84° W	N 87° W	5·9	8·9	−3·0	76	− 2	82	+ 4	·839	+ ·033	6·7	+2·0	5	+2·9	2·01	1·83	+0·18	12·92	13·37	−0·45	0·61	Bhuj.
10	0	1	1	0	3	7	5	3	S 64° W		5·8			38		85	+ 2	·910	+ ·089	6·5	+3·5	4	+2·1	5·35	2·03	+3·32	23·80	18·85	+4·95	2·38	Jamnagar.
0	2	0	0	0	3	10	11	4	S 76° W		8·1			69		85	+ 4	·887	+ ·016	5·9	+1·5	5	+3·7	1·96	1·01	+0·95	11·10	13·66	−2·56	0·68	Dwarka.
0	1	1	0	0	4	10	9	5	S 73° W	N 87° W	6·9	6·6	+0·3	66	− 8	87	+ 1	·864	+ ·065	5·5	+0·6	7	+2·2	5·08	3·68	+1·40	24·20	25·62	−1·42	1·39	Rajkot.
8	3	1	0	1	1	6	6	4	N 87° W	N 86° W	7·1	5·8	+1·3	40	−15	89	+ 7	·909	+ ·043	5·3	0	10	+6·6	8·36	1·80	+6·56	23·55	17·11	+6·44	2·32	Veraval.
1	3	1	0	0	0	9	8	8	N 81° W	S 63° W	4·4	7·9	−3·5	65	− 8	85	+ 7	·908	+ ·082	6·3	+1·1	8	+2·3	3·88	3·65	+0·23	19·43	19·73	−0·30	1·29	Bhavnagar Para.
12	2	0	0	3	5	3	2	3	S 39° W	S 78° W	2·4	5·0	−2·6	23	−29	85	+ 8	·890	+ ·033	6·9	+1·2	11	+4·0	13·28	6·05	+7·23	53·16	39·30	+13·86	4·15	Surat.
3	1	0	0	3	2	5	3	13	N 86° W	N 68° W	3·6	2·8	+0·8	43	−14	82	+ 4	·887	+ ·080	5·7	0	7	+2·7	3·24	3·62	−0·38	24·37	28·85	−4·48	1·35	Ahmadabad.
0	0	2	6	9	3	2	5	3	S 36° E	S 56° W	5·5	7·9	−2·4	30	+15	90	+ 3	·898	+ ·016	8·5	+1·2	18	+5·0	14·59	10·84	+3·75	80·38	69·39	+10·99	3·24	Bombay.
1	2	1	1	10	4	4	5	2	S 3° W	S 73° W	5·6	5·0	+0·6	33	+28	89	+ 2	·851	− ·005	8·0	+1·7	19	+3·7	27·79	11·97	+15·82	157·24	95·67	+40·57	5·94	Ratnagiri.
3	2	0	5	3	6	1	7	3	S 0° W	N 54° W	5·2	5·4	−0·2	20	−23	96	+ 5	·808	+ ·018	8·7	+2·3	25	+9·7	26·37	8·56	+17·81	116·92	87·88	+28·44	4·42	Marmagao.
19	0	1	0	2	2	4	0	2	S 25° W	N 25° W	1·8	2·1	−0·5	17	−17	98	+ 4	·848	+ ·020	8·4	+2·4	26	+10·2	36·05	11·85	+24·20	130·50	114·31	+16·19	4·02	Karwar.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay *—concld.*																					
26	Malegaon	1,430	28·323	—·075	29·693	28·387	2nd	28·261	11th & 20th	77·4	73·4	89·9	+1·7	72·0	+1·8	81·0	+1·7	17·9	98·4	2nd	69·1	30th
	Ahmadnagar	2,154	27·633	—·076	29·699	27·692	1st	27·559	11th	74·4	70·5	85·5	—0·1	68·5	+0·6	77·0	+0·3	17·0	93·1	2nd	62·9	30th
	Poona	1,846	27·940	—·076	29·722	28·012	1st	27·846	12th	74·0	71·3	84·5	+0·1	69·9	+1·3	77·2	+0·7	14·6	94·2	3rd	64·7	29th
	Sholapur	1,590	28·177	—·083?	29·702	28·236	1st	28·087	10th	75·2	71·6	87·1	—1·2	71·2	+0·6	79·1	—0·3	15·9	95·0	1st	68·6	25th & 26th
	Bijapur	*1,948*	27·841	—·074	29·713	27·893	28th	27·747	12th	74·2	70·2	85·6	—1·1	69·4	—0·3	77·5	—0·7	16·2	92·3	2nd	64·6	29th
	Belgaum	2,562	27·287	—·055?	29·762?	27·343	28th	27·209	12th	69·6	68·4	78·3	—0·7	65·6	+0·3	71·9	—0·2	12·7	88·0	2nd	59·5	29th
	XI.—Central India.																					
20	Neemuch	1,626	28·099	—·072	29·660	28·182	6th	27·985	26th	77·4	73·4	87·5	—0·4	72·7	+1·8	80·1	+0·7	14·8	94·7	11th	70·8	4th, 21st & 30th
	Indore	1,823	27·911	—·078	29·664	27·993	1st & 2nd	27·791	26th	76·8	73·3	86·9	+1·8	71·5	+1·5	79·2	+1·7	15·4	93·4	11th	69·3	30th
21	Nowgong	754	28·921	—·068	29·(29	29·014	6th	28·805	25th	79·3	76·2	88·1	—1·8	75·8	+0·6	81·9	—0·5	12·3	94·0	10th	73·2	25th
	Sutna	1,041	28·532	—·058	29·622	28·715	6th	28·461	24th	80·2	75·8	87·0	—0·9	75·8	+1·1	81·4	+0·1	11·2	92·8	10th & 12th	72·0	26th
	XII.—Central Provinces.																					
22	Buldana	2,134								74·2	71·2	84·0	+0·9	70·4	+1·1	77·2	+1·0	13·6	88·4	8th	67·9	25th
	Akola	925	28·798	—·079	29·670	28·880	2nd	28·700	20th	78·2	74·4	88·5	—0·5	73·9	+1·2	81·2	+0·3	14·6	95·2	8th	70·5	25th
	Amraoti	1,215	28·509	—·067	29·670	28·610	2nd	28·404	20th	77·4	73·9	87·2	—1·0	73·4	+1·3	80·3	+0·1	13·8	92·8	8th	68·6	25th
23	Khandwa	1,044	28·677	—·078	29·672	28·772	1st	28·585	26th	77·3	74·1	89·0	+1·0	74·3	+1·2	81·7	+1·1	14·7	94·4	7th	70·1	28th
	Hoshangabad	1,006	28·708	—·065	29·660	28·813	1st	28·537	25th	79·5	75·7	87·8	+0·4	74·5	+1·4	81·1	+0·9	13·3	94·1	12th	72·0	27th
	Saugor	1,807	27·891	—·083?	29·626	27·957	6th	27·709	25th	76·9	73·0	86·6	+0·4	72·2	+0·7	79·4	+0·5	14·4	92·8	10th & 11th	68·8	25th & 30th
	Jubbulpore	1,327	28·354	—·075	29·621	28·456	2nd	28·137	24th	78·1	74·3	86·8	—0·3	74·1	+1·4	80·4	+0·5	12·7	92·9	10th & 11th	70·3	25th
	Seoni	2,033	27·693	—·055	29·645	27·800	2nd	27·507	25th	76·3	72·8	83·8	—1·5	69·0	—1·5	76·4	—1·5	14·8	90·0	9th & 10th	64·9	24th & 25th
	Nagpur	1,017	28·692	—·061	29·655	28·806	2nd	28·563	25th	78·2	74·8	88·3	—0·7	73·9	+0·1	81·1	—0·3	14·4	94·6	10th	68·8	25th
24	Pendra	2,040	27·682	—·038	29·646	27·795	2nd	27·438	24th	75·8	73·0	84·3	—0·3	71·2	0	77·7	—0·1	13·1	88·4	8th	66·0	25th
	Raipur	970	28·727	—·056	29·641	28·846	2nd	28·589	24th	78·9	76·3	88·3	+0·3	75·3	+0·6	81·8	+0·5	13·0	92·8	10th	70·6	24th
	Chanda	*634*	29·074	—·085?	29·653	29·173	1st	28·963	21st	79·5	76·6	88·6	—0·3	74·9	+0·6	81·8	+0·1	13·7	91·9	9th	72·4	25th
	Jagdalpur	1,813	27·919		29·650	28·042	1st	27·769	21st	76·7	73·7	85·8		71·6		78·7		14·2	89·4	8th	68·4	25th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·869	—·075	29·70[illegible]	27·926	2nd	27·787	10th	75·2	71·6	85·6	—0·5	70·1	+1·4	77·8	+0·5	15·5	92·9	3rd	67·0	29th
	Nizamabad	1,248	28·492	?	29·679	28·571	1st	28·287	11th	77·3	73·2	88·8	+2·0?	73·1	+0·6	80·9	+1·3?	15·7	94·1	3rd	70·8	20th
	Bidar	*2,165*								74·1	71·5	84·4	+0·5	69·7	+2·2?	77·0	+1·3?	14·7	90·5	3rd	63·9	29th
28	Gulbarga	1,503	28·268	—·071	29·710	28·325	2nd	28·183	11th	74·3	71·1	88·9	+1·1	71·7	+0·5	80·3	+0·8	17·2	97·0	3rd & 5th	68·5	26th
	Raichur	*1,311*	28·480	—·051	29·730	28·548	28th	28·360	11th	76·6	72·6	88·3	+0·1	72·8	+0·4	80·5	+0·3	15·5	93·8	2nd & 3rd	70·0	25th
	Hyderabad (Deccan)	1,719	28·051	—·058	29·699	28·138	2nd	27·955	11th	75·2	72·9	86·6	+0·6	72·1	0	79·4	+0·3	14·5	93·8	5th	69·7	25th
	Hanamkonda	877	28·863	—·055	29·680	28·967	1st & 2nd	28·750	21st	79·7	75·1	88·2	+0·3	75·5	+0·9	81·9	+0·6	12·7	93·5	5th	71·7	18th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·435	—·058	29·746	27·493	28th	27·352	11th	72·0	68·1	83·9	+0·5	68·1	+0·8	76·0	+0·7	15·8	92·1	2nd	66·0	29th
	Hassan	3,149	26·748	—·053	29·763	26·795	27th	26·670	10th	69·3	66·7	79·2	—1·3	65·0	+0·7	72·1	—0·3	14·2	84·4	3rd	59·1	29th
	Bangalore	3,021	26·864	—·057	29·757	26·920	28th	26·773	10th	69·3	66·9	81·5	—0·4	65·8	+0·4	73·6	0	15·7	84·5	1st & 3rd	61·8	29th
	Mysore	2,518	27·353	—·062	29·773	27·402	27th	27·265	10th	71·4	68·0	81·9	—2·1	66·4	+0·1	74·2	—1·0	15·5	86·0	8th	61·5	28th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 217 stations in India, etc., in September, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															X.—Bombay —*concld.*
5	2	1	0	2	3	13	2	2	S 48° W	N 87° W	4·7	6·6	−1·9	46	−24	82	+ 6	·773	+·067	5·7	+1·0	11	+3·2	7·44	6·10	+1·34	23·72	19·76	+3·96	2·07	Malegaon.
1	2	1	0	1	1	4	7	13	N 68° W	N 70° W	4·1	9·1	−5·0	59	−30	82	+ 2	·694	+·021	3·7	−1·7	11	+2·5	7·24	6·72	+0·52	25·88	18·61	+7·27	1·94	Ahmadnagar.
0	1	0	1	0	0	7	18	8	S 86° W	N 87° W	6·5	8·1	−1·6	79	+ 9	88	+ 7	·729	+·051	5·0	−1·9	10	+2·6	7·66	4·71	+2·95	22·50	21·59	+0·91	1·86	Poona.
5	0	0	0	1	1	4	7	12	N 78° W	N 68° W	6·0	6·1	−0·1	56	−11	84	+ 7	·729	+·054	8·4	+1·4	16	+6·7	12·21	8·40	+3·81	23·99	23·87	+10·12	2·24	Sholapur.
5	1	0	0	0	5	7	9	3	S 67° W	N 87° W	5·4	5·3	+0·1	56	−19	81	0	·686	0	5·1	−1·2	9	−0·1	7·43	6·26	+1·17	20·40	15·52	+4·88	2·13	Bijapur.
13	0	0	0	0	0	6	11	0	S 75° W	N 81° W	6·9	11·5	−4·6	53	−17	91	+ 5	·679	+·019	8·4	+0·9	10	+1·1	6·28	4·59	+1·69	39·16	40·62	−1·46	1·57	Belgaum.
																															XI.—Central India.
5	0	1	9	0	0	3	11	0	S 67° W	N 89° W	5·0	6·4	−1·4	11	−44	83	+ 3	·774	+·033	5·8	+1·8	8	+1·4	5·18	5·07	+0·11	37·39	27·33	+10·06	1·79	Neemuch.
3	5	0	0	1	1	1	9	10	N 59° W	N 60° W	5·0	3·0	+2·0	62	+10	85	0	·779	+·038	6·3	−0·3	9	+0·4	6·28	7·05	−0·77	39·72	30·67	+9·05	3·05	Indore.
4	1	1	7	2	3	3	8	1	S 23° W	N 83° W	2·3	1·7	+0·6	17	−22	86	+ 3	·860	+·030	5·6	+0·5	6	−1·1	4·15	6·06	−1·91	41·71	39·77	+1·94	1·35	Nowgong.
6	4	0	4	3	3	7	3	0	S 16° W	N 69° W	3·2	4·5	−1·3	20	−18	82	0	·849	+·021	4·8	−0·6	8	−0·8	8·13	6·82	+1·31	49·40	39·21	+10·19	2·66	Satna.
																															XII.—Central Provinces.
0	1	1	1	0	1	4	12	10	N 76° W		5·2	5·9	−0·7	67		86		·730		6·9		13	+3·8	6·48	7·35	−0·87	45·83	30·73	+15·10	1·58	Buldana.
2	2	1	0	1	0	6	10	8	N 77° W	N 69° W	4·0	4·7	−0·7	49	−25	83	+ 3	·796	+·038	8·2	+2·0	12	+3·6	10·99	5·95	+5·04	39·05	28·50	+10·55	1·74	Akola.
9	1	2	0	0	1	2	8	7	N 68° W	S 88° W	7·1	3·9	+3·2	46	−13	85	+ 2	·792	+·027	6·9	+0·9	15	+6·8	13·99	6·06	+7·93	41·12	29·61	+11·51	3·05	Amraoti.
2	3	0	0	0	3	2	11	9	N 75° W	N 79° W	4·6	4·7	−0·1	62	−16	86	+ 4	·800	+·047	4·9	−0·4	7	−0·5	8·48	6·45	+2·03	35·32	27·55	+7·77	2·72	Khandwa.
10	0	0	0	1	0	17	0	2	S 48° W	S 51° W	2·0	1·9	+0·1	56	+ 8	84	− 2	·838	+·039	5·4	−0·7	9	−1·0	6·93	9·06	−2·13	53·39	45·86	+7·53	1·80	Hoshangabad.
2	2	2	1	3	2	3	10	5	N 86° W	S 80° W	4·6	3·2	+1·4	37	− 7	83	+ 1	·763	+·019	5·7	+0·8	11	+1·5	5·35	7·32	+1·04	37·17	42·64	−5·47	2·75	Saugor.
3	0	0	2	8	4	5	5	3	S 15° W	S 66° W	2·2	2·2	0	37	+ 4	83	− 2	·801	+ 007	5·5	0	10	0	8·53	7·86	+0·67	43·57	51·02	−7·46	3·65	Jubbulpore.
15	1	2	0	2	3	3	3	2	S 53° W	N 53° W	2·5	2·8	−0·3	17	−13	81	+ 1	·758	+·015	5·4	+0·5	15	+3·8	13·73	9·14	+4·59	51·56	47·32	+4·24	5·28	Seoni.
5	5	0	1	1	1	3	5	8	N 59° W	N 72° W	4·0	3·9	+0·1	43	+10	85	+ 4	·816	+·030	5·8	−0·2	18	+7·9	9·12	8·57	+0·55	47·34	44·17	+3·17	2·13	Nagpur.
16	1	0	0	2	5	2	0	3	S 15° W		3·0			17		87	+ 4	·772	+·031	4·4	−0·9	11	+0·9	7·46	5·88	+1·58	46·86	43·15	+3·71	1·57	Pendra.
0	1	1	3	1	5	9	8	2	S 52° W	S 63° W	3·4	4·3	−0·9	46	+12	88	+ 4	·868	+·039	5·1	−0·7	11	+0·5	5·57	7·82	−2·25	34·44	45·15	−10·71	1·14	Raipur.
1	1	2	1	1	2	7	8	7	S 89° W	N 79° W	2·9	2·9	0	49	+25	87	+ 5	·880	+·062	6·3	+0·4	13	+1·8	8·61	9·83	−1·22	51·43	48·31	+3·12	1·53	Chanda.
0	3	0	1	0	11	3	12	0	S 52° W		2·6			56		87		·793		7·5		17		9·47			41·24			1·70	Jagdalpur.
																															XIII.—Hyderabad.
2	1	0	2	2	2	4	11	6	S 86° W		6·3			49		83	+ 5	·731	+·045	7·1	+1·3	14	+5·1	12·72	7·09	+5·63	43·05	24·96	+18·09	2·13	Aurangabad.
5	4	1	0	0	3	6	7	4	N 89° W		3·2			44		82	+ 1	·760	0	7·4	+1·1	11	+1·1	7·93	10·09	−2·16	33·56	36·35	−2·79	2·15	Nizamabad.
1	0	1	0	0	1	17	5	5	S 66° W		3·2			73		86	+ 3	·738	+·035	8·0	+3·1	15	+3·8	16·10	9·75	+6·35	40·13	30·87	+9·26	3·01	Bidar.
1	1	0	1	0	3	6	14	4	S 80° W	N 54° W	4·5	7·9	−3·4	66	+ 8	85	+ 5	·721	+ 010	8·0	+1·7	12	+0·5	8·96	8·56	+0·40	31·73	27·54	+4·19	1·67	Gulbarga.
0	0	0	0	1	2	10	10	7	S 78° W	S 89° W	7·1	7·1	0	69	0	82	+ 4	·751	+·040	4·9	−0·6	11	+0·2	7·81	7·62	+0·19	28·34	23·06	+5·28	3·20	Raichur.
6	0	0	0	0	0	7	8	9	N 86° W	N 83° W	3·4	4·1	−0·7	62	− 5	89	+ 8	·775	+·051	8·0	+1·7	16	+6·8	13·36	6·92	+6·44	36·78	24·88	+11·90	1·87	Hyderabad (Deccan).
3	1	0	0	4	5	3	8	8	S 68° W		3·0			40		80	+ 3	·805	+·034	7·1	+1·2	13	+3·7	10·63	7·28	+3·35	37·29	30·11	+7·18	3·05	Hanamkonda.
																															XIV.—Mysore.
2	0	0	0	0	0	12	13	3	S 75° W	S 80° W	6·5	8·4	+0·1	79	− 7	82	0	·640	−·005	8·1	+0·3	5	−2·4	1·86	4·09	−2·23	15·50	16·93	−1·43	0·61	Chitaldrug.
2	0	0	0	1	0	10	14	3	S 75° W	N 79° W	6·8	2·6	+4·2	80	+ 4	88	+ 5	·628	+·011	6·9	−1·0	9	+1·3	4·69	3·95	+0·74	29·30	22·68	+6·62	1·32	Hassan.
0	0	0	1	0	1	8	18	2	S 78° W	S 82° W	7·3	5·1	+2·2	79	− 2	87	+ 1	·628	0	9·1	+1·1	7	−2·4	3·72	6·76	−3·04	35·18	23·68	+11·55	1·20	Bangalore.
2	0	0	1	0	0	10	12	5	S 81° W	S 74° W	6·6	7·3	−0·7	69	− 2	84	+ 2	·642	+·001	6·9	−0·9	10	+2·1	8·61	4·59	+4·02	28·31	18·60	+9·71	1·68	Mysore.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hours dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·784	—·076	29·788	29·839	28th	29·704	10th	77·2	74·9	83·6	—0·3	73·8	+0·4	78·7	+0·1	9·8	87·0	2nd	71·4	14th
	Calicut	27	29·841	—·060	29·797	29·898	26th	29·776	10th	77·1	75·5	82·4	—1·4	74·8	+0·6	78·6	—0·4	7·6	85·6	30th	73·1	27th
	Cochin	9	29·868	—·062	29·805	29·917	26th	29·807	10th	78·6	75·2	84·8	—0·1	74·6	+0·1	79·7	0	10·2	87·4	30th	72·9	3rd
	Trivandrum	198	29·682	—·050	29·812	29·739	25th	29·619	11th	77·3	74·0	82·6	—0·2	73·6	—1·5	78·1	—0·9	9·0	87·2	2nd	71·6	12th
31	Pamban	37	29·779	—·065	29·744	29·834	26th	29·688	9th	81·4	76·8	87·3	—2·3	78·6	+0·3	82·9	—1·0	8·7	89·2	10th	77·5	7th & 14th
	Madura	447	29·367	—·060	29·745	29·122	26th	29·291	11th	80·7	74·2	92·1	—3·0	75·8	+0·6	83·9	—1·2	16·3	96·9	8th	73·4	15th
	Pudukkottai	318	29·508	—·032?	29·757?	29·556	2nd	29·420	10th	81·1	73·9	92·3	—2·1	75·2	—0·4	83·7	—1·3	17·1	96·6	30th	72·4	26th
	Negapatam	31	29·780	—·056	29·740	29·836	2nd	29·690	10th	81·4	78·1	91·4	—1·3	76·4	—0·3	83·9	—0·8	15·0	95·3	30th	73·9	19th
	Trichinopoly	255	29·561	—·057	29·748	29·617	26th	29·465	11th	80·5	74·1	92·1	—3·1	76·1	+0·3	83·1	—1·4	15·0	97·1	28th	72·2	3rd
	Coimbatore	1,341	28·503	—·041	29·776	28·558	28th	28·418	10th	76·2	71·3	86·7	—2·4	71·1	+0·4	78·9	—1·0	15·6	88·6	27th	66·9	29th
	Salem	918	28·913	—·019	29·762	28·968	27th	28·821	10th	77·5	73·3	89·2	—2·3	72·7	+0·4	80·9	—0·9	16·5	93·0	29th	70·1	3rd
	Cuddalore	37	29·757	—·061	29·724	29·823	2nd	29·657	10th	81·8	75·9	92·4	+0·2	77·2	+1·0	84·8	+0·6	15·2	96·6	29th	74·3	14th
	Vellore	707	29·095	—·050	29·738	29·164	27th	28·994	10th	79·4	75·1	90·2	—1·3	73·7	—1·9	81·9	—1·6	16·5	94·3	5th	71·0	16th
	Madras	22	29·759	—·063	29·713	29·845	2nd	29·660	10th	82·9	77·3	93·5	+0·5	78·0	+0·9	85·8	+0·7	15·5	99·5	5th	74·5	6th
32	Cuddapah	428	29·361	—·065	29·725	29·430	27th & 29th	29·264	9th	80·7	75·6	91·7	—1·5	75·6	—0·4	83·6	—0·9	16·1	98·0	4th	70·7	9th
	Bellary	1,475	28·324	—·062	29·730	29·385	24th	28·220	10th	77·5	71·1	90·2	—0·4	72·3	+0·6	81·2	—0·5	17·9	97·3	2nd	68·5	30th
	Kurnool	923	28·869	—·045	29·733	28·935	27th	28·773	10th	77·4	72·4	89·3	—0·3	74·5	+1·1	81·9	+0·4	14·8	96·0	4th	71·6	25th
33	Nellore	66	29·694	—·064	29·695	29·774	27th	29·601	9th	81·8	76·5	92·1	—2·5	77·8	+0·1	84·9	—1·2	14·3	98·6	5th	73·1	5th
	Masulipatam	15	29·734	—·058	29·684	29·855	2nd	29·627	10th	81·9	77·8	89·9	—0·9	78·0	+0·4	83·9	—0·3	11·9	95·3	29th	75·1	17th
	Cocanada	26	29·716	—·042	29·679	29·865	1st	29·572	21st	82·4	78·6	89·9	+0·1	78·8	0	84·1	+0·1	11·6	94·6	8th	76·1	15th
	Waltair (Vizagapatam)	*226*	29·493	—·047	29·659	29·647	2nd	29·281	21st	82·4	78·3	88·7	+0·2	78·1	+0·2	83·4	+0·2	10·6	94·5	24th	75·7	14th
	Calingapatam	19	29·691		29·648	29·840	2nd	29·478	21st	82·9	79·4	91·1		76·5		84·8		12·6	93·7	24th	75·8	1st & 17th.
	Gopalpur	33	29·669	—·046	29·612	29·804	2nd	29·439	21st	82·3	78·9	89·3	+1·1	79·9	+1·5	84·6	+1·3	9·4	93·9	30th	77·7	14th & 17th.
	Bay Islands.																					
1	P. V. Fraser	8	29·682		29·639	29·817	13th	29·170	21st	83·7	80·2											
	Port Blair	58	29·749	—·072	29·737	29·863	1st	29·677	19th	80·8	77·6	84·4	—0·5	76·7	+0·1	80·5	—0·2	7·7	88·0	6th & 7th	73·1	25th
	Table Island		29·697	—·048?	29·728	29·835	1st	29·571	20th	80·8	77·9	85·1	+0·6	76·3	—0·5	80·7	+0·1	8·8	88·1	6th & 7th	64·6	20th
	Kashmir.																					
13	Muzaffarabad		27·348			27·463	27th	27·271	1st	71·7	66·0	90·0		65·9		77·9		24·1	95·0	29th	61·9	22nd, 25th & 26th.
	Srinagar	5,204	24·791	—·054	24·762	24·887	27th	24·702	1st	62·6	58·7	81·1	+1·7	55·7	+1·7	68·4	+1·7	25·4	86·9	14th	48·5	21st
	Gulmarg	*8,569*	21·825	—·051	21·793	21·913	13th	21·747	18th	57·4	52·0	65·9	+2·7	43·3	+0·3	54·6	+1·5	22·6	71·5	12th & 13th.	37·8	29th
	Dras	*10,040*	20·784	—·027	20·752	20·864	27th	20·680	4th.	50·4	48·9	68·9	—1·5	42·4	+2·9	55·7	+0·7	26·5	76·1	13th	35·3	21st
	Leh	*11,505*	19·709	—·031	19·677	19·793	12th	19·615	6th	56·2	44·0	71·0	+0·7	41·7	+0·1	56·4	+0·4	29·3	77·8	14th	35·2	29th
	Skardu	*7,505*	22·767	—·057	22·757	22·886	21st	22·675	18th	60·3	50·4	79·1	+1·6	54·5	+0·7	66·8	+1·1	24·6	90·7	14th	44·3	21st
	Gilgit	4,880	25·010	—·047	24·983	25·135	27th	24·867	1st	72·7	62·3	88·6	+1·5	62·5	—1·8	75·5	—0·1	26·1	97·2	13th	55·7	21st

N.B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea level, in the case of

B—*continued.*

at 217 stations in India, etc., in September, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																														XV.—Madras.
3	3	8	3	2	0	4	2	N 70° E	N 52° E	4·0	1·6	+2·4	23	+12	90	+ 3	·838	+·005	7·4	−0·1	13	+2·1	15·91	10·77	+ 5·17	108·09	115·22	− 7·13	2·96	Mangalore.
2	2	2	1	1	1	3	6	N 32° W	N 30° W	3·8	5·2	−1·4	23	−10	92	+ 3	·858	+·024	8·3	+1·8	17	+5·3	11·27	7·21	+ 4·06	93·21	96·44	+ 1·77	1·37	Calicut.
5	5	8	0	2	2	5		E	N 5° E	4·9	3·7	+1·2	24	−17	85	0	·830	−·009	7·4	+1·1	19	+5·1	15·68	8·71	+ 6·97	93·21	84·20	+ 9·01	2·70	Cochin.
1	1	0	1	0	0	0	21	N 39° W	N 16° W	5·7	5·9	−0·2	79	− 2	85	+ 2	·792	−·006	9·1	+2·2	15	+7·4	9·89	3·83	+ 6·06	38·51	36·72	+ 1·82	2·32	Trivandrum.
1	0	1	0	1	17	4	1	S 55° W	S 42° W	7·6	7·1	+0·5	62	+10	81	+ 4	·860	−·005	4·0	+0·7	4	+2·0	1·92	1·20	+ 0·72	12·12	3·36	+ 8·76	1·20	Pamban.
3	1	2	0	0	2	10	12	N 58° W	N 29° W	4·1	2·1	+2·0	66	−13	73	+ 4	·757	+·010	7·8	+2·9	5	−1·8	2·17	5·29	− 3·12	15·53	15·62	− 0·09	0·82	Madura.
3	0	0	0	0	2	9	9	N 65° W		3·3			63		70	+ 2	·740	+·016	5·0	−1·9	9	+2·2	5·86	3·83	+ 2·03	27·43	18·00	+ 9·43	2·12	Pudukkottai.
0	0	0	0	0	0	26	3	N 86° W	S 72° W	5·3	4·0	+1·3	92	+18	87	+13	·822	+·108	6·0	+0·8	7	+0·8	1·94	3·70	− 1·76	16·12	12·51	+ 3·61	0·62	Negapatam.
1	0	0	0	1	12	10	3	S 72° W	N 87° W	4·2	4·7	−0·5	69	− 1	73	+ 1	·755	−·002	5·6	0	5	−1·0	3·19	4·38	− 1·19	18·89	14·65	+ 4·24	1·19	Trichinopoly.
0	1	1	1	5	14	4	0	S 38° W	S 33° W	5·5	4·0	+1·5	62	−12	78	−6	·705	−·040	3·8	−1·3	6	+2·9	1·38	1·42	− 0·04	13·87	8·05	+ 5·82	0·33	Coimbatore.
1	1	0	0	0	0	22	0	N 88° W	S 43° W	2·3†	2·5	+0·3	66	+ 6	81	+ 1	·766	−·015	5·8	−0·3	10	+1·2	5·52	6·54	− 1·02	26·71	25·69	+ 1·02	2·34	Salem.
0	0	0	0	1	14	7	1	S 10° W	S 84° W	2·9	1·9	+1·0	66	− 4	75	− 5	·815	−·048	5·7	+0·6	4	−3·1	1·12	6·28	− 5·16	13·44	16·85	− 3·41	0·49	Cuddalore.
0	0	0	0	0	1	17	0	S 88° W		3·1			59		81	+ 8	·813	+·061	4·4	−0·4	10	+1·0	11·36	7·87	+ 3·48	35·69	26·26	+ 9·33	2·91	Vellore.
1	0	0	0	1	14	10	4	S 71° W	S 68° W	4·2	4·4	−0·2	76	+ 6	77	− 1	·862	+·009	5·8	−0·5	8	+0·6	2·92	5·14	− 2·22	13·03	17·15	− 4·12	0·60	Madras.
5	0	0	0	0	2	8	13	N 56° W*	N 84° W				76	− 2	79	+ 5	·818	+·043	5·5	−1·5	13	+4·5	9·47	6·32	+ 3·15	31·03	21·17	+ 9·86	2·23	Cuddapah.
2	1	0	0	1	5	11	8	N 79° W	N 72° W	5·5	6·7	−1·2	62	−16	74	+ 3	·680	+·026	6·3	−0·7	6	−1·2	5·26	4·54	+ 0·72	18·44	13·69	+ 5·75	2·45	Bellary.
3	0	0	1	1	6	10	6	N 83° W	N 88° W	6·4			59	+11	78	0	·732	−·012	7·8	+1·2	9	−0·8	7·19	6·41	+ 0·78	23·26	20·98	+ 2·28	1·52	Kurnool.
0	0	0	1	3	4	12	5	S 79° W	N 68° W	3·0	4·9	−1·9	59	0	77	+ 3	·849	+·011	6·7	−0·9	8	+1·7	5·76	4·55	+ 1·21	16·78	12·73	+ 4·05	1·80	Nellore.
0	0	0	0	2	4	9	10	N 83° W	N 68° W	4·8	4·2	+0·6	62	+ 3	82	− 2	·898	−·024	6·6	−0·4	8	−1·2	4·75	5·80	− 1·05	41·18	24·48	+16·70	1·60	Masulipatam.
2	0	0	0	1	7	11	4	N 89° W	N 87° W	4·4	4·7	−0·3	58	− 7	83	+ 1	·925	+·029	6·3	+0·1	7	−1·3	2·32	5·98	− 3·66	25·10	23·14	+ 1·96	0·77	Cocanada.
0	0	1	1	2	8	5	1	S 51° W	N 86° W	2·8			43	−21	83	+ 4	·919	+·042	5·7	−1·6	5	−4·1	2·11	7·15	− 5·04	21·86	23·63	− 1·77	0·78	Waltair (Vizagapatam).
2	0	0	0	2	4	5	5	N 85° W		3·8			37		85		·990		3·3		8	+0·7	3·13	4·57	− 1·44	15·90	24·72	− 8·82	1·00	Calingapatam.
9	0	0	0	4	5	0	10	N 51° W	N 61° W	5·0	6·8	−1·8	46	+ 5	85	0	·937	+·009	6·1	+2·3	8	−1·8	5·13	7·53	− 2·40	15·36	30·13	−14·77	1·55	Gopalpur.
																														Bay Islands.
2	0	2	2	5	11	7	1	S 48° W					53		85		·979		6·2		12		5·54			36·57			1·30	P. V. Fraser.
0	0	0	6	8	4	3		S 51° W	S 61° W	4·7	6·9	−2·2	46	−20	86	+ 4	·904	−·011	7·4	−0·5	24	+3·6	22·09	18·55	+ 3·54	88·22	85·18	+ 3·04	3·38	Port Blair.
0	0	0	1	11	9	8	1	S 39° W*					69		88	+ 2	·917	−0·22	7·4	−1·6	16	−0·4	10·49	11·83	− 1·34	15·53†			1·74	Table Island.
																														Kashmir.
0	0	0	0	1	1	0	0	S 45° W		0·6			3		73		·569		1·6		6		0·01			39·99‡			3·03	Muzaffarabad.
1	1	1	6	4	0	4	3	S 3° W	S 43° E	1·7	2·4	−0·7	15	−10	79	− 7	·553	−·009	2·6	−0·6	2	−1·8	0·82	1·82	− 1·00	10·19	11·46	− 1·27	0·46	Srinagar.
1	5	5	2	0	0	1	1	N 65° E		2·2			30		71	− 8	·335	−·006	2·8	−0·1	2	−3·6	0·46	3·39	− 2·93	14·22‡	16·35‡	− 2·13	0·16	Gulmarg.
0	0	0	0	1	1	1	1	S 67° W		6·2			7		63	0	·231	−·013	2·7	−0·1	0	−2·1	0·05	1·31	− 1·26	3·98	6·40	− 2·44	0·05	Dras.
0	0	0	2	2	0	0	0	S 23° E	N 85° W	2·1	1·4	+0·7	10	−40	51	+ 1	·209	+·016	2·5	−0·9	0	−0·7	0	0·28	− 0·28	2·87	1·65	+ 1·22	0	Leh.
0	0	0	0	0	0	4	0	W		2·4			13		51	−10	·266	−·050	2·7	−0·8	1	−0·5	0·19	1·08	− 0·89	1·12	3·67	− 2·55	0·10	Skardu.
0	0	0	0	0	0	0	0	Calm.		0·1			(a)		56	+ 7	·444	+ 063	2·1	−1·3	1	−0·2	0·24	0·37	− 0·13	1·46	2·75	− 1·29	0·19	Gilgit.

l or plateau stations, the elevations of which exceed 3,200 feet.

† Mean of 29 days.

* Wind observations for 29 days.

† Rainfall since 15th August.
(a) Indeterminate.
‡ Rainfall since 1st June.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·289		25·258	25·387	28th	25·178	1st	73·2	61·4	93·6		65·3		79·5		28·3	98·9	2nd	57·1	26th
	Quetta	5,502	24·566	—·041	24·526	24·643	24th	24·477	4th	58·8	51·6	87·5	+1·8	51·0	+1·2	69·2	+1·8	36·5	92·1	12th	36·7	26th
	Chaman	4,311	25·560	—·092	25·512	25·660	24th	25·424	4th	72·2	61·9	91·9	+3·1	63·9	+3·7	77·9	+3·4	28·0	98·4	13th	52·2	24th
	Kalat	6,630	23·683		23·645	23·752	24th	23·609	20th	54·2	45·6	84·5	—0·9	47·9		66·2		36·6	89·2	12th	35·2	25th & 26th.
	Dalbandin	2,772	26·957		26·920	27·102	24th	26·854	4th	68·3	50·5	100·2		61·3		80·7		38·9	105·2	6th & 13th	48·5	26th
	Pasni		29·703		29·663	29·751	24th	29·639	15th	80·6	76·6	91·3		74·8		83·2		16·8	98·7	27th	68·0	27th
	Panjgur		26·598		26·556	26·708	24th	26·541	3rd	70·0	59·9	96·4		65·5		80·9		30·9	101·2	11th	52·2	26th
	Robat		26·747		26·705	26·900	24th	26·636	12th	75·6	55·0	100·4		69·8		85·1		30·6	110·8	13th	59·9	27th
	Seistan (c)		27·367			28·150	24th	27·830	3rd	71·0	59·5	93·4		65·3		79·4		28·1	105·5	12th	50·0	27th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·378	—·025	24·354	24·470	13th & 27th.	24·309	2nd	68·0	58·5	80·2	—1·4	57·9	—1·0	69·0	—1·2	22·3	84·2	12th & 13th.	51·9	20th
	Cherat	*4,956*	25·615	—·028	25·583	25·716	13th	25·524	1st	70·9	63·1	81·3	—3·2	64·3	—1·4	73·1	—2·3	17·5	87·2	14th & 29th.	58·4	24th
	Drosh		24·963			25·100	24th	24·875	1st, 2nd & 18 th.	68·9	57·6	88·1	—0·6	65·6	+1·3	76·9	+6·3	22·5	96·7	12th	55·8	24th
	Murree	6,338	23·793	—·035	23·761	23·910	13th	23·726	1st	62·7	55·9	71·9	—1·4	59·4	+0·9	65·7	—0·3	12·5	77·7	12th	53·3	18th
	Simla	7,232	23·055	—·037	23·017	23·143	13th	22·985	20th	59·9	57·2	65·4	—0·7	56·9	+0·3	61·1	—0·2	8·5	71·2	12th	51·9	26th
	Sarain		23·083	—·052	23·045	23·164	13th	23·000	20th	57·9	55·9	69·1	—0·4	52·3	0	60·7	—0·2	16·8	75·6	12th	46·2	21st
	Kalabagh		20·125	—·015	20·087	20·213	13th	20·033	20th	50·1	46·2	55·1	+0·7	47·0	+2·7	51·2	+1·7	8·1	60·4	11th	39·6	26th
	Chakrata	7,072	23·341	?	23·301	23·435	13th	23·259	20th	62·0	60·1	68·5	—0·3	57·6	+0·5	63·1	+0·1	10·9	72·9	10th & 11th.	52·5	26th
	Mukteswar	7,592	22·800	—·040	22·759	22·902	13th	22·715	20th	58·7	56·9	66·0	—3·1	55·1	—0·3	60·5	—1·7	10·9	73·5	11th	51·8	17th
	Darjiling	7,432	22·926	—·032	22·881	23·021	13th	22·858	21st	59·8	58·7	67·1*	+2·2*	57·1	+1·4	62·1*	+1·8	10·0	71·9	17th	54·7	23rd
	Shillong	4,920	25·069	—·011	25·021	25·179	13th	24·985	20th	67·1	64·5	73·6	—1·3	62·5	+0·5	68·0	—0·4	11·1	77·0	21st	57·8	8th
	Cherrapunji	4,309	25·607	—·038	25·558	25·714	13th	25·507	21st	68·4	66·6	73·3	—0·5	64·7	0	69·0	—0·3	8·6	79·6	20th	62·3	8th
	Netarhat (c)		26·156			26·213	6th	25·882	23rd	71·5	68·7	77·9		65·4		71·7		12·5	81·7	10th	63·4	25th
	Maymyo	3,546	23·359	—·021?	26·304	26·473	12th	26·283	9th, 29th & 30th.	69·9	68·1	77·9	+0·6	65·4	+1·0	71·7	+0·8	12·5	81·3	29th	60·7	13th
	Pachmarhi	3,528	26·282	—·086	26·229	26·375	2nd	26·072	25th	71·1	68·9	78·1	+0·9	67·4	+1·1	72·8	+1·0	10·7	84·0	11th & 12th.	64·1	25th, 27th & 28th.
	Mount Abu	3,945	25·901	—·082	25·851	25·969	7th	25·848	26th	69·5	66·8	74·5	—0·6	65·9	+1·3	70·2	+0·2	8·6	81·0	11th & 12th.	62·2	3rd
	Mercara	3,781	26·143	—·067	26·076	26·183	24th	26·069	10th	64·0	63·4	70·9	—0·9	60·7	—1·1	65·8	—1·0	10·2	80·0	1st & 2nd.	57·3	28th
	Ootacamund	*7,387*	22·988	—·042	22·924	23·018	5th	22·926	10th	57·1	54·6	63·6	0	51·7	+0·6	57·6	+0·3	11·9	68·5	3rd	45·4	28th
	Kodaikanal	7,688	22·767	—·046	22·702	22·805	24th	22·714	11th	56·9	53·8	63·3	+0·2	52·5	+0·3	57·9	+0·3	10·8	67·1	27th	48·7	29th
	Extra India.																					
	Singapore (a)	10	29·819	—·126	29·750	29·898	23rd	29·780	7th	83·4		88·5	+0·6	75·1	+1·1	81·8	+0·9	13·4	92·0	22nd	73·0	5 days
	Penang (a)	17	29·825	—·085	29·766	29·923	3rd	29·762	15th	82·7		88·9	+0·5	73·6	—0·5	81·3	0	15·3	91·0	17th	73·0	11 days
	Trincomalee	99	29·712	—·062	29·740	29·781	2nd	29·615	10th	78·3	74·7	91·0	+0·5	76·5	—0·1	83·8	+0·2	14·5	96·1	30th	71·9	7th
	Colombo	24	29·853	—·065	29·803	29·928	26th	29·770	10th	78·4	75·4	84·6	—1·7	76·3	—0·8	80·5	—1·3	8·3	85·9	26th	72·0	2nd
	Hambantota	64	29·793		29·783	29·847	26th	29·713	11th	77·4	75·0	87·4		76·0		81·7		11·4	92·5	28th & 30th.	71·7	15th
	Minicoy	7	29·907	—·040		29·953	25th	29·857	10th													
	Amini Divi	*13*	29·841	—·088	29·782	29·889	24th	29·783	10th	80·4	76·7	84·8	—0·5	76·2	—0·9	80·5	—0·7	8·6	88·4	27th	73·5	29th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,567	24·404		24·359	24·528	2nd	24·319	5th	64·9	63·7	73·1		61·5		67·3		11·6	79·3	21st & 27th.	59·8	15th

N.B.—Elevations in italics indicate barometrical determinations.
(a) Nine hours observations.
(c) Aneroid.

* Mean of 29 days.

NOTE.—The barometric readings are not reduced to sea-level, in the case of

B—*continued.*

at 217 stations in India, etc., in September, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Baluchistan.
26	1	1	1	0	0	1	0	0	N 45° E		2·1			.3		51		·417		0·1		2		0·23			7·88			0·12	Fort Sandeman.
26	0	0	2	2	0	0	0	0	S 67° E	S 45° W	1·8	1·6	+0·2	10	+ 8	61	+14	·315	+·008	0	−0·3	0	−0·2	0	0·00	−0·08	2·08	1·82	+ 0·26	0	Quetta.
3	0	0	8	12	5	2	0	0	S 45° E	S 8° E	4·4	5·7	−1·3	69	+31	56	+26	·446	+·205	0·1	−0·1	0	0	0	0	0	0·74	0·22	+ 0·52	0	Chaman.
30	0	0	0	0	0	0	0	0	Calm	S 14° W	4·6			(a)		51	+11	·225	−·035	0·3		0	0	0	0	0	3·02	1·37	+ 1·65	0	Kalat.
9	1	4	4	1	3	6	1	1	S 26° E		4·8			13		22		·155		0·7		0		0			0·50			0	Dalbandin.
1	1	1	1	1	1	4	19	1	S 84° W		7·7			66		83		·862		3·0		0		0			2·10			0	Pasni.
15	0	11	3	0	0	0	1	0	N 51° E		2·7			43		53		·411		1·0		0		0			4·57			0	Panjgur.
2	0	1	0	1	0	13	11	2	S 69° W		4·4			69		21		·185		0·5		0		0			0			0	Robat.
8	3	0	0	0	0	0	0	19	N 39° W		10·1			66		50		·370		0·1		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm		0·6			(a)		57	+ 6	·381	+·010	1·2	−2·2	6	+1·9	1·32	1·63	− 0·31	14·07	13·00	+ 1·07	0·35	Para Chinar.
10	7	0	0	2	9	1	1	0	S 4° W	S 32° W	3·7	5·8	−2·1	14	+ 9	66	+ 6	·490	+·018	2·1	0	3	+0·1	1·83	2·16	− 0·33	17·34	13·30	+ 4·04	0·90	Cherat.
28	0	0	1	0	1	0	0	0	S 45° E		2·8			3		9	− 3	·348	−·031	1·6	0	1	−1·3	0·29	0·82	− 0·53	4·89	5·25	− 0·36	0·19	Drosh.
11	7	1	1	5	0	0	0	5	N 13° E	N 37° W	4·4	4·2	+0·2	27	+ 8	67	+ 1	·377	−·014	2·2	−0·5	3	−4·0	1·16	5·91	− 4·75	56·89	38·15	+18·74	0·59	Murree.
																85	+ 8	·441	+·043	1·8	+0·6	10	+1·7	6·86	5·71	+ 1·15	48·66	50·41	− 1·75	1·72	Simla.
																85	+10	·405	+·024	4·4	+0·7	7	−0·3	9·21	8·37	+ 0·84	46·87	39·22	+ 7·65	3·43	Sarain.
14	3	0	1	0	10	1	0	1	S 3° W		4·2			24		77	+ 3	·282	+·026	5·0	+0·4	15	+6·6	14·04	11·11	+ 2·93	63·39	53·51*	+ 9·88	3·48	Kalabagh.
11	0	9	3	3	0	3	1	0	N 76° E	N 21° E	6·0	4·4	+1·6	27	+14	91	+ 7	·505	+·049	7·1	+3·4	10	+2·3	8·63	6·35	+ 2·28	55·02	56·80	− 1·78	3·00	Chakrata.
6	0	0	10	9	0	1	4	0	S 59° E		5·5			43		91	+ 8	·446	+·014	7·3	+2·0	14	+5·4	11·71	6·15	+ 5·56	57·40	40·29	+17·11	2·81	Mukteswar.
28	0	0	0	0	0	1	1	0	S 66° W	S 89° E	0·5	2·7	−2·2	7	−12	94	0	·483	+·005	9·6	+1·5	24	+7·0	30·89	18·46	+12·43	118·46	108·94	+ 9·52	7·27	Darjiling.
15	1	5	5	1	1	1	1	0	N 74° E		1·7			23		87	+ 2	·575	+·001	8·2	+1·8	22	+3·2	10·08	10·99	− 0·91	60·42	68·98	− 8·56	1·26	Shillong.
4	3	8	5	0	2	4	3	1	N 43° E		4·4†			23		91	0	·631	+·011	8·7	+1·4	17	−2·1	38·10	35·06	+ 3·04	369·22	347·68	+21·54	11·36	Cherrapunji.
2	8	1	2	3	2	4	4	4	N 45° W		6·5			27		87		·673		7·0		15		11·25			29·28‡			3·17	Netarhat.
22	0	0	0	3	0	5	0	0	S 14° W		1·8			20		91	+ 1	·662	−·017	6·7	+0·1	14	−1·5	6·93	11·14	− 4·21	41·57	43·32	− 1·75	1·32	Maymyo.
6	1	0	0	0	1	6	4	12	N 76° W	N 85° W	2·7	4·5	−1·8	56	+12	91	+ 7	·683	+·057	7·1	+0·7	13	−0·4	16·40	14·82	+ 1·58	89·04	70·46	+18·58	9·17	Pachmarhi.
4	1	6	1	1	0	10	3	4	N 88° W	S 70° W	4·9	5·8	−0·9	23	−21	88	+ 9	·631	+·085	6·1	+1·0	14	+6·5	9·79	8·92	+ 0·87	85·21	58·91	+26·30	2·61	Mount Abu.
2	0	0	1	0	0	9	16	2	S 77° W	N 67° W	4·3	5·3	−1·0	76	+ 2	96	+ 3	·570	−·007	9·3	+0·8	26	+7·8	19·50	10·80	+ 7·70	112·48	111·00	+ 1·48	1·86	Mercara.
7	1	0	0	0	2	4	9	7	N 86° W		5·0			56		86	+ 3	·400	+·016	8·9	+1·8	12	+0·5	5·37	5·76	− 0·39	35·02	35·39	− 0·37	1·44	Ootacamund.
1	0	0	0	3	0	3	14	9	N 84° W		9·4			66		83	+ 5	·382	+·011	6·0	+0·3	9	−3·4	8·35	6·52	+ 1·83	38·11	28·74	+ 9·37	2·27	Kodaikanal.
																															Extra India.
10	0	0	0	5	3	9	1	2	S 25° W					40						6·9	+1·0	10	+0·2	6·15	5·66	+ 0·49	45·75	32·80	+12·95	1·28	Singapore.
0	0	9	2	13	0	2	0	4	S 84° E					43						6·7	+4·0	8	−5·4	3·83	13·77	− 9·94	35·83	47·72	−11·89	1·00	Penang.
0	0	0	0	0	0	15	15	0	S 67° W	S 43° W	8·0	9·3	−1·3	89	− 5	83	+ 2	·800	−·048	7·4	+4·5	3	−2·8	1·96	4·63	− 2·67	14·66	14·74	− 0·08	1·16	Trincomalee.
2	0	0	1	3	0	11	8	5	S 68° W	S 57° W	4·3	6·7	−2·4	56	−25	87	+ 5	·841	−·024	9·4	+3·1	7	−1·1	3·89	4·60	− 0·71	63·31	31·58	+31·73	1·20	Colombo.
2	0	0	0	0	0	13	15	0	S 69° W		11·1			82		88		·826		5·4		2		1·07	2·31	− 1·24	16·87	10·42	+ 6·25	0·48	Hambantota.
0	1	0	0	0	0	3	16	10	N 76° W	N 75° W	5·7	8·5	−2·8	87	+ 7					6·1	+0·9	13	+2·5	10·85	6·86	+ 3·99	47·70	38·52	+ 9·18	4·24	Minicoy.
6	2	0	1	0	0	6	13	8	N 82° W		12·0			73		84	+ 3	·865	−·002	7·6	+1·3	17	+6·0	17·33	5·76	+11·57	62·26	41·26	+21·00	4·40	Amini Divi.
																															Gyantse.
																															Phari Jong.
27	1	0	0	0	0	1	1	0	N 82° W		0·4			6		94	+ 3	·577	+·018	4·3	−1·2	22	+0·4	16·35	19·30	−2·95	109·41	106·96	+ 2·45	1·71	Gangtok.

hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) Indeterminate.

* Rainfall since 1st June.
† Mean of 29 days.
‡ Rainfall since August.

Table

(2) Abstract of observations taken at 8 hrs

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Gartok (c)	15,100	P			P	P	P	P	40·3		59·2		40·9*		51·3*		18·3	68·4	13th	36·2	12th
	Kashgar (c)	4,255	25·453	—·177		25·660	29th	25·250	4th & 14th.	66·5	56·2	85·6	+2·5	57·3	0	71·5	+1·3	28·3	96·8	14th	46·3	27th
	Kabul (c)		24·062	P		24·150	23rd & 26th.	23·940	8th	55·7	50·3	91·3	+2·7	54·7†	+3·2	72·9†	+2·9	36·6	97·2	1st	47·8	24th
	Meshed	3,104								60·0	51·4	85·9	+5·0	49·3	—2·5	67·6	+1·3	36·6	97·2	12th	40·0	26th
	Jask	13	29·679	—·068	29·645	29·752	24th	29·602	20th	83·6	77·9	92·9	—0·1	81·0	—0·1	86·9	—0·1	11·9	100·0	21st	78·0	12th & 14th
	Muscat (c)	20	29·688	—·060	29·657	29·755	23th	29·620	15th	86·6	78·8	95·2	+6·1	83·9	+0·8	89·5	+3·5	11·3	103·8	28th	80·5	3rd
	Bushire	14	29·665	—·062	29·641	29·838	27th	29·525	3rd	84·3	75·9	91·3	—2·7	77·5	—1·7	84·4	—2·2	13·8	97·9	5th	68·9	29th
	Busrah	25	29·670	—·080	29·664	29·877	24th	29·536	3rd	83·6	70·7	98·9	—0·6	74·6	—0·3	86·8	—0·5	24·3	109·1	11th	45·4	13th
	Ispahan (b)	*5,817*	24·240	—·140		24·400	23rd	24·100	9th	70·3	60·5	91·4	+1·6	59·0	+3·1	75·2	+2·3	32·4	98·9	3rd	51·2	18th & 25th.
	Tehran (b)	*4,002*																				
	Baghdad	127																				
	Aden	94	29·647	—·091	29·673	29·726	25th	29·538	3rd	83·5	78·7	92·0	—1·5	81·1	—1·5	86·6	—1·5	10·9	97·8	20th	75·3	1st
	Zanzibar	72	30·048	—·021	30·046	30·147	2nd	29·946	20th	76·0	72·3	83·1	+0·8	73·7	+0·1	78·4	+0·5	9·4	86·3	21st	72·2	4th & 10th.

N.B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(b) 8½ hours observations.
(c) Aneroid.

* Mean of 16 days.
† " " 28 "
* " " 29 "

B—*concluded.*

at 217 stations in India, etc., in September, 1916—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th Sept., 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Extra India—*concld.*
22	0	0	0	7	0	1	0	0	S 31° E		4·1			23						2·7		5		1·53			5·72*			0·62	Gartok.
27	0	1	0	0	0	0	1	1	N 45° W	N 29° W	1·0	2·2	−1·2	3	− 8	53	− 1	·340	+·006	4·1	+1·7	0	−0·7	0	0·31	−0·31	0·47	2·24	−1·77	0	Kashgar.
0	1	0	3	2	2	10	8	4	S 62° W	S 13° W				47	+38	69	+17	·315	−·022	2·3	+2·1	0	−0·1	0	0·03	−0·03	1·81	1·50	+0·31	0	Kabul.
28	2	0	0	0	0	0	0	0	N		1·3			7		53	+ 4	·281	−·043	1·4	+0·9	0	−0·1	0	0·02	−0·02	1·45	1·84	−0·39	0	Meshed.
2	3	1	20	1	0	0	1	1	N 79° E	S 81° E	9·7	9·8	−0·1	66	+ 3	77	+ 3	·882	−·033	1·6	+0·1	0	0	0	0	0	0·29	0·06	+0·23	0	Jask.
2	1	4	8	2	1	1	1	9	N 31° E	N 72° E	3·1†	2·8	+0·3	32	+ 3	70	− 5	·878	−·032	1·6	+0·5	0	0	0	0	0	0·58	0·17	+0·41	0	Muscat.
20	3	2	1	0	1	0	0	3	N 3° E	N 60° E	5·3	5·0	+0·3	18	−31	67	0	·789	−·059	0	−0·6	0	0	0	0	0	0	0·03	−0·03	0	Bushire.
4	1	0	0	0	0	0	25	0	N 88° W		7·1			93		50		·585				0		0	0·19	−0·19	0·01	0·65	−0·64	0	Busrah.
29	0	0	0	0	0	0	1	0	W	N 72° W	1·4	2·5	−1·1	2	−31	58	+ 6	·426	+·050	0·2	−0·2	0	−0·1	0	0·03	−0·03	0·24	0·33	−0·09	0	Ispahan.
										N 62° E		2·0													0·08			0·88			Tehran.
										N 11° W		1·8													0			0·28			Baghdad.
15	0	5	1	6	1	1	0	1	S 77° E	S 56° E	6·0	7·0	−1·0	23	− 7	80	+ 5	·918	−·024	4·4	+0·5	0	−0·2	0	0·14	−0·14	0·69	0·50	+0·39	0	Aden.
5	0	0	0	6	11	6	2	0	S 6° W	S 5° E	3·9	4·1	−0·2	63	−23	83	0	·743	−·006	7·7	+1·6	4	−1·4	2·81	2·10	+0·71	11·03	19·81	−8·78	1·52	Zanzibar.

* Rainfall since 28th June.

† Mean of 28 days.

Table C.—Abstract of observations taken at 8 hrs. at 58 fourth and fifth class stations in India, etc., in September, 1916.

Table

Abstract of observations taken at 8 hrs. at 58 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	79·5	78·2	89·4	−0·3	76·4	+3·1	82·9	+1·4	13·0	94·1	30th	70·9	16th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	81·0	78·7	92·3	+2·1	73·2	−1·9	82·7	+0·1	19·1	99·0	8th	67·8	17th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	78·7	77·1	93·2	+2·9	60·8	−14·2	77·0	−5·7	32·4	100·5	30th	57·2	26th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	78·8	76·2	91·9	+2·3	74·9	+0·6	83·4	+1·5	17·0	100·3	26th	72·7	24th & 29th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	79·7	77·1	89·5	+0·5	75·3	+0·1	82·4	+0·3	14·2	96·0	26th	73·0	1st	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	78·8	77·3	88·3	+0·8	74·2		81·3		14·1	92·9	26th	72·4	29th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	80·1	77·4	89·2	−0·9	74·7	−1·1	81·9	−1·0	14·5	95·6	20th	72·0	26th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	79·9	77·4	88·5	−1·0	77·1	+1·1	82·8	+0·1	11·4	97·5	6th	74·0	3rd	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	79·3	77·1	89·6		75·6		82·6		14·0	93·9	21st	72·8	15th	...	...	...	...	...	...	...	...	...	...	...
	Messa	79·2	74·2	92·5	−0·9	71·4	−3·3	81·9	−2·1	21·1	95·7	9th	63·0	18th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	75·3	74·2	85·2	+0·4	73·6	−0·1	81·4	+0·1	15·6	93·5	30th	71·2	15th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
1	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	82·3	78·6	89·3	−0·1	76·6	−1·1	82·9	−0·6	12·7	92·3	11th	73·1	3rd	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	82·9	79·1	89·0	−0·3	76·6	−1·0	82·8	−0·7	12·4	94·1	7th & 9th	71·0	4th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	82·7	79·6	89·5	−4·3	77·4	+1·1	83·5	−1·6	12·1	93·8	29th	73·0	1st	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	76·9	75·6	90·8	−1·0	73·0	−0·8	81·9	−0·9	17·8	95·9	11th	69·8	30th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	81·3	77·5	85·3	−0·2	73·4	−0·4	81·3	−0·3	15·9	95·1	21st	71·0	19th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·1	76.7	89·2	−0·9	73·6	0	81·5	−0·5	15·4	95·1	21st	70·0	30th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* 27 days observations.

C.

and fifth class stations in India, etc., in September, 1917.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	94	− 1	·953	+ ·025	...	...	13	− 2·2	11·55	11·65	− 0·10	71·14	71·08	+0·06	2·10	Bishnath.
...	...	...	...	...	90	− 1	·955	+ ·025	...	...	12	− 2·3	11·03	10·40	+ 0·63	67·38	65·07	+ 2·31	3·95	Borjuli.
...	...	...	...	...	92	+ 2	·902	− ·036	...	...	12	− 4·6	11·67	9·97	+ 1·70	61·75	78·71	−16·96	4·75	Chandkhira.
...	...	...	...	...	89	− 3	·863	− ·029	...	...	13	− 0·8	12·75	8·90	+ 3·85	69·02	70·40	− 1·38	4·45	Doom Dooma.
...	...	...	...	...	89	− 2	·895	+ ·002	...	...	11	− 3·8	7·83	10·51	− 2·68	84·75	75·89	+ 8·86	1·65	Dikom.
...	...	...	...	...	93	+ 2	·915	− ·010	...	...	14	+ 0·2	10·16	7·58	+ 2·58	58·43	51·06	+ 7·37	1·88	Golaghat.
...	...	...	...	...	88	− 3	·901	+ ·002	...	...	18	+ 3·2	18·09	12·31	+ 4·78	71·88	88·23	−16·35	2·85	Hailakandi.
...	...	...	...	...	89	− 1	·905	− ·016	...	...	13	− 0·3	10·91	8·83	+ 2·08	53·73	58·83	− 5·10	2·84	Jorehat.
...	...	...	...	...	91	...	·899	...	...	...	10	+ 0·5	6·39	6·84	− 0·45	28·71	34·91	− 6·20	1·33	Lumding.
...	...	...	...	...	78	− 8	·776	− ·171	...	...	13	− 1·0	11·36	10·49	+ 0·87	64·15	71·46	− 7·31	3·65	Messa.
...	...	...	...	...	95	0	·832	− ·003	...	...	12	− 0·3	6·51	8·69	− 2·18	58·81	59·01	− 0·20	1·57	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	13	− 0·3	10·42	10·99	− 0·57	47·57	70·54	−22·97	1·83	Comilla.
...	...	...	...	...	84	− 2	·926	− ·037	...	...	17	+ 2·7	14·64	10·49	+ 4·15	48·54	62·44	−13·90	4·24	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	10	− 2·1	7·90	9·01	− 1·11	54·43	55·27	− 0·84	2·90	Faridpur.
...	...	...	...	...	84	0	·945	− ·008	...	...	13	+ 0·3	12·10	9·99	+ 2·11	56·50	51·84	+ 4·66	4·14	Goalundo.
...	...	...	...	...	87	+ 3	9·69	+ ·003	...	...	16	+ 4·5	13·23	8·76	+ 4·52	56·11	48·75	+ 7·36	3·40	Pabna.
...	...	...	...	...	...	...	...	...	...	...	13	+ 1·3	12·04	10·04	+ 2·00	48·45	53·19	− 4·74	2·49	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	15	+ 2·9	16·29	10·08	+ 6·21	69·54	46·33	+23·21	5·01	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	18	+ 6·8	28·77	10·24	+18·53	60·73	45·28	+15·45	8·00	Malda.
...	...	...	...	...	...	...	...	...	...	...	15	+ 1·6	11·51	14·62	− 3·11	77·84	70·86	+ 6·98	2·35	Rangpur.
...	...	...	...	...	94	0	·867	− ·050	...	...	19	+ 0·3	27·41	20·79	+ 6·62	143·47	139·93	+ 3·54	6·20	Dam Dim.
...	...	...	...	...	83	− 3	·899	− ·046	...	...	16	+ 0·5	22·10	17·71	+ 4·39	163·25	135·30	+27·95	4·62	Kalchini.
...	...	...	...	...	86	0	·878	− ·006	...	...	20	+ 0·5	25·60	21·95	+ 3·65	134·55	142·88	− 8·33	5·73	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	21	+ 5·7	34·19	26·59	+ 7·60	168·42	131·74	+36·68	5·65	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	13	+ 2·2	10·14	8·51	+ 1·63	46·64	46·45	+ 0·19	3·45	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	12	+ 6·3	17·09	8·91	+ 8·18	54·48	47·10	+ 7·38	7·00	Bankura.
...	...	...	...	...	...	...	...	...	...	...	10	− 1·6	17·95	8·41	+ 9·54	49·34	45·75	+ 3·59	10·71	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	11	− 0·9	13·57	9·04	+ 4·53	44·56	45·56	− 1·00	5·30	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	12	+ 2·4	7·85	9·48	− 1·63	37·66	44·10	− 6·44	2·53	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	12	+ 3·3	8·78	7·41	+ 1·37	48·43	43·98	+ 4·45	1·66	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	13	+ 4·1	10·08	9·49	+ 0·59	47·76	50·80	− 3·04	2·44	Motihari.
...	...	...	...	...	...	...	...	...	...	...	13	+ 4·4	8·09	6·93	+ 1·16	70·73	37·25	+33·48	2·29	Chapra.
...	...	...	...	...	...	...	...	...	...	...	15	+ 6·0	6·52	7·32	− 0·80	42·36	39·33	+ 3·03	2·34	Arrah.
...	...	...	...	...	...	...	...	...	...	...	9	+ 0·1	9·71	7·00	+ 2·71	38·89	37·40	+ 1·49	2·68	Dehri.

Table

Abstract of observations taken at 8 hrs. at 58 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	75·2	71·8	84·2	...	*70·5	...	77·4	...	13·7	90·5	12th	66·9	28th	24	1	0	0	0	1	1	0	3	N 72° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	77·7	73·4	89·5	...	72·5	...	81·0	...	17·0	94·6	6th	67·1	27th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	82·2	77·2	92·5	...	77·6	...	85·1	...	14·9	97·4	5th	73·5	17th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	79·2	73·8	90·3	...	75·1	...	82·8	...	15·2	95·1	13th	68·3	18th	0	17	6	3	1	0	0	0	3	N 15° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	63·8	49·5	82·2	...	45·8	...	64·0	...	36·4	91·6	13th	39·6	21st	0	8	3	4	4	2	3	0	6	N 23° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	77·8	74·7	85·6	−2·3	72·7	−0·2	79·1	−1·3	12·9	93·9	21st	69·6	15th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	68·7	68·3	72·8	−0·9	63·2	−1·0	68·0	−0·9	9·6	75·6	15th	61·1	28th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	75·9	+2·2	54·9	+3·0	65·4	+2·6	21·5	83·7	12th	46·4	26th	12	0	0	0	4	6	8	0	0	S 11° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	87·8	−0·9	50·0	+2·6	68·9	+0·9	37·8	93·4	13th	38·0	26th	...	...	...	...	...	...	...	...	...	...	...

* mean of 29 days.

C—*continued.*

and fifth class stations in India, etc., in September, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	7	+2·0	11·75	5·72	+6·03	41·65	28·12	+13·53	6·67	Meerut.
...	...	...	...	...	...	...	...	...	...	...	15	+4·7	13·26	9·43	+3·83	88·41	76·88	+11·53	5·37	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	8	+2·7	5·33	4·27	+1·06	29·95	22·57	+7·38	1·71	Udaipur.
																				XII.—Central Provinces.
1·8	...	...	10	...	84	...	·735	...	4·9	...	14	...	11·61	...	...	46·97	...	...	4·49	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	18	+8·3	9·79	8·08	+1·71	37·91	28·04	+9·87	1·75	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	0	−1·7	0·01	1·21	−1·23	7·76	4·31	+3·45	0·01	Tinnevelly.
...	...	...	...	...	81	...	·769	...	6·8	...	8	+0·6	4·66	5·36	−0·70	22·88	13·91	+8·97	1·26	Anantapur.
...	...	...	...	...	79	...	·863	...	2·6	...	6	−3·2	2·88	5·67	−2·79	26·39	22·38	+4·01	1·02	Guntur.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	9	...	17·13	13·69	+3·74	79·09	58·57	20·52	3·20	Car Nicobar.
																				Kashmir.
...	...	...	80	...	77	...	·772	...	2·9	...	4	−0·2	4·46	4·94	−0·48	51·72	31·74	+19·98	1·52	Jammu.
...	...	...	...	...	...	...	...	...	...	...	5	−3·0	1·78	4·67	−2·89	14·99	21·04	−6·05	0·65	Sonamarg.
...	...	...	27	...	38	...	·217	...	3·0	...	0	−1·1	0·03	0·62	−0·59	1·63	2·92	−1·29	0·02	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	0	0·54	0·45	+0·09	10·74	6·53	+4·21	0·40	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	87	+ 4	·819	−·022	...	...	19	+0·2	36·62	22·09	+14·53	138·74	125·26	+13·48	7·34	Panighatta.
...	...	...	...	...	98	+ 9	·687	+·084	...	...	21	+1·2	32·99	23·07	+9·92	166·47	138·88	+27·59	7·98	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	27	...	19·84	...	...	118·02	...	...	2·57	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	19	...	7·11	...	...	46·21	...	...	0·96	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	14	+3·6	16·98	9·99	+6·99	118·49	82·84	+35·65	2·60	Mussooree.
...	...	...	50	...	...	...	...	...	4·0	+0·6	3	+1·7	1·54	0·34	+1·20	3·06	3·12	−0·06	0·61	Poo.
...	...	...	...	...	...	...	...	...	...	...	1	−1·7	0·39	1·93	−1·54	4·11*	8·51	−4·40	0·29	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	...	...	0	0	0	0	0	1·20	0·43	+0·77	0	Pishin.

* Rainfall for May 1916 wanting.

Table

Abstract of observations taken at 8 hrs. at 58 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi . . .	53·0	51·5	64·6	...	48·6	...	56·6	...	16·0	69·5	10th	47·0	19th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kerman	...	...	94·5	...	47·9	...	71·2	...	46·6	101·2	4th & 5th	35·8	28th	...	...	...	...	...	...	...	...	...	...	...
	Prison Island . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

and fifth class stations in India, etc., in September, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September, 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	92	...	·365	...	5·1	...	10	...	4·68	...	...	20·48	...	...	1·14	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	6	+3·3	3·25	1·30	+1·95	24·00	30·25	—6·25	1·23	Pumba.
...	...	...	...	...	...	...	...	...	0·5	...	0	...	0	...	...	0*	...	...	0	Kerman.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·73	...	...	21·78	...	...	Prison Island.

* Rainfall since 15th August 1916.

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8, HASTINGS STREET.

The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one	feather	added	to the	wind	arrow.
,, ,,	2 to 5	,, ,, ,,	...	two	feathers	,,	,,	,,	,,
,, ,,	5 to 10	,, ,, ,,	...	three	,,	,,	,,	,,	,,
,, ,,	10 to 20	,, ,, ,,	...	four	,,	,,	,,	,,	,,
	over 20	,, ,, ,,	..	five	,,	,,	,,	,,	,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

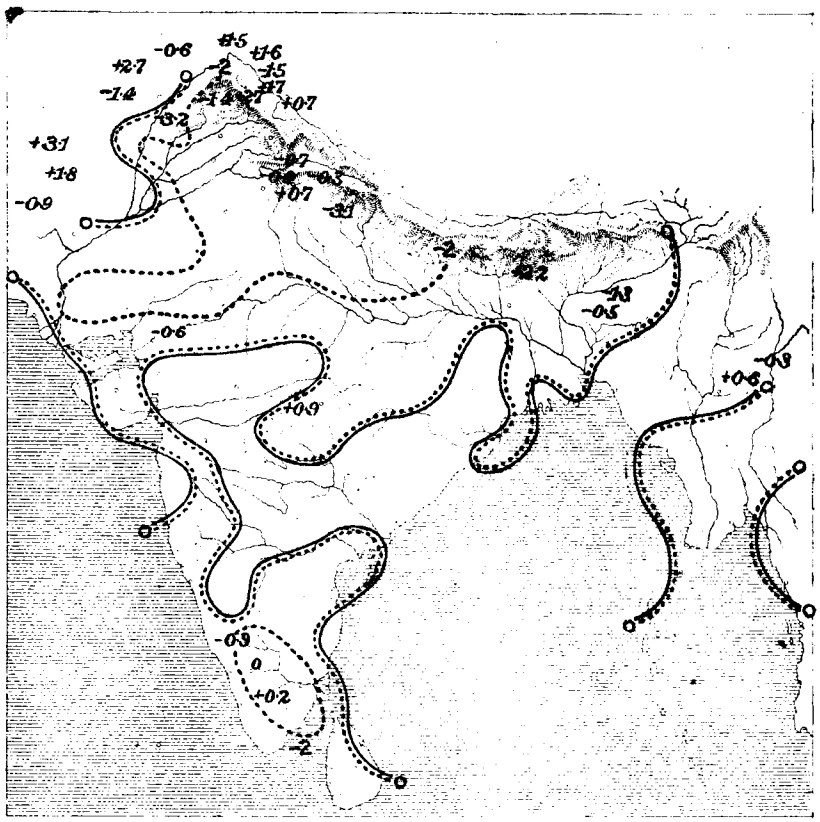


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

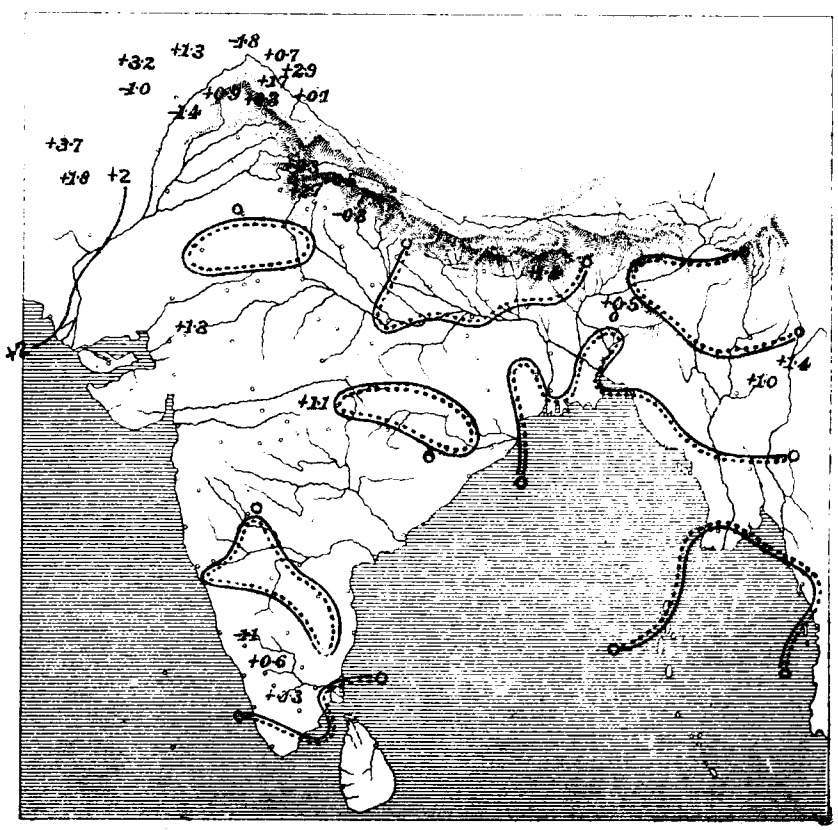


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

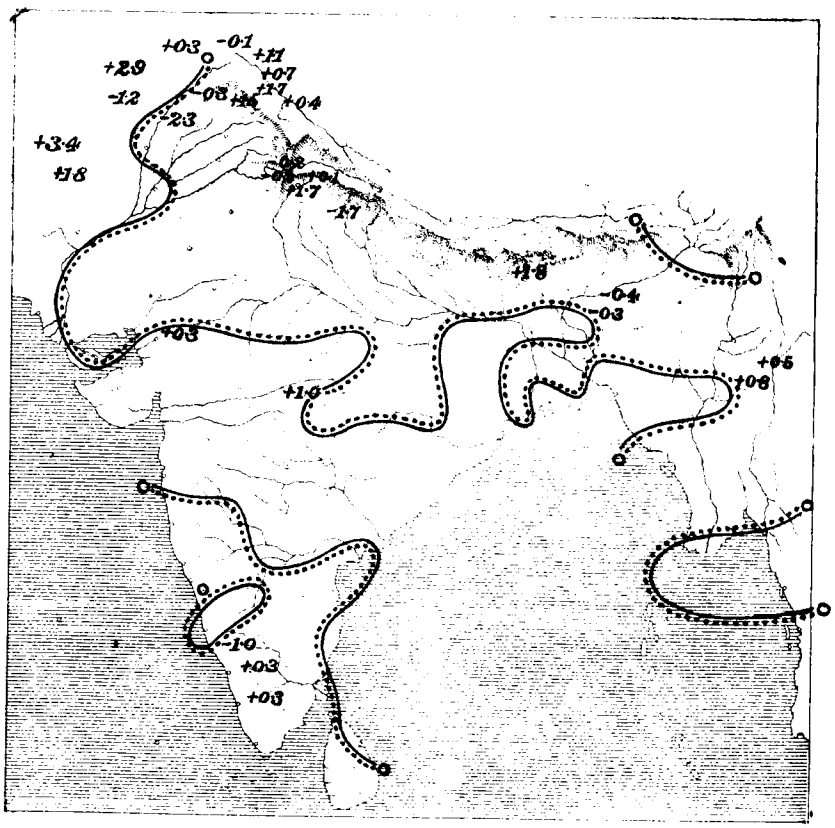


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

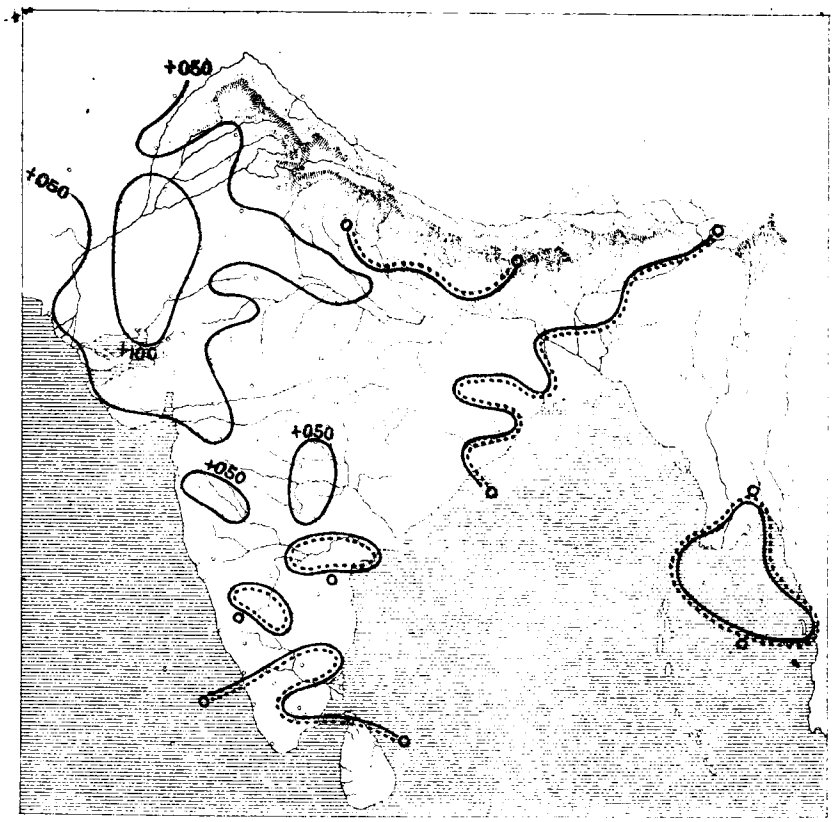


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

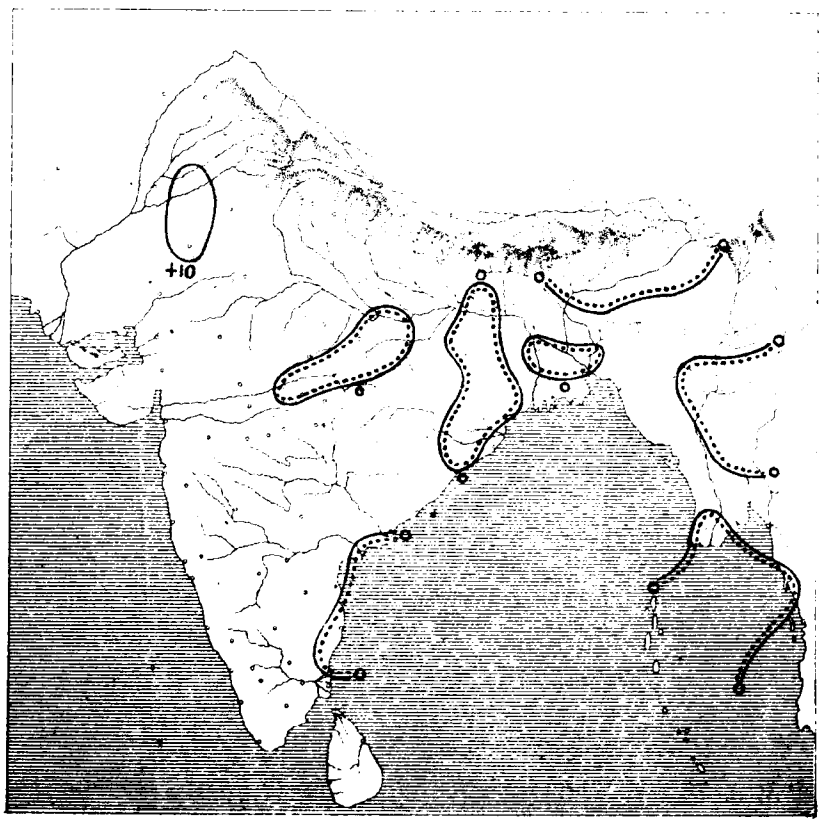


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

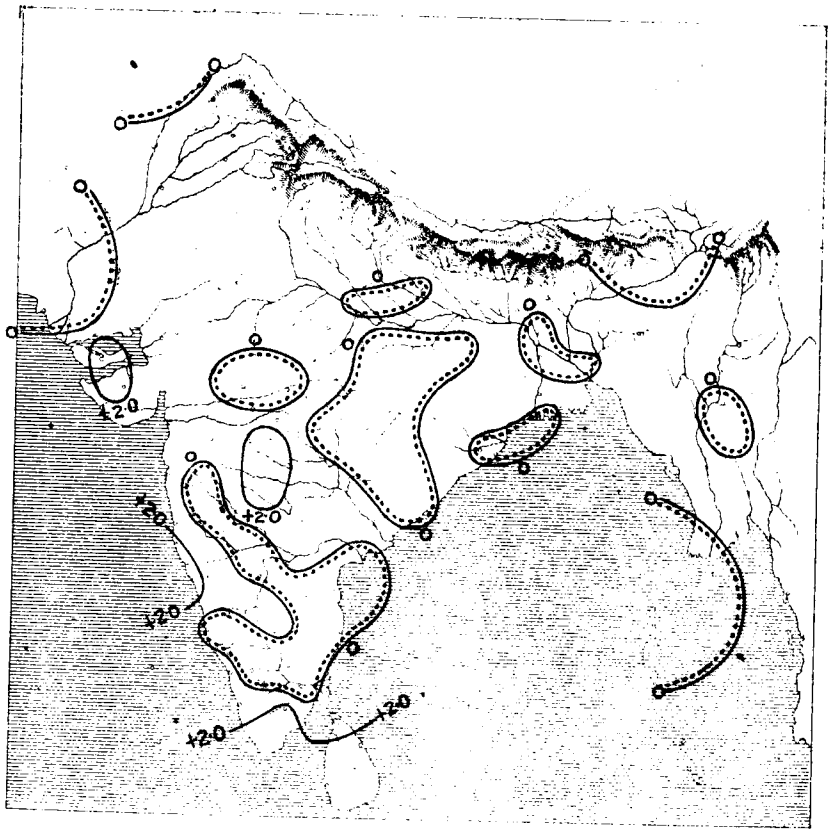
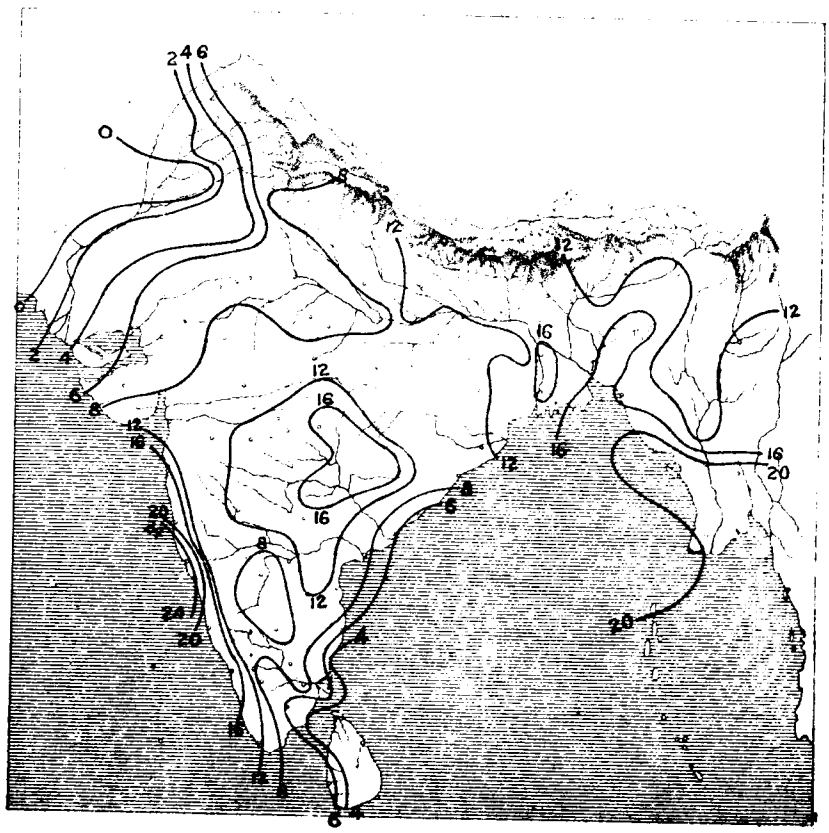
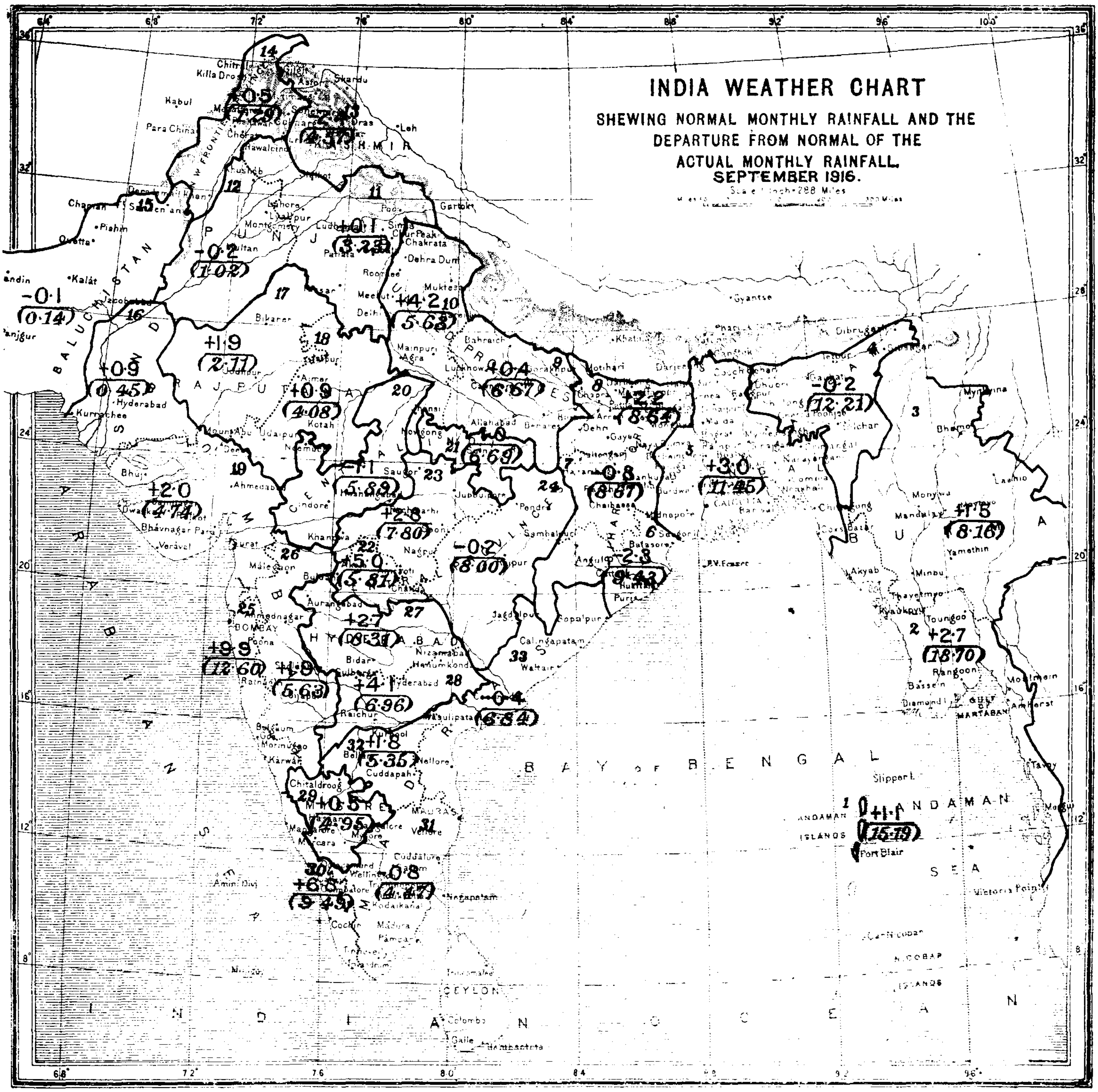


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, OCTOBER, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of October, 1916, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review. The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon was remarkably active and produced phenomenally heavy rain for October, the total fall in the plains being as much as 89 per cent. in excess of the normal. There was no rain of importance in Sind, while the amounts recorded in Burma and Mysore were only 9 and 22 per cent. greater than their respective normals. In the remaining divisions the month's fall was unusually heavy for the time of year ; more especially was this the case in the Punjab, Central India and the Central Provinces which obtained more than triple the normal amount.

In keeping with the character of rainfall both humidity and cloud were in general appreciably above normal. Temperature was in defect by 3° in Rajputana and in excess by 4° in Kashmir, and approximately normal elsewhere.

Barometric pressure in the plains was lower than usual by ·039″.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun could not be examined for spots and faculæ on five days and prominences could not be photographed on seven days during the month.

Sunspots.—Twenty-four new groups of spots were observed which was the same number as was seen in September. The daily average number was 3·6 and the average life of a spot 5·3 days, the averages for the preceding month being 2·3 and 3·7 respectively. The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North .	3	8	4	...	16°·0	6° & 26°
South .	...	5	3	1	19°·0	11° & 33°

Prominences.—Eighty-nine large and two eruptive prominences were recorded. The highest prominence was an eruptive one 190″ in height and was observed on the 1st at latitude + 21° west.

Magnetic disturbances.—"Great" disturbances were recorded on the 6th and 7th and "moderate" disturbances on the following dates:—1st, 2nd, 8th, 9th, 11th, 12th, 13th, 14th, 21st, 22nd and 23rd.

T. ROYDS,
for *Director*,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2{,}343$ m. Subsoil Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	∈	$\frac{r}{To^2}$
An:				
Ae:	9·76	18·0	1	2·6
Az				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az	Distance Δ (Km.).	Remarks.
		h. m. s.						
1916. Oct. 3rd	e P	1 49 54	...	...	...	...	...	
	e L	1 59 36	...	...	...	...	...	
	M	2 12 12	...	...	50	...	...	
	F	...	...	...	...	.	...	Over'apping.
„ 3rd	P	...	...	...	...	...	...	
	i L	2 48 36	...	...	...	...	...	
	M	2 54 18	...	...	50	...	...	
	e F	3 49 00	...	...	...	...	...	
„ 14th	P	...	..	...	...	...	...	No preliminary tremors.
	i L	19 57 36	...	...	...	...	...	
	M	19 58 18	...	...	200	...	...	
	F	20 18 30	...	...	...	...	...	
„ 20.6	e P	17 24 54	..	..	...	...	...	Widening of line.
	F	19 40 12	...	...	..	...	...	
„ 21st	e P	19 30 00	...	...	...	...	...	Hour mark at 19h. 30m.
	i L	19 34 36	...	...	...	.	...	
	M	19 36 54	...	...	190		...	
	F	20 18 48	...	...	...	...	...	
„ 31st	e P	1 09 42	...	..	...	...	...	
	e L	1 15 48	..	...	...	...	...	
	M	1 18 00	...	...	50	...	...	
	F	1 35 36	...	.	...	...	...	
„	e P	15 43 18	...	...	...	...	...	
	i L	15 52 42	...	..	...	...	...	
	M	16 18 48	...	...	270	.	...	
	F	18 26 12	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of October 1916 the traces showed 9 calm days, 21 days of small, and one day of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 4th, 15th 16th, 17th and 27th.

The following table represents the magnetic character of each day during the month.

TABLE 3.

Day.	Character.	Day.	Character.	Day	Character.	Day.	Character.
1	S	9	S	17	C	25	S
2	S	10	S	18	C	26	C
3	S	11	S	19	S	27	C
4	C	12	S	20	S	28	C
5	S	13	S	21	S	29	S
6	M	14	S	22	S	30	S
7	S	15	C	23	S	31	C
8	S	16	C	24	S	...	...

C.=calm; S.=small; M.=moderate; G.=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows:—

Easterly declination	0° 35′ 42″.
Horizontal force	0·36860 C.G.S. unit.
Vertical force	0·16816 C.G.S. „
Inclination	24° 31′·4.
Horizontal force range	0·00054 C.G.S. unit.
Horizontal force summed range	0·00310 C.G.S. „
Declination range	2′·7.
Declination summed range	9′·7.

(Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m. Subsoil Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9	21	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u) An	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Oct. 1st	...	18 22 00	...	..	..	...	.	Thickening of line.
„ 3rd	P	1 46 28	...	...	...	...	...	
	M	2 56 40	...	...	122	...	...	
	F	3 41 24	...	...	...	...	...	
„ 9th	...	14 50 00	...	...	...	...	...	Thickening of line.
„ 11th	...	17 37 00	...	...	...	...	...	Do.
„	...	18 35 00	...	...	...	...	...	Do.
„ 18th	...	10 38 00	...	...	...	...	...	Do.
„ 20th	P	17 35 24	...	...	...	...	...	
	M	18 14 44	...	...	22	...	...	
	F	18 39 56	...	...	...	...	...	
„ 21st	P	19 30 41	...	.	...	...	...	Beginning uncertain.
	M	19 38 39	...	...	56	...	...	
	F	...	...	..	...	...	...	End mixed in tremors.
„ 22nd	...	12 24 00	...		...	...	...	Thickening of line.
„ 23rd	P	10 42 48	...	...	...	...	...	
	M	10 47 50	...	...	22	...	...	
	F	10 53 17	...	..	...	...	...	
„ 31st	P	15 42 56	...	...	...	...	...	
	M	16 17 24	.	...	689	...	...	
	F	17 11 40	...	...	...	...	...	

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·32″

One disturbance at about 14 d. 19¾ m. and another at about 26 d. 3½ h. are marked by tremors.

N. A. F. MOOS,

Director,

Bombay and Alibag Observatories.

5.—ALIPORE (CALCUTTA) OBSERVATORY.

Seismic records.

$\phi = 22° 32'$ N; $\lambda = 88° 20'$ E; $h = 21$ Subsoil Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	20	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1916		h. m. s.						
Oct. 14th	P	19 49 36	2	...	...	...	...	
	S	19 51 24	?	...	...	...	...	
	L	19 52 30	14	...	...	...	...	
	M	.....	...	...	...	...	...	
	F	20 18 48	...	...	...	...	...	
„ 21st	P	19 28 36	3	...	...	...	...	
	S	19 31 54	7	...	...	...	...	
	L	19 34 36	15	...	...	...	...	
	M	19 40 36	...	155	...	...	...	
	F	20 1 54	...	...	...	...	...	
„ 31st	P	15 41 00	5	...	...	...	...	
	S	?	...	...	...	...	...	
	L	16 3 18	18	...	...	..	...	
	M.	16 7 42	18	483	327	...	...	
	F	16 40 06	...	.	...	...	...	

6.—SIMLA OBSERVATORY.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks	REMARKS.
		h. m.	Sec.			
Mukteswar . .	Oct. 1st	6 25	1	5	1	
Chaklala (District Rawalpindi).	„ 3rd	14 46	...	...	1	
Srinagar . .	„ 4th	0 54	2	6	1	
Drosh . . .	„ 12th	0 55	6	6	2	
Mukteswar . .	Oct. 14th	19 42	5	5	1	
„ . .	„ 14th	19 50	8	5	1	
„ .	„ 14th	20 18	15	5	1	
Salonah District, (Nowgong Assam).	„ 21st	5 21	7	4	1	
Shillong . .	„ 30th	19 55	1	5	1	

Solar radiation.—Observations not recorded owing to absence of officers on war service.

The Simla Seismograph notes will appear in a future number of this review.

GILBERT T. WALKER,

Director-General of Observatories, Simla.

Weather in the Indian Ocean.

7. At Seychelles barometric pressure and the velocity of wind were higher than usual and rainfall was largely below normal, while at Zanzibar and Mauritius pressure was normal, the rate of air movement rather low and rainfall in marked excess.

TABLE 7.

——	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·006	+·004	+·023
Actual mean wind direction . .	S 80° E	S 19° E	S 40° E
Normal mean wind direction . .	S 77° E	S 20° E	S 39° E
Actual mean wind velocity (miles per diem).	154	65	219
Normal mean wind velocity (miles per diem).	179	89	139
Rainfall departure from normal . .	+2·23	+2·16	—3·65

Depressions and cyclonic storms.

8. Four disturbances appeared over the Bay of Bengal in the course of the month, and one of them after crossing the Peninsula passed out into the Arabian Sea. The following is a brief statement of their history .—

Depression of the 1st to the 6th.—This was in course of formation over the head of the Bay at the end of September. During the 1st it crossed into south-west Bengal and thence travelling westwards had reached the neighbourhood of Pachmarhi by the morning of the 4th. It turned to eastnortheast during the day and moving rapidly on the 5th passed into Bihar, where it disappeared during the 6th. It was throughout shallow, but was instrumental in re-introducing the monsoon into the Punjab after a break of about two weeks. Its disappearance was followed immediately by the final retreat of the monsoon from northern India.

Disturbance of the 14th to the 24th.—This according to the available marine information was generated on the 13th to the southwest of the Andamans and thence travelled westnorthwestwards towards the Coromandel coast which it crossed on the evening of the 16th as a storm of slight or moderate intensity. On the morning of the 17th it was passing over the plateau of Mysore and by 8 hrs. of the following day had passed out into the Arabian Sea near Karwar, with a barometric depth of about a fifth of an inch. The information relating to its subsequent career is small in amount; it however suffices to show that the disturbance continued to travel in a westerly direction (between west-northwest and northwest) until the morning of the 24th when it had reached a position about 300 miles to the east of the Kuria Muria Islands. The vessels *Crewe Hall*

and *Bideford* were involved in the inner storm area on the 23rd and 24th; the former experienced winds of force 8 terrific squalls and a high dangerous sea and the latter heavy seas with winds of force 9. The lowest barometric reading recorded on board these vessels was 29·5″ and was at least four-tenths of an inch below the normal.

A consideration of the distance from the centre of these vessels coupled with the general strength of the gradient in the storm area would suggest that the actual deficiency of pressure in the centre could not have been less than seven or eight-tenths of an inch. The storm had thus developed considerably during its advance over the Arabian Sea. No information about its progress after the morning of the 24th is forthcoming.

Cyclonic storm of the 19th to the 26th.—This was formed to the west of the Andamans on the 19th and 20th. It advanced almost due northwest and crossed the coast near Waltair about midnight on the 23rd, with a barometric depth of about a third of an inch. It was near Hanamkonda at 8 hrs. of the 24th and over the north of Hyderabad on the morning of the 25th. It had weakened considerably during its passage inland, and disappeared almost completely during the day.

Cyclonic storm of the 25th to the 31st.—This was the development of a feeble depression which appears to have entered the Andaman Sea from the east on the 25th. From here it advanced northwestwards and passing close to Table Island on the morning of the 27th had by 8 hrs. of the 28th reached a position about 300 miles to the west of Diamond Island. During the next 48 hrs. it travelled almost due west and on the morning of the 30th struck the Madras coast between Cocanada and Masulipatam as a storm of slight intensity. It had already begun to break up and disappeared completely over Hyderabad during the 31st. The storm was only of moderate intensity, but its line of travel was rather unusual.

Pressure.

9. Atmospheric pressure was below the normal almost everywhere. The defect was least in Assam and the interior of Burma (about ·01″) and greatest in the North-West Frontier Province and the Central Provinces where it averaged about ·06″.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·017
Assam	—·012
Bengal	—·034
Bihar and Orissa	—·042
United Provinces	—·030
Punjab	—·026
North-West Frontier Province	—·057
Sind	—·039
Rajputana	—·030
Bombay	—·055
Central India	—·045
Central Provinces	—·063
Hyderabad	—·055
Mysore	—·042
Madras	—·050

The vertical pressure gradient was somewhat steeper than usual in Rajputana and the Central Provinces, rather weak in the south of the Peninsula and of about the average value elsewhere.

TABLE 9.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	″		″	″
Quetta	—·037	Jacobabad	—·033	+·004
Leh	—·019	Lahore	—·027	—·008
Murree	—·026	Peshawar	—·058	—·032
Simla	—·014	Ludhiana	—·020	—·006
Darjiling	—·013	Dhubri	—·027	—·014
Mount Abu	—·067	Deesa	—·035	+·032
Pachmarhi	—·081	Khandwa	—·061	+·020
Kodaikanal	—·034	Madura	—·055	—·021

Temperature.

10. On the mean of the month maximum temperature was lower than usual by 6° in Rajputana, 4° in Central India and 3° in the United Provinces, the Central Provinces and Hyderabad, but in no other division did the departures exceed 2½° in value. Minimum temperature, on the other hand, was sensibly normal in all the divisions with the exception of Bihar and Orissa, the United Provinces, the North-West Frontier Province, Central India and the Central Provinces, where it was between 3° and 5° higher than usual.

In Kashmir maximum and minimum temperatures were both appreciably above normal, while in Baluchistan conditions departed but little from the average.

TABLE 10.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	85·2	77·4	81·3	7·8	—0·9	+0·3	—1·2
2. Lower Burma	87·2	75·2	81·2	12·0	+0·1	0	+0·1
3. Upper Burma	87·0	71·5	79·2	15·5	—1·5	—0·5	—1·0
4. Assam	84·6	71·4	78·0	13·2	—1·7	+0·9	—2·6
5. Bengal	86·7	75 5	81·1	11·2	—0·9	+1·9	—2·8
6. Orissa	87·8	75·8	81·8	12·0	—1·3	+2·4	—3·7
7. Chota Nagpur	85·5	72·5	79·0	12·9	—2·1	+4 5	—6·6
8. Bihar	87·0	75·4	81·2	11·6	—1·7	+4·1	—5·8
9. United Provinces, East	88·6	72·1	80·3	16·5	—1·7	+4·5	—6·2
10. Do. do., West	87·8	66·9	77·3	20·9	—3·8	+1·6	—5·4
11. Punjab, East and North	89·6	64·1	76·8	25·5	—2·8	+1·9	—4·7
12. Do. South-west	94·2	65·8	80·0	28·5	—0·8	+2·4	—3·2
13. Kashmir	70·2	41·9	56·0	28·3	+4·7	+3·4	+1·3
14. North-West Frontier Province	91·4	63·2	77·3	28·2	+0·4	+3·7	—3·3
15. Baluchistan	82·2	49·7	65·9	32·6	+0·4	—2·3	+2·7
16. Sind	94·0	70·6	82·3	23·5	—0·5	+1·8	—2·3
17. Rajputana, West	90·8	68·3	79·5	22·5	—7·3	+1·1	—8·4
18. Do., East	87·9	66·6	77·3	21·3	—5·9	+0·2	—6·1
19. Gujarat	91·7	71·9	81·8	19·8	—2·3	+1·0	—3·3
20. Central India, West	85·4	66·4	75·9	19·0	—4·4	+2·5	—6·9
21. Do. do., East	85·3	70·1	77·7	15·2	—3·7	+4·7	—8·4
22. Berar	87·2	71·1	79·1	16·1	—2·7	+4·9	—7·6
23. Central Provinces, West	85·5	70·3	77 9	15·2	—3·4	+4·7	—8·1
24. Do. do., East	85·8	71·3	78·5	14·5	—1·8	+4·4	—6·2
25. Konkan	84·[illegible]	75·1	79·8	9·3	—2·3	+0·2	—2·5
26. Bombay Deccan	86·1	68·4	77·3	17·7	—2·4	+1·9	—4·3
27. Hyderabad, North	86·3	70·3	78·2	16·0	—2·1	+3·1	—5·2
28. Do., South	86·8	72·3	79·5	14·5	—2·9	+2·0	—4·9
29. Mysore	81 8	66·5	74·1	15·3	—1·4	+0·5	—1·9
30. Malabar	83·7	74·0	78·8	9·6	—0·8	—0·6	—0·2
31. Madras, South-east	88·6	74·5	81·5	14·1	—0·8	+0·4	—1·2
32. Do. Deccan	88·6	73·5	81·1	15·1	—2·7	+1·4	—4·1
33. Do. Coast, North	87·6	76·7	82·2	10·9	—1·5	+1·0	—2·5

TABLE 11.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·6	—0·2	—0·4
Assam	—1·7	+0·9	—0·4
Bengal	—0·9	+1·9	+0·5
Bihar and Orissa	—1·7	+3·6	+1·0
United Provinces	—2·7	+3·2	+0·3
Punjab	—2·3	+2·0	—0·1
North-West Frontier Province	+0·4	+3·7	+2·1
Sind	—0·5	+1·8	+0·7
Rajputana	—6·3	+0·4	—2·9
Bombay	—2·3	+1·1	—0·6
Central India	—4·1	+3·6	—0·2
Central Provinces	—2·8	+4·7	+0·9
Hyderabad	—2·6	+2·5	—0·1
Mysore	—1·4	+0·5	—0·5
Madras	—1·2	+0·6	—0·3

Winds.

11. (*a*) Winds were stronger and steadier than usual in Burma, Assam, the Central Provinces, Madras and Mysore, and were very unsteady and light in the North-West Frontier Province and Rajputana. In Bihar and Orissa and the Punjab a high rate of movement accompanied a normal steadiness, while in Sind the steadiness was up to the average and the velocity lower than usual. In the United Provinces and Central India the steadiness was low and the velocity normal or in excess; and in Hyderabad winds although weaker than usual were markedly steady. In Bengal and Bombay winds were fairly normal in both respects.

(*b*) The direction of movement was unusual in the Bombay Deccan, Hyderabad, the Madras Deccan and Mysore, being in fact such as ordinarily prevails in September.

TABLE 12.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·2	+ 9
Assam	+0·7	+21
Bengal	0	+ 3
Bihar and Orissa	+0·4	— 1
United Provinces	0	— 8
Punjab	+0·7	+ 2
North-West Frontier Province	—0·6	—10
Sind	—0·7	+ 1
Rajputana	—0·7	—15
Bombay	+0·1	— 4
Central India	+0·4	— 7
Central Provinces	+1·0	+16
Hyderabad	—0·6	+17
Mysore	+1·5	+44
Madras	+0·9	+11

Humidity and cloud.

12. Humidity, both absolute and relative, was in marked excess over nearly the whole area stretching from west Bengal, Orissa and north Madras to the Indus, and was fairly normal over the rest of the country.

The sky was unusually clear in Kashmir, the North-West Frontier Province and at a few places in Burma and south Madras, but elsewhere the cloud proportion was decidedly high, the greatest excess occurring in Bihar and Orissa and Central India.

TABLE 13.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	88	— 1	·838	—·019	5·7	+ 0·4
Assam	89	0	·791	—·001	5·7	+ 0·9
Bengal	89	+ 4	·893	+ ·047	5·4	+ 1·9
Bihar and Orissa	88	+ 9	·859	+ ·121	5·5	+ 2·9
United Provinces	77	+ 7	·719	+ ·119	2·5	+ 1·5
Punjab	67	+ 11	·550	+ ·104	1·1	+ 0·6
North-West Frontier Province.	68	+ 9	·516	+ ·095	0·5	—0·3
Sind	64	+ 3	·603	+ ·019	1·5	+ 0·7
Rajputana	66	+ 16	·570	+ ·119	2·6	+ 1·6
Bombay	78	+ 8	·735	+ ·057	4·7	+ 2·1
Central India	79	+ 16	·673	+ ·135	4·9	+ 3·0
Central Provinces	81	+ 16	·731	+ ·163	4·8	+ 2·2
Hyderabad	80	+ 13	·731	+ ·092	5·7	+ 2·5
Mysore	85	+ 4	·628	—·012	7·3	+ 0·9
Madras	83	+ 2	·820	+ ·004	6·1	+ 0·9

Rainfall.

13. The monsoon was abnormally active and provided abundant rainfall over nearly the whole country, the total quantity received in the plains being as much as 2½″ or 89 per cent. in excess of the normal. Most of the rainfall occurred in connection with four disturbances. The first of these travelled from the head of the Bay of Bengal on the 1st into Bihar on the 5th, and caused widespread rain over northern and central India. General, and for the time of year, heavy rain occurred on the 3rd and 4th in the Punjab where, as a rule, the final burst of monsoon rainfall is recorded in the second or third week of September. The dispersion of this disturbance was followed by a temporary withdrawal of the monsoon currents from the Indian region, where hardly any rain fell between the 9th and the 12th. On the 13th rainfall reappeared over the south of the Peninsula in connection with the second disturbance of the month. This crossed the Coromandel coast on the evening of the 16th and traversing the plateau of Mysore passed out into the Arabian Sea during the next 24 hours. Although of slight intensity, it gave general, and in places heavy, rain in the Peninsula. The third disturbance was developed in the neighbourhood of the Andamans on the 19th. It crossed the coast near Waltair about midnight on the 23rd and travelling westwards was dissipated over Hyderabad during the 25th. It was probably of moderate intensity while crossing the Bay and gave widespread rain over the Peninsula and north-east India. Some heavy falls occurred on the Orissa and north Madras coasts, Gopalpur recording 11½″ and Sompeta 13·37″ in 48 hours.

The fourth disturbance probably entered the Andaman Sea from the Gulf of Siam on the 25th and advancing along an unusual course crossed into the Peninsula near Masulipatam on the 30th; at the end of the month it was dissipating over Hyderabad. The rainfall associated with it was neither so widespread nor so heavy as that accompanying its predecessor.

The month was, as is usually the case, almost rainless in Baluchistan and Sind, but elsewhere the recorded amounts of rainfall were more or less above normal. The excess was very large, amounting to 8″ in Hyderabad South, about 7″ in Bengal, Chota Nagpur and the Madras Coast North, 6″ in the Central Provinces West and the Madras Deccan, 5½″ in Orissa and nearly 5″ in the Central Provinces East.

The month is in fact the wettest October on record during the past 40 years.

The most noteworthy features of the month thus were :—(*a*) the unseasonable burst of rainfall in the first week over the Punjab, (*b*) the continuance of rainfall up to the end of the month in north-east India where the rainy season usually comes to an end near the middle of the month, (*c*) the commencement at about the average date of the autumnal rains in Madras, (*d*) the occurrence of unusually heavy rain in north-east India and the Peninsula, and (*e*) the prevalence of drier weather even than usual in Persia and Baluchistan.

TABLE 14.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	15·5	12·9	11·87	8·71	+ 3·16	+ 36
2. Lower Burma	10·8	10·4	7·95	7·68	+ 0·27	+ 4
3. Upper Burma	8·4	7·2	6·24	5·41	+ 0·83	+ 15
4. Assam	8·7	6·4	8·99	5·14	+ 3·85	+ 75
5. Bengal	11·5	4·9	11·65	4·50	+ 7·15	+ 159
6. Orissa	11·5	5·1	9·75	4·23	+ 5·52	+ 130
7. Chota Nagpur	12·1	3·0	9·23	2·07	+ 7·16	+ 346
8. Bihar	7·1	2·6	6·02	2·36	+ 3·66	+ 155
9. United Provinces, East	3·7	1·7	2·16	1·99	+ 0·17	+ 9
10. Do., West	3·0	0·8	2·40	0·90	+ 1·50	+ 167
11. Punjab, East and North	1·4	0·4	1·27	0·26	+ 1·01	+ 388
12. Do., South-west	0·9	0·1	0·51	0·04	+ 0·47	+ 1175
13. Kashmir	1·4	1·2	1·09	0·64	+ 0·45	+ 70
14. North-West Frontier Province	0·9	0·6	0·57	0·26	+ 0·31	+ 119
15. Baluchistan	0·1	0·1	0·01	0·03	— 0·02	— 67
16. Sind	0·2	0	0·05	0·01	+ 0·04	+ 400
17. Rajputana, West	1·1	0·1	0·76	0·05	+ 0·71	+ 1420
18. Do., East	2·0	0·4	0·99	0·44	+ 0·55	+ 125
19. Gujarat	2·5	0·8	1·46	0·59	+ 0·87	+ 147
20. Central India, West	3·1	0·8	2·04	0·56	+ 1·48	+ 264
21. Do. do., East	4·9	1·1	3·59	1·02	+ 2·57	+ 252
22. Berar	6·1	2·1	3·45	1·55	+ 1·90	+ 123
23. Central Provinces, West	7·7	1·8	7·20	1·35	+ 5·85	+ 433
24. Do. do., East	7·2	2·2	6·37	1·55	+ 4·82	+ 311
25. Konkan	10·8	5·4	8·37	3·97	+ 4·40	+ 111
26. Bombay Deccan	8·5	4·5	5·76	3·06	+ 2·70	+ 88
27. Hyderabad, North	8·4	3·3	4·86	2·44	+ 2·42	+ 99
28. Do., South	12·1	4·3	10·97	2·98	+ 7·99	+ 268
29. Mysore	9·1	7·9	6·60	5·42	+ 1·18	+ 22
30. Malabar	14·8	1·2	11·35	9·05	+ 2·30	+ 25
31. Madras, South-east	9·4	0·9	7·86	7·28	+ 0·58	+ 8
32. Do. Deccan	10·3	0·6	10·27	4·27	+ 6·00	+ 141
33. Do. Coast, North	13·3	6·6	13·58	6·33	+ 7·25	+ 115

TABLE 15.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	6·91	6·34	+0·57	9
Assam	8·99	5·14	+3·85	+75
Bengal	11·65	4·50	+7·15	+159
Bihar and Orissa	7·76	2·76	+5·00	+181
United Provinces	2·29	1·40	+0·89	+ 64
Punjab	1·09	0·20	+0·89	+445
North-West Frontier Province	0·57	0·26	+0·31	+119
Sind	0·05	0·01	+0·04	+400
Rajputana	0·91	0·32	+0·59	+184
Bombay	4·84	2·43	+2·41	+ 99
Central India	2·86	0·79	+2·07	+262
Central Provinces	5·83	1·49	+4·34	+224
Hyderabad	7·73	2·69	+5·04	+187
Mysore	6·60	5·42	+1·18	+ 22
Madras	10·18	6·83	+3·35	+ 49
Mean of India	5·38	2·85	+2·53	+ 89

Snowfall.

I.—AFGHANISTAN.

14. Snow to a depth of about three inches is reported to have fallen on the Paghman hills during the first week.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Kurram.*—There were snowstorms on the higher peaks of the Sufed Koh on the 11th and 12th.

(*b*) *Drosh.*—Two slight falls occurred on the neighbouring mountains.

III.—KASHMIR.

No snow fell on the mountains around Srinagar and Dras. On the hills surrounding Kargil light snow fell on the 5th, 14th and 16th, but melted away quickly. Slight falls occurred also on the summits of the ranges near Skardu on the 6th, 12th and 13th. At the end of the month there was no snow lying on the ranges near Kargil. No information is available regarding the accumulations elsewhere.

IV.—PUNJAB.

Kilba (*Simla Hills*).—Snow storms occurred on the neighbouring passes down to 11,000 feet on the 4th, 5th, 11th, 15th, 16th and 18th.

TABLE 16.

Name of pass.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	"	"
Shatul	1½	2⅔
Rupin	½	3
Brua	1	3¾
Harang	*nil*	¼

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—Snow to a total depth of about 6 feet fell on the higher peaks in the north of the district.

(*b*) *Almora.*—The total fall of the month was estimated at 3½ feet in Malla Darma, 3 feet in Malla Johar, 2 feet in Chaudas and 1½ feet in Byans and Malla Danpur. The snowline came down to a distance of 2 to 5 miles from the perpetual snows.

TABLE 17.

Name of pass or peak.	Depth of accumulation at the end of the month.			
	Reported.		Normal.	
	′	″	′	″
Nuwe pass	13	0	22	9
Lampia „	6	7	8	5
Lipulekh „	4	5	6	4
Untadhura	3	0	8	0
Ralamdhura	3	9	5	5
Milamdhura	3	0	6	11
Pindari peak	1	6	2	9
Kaphini „	1	6	2	10
Kuntela „	1	6	2	10
Binkaru pass	2	6	10	10

VI.—NORTH-EAST FRONTIER TRACT, CENTRAL AND EASTERN SECTIONS.

In the first week of October, there was a heavy snowstorm on the peaks of the Lenging range between the Dibong and Dihong, on Sajuba 11,000′, and the other peaks to the north-east, and on Dapha Bum, 15,200′; on Sajuba the snow was observed down to about 9,000′. In the upper Lohit and Tidding valleys it came even lower. It melted very quickly causing a high rise in the rivers.

In the third week of October there was another heavy fall which melted equally quickly.

SUMMARY.

15. In the mountain zone bordering upper India there were a few falls, mainly on the higher elevations, and the accumulations of snow still existing at the end of the month were in general distinctly below the average. In the central and eastern sections of the North-East Frontier Tract, the snowfall was heavier than usual and occurred to very low levels.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs and 16 hrs. at 11 stations in India, etc., in October, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 11

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, Wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·855	29·737	·118	29·792	—·048	29·760	86·8	76·6	10·2	90·3	73·5	16·8	82·6	83·8	81·2	+1·2	75·1	78·4	78·2	77·2
	VI.—Punjab.																					
11	Lahore . .	702	29·169	29·070	·099	29·108	—·041	29·775	91·1	64·3	26·8	101·5	47·3	54·2	81·5	90·1	76·3	+0·6	61·3	69·1	71·3	67·2
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·485	28·380	·105	28·426	—·033	29·792	89·1	64·5	24·6	92·0	52·0	40·0	83·5	86·0	75·5	—2·4	61·0	67·3	67·4	65·2
	X.—Bombay.																					
25	Bombay . .	37	29·848	29·740	·108	29·791	—·056	29·768	86·2	77·3	8·9	89·4	74·8	14·6	81·7	83·9	80·4	—0·3	74·8	77·8	78·5	77·0
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·920	26·810	·110	26·866	—·011	28·718	89·5	65·8	14·7	85·9	61·3	24·6	74·7	77·1	71·7	—0·1	64·6	68·6	69·2	67·5
	XV.—Madras.																					
31	Pudukkottai .	318	29·560	29·435	·125	29·497		29·743	90·7	74·2	16·5	97·1	69·6	27·5	84·5	87·5	82·5			74·9	75·6	
	Madras . .	22	29·831	29·719	·112	29·780	—·065	29·733	89·0	76·3	12·7	98·4	72·5	25·9	84·3	85·0	81·4	+0·6	74·9	78·0	78·6	77·1
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain . .		23·163	23·101	·062	23·124		23·086	64·6	44·1	20·5	72·4	34·2	38·2	56·4	60·4	54·3			50·7	53·4	
	Kalabagh . .																					
	Katmandu . .	4,388	25·685	25·596	·089	25·638	+·001	25·591	79·4	58·7	20·7	82·8	49·5	33·3	70·5	76·1	69·1	+2·2	56·2	64·2	66·4	62·3
	Kodaikanal . .	7,688	22·811	22·742	·069	22·777		22·711	63·0	51·7	11·3	68·2	47·6	20·6	60·7	58·0	57·4		49·3	55·8	56·0	53·7
	Extra India.																					
	Seychelles . .	15	30·021	29·914	·107	29·978	+·023	29·917	81·3	76·5	4·5	83·3	74·3	9·0	79·8	80·7	77·6	—0·1	70·1	74·0	74·4	72·8
	Mauritius . .	181																				

N.B.—Elevations in italics indicate barometric determinations.

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Departure from old normal.

A.

stations in India, etc., in October, 1916.

Vapour tension, in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall			
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.	Station.	Number of sub-division.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·851	·915	·8.9	905	+·089	93	82	77	87	+ 5	7·2	6·7	6·9	+2·3	6	6	8	9	8	6	7	4	8	N 83° E	N 18° W	9	11	61	49	14·62	2·48	Calcutta	5
																															VI.—Punjab.	
·526	·560	·523	·543	+·093	94	51	37	61	+ 9	0·9	0·7	0·8	0	31	4	0	0	4	0	4	5	14	N 61° W	N 9° W	27	11	19	28	0·50	0·39	Lahore	11
																															IX.—Rajputana.	
·514	·480	·451	·486	+ 034	80	42	33	57	+11	2·3	3·7	3·0	+1·3	9	7	18	6	0	1	2	10	9	N 2° E	N 27° W	30	38	62	54	1·43	1·30	Jaipur	18
																															X.—Bombay.	
·828	·899	·991	·889	+·037	99	84	78	86	+ 5	6·0	5·8	5·9	+2·8	0	2	3	9	6	7	3	13	19	N 73° W	N 9° E	23	32	113	159	4·79	0·92	Bombay	25
																															XIV.—Mysore.	
·594	·630	·619	·628	+·020	94	71	68	82	+ 4	8·2	8·4	8·3		2	4	2	5	2	0	10	23	14	N 78° W	N	53	8	129	82	7·08	1·99	Bangalore	29
																															XV.—Madras.	
	·735	·721				62	57			5·3	6·7	6·0		17	7	3	1	1	5	5	8	15	N 50° W		34		66		3·80	1·97	Pudukkottai	31
·845	·875	·891	·885	+·029	93	75	75	83	0	5·9	6·5	6·2	+0·2	0	7	1	11	2	7	9	11	8	S 45° W	N 54° E	13	20	89	84	15·20	3·31	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·318	·341				68	64			2·6	3·9	3·3																	2·71	1·88	Sarain.	
																															Kalabagh.	
·429	·532	·543	·499	+·023	85	71	60	73	— 2	3·9	4·5	4·2	+0·2	0	0	3	19	0	0	1	36	3	N 79° W	S 86° W	29	34	32	12	2·92	0·89	Katmandu.	
·326	·396	·428	·383		85	75	89	83		6·8	9·2	8·0		0	11	4	1	7	2	0	15	22	N 44° W		50		163		6·97	1·57	Kodaikanal.	
																															Extra India.	
·646	·763	·771	·710	—·054	70	75	73	75	— 6	5·2	5·0	5·1	—1·1*	3	1	0	7	34	11	0	2	4	S 40° E	S 39° E	66	61	219	139	1·13	0·90	Seychelles.	
																															Mauritius.	

* Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in October, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	—·017	87·1	—0·6	73·7	—0·2	80·4	—0·4	13·4	+0·2	+ 9	88	— 1	·838	—·019	5·7	+0·4	6·91	6·34	+0·57
Assam	—·012	84·6	—1·7	71·4	+0·9	78·0	—0·4	13·2	+0·7	+21	89	0	·791	—·001	5·7	+0·9	8·99	5·14	+3·85
Bengal	—·034	86·7	—0·9	75·5	+1·9	81·1	+0·5	11·2	0	+ 3	89	+ 4	·893	+·047	5·4	+1·9	11·65	4·50	+7·15
Bihar and Orissa	—·042	86·8	—1·7	74·8	+3·6	80·9	+1·0	12·0	+0·4	— 1	88	+ 9	·859	+·121	5·5	+2·9	7·76	2·76	+5·00
United Provinces of Agra and Oudh	—·030	88·2	—2·7	69·7	+3·2	78·9	+0·3	18·5	0	— 8	77	+ 7	·719	+·119	2·5	+1·5	2·29	1·40	+0·89
Punjab	—·026	91·1	—2·3	64·6	+2·0	77·9	—0·1	26·5	+0·7	+ 2	67	+11	·550	+·104	1·1	+0·6	1·09	0·20	+0·89
North-West Frontier Province	—·057	91·4	+0·4	63·2	+3·7	77·3	+2·1	25·2	—0·6	—10	68	+ 9	·516	+·095	0·5	—0·3	0·57	0·26	+0·31
Sind	—·039	94·0	—0·5	70·6	+1·8	82·3	+0·7	23·5	—0·7	+ 1	64	+ 3	·603	+·019	1·5	+0·7	0·05	0·01	+0·04
Rajputana	—·030	89·1	—6·3	67·3	+0·4	78·2	—2·9	21·8	—0·7	—15	66	+16	·570	+·119	2·6	+1·6	0·91	0·2	+0·59
Bombay	—·055	88·4	—2·3	71·5	+1·1	80·0	—0·6	16·9	+0·1	— 4	78	+ 8	·735	+·057	4·7	+2·1	4·84	2·43	+2·41
Central India	—·045	85·3	—4·1	68·3	+3·6	76·8	—0·2	17·1	+0·4	— 7	79	+16	·673	+·135	4·9	+3·0	2·86	0·79	+2·07
Central Provinces	—·063	86·0	—2·8	70·8	+4·7	78·4	+0·9	15·2	+1·0	+16	81	+16	·731	+·163	4·8	+2·2	5·83	1·49	+4·34
Hyderabad	—·055	86·6	—2·6	71·4	+2·5	79·0	—0·1	15·1	—0·6	+17	80	+13	·731	+·092	5·7	+2·5	7·73	2·69	+5·04
Mysore	—·042	81·8	—1·4	66·5	+0·5	74·1	—0·5	15·3	+1·5	+14	85	+ 4	·628	—·012	7·3	+0·9	6·60	5·42	+1·18
Madras	—·050	87·5	—1·2	74·9	+0·6	81·2	—0·3	12·6	+0·9	+11	83	+ 2	·820	+·004	6·1	+0·9	10·18	6·83	+3·35

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·761		29·835	29·844	5th	29·704	12th	77·6	74·7	82·8		74·0		78·4		8·8	87·8	15th	72·0	25th
	Mergui	66	29·840	—·035	29·836	29·955	5th	29·765	25th	76·5	75·3	83·3	−3·6	72·1	−0·6	77·7	−2·1	11·2	87·9	7th	68·9	31st
	Tavoy	19	29·880	—·046	29·831	30·003	5th	29·811	25th	78·7	75·7	87·3	−0·4	75·5	+1·8	81·4	+0·7	11·8	90·2	25th	71·7	22nd
	Moulmein	94	29·832	—·012	29·865	29·942	5th	29·759	1st	79·8	76·1	89·3	+1·4	74·9	0	82·1	+0·7	14·4	93·0	31st	72·0	21st & 22nd.
	Rangoon	18	29·893	—·018	29·849	30·001	5th	29·810	1st	79·9	77·1	88·9	+1·4	76·3	+0·5	82·6	+0·9	12·6	92·0	26th	73·4	2nd
	Bassein	27	29·872	—·029	29·835	29·975	5th	29·775	1st	80·4	78·0	88·5	+1·[illegible]	76·1	+0·5	82·3	+0·9	12·4	93·2	18th	73·4	20th
	Diamond Island	41	29·838	—·011	29·814	29·960	5th	29·737	1st	81·8	79·4	85·8	−0·4	77·8	+0·7	81·8	+0·1	8·0	89·0	19th	74·2	31st
	Toungoo	164	29·750	—·012	29·857	29·849	5th	29·563	1st	80·0	76·8	90·8	+0·9	72·9	−1·7	81·9	−0·4	17·9	94·7	27th	70·1	20th
	Kyaukpyu	18	29·871		29·829	29·970	5th	29·739	1st	8.10	74·5	87·5		77·4		82·4		10·1	92·9	28th	73·6	5th
	Akyab	20	29·870	—·026	29·831	29·951	5th	29·718	1st	79·6	77·4	83·1	+0·6	75·2	−1·4	81·7	−0·4	12·5	91·8	28th	73·0	19th
3	Minbu	*165*	29·737	—·022	29·846	29·805	5th	29·612	1st	78·4	76·0	88·2	−2·3?	75·3	+0·1	81·7	−1·1?	12·9	91·7	8th	72·2	18th
	Yamethin	644	29·263	—·001	29·859	29·332	5th	29·160	1st	78·6	75·4	89·9	−1·1	74·2	+0·2	82·0	−0·5	15·7	94·3	28th	72·0	21st
	Mandalay	250	29·676	+·006	29·875	29·729	10th	29·531	1st	80·7	76·3	92·4	+0·6	75·2	+0·4	83·8	+0·5	17·2	98·5	28th	73·2	22nd
	Monywa	*280*	29·630	—·010	29·861	29·692	30th	29·416	1st	78·[illegible]	75·3	90·0	−0·3	75·6	+0·2	82·8	−0·1	14·4	95·1	28th	71·6	9th
	Lashio	*2,890*	27·146	—·019	27·092	27·204	21st	27·037	1st	67·9	66·4	80·7	−2·2	62·3	−1·5	71·5	−1·9	18·4	85·1	27th	53·0	9th
	Bhamo	*361*	29·552	+·005	29·872	29·6[illegible]	22nd	29·4[illegible]	1st	73·1	71·5	85·0	−2·8	68·7	−1·1	76·8	−1·5	16·3	91·2	15th	63·2	8th
	Myitkyina	458	29·419	+·009	29·873	29·523	21st	29·286	7th	72·4	70·0	82·9	−3·3	69·3	−1·5	76·1	−2·3	13·6	89·4	14th	63·2	9th
	II.—Assam.																					
4	Dibrugarh	353	29·566	—·009	29·886	29·667	24th	29·354	7th	74·3	71·3	82·6	−1·9	70·1	+0·6	76·4	−0·7	12·5	92·4	1st	64·1	8th
	Sibsagar	333	29·595	—·019	29·893	29·862	21st	29·104	6th	73·7	72·0	81·7	−2·7	67·3	−2·8?	74·7	−2·7?	15·9	90·0	1st	62·0	8th
	Tezpur	252	29·677	+·002	29·891	29·7[illegible]9	30th	29·573	6th	74·4	72·2	84·3	−1·8	71·3	+0·2	77·8	−0·8	13·0	92·6	1st	66·9	8th
	Gauhati	196	29·731	—·009	29·885	29·8[illegible]3	18th	29·54[illegible]	6th	75·6	73·4	84·9	−2·4	72·1	+1·6	78·4	−0·4	12·8	95·3	1st	69·6	19th, 20th & 22nd.
	Dhubri	115	29·785	—·027	29·853	29·874	30th	29·574	7th	76·7	74·1	82·5	−2·4	73·6	+0·9	78·0	−0·7	8·9	90·5	1st	71·3	1st
	Silchar	100	29·786	—·042?	29·893	29·8[illegible]5	24th	29·596	7th	77·4	75·2	87·2	−1·5	73·5	+1·2	80·4	−0·1	13·7	92·5	29th & 31st.	70·6	20th
	Srimangal	66	29·794		29·810	29·887	24th	29·604	7th	76·8	75·1	85·0	−0·7	71·7	+1·1	80·3	+0·5	17·3	93·2	25rd	67·6	20th
	III.—Bengal.																					
5	Cox's Bazar	36	29·845		29·826	29·904	5th	29·673	1st	81·8	78·5	88·0		74·6		81·3		13·4	92·8	28th	72·9	18th & 24th.
	Chittagong	87	29·795	—·031	29·828	29·857	14th & 15th.	29·611	1st	78·7	77·2	87·8	+1·2	75·0	+1·7	81·4	+1·5	12·8	91·5	24th	73·2	24th & 25th.
	Noakhali	43	29·846	—·041	29·835	29·905	16th	29·652	1st	79·8	77·0	87·0	+0·8	75·6	+2·1	81·3	+1·5	11·4	90·8	15th	73·3	5th
	Barisal	12	29·871	—·022	29·830	29·933	16th	29·681	1st	80·3	77·5	86·5	−1·1	75·8	+1·2	81·1	+0·1	10·7	90·6	15th	71·6	29th
	Narayanganj	23	29·854	—·034	29·829	29·930	24th	29·672	1st	80·5	77·3	86·9	−1·0	76·3	+1·0	81·6	0	10·6	90·8	23rd	73·2	6th
	Mymensingh	63	29·829	—·032	29·835	29·899	30th	29·638	1st	79·1	77·0	86·1	−0·6	75·8	+2·2	80·9	+0·8	10·3	92·0	1st	73·3	6th
	Bogra	75	29·80[illegible]	—·031	29·836	29·89[illegible]	30th	29·62[illegible]	1st	78·5	76·3	85·9	−1·4	74·9	+2·1	80·4	+0·3	11·0	90·5	1st	72·0	31st
	Dinajpur	123	29·75[illegible]	—·022	29·846	29·852	30th	29·562	7th	78·[illegible]	75·7	85·6	−1·0	74·2	+2·5	79·9	+0·3	11·4	90·8	1st	70·1	31st
	Jalpaiguri	283	29·610	—·02[illegible]	29·855	29·687	18th	29·421	7th	75·2	73·0	85·9	−0·5	71·8	+1·7	78·9	+0·6	14·1	91·3	1st	68·2	29th

N.B.—Elevations in italics indicate barometrical determinations.

B.

stations in India, etc., in October, 1916.

Wind direction. Number of winds from Calm. (24)	N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st May to 31st October, 1916. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															I.—Burma.
13	0	7	5	2	1	0	1	2	N 62° E		3·3			30		87		·827		7·3		20		12·90			126·93			1·90	Victoria Point.
27	0	0	2	1	1	0	0	0	S 57° E	N 5° E	1·5	1·1	+0·4	10	− 8	94	+ 5	·858	−·010	3·7	−0·9	16	− 0·6	15·26	12·35	+ 2·91	133·90	147·48	−13·58	2·37	Mergui.
14	5	6	2	1	2	0	0	1	N 41° E	N 9° E	1·6	0·8	+0·8	30	+27	87	− 2	·845	−·022	5·1	+1·5	10	− ·4	13·53	10·33	+ 2·20	200·76	207·51	− 6·73	3·98	Tavoy.
1	0	11	13	4	1	1	0	0	N 82° E	S 85° E	4·9	1·6	+3·3	76	+44	84	− 4	·852	−·026	4·8	−0·2	6	− 5·3	3·99	8·71	− 4·72	164·03	181·83	−17·80	1·31	Moulmein.
2	4	8	7	2	4	1	1	2	N 65° E	S 53° E	3·1	2·1	+1·0	40	+18	88	− 2	890	−·013	9·0	+3·22	11	+ 1·1	7·79	6·75	+ 1·04	98·16	92·78	+ 5·38	2·38	Rangoon.
9	2	3	6	7	4	0	0	0	S 70° E	N 80° E	2·5	2·4	+0·1	46	+28	90	− 3	·924	+·013	5·4	+0·6	15	+ 2·7	6·77	8·00	− 1·23	115·10	104·44	+10·66	1·22	Bassein.
1	2	7	11	4	1	3	2	0	N 86° E	N 53° E	7·5	5·5	+2·0	49	+17	86	+ 3	·9 8	+·019	4·7	−0·8	14	+ 3·1	9·30	8·11	+ 1·19	110·87	109·51	+ 1·36	1·47	Diamond Island.
9	7	6	0	3	3	0	0	3	N 27° E	N 84° E	1·4	1·3	+0·1	30	+12	86	− 3	·871	−·021	5·9	+0·3	8	− 2·2	5·16	7·42	− 2·26	70·73	77·60	− 6·87	1·92	Toungoo.
23	0	0	1	1	0	1	0	0	S 38° E		0·3			3		86		·906		6·1		10		6·89			161·46			1·95	Kyaukpyu.
3	2	14	6	5	0	1	0	0	N 68° E	N 50° E	2·4	1·8	+0·6	69	− 6	90	− 1	·906	−·008	6·4	+1·1	10	+ 1·2	14·37	9·89	+ 4·48	228·86	184·26	+44·60	2·39	Akyab.
6	3	0	0	5	3	0	2	12	N 54° W	S 10° W	2·1	4·7	−2·6	27	+16	89	+ 5	·852	+·001	6·3	+1·6	5	− 1·3	7·07	4·51	+ 2·56	40·84	30·56	+10·28	2·45	Minbu.
20	1	0	0	2	3	0	0	5	N 87° W	S 45° E	0·9	2·5	−1·6	7	−30	85	− 2	·831	−·022	3·5	−1·7	9	+ 1·1	3·98	5·88	− 1·90	43·63	34·17	+ 9·46	1·40	Yamethin.
19	2	0	1	6	1	1	1	0	S 42° E	S	1·0	2·3	−1·3	17	− 8	81	− 2	·845	−·010	1·9	−2·0	6	− 0·4	2·70	5·10	− 2·30	26·51	29·48	− 2·97	0·70	Mandalay.
8	9	5	1	4	1	0	0	3	N 25° E		1·3			40		86	− 3	·832	−·058	5·9	+0·5	5	− 1·5	3·03	4·68	− 1·60	27·71	27·89	− 0·18	1·11	Monywa.
21	2	4	0	0	1	2	0	1	N 13° E		1·6			10		92	− 1	·627	−·030	8·5	+1·0	11	+ 1·8	2·70	5·43	− 2·73	39·68	55·88	−16·20	0·58	Lashio.
22	4	4	0	0	0	0	0	1	N 16° E	N 4° W	0·8	1·4	−0·6	23	+ 1	92	+ 3	·748	−·031	6·4	+1·7	12	+ 5·8	4·89	3·94	+ 0·95	57·70	66·04	− 8·34	0·90	Bhamo.
29	0	0	1	1	0	0	0	0	S 66° E		1·2			7		88	− 1	·700	−·074	6·2	0	8	− 0·4	10·24	7·15	+ 3·09	66·50	70·58	− 4·08	3·85	Myitkyina.
																															II.—Assam.
21	0	6	3	1	0	0	0	0	N 65° E		1·2			27		86	− 3	·721	−·012	5·9	+1·1	7	− 0·6	3·18	4·26	− 1·18	87·81	84·97	+ 2·84	1·33	Dibrugarh.
7	9	12	0	1	1	0	1	0	N 28° E	N 86° E	2·1	1·4	+0·7	59	+34	92	− 4	·763	−·033	7·5	+0·4	8	+ 0·5	5·33	4·97	+ 0·36	73·00	76·39	− 3·39	1·71	Sibragar.
28	0	2	0	0	0	0	1	0	N 18° E		2·4			5		89	0	·761	−·032	5·7	+1·3	8	+ 2·2	6·13	3·75	+ 2·38	55·39	58·45	− 3·06	3·26	Tezpur.
27	0	3	1	0	0	0	0	0	N 56° E		0·4			0		89	0	·791	−·001	7·8	+2·2	9	+ 5·4	7·30	2·46	+ 4·84	41·74	52·37	−10·63	3·10	Gauhati.
1	1	11	13	2	1	1	1	0	N 75° E	N 67° E	4·8	2·8	+2·0	69	+26	83	0	·804	+·007	5·0	+1·4	11	+ 6·8	9·44	3·59	+ 5·85	82·30	86·54	− 4·24	2·31	Dhubri.
27	0	1	2	0	0	0	1	0	N 66° E	N 63° E	0·7	1·2	−0·5	7	+ 3	89	0	·840	+·011	4·5	−0·9	12	+ 4·6	15·25	6·49	+ 8·76	89·42	97·40	− 7·98	6·21	Silchar.
																93	+ 7	·858	+·020	3·4		13	+ 4·7	10·15	7·88	+ 2·27	69·02	78·51	− 9·49	2·48	Srimangal.
																															III.—Bengal.
18	0	0	1	6	4	0	0	2	S 29° E		2·0			30		86		·932		4·1		11		6·84			133·74			3·45	Cox's Bazar.
23	1	0	1	4	1	0	1	0	S 45° E	N 67° E	1·9	2·0	−0·1	13	−34	93	+ 4	·911	+·049	4·5	0	9	+ 2·1	12·37	6·22	+ 6·15	100·55	86·86	+13·69	3·06	Chittagong.
9	2	9	1	7	2	1	0	0	N 85° E		1·7			39		88	0	·891	+·016	5·7	+2·9	13	+ 5·7	10·35	7·96	+ 2·39	108·36	108·13	+ 0·23	1·56	Noakhali.
13	1	5	3	0	2	1	1	0	N 59° E	N 20° E	1·0	1·5	−0·5	17	+ 6	88	+ 4	932	+·012	5·9	+2·6	14	+ 7·7	13·11	5·93	+ 7·18	76·32	70·29	+ 6·04	3·20	Barisal.
16	0	2	3	3	5	1	1	0	S 37° E	N 50° E	0·9	2·0	−1·1	27	+16	87	+ 2	·896	+·025	5·8	+1·5	13	+ 7·5	14·04	4·58	+ 9·46	70·39	60·14	+10·25	3·54	Narayanganj.
25	0	1	5	0	0	0	0	0	N 84° E	S 85° E	0·8	1·2	−0·4	20	−17	90	+ 3	·898	+·045	6·0	+1·6	11	+ 5·5	16·29	5·20	+11·09	87·54	82·97	+ 4·57	3·85	Mymensingh.
14	5	5	4	1	0	1	0	1	N 41° E	N 86° E	1·2	1·2	0	33	+17	92	+ 8	·893	+·064	5·1	+2·7	14	+ 9·1	14·26	4·22	+10·04	73·20	62·61	+10·59	2·64	Bogra.
5	1	9	11	3	1	1	0	0	N 79° E	N 53° E	1·5	1·8	−0·3	62	+40	89	+ 4	·850	+·050	5·2	+2·1	12	+ 8·2	12·65	3·09	+ 9·57	93·79	64·85	+28·94	3·52	Dinajpur.
27	1	0	0	1	2	0	0	0	S 24° E	N 51° E	1·2			7	−36	90	+ 3	·783	+·014	3·5	+0·7	10	+ 5·6	9·28	4·41	+ 4·87	153·00	116·56	+36·44	4·60	Jalpaiguri.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Saugor Island	10	29·857	—·035	29·812	29·926	14th & 16th.	29·700	1st	80·8	78·4	86·4	—0·7	76·0	—0·2	81·2	—0·5	10·4	90·3	1st	72·8	24th
	Midnapore	149	29·706	—·050	29·804	29·779	14th & 16th.	29·539	2nd	80·3	77·1	87·4	—2·0	76·1	+2·9	81·8	+0·5	11·3	92·4	1st	73·5	23rd
	Calcutta	21	29·843	—·016	29·811	29·913	14th & 16th.	29·688	2nd	79·7	77·7	87·0	—0·2	78·5	+2·2	81·8	+1·0	10·5	92·3	1st	73·5	11th
	Jessore	30	29·850	—·029	29·827	29·923	16th	29·669	1st	81·1	77·2	86·7	—1·7	76·7	+2·4	81·7	+0·3	10·0	91·0	1st	72·8	6th
	Burdwan	99	29·783	—·052	29·810	29·840	14th & 16th, 31st	29·567	6th	79·7	77·0	87·5	—1·5	76·5	+2·0	82·0	+0·3	11·0	90·6	1st	73·5	31st
	Berhampore	67	29·803	—·041	29·820	29·882	14th	29·600	6th	79·7	77·2	85·9	—1·9	76·7	+2·4	81·3	+0·3	9·2	89·6	1st	73·0	31st
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·819	—·036	29·814	29·897	16th	29·659	2nd	79·2	77·0	87·3	—1·1	75·7	+2·5	81·5	+0·7	11·6	93·3	1st	73·1	29th
	Hukitola (False Point)	29	29·825	—·053	29·795	29·905	14th	29·679	1st													
	Cuttack	80	29·780	—·017	29·801	29·858	17th	29·631	1st	79·7	76·4	88·0	—2·1	76·2	+1·6	82·2	—0·3	11·8	92·4	1st	74·6	17th
	Puri	24	29·832	—·051	29·797	29·919	14th	29·701	2nd	81·4†	78·7†	88·7†	—2·3	78·5	+1·7	83·6	+0·7	10·2	93·3	16th	74·4	5th
	Angul	455	29·393	—·046	29·804	29·485	14th	29·251	3rd	78·4	75·7	87·1	—2·0	74·2	+3·3	80·6	+0·7	12·9	91·8	1st	72·0	19th & 20th.
	Sambalpur	488	29·339	—·032	29·807	29·450	14th & 16th.	29·217	3rd	79·0	75·9	87·8	—1·0	74·4	+2·8	81·1	+3·9	13·4	91·0	1st	71·9	17th & 19th.
7	Chaibasa	73[illegible]	29·103	—·057	29·798	29·190	14th	28·940	6th	77·6	74·6	87·2	—1·2	74·2	+4·3	80·7	+1·5	13·0	92·1	1st	71·9	9th
	Ranchi	2,128	27·741	—·037	29·802	27·828	14th	27·517	6th	73·2	71·2	80·3	—2·5	70·1	+3·8	75·4	+0·7	10·7	83·5	1st	67·7	13th
	Purulia	516	29·053	—·023	29·831	29·133	14th & 16th.	28·835	6th	77·1	74·8	87·3	—1·7	73·4	+3·2	80·3	+0·7	13·9	92·9	1st	70·2	23rd
	Daltonganj	730	29·115	—·063?	29·806	29·219	14th	28·925	6th	76·3	73·8	83·5	—2·9	72·4	+6·8	79·5	+1·9	14·1	92·2	1st	69·7	13th
8	Purnea	124	29·745	—·043	29·825	29·828	31st	29·513	6th	77·9	76·1	85·4	—2·2	75·2	+4·1	80·3	+0·9	10·2	89·4	1st	71·8	31st
	Monghyr	155	29·696		29·805	29·732	14th	29·427	6th	79·8	76·6	83·6		75·4		80·9		11·5	91·0	1st	71·9	22nd & 23rd.
	Darbhanga	165	29·711	—·032	29·832	29·803	30th	29·480	6th	79·9	75·6	87·3	+0·2	75·2	+2·5	81·3	+1·3	12·1	92·0	1st	70·2	9th
	Pusa	188	29·681		29·828	29·761	14th	29·433	6th	79·3	76·8	87·9		75·0		81·5		12·9	93·4	1st	71·7	8th
	Patna	183	29·682	—·031	29·831	29·777	14th	29·451	6th	80·9	77·2	83·4	—2·1	76·3	+4·1	81·5	+1·0	9·3	90·9	1st	73·2	8th
	Buxar	229	29·619	—·042	29·817	29·708	14th	29·386	6th	79·0	73·3	88·4	—1·7	75·7	+5·1	82·0	+1·7	12·7	91·8	1st	72·6	29th
	Gaya	372	29·505	—·028	29·831	29·595	14th	29·223	6th	80·6	73·7	87·3	—2·6	76·1	+5·1	81·7	+1·3	11·2	92·3	1st	72·2	20th
	Naya Dumka	489	29·381	—·033	29·825	29·160	16th	29·162	6th	79·2	76·2	83·4	—1·6	74·3	+3·6	80·4	+1·0	12·1	90·0	1st	72·0	14th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·607	—·034	29·825	29·897	14th	29·373	7th	78·6	74·8	83·4	—0·3	73·7	+4·1	81·0	+1·9	14·7	92·4	2nd	64·6	30th
	Benares	267	29·595	—·041	29·818	29·690	14th	29·381	6th	80·1	75·0	83·6	—1·5	73·9	+6·2	81·4	+2·3	14·9	92·6	1st	65·0	29th
	Allahabad	309	29·546	—·049	29·814	29·642	14th	29·355	6th	79·0	73·8	83·7	—2·1	72·3	+5·0	80·5	+1·5	16·4	91·9	17th	61·2	29th
	Cawnpore	416	29·467	—·015?	29·816	29·557	14th & 30th.	29·281	1st	75·6	71·9	87·5	—3·0	70·5	+3·6	79·0	+0·3	17·0	91·4	1st	56·1	29th
	Lucknow	368	29·507	—·022	29·836	29·602	14th	29·297	7th	78·1	72·6	89·4	—1·8	70·5	+4·9	80·0	+1·5	18·9	93·4	2nd	57·3	29th
	Bahraich	427	29·433	—·018	29·837	29·565	30th	29·225	7th	78·0	73·0	88·3	—1·8	71·4	+3·5	80·1	+0·9	17·4	93·8	2nd	60·4	29th
10	Jhansi	821	29·052	—·046	29·845	29·131	30th	28·871	5th	74·7	69·3	85·2	—1·9	68·4	—1·4	78·3	—3·1	19·8	91·6	14th	52·9	30th
	Agra	556	29·324	—·025	29·845	29·418	30th	29·147	7th	78·3	69·4	89·3	—3·3	69·2	+1·2	79·5	—1·2	20·6	94·3	2nd	56·3	30th
	Mainpuri	516	29·353	—·026	29·837	29·461	30th	29·139	7th	74·2	69·4	87·9	—5·0	65·7	+1·8	77·3	—1·6	21·2	92·4	2nd	55·7	30th
	Bareilly	543	29·295	—·025	29·843	29·386	30th	29·061	7th	75·2	70·9	87·7	—1·8	65·3*	+2·8*	76·4*	+0·5	22·4	93·3	1st	56·8	29th
	Roorkee	899	28·975	—·015	29·858	29·095	30th	28·744	7th	71·8	67·6	85·2	—3·8	64·7	+3·7	74·3	—0·1	20·5	89·0	3rd	51·0	29th

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 2 days. † Mean of 30 days.

B—*continued.*

in India, etc., in October, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															III.—Bengal—*consld.*
1	6	10	4	1	[illegible]	3	2	1	N 41° E	N 14° W	5·8	3·9	+1·9	33	+11	89	+ 4	·937	+·046	6·5	+1·5	19	+11·5	23·76	7·91	+15·85	77·96	64·40	+13·56	5·67	Saugor Island.
5	4	7	3	6	2	1	1	2	N 72° E		1·7			29		87	+ 8	·888	+·104	4·9	+2·5	14	+9·0	6·59	3·29	+2·30	62·19	52·18	+10·01	1·61	Midnapore.
5	3	5	5	3	1	3	0	6	N 38° E	N 58° W	2·5	2·0	+0·5	23	+ 4	91	+ 7	·918	+·063	5·8	+2·3	17	+11·1	14·62	3·91	+10·71	73·91	56·48	+23·43	2·48	Calcutta.
11	0	3	2	4	7	2	0	2	S 29° E	S 67° E	1·9	1·5	+0·4	30	+ 8	84	− 1	·888	+·012	6·2	+2·7	15	+9·3	14·29	4·81	+9·48	56·43	57·35	−0·92	3·61	Jessore.
10	3	4	1	4	1	3	1	4	N 15° E	N 28° W	1·0	1·4	−0·4	10	− 4	88	+ 7	·896	+·087	5·3	+1·6	12	+8·0	12·09	2·91	+9·18	68·76	52·00	+16·76	3·86	Burdwan.
12	3	5	5	2	2	2	0	0	N 79° E	S 39° W	1·9	1·5	+0·4	30	+25	89	+ 4	·899	+·066	6·0	+2·4	13	+8·5	8·95	2·55	+5·40	56·82	50·74	+6·08	1·50	Berhampore.
																															IV.—Bihar and Orissa.
19	2	3	0	0	2	2	0	3	N 27° W	N 41° W	0·9	1·9	−1·0	10	−26	91	+ 8	·911	+·096	5·3	+2·3	12	+6·4	24·34	5·54	+19·40	60·13	54·50	+5·63	6·22	Balasore.
4	4	6	1	3	1	4	1	7	N 11° W		6·4			23	−24					6·1	+1·4	13	+5·6	16·41	3·27	+8·14	69·01	56·35	+12·66	3·40	Hukitala (False Point).
18	0	5	2	0	0	3	3	0	N 18° E	N 51° W	1·7	1·3	+0·4	5	−13	85	+ 5	·869	+·073	5·5	+1·8	15	+9·2	11·36	4·69	+6·37	58·26	54·61	+3·65	2·58	Cuttack.
3	4	5	2	1	4	3	2	7	N 27° W		9·9			23		88‡	+ 7	·944‡	+·092	5·4	+2·2	12	+4·8	15·42	7·09	+8·33	46·25	47·81	−1·56	5·00	Puri.
8	1	3	2	4	2	1	3	7	N 34° W		3·0*			13		88	+ 9	·857	+·117	7·0	+4·1	12	+7·2	9·69	3·38	+6·31	51·08	42·34	+8·74	2·09	Angul.
0	5	13	3	2	1	6	0	0	N 56° E	N 33° E	2·8	2·1	+0·7	40	−17	86	+ 9	·848	+·107	4·7	+1·8	4	+0·7	3·58	1·87	+1·71	68·49	62·53	+5·96	1·24	Sambalpur.
21	0	1	5	0	0	4	0	0	S 54° E	S 63° W	1·9	0·7	+1·2	10	−12	86	+ 4?	·817	+·101	7·0	+4·1	10	+6·3	7·27	2·32	+4·95	36·80	46·99	−10·19	1·71	Chaibasa.
6	3	3	5	5	1	0	3	5	N 45° E	N 89° W	3·0	3·3	−0·3	20	− 1	91	+21	·739	+·138	6·5	+3·4	15	+11·1	9·81	2·46	+7·38	49·66	51·51	−1·85	2·31	Ranchi.
17	0	4	0	4	1	2	0	3	S 82° E		1·4			6		90	+12	·831	+·132	6·8	+4·6	14	+10·5	12·03	2·62	+9·41	49·54	46·92	+2·62	2·17	Purulia.
18	0	3	3	1	0	3	3	0	S 45° E		2·0*			3		88	+ 8	·801	+·160	4·7	+2·8	10	+7·1	9·94	1·60	+8·34	50·48	38·47	+12·01	2·52	Daltonganj.
1	1	12	9	3	2	1	1	1	N 73° E	N 79° E	1·6	1·5	+0·1	56	+41	94	+ 6	·883	+·085	5·5	+3·2	7	+3·9	3·15	2·92	+0·23	85·27	58·92	+26·35	1·42	Purnea.
6	1	0	10	10	0	2	2	0	S 63° E		5·4			48		86		·873		5·2		4?		3·26?			40·40?			2·42	Monghyr.
17	0	3	10	0	0	0	1	0	N 80° E	S 68° E	1·9	1·5	+0·4	37	+16	85	+ 2	·872	+·082	4·6	+2·8	2	−1·0	2·43	2·74	−0·31	50·56	47·99	+2·57	2·10	Darbhanga.
15	0	4	6	4	0	0	1	1	N 84° E		1·5			32		89		·884		5·1		4		4·95			55·36			3·48	Pusa.
13	1	1	14	1	0	0	1	0	N 86° E	S 8° W	2·9	1·6	+1·3	46	+24	84	+10	·882	+·141	5·3	+3·1	10	+6·9	5·80	2·76	+3·04	53·92	44·67	+9·25	1·82	Patna.
0	3	3	8	4	1	1	7	4	N 34° E		2·7			13		88	+16	·867	+·187	5·3	+3·1	5	+2·4	2·00	2·70	−0·70	44·66	38·64	+6·02	0·71	Buxar.
4	2	10	5	2	1	6	0	1	N 70° E	S 9° W	2·5	2·0	+0·5	30	− 2	83	+10	·865	+·177	3·7	+1·0?	11	+8·2	6·48	2·01	+4·47	56·46	43·76	+12·70	1·22	Gaya.
18	2	4	2	3	1	0	0	0	N 77° E					27		87	+ 9	·865	+·120	4·8	+2·4	10	+6·0	15·11	3·21	+11·90	70·81	52·02	+18·79	3·94	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
25	0	0	0	0	0	0	0	0	E	N 27° W	2·6†	0·9	+1·7	19	− 2	83	+ 6	·814	+·096	1·3	−0·4?	2	−0·5	0·84	3·91	−3·07	56·12	48·35	+ 9·77	0·60	Gorakhpur.
7	0	4	6	4	0	3	3	4	N 79° E	S 50° W	1·8	1·8	0	13	− 5	81	+ 7	·832	+·162	4·0	+2·1	3	+0·6	0·74	2·58	−1·84	41·44	37·43	+4·01	0·32	Benares.
10	2	4	6	0	0	0	7	2	N 4° E	N 86° W	2·0	2·3	−0·3	20	− 5	77	+ 9	·766	+·141	4·9	+2·9	5	+3·1	2·89	2·52	+0·37	61·18	36·88	+24·30	0·92	Allahabad.
9	5	3	3	0	1	3	6	1	N 38° W	S 76° W	1·3	1·5	−0·2	23	− 6	81	+ 6	·736	+·168	1·3	+0·3	4	+2·6	2·22	1·35	+0·87	49·38	33·84	+15·54	0·75	Cawnpore.
26	0	0	3	0	0	0	2	0	E	N 58° W	0·6	1·3	−0·7	3	− 6	76	+ 6	·740	+·118	3·4	+2·1	4	+2·4	2·96	1·20	+1·76	42·46	35·61	+6·85	1·69	Lucknow.
15	3	0	4	3	0	2	1	3	N 45° E	N 77° E	1·3	1·2	+0·1	10	0	78	+ 2	·753	+·062	1·7	+0·7	2	+0·5	2·68	1·69	+0·99	40·41	41·67	−1·26	2·05	Bahraich.
14	2	6	0	2	0	5	2	0	N 5° E	S 70° W	2·2	1·8	+0·4	4	−39	75	+19	·655	+·120	2·9	+2·0	4	+3·1	4·37	0·72	+4·15	47·77	35·62	+12·15	2·38	Jhansi.
14	2	1	3	0	1	4	3	3	N 77° W	N 68° W	1·8	2·3	−0·5	13	−27	62	+ 5	·611	+·113	1·6	+0·8	1	+0·3	0·49	0·83	−0·34	29·46	25·50	+3·96	0·19	Agra.
14	2	2	3	1	1	0	4	4	N 22° W	N 83° W	0·7	0·7	0	20	+ 4	78	+13	·668	+·130	2·2	+1·1	3	+2·2	1·50	1·52	−0·02	34·03	24·89	+9·14	0·85	Mainpuri.
21	0	1	3	1	0	1	3	1	§	N 15° W	0·7	0·9	−0·2	§		80	+ 4	·706	+·097	2·5	+1·7	1	+0·2	0·50	1·38	−0·88	61·23	41·62	+19·71	·50	Bareilly.
24	0	1	1	1	0	0	0	4	N 9° W	S 58° E	0·7	0·9	−0·2	9	+ 3	80	+ 5	·630	+·103	1·6	+1·0	2	+1·3	3·80	0·57	+3·23	47·12	37·18	+9·94	2·82	Moradabad.

* Mean of 29 days.
† „ „ 16 „
‡ „ „ 20 „
§ Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure, reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab.																					
11	Delhi	718	29·156	—·016	29·854	29·277	30th	28·958	7th	72·9	65·8	88·3	−3·5	68·7	+0·5	78·5	—1·5	19·6	92·4	2nd	57·8	31st
	Hissar	725	29·156	—·008	29·862	29·287	30th	28·953	7th	72·1	64·8	91·6	—4·4	64·1	+0·9	77·9	—1·7	27·5	97·6	3rd	48·8	30th
	Patiala	*818*	29·030	—·042P	29·833	29·162	30th	28·733	7th	71·2	66·1	88·8	—2·7	64·3	+1·8	76·5	—0·5	24·5	97·4	3rd	50·2	29th
	Ambala	892	28·969	—·022	29·853	29·097	30th	28·745	7th	69·3	66·0	88·1	—4·1	63·2	+2·4	75·7	—0·9	24·9	95·9	2nd	49·3	29th & 30th.
	Ludhiana	812	29·053	—·020	29·854	29·182	30th	28·821	7th	70·5	64·5	90·2	—1·6	65·8	+2·3	78·0	+0·3	24·4	97·9	3rd	52·4	31st
	Lahore	702	29·150	—·027	29·840	29·277	30th	28·919	7th	71·4	65·5	91·6	—3·3	64·2	+4·0	77·9	+0·2	27·3	101·5	2nd	47·3	30th
	Sialkot	830	29·026	—·028	29·849	29·156	30th	28·789	7th	69·8	64·9	90·2	—2·3	62·9	+0·4	76·5	+0·9	27·3	97·0	2nd	46·7	28th
	Rawalpindi	1,674	28·187	—·043	29·859	28·288	30th	27·950	7th	67·9	60·9	88·0	—0·6	59·1	+2·6	73·6	+1·0	28·9	96·4	3rd	43·7	31st
12	Khushab	612	29·247	—·032	29·841	29·374	30th	29·011	7th	74·3	64·7	93·4	—0·7	63·6*	+0·1*	78·5*	—0·3	29·8	102·6	2nd	48·2	31st
	Lyallpur	605	29·247		29·834	29·387	30th	29·007	7th	73·1	65·3	93·0		64·2		78·6		28·8	102·5	2nd	49·1	31st
	Montgomery	558	29·300	—·027	29·833	29·451	30th	29·066	7th	75·9	65·3	94·4	—1·9	65·8	+2·3	80·1	+0·5	28·6	102·6	2nd	51·1	31st
	Multan	426	29·422	—·032	29·819	29·566	30th	29·169	7th	76·1	68·2	96·1	+0·2	69·5	+4·4	82·8	+2·3	26·6	102·5	3rd	56·5	31st
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·749	—·058	29·870	28·881	30th	28·496	7th	66·4	61·0	90·7	+2·5	61·1	+3·2	75·9	+2·9	29·6	98·6	4th	43·5	30th
	D. I. Khan	590	29·253	—·057	29·827	29·395	30th	29·006	7th	73·0	65·3	92·1	—1·7	65·3	+4·2	78·7	+1·3	26·8	100·2	2nd	49·1	30th
	VIII.—Sind.																					
16	Jacobabad	186	29·676	—·033	29·825	29·801	30th	29·430	7th	76·1	67·4	98·5	—0·7	66·2	+3·0	82·4	+1·1	32·3	106·1	1st	50·8	29th
	Hyderabad	96	29·768	—·041	29·817	29·916	30th	29·567	1st	77·4	68·4	94·4	—3·5	71·1	+1·0	82·7	—1·3	23·3	101·0	17th	58·0	31st
	Karachi	13	29·876	—·042	29·840	30·013	30th	29·709	1st	78·5	70·4	89·2	+2·6	74·4	+1·4	81·8	+2·0	14·8	96·4	22nd	65·1	29th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·107	—·018	29·854	29·239	30th	28·877	2nd	74·7	65·8	92·0	—4·1	67·9	—3·5P	79·9	—3·8P	24·1	96·6	18th	53·7	29th
	Jodhpur	780	29·108	—·033	29·857	29·222	30th	28·959	1st & 7th.	75·8	66·9	89·6	—7·3	68·6	+1·1	79·1	—3·1	21·0	95·1	18th	56·2	31st
18	Jaipur	1,431	28·471	—·027	29·872	28·568	30th	28·316	1st	75·0	66·1	89·1	—5·5	64·6	—0·2	76·9	—2·9	24·5	92·0	18th & 21st.	52·1	30th
	Ajmer	1,611	28·286	—·038	29·879	28·385	30th	28·116	2nd	68·3	63·8	84·9	—7·0	64·5	+0·3	74·7	—3·3	20·4	88·0	18th	51·6	28th
	Kotah	832	29·054	—·032	29·851	29·139	30th	28·922	1st & 5th.	77·8	70·9	89·7	—5·3	70·8	+0·5	80·3	—2·4	18·9	92·2	12th & 20th.	57·8	30th
	X.—Bombay.																					
19	Deesa	466	29·432	—·035	29·857	29·520	30th	29·307	1st	77·9	69·8	93·5	—4·0	68·1	+1·1	80·8	—1·5	25·4	97·6	15th	52·3	30th
	Bhuj	334	29·544	—·053	29·831	29·644	30th	29·428	1st	79·4	71·3	92·1	—4·0	69·8	—1·1	81·0	—2·5	22·3	97·6	18th	55·5	31st
	Jamnagar	61	29·832	—·053	29·839	29·929	30th	29·702	1st	79·5		91·4	—2·4	70·4	—0·4	80·9	—1·4	21·0	96·7	16th, 17th & 18th.	58·7	31st
	Dwarka	37	29·850	—·060	29·833	29·944	30th	29·753	1st	81·1	74·3	89·9	+3·3	76·7†	+1·3†	83·2†	+2·3	13·2	95·9	18th	66·2	31st
	Rajkot	429	29·445	—·063	29·826	29·542	10th	29·361	1st	78·1	70·8	92·3	—3·3	68·3	+0·1	80·3	—1·6	24·0	97·2	18th	55·0	31st
	Veraval	*18*	29·851	—·067	29·812	29·960	10th	29·751	20th	79·6	73·3	85·1	—0·8	75·4	+3·0	81·8	+1·1	12·7	95·6	18th	65·2	31st
	Bhavnagar Para	55	29·817	—·063	29·818	29·818	9th	29·739	21st	81·1		93·4	—3·1	72·2	+2·2	82·8	—0·5	21·2	97·4	17th	65·8	31st
	Surat	39	29·838	—·062	29·820	29·949	9th	29·756	20th	80·0	74·8	90·3	—3·4	73·7	+2·5	82·0	—0·5	16·6	97·5	17th	64·3	31st
	Ahmadabad	163	29·723	—·041	29·846	29·825	10th	29·641	1st	80·1	70·8	94·4	—2·8	72·9	+0·5	83·7	—1·4	21·5	99·1	16th	60·9	30th
25	Bombay	37	29·840	—·059	29·817	29·959	9th	29·735	20th	79·3	76·7	86·2	—1·6	77·2	+0·5	81·7	—0·5	9·0	89·4	20th	74·8	16th
	Ratnagiri	207	29·662	—·052	29·810	29·754	9th	29·553	20th	79·5	75·4	85·1	—3·1	74·7	+0·7	79·9	—1·2	10·4	92·7	19th	71·3	1st
	Marmagao	*60*	29·818	—·055	29·813	29·903	10th	29·701	18th	77·6	76·3	83·2	—2·5	74·6	—1·0	78·9	—1·7	8·6	85·5	19th	72·3	23rd
	Alwar	44	29·855	—·021	29·834	29·910	6th	29·745	18th	76·4	74·8	83·4	—2·0	74·1	+0·5	78·7	—0·7	9·3	86·7	12th	71·2	7th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.
† " " 30 "

B—*continued.*

in India, etc., in October, 1916—*continued.*

Wind Direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															VI.—Punjab.
7	1	1	1	3	0	2	10	6	N 79° W	N 83° W	2·1	1·7	+0·4	40	+ 8	67	+15	·557	+·113	1·5	+0·8	1	+0·7	0·59	0·29	+0·30	27·75	24·36	+3·39	0·52	Delhi.
9	1	0	0	2	2	8	8	1	S 61° W	S 31° W	2·9	2·5	+0·4	46	+24	65	+13	·537	+·106	2·1	+1·6	2	+1·6	1·48	0·11	+1·37	21·25	11·87	+9·38	1·12	Hissar.
5	3	1	5	9	0	2	3	3	S 68° E		2·7			16		75	+11	·590	+·076	1·6	+1·1	3	+2·4	1·49	0·29	+1·20	26·14	20·77	+5·37	0·95	Patiala.
8	2	1	10	3	0	0	0	7	N 55° E	N 10° W	2·0	0·8	+1·2	30	+26	83	+14	·609	+·099	1·4	+0·9	4	+3·6	9·15	0·23	+8·92	38·61	24·28	+14·33	5·45	Ambala.
28	0	1	0	0	1	0	0	1	N	S 55° E	0·6	0·8	−0·2	1	−10	70	+ 9	·548	+·081	0·6	−0·2	1	+0·6	1·00	0·28	+0·72	27·86	23·32	+4·54	0·98	Ludhiana.
22	1	0	0	1	3	0	2	2	S 64° W	S 83° E	0·8	1·2	−0·4	10	− 2	71	+10	·572	+·104	1·0	+0·5	2	+1·6	0·50	0·16	+0·34	23·95	15·93	+8·02	0·39	Lahore.
20	1	3	6	1	0	0	0	0	N 74° E	N 54° E	0·8	1·0	−0·2	30	− 2	75	+15	·570	+·121	0·6	−0·2	0	−0·6	0	0·19	−0·19	30·72	24·71	+6·01	0	Sialkot.
12	1	2	1	3	2	2	4	4	S 85° W	N 5° W	1·6	1·0	+0·6	12	− 2	65	+ 7	·471	+·082	1·5	+0·5	1	−0·1	1·41	0·39	+1·02	41·81	24·22	+17·59	1·41	Rawalpindi.
17	1	4	6	1	1	1	0	0	N 81° E	N 48° E	8·6	2·8	+5·8	30	−13	57	+11	·505	+·121	1·0	+0·6	1	+0·8	1·56	0·03	+1·53	12·09	10·38	+2·71	1·56	Khushab.
11	0	1	2	3	3	9	1	1	S 18° W		1·3			33		64		·537		0·9		2	+1·8	0·59	0·07	+0·52	9·62	10·18	−0·56	0·39	Lyallpur.
7	0	2	2	2	9	7	1	1	S 8° W	S 41° E	2·9	3·0	−0·1	43	+ 7	54	+11	·493	+·105	1·0	+0·5	0	0	0	0·02	−0·02	9·46	8·22	+1·24	0	Montgomery.
26	3	0	0	1	0	1	0	0	N	S 40° E	0·7	1·1	−0·4	5	−16	64	+ 8	·606	+·111	0·6	+0·3	2	+1·9	1·15	0·01	+1·14	5·45	5·03	+0·42	0·93	Multan.
																															VII.—North-West Frontier Province.
27	2	1	0	0	0	1	0	0	N	S 40° W	0·4	1·7	−1·3	6	− 8	72	+13	·489	+·081	0·5	−0·6	0	−0·4	0	0·12	−0·12	13·85	5·62	+8·23	0	Peshawar.
24	2	3	0	0	1	0	0	1	N 21° E	N 34° E	0·9	0·8	+0·1	13	−12	64	+ 5	·543	+·105	0·4	0	0	−0·1	0	0·04	−0·04	7·43	6·09	+1·34	0	D. I. Khan.
																															VIII.—Sind.
25	0	0	1	3	1	0	0	1	S 45° E	N 41° E	1·2	1·5	−0·3	10	− 1	61	+ 5	·574	+·093	0·5	+0·1	0	0	0	0	0	3·73	2·40	+1·33	0	Jacobabad.
8	8	0	0	2	4	9	0	0	S 53° W	S 58° W	4·2	6·3	−2·1	23	− 6	67	+11	·586	+·052	1·4	+0·9	1	+1·0	0·41	0	+0·41	14·01	6·24	+7·77	0·41	Hyderabad.
4	5	7	1	0	0	3	8	3	N 33° W	N 50° W	7·3	6·9	+0·4	40	+11	65	− 8	·649	−·027	2·6	+1·0	0	0	0	0	0	21·67	6·19	+15·48	0	Karachi.
																															IX.—Rajputana.
15	0	0	3	2	4	5	2	0	S 7° W	S 48° W	2·2	3·6	−1·4	30	−17	60	+12	·536	+·074	1·5	+0·8	3	+2·7	1·27	0·08	+1·19	20·43	10·28	+10·15	0·49	Bikaner.
8	2	11	0	0	4	5	1	0	N 55° E		2·1			10		61	+18	·556	+·154	3·7	+2·6	2	+1·8	0·21	0·11	+0·10	25·96	12·51	+13·45	0·11	Jodhpur.
17	2	5	1	0	0	0	3	3	N 5° W	N 42° W	2·3	2·3	0	27	−20	61	+12	·536	+·085	2·1	+0·9	1	+0·5	1·43	0·26	+1·17	23·46	22·44	+1·02	1·30	Jaipur.
25	0	0	0	0	0	4	2	0	S 59° W	S 82° W	1·3	2·0	−0·7	20	− 9	77	+17	·551	+·071	3·0	+1·9	3	+2·5	2·02	0·22	+1·80	28·22	19·60	+8·62	1·50	Ajmer.
15	3	2	0	0	0	2	0	9	N 34° W		1·5			37		69	+22	·672	+·209	2·6	+1·6	2	+1·6	0·39	0·31	+0·08	44·03	26·83	+17·20	0·19	Kotah.
																															X.—Bombay.
2	0	8	11	0	1	4	1	4	N 65° E	S 77° E	4·4	4·8	−0·4	37	+ 1	65	+14	·635	+·130	3·7	+2·6	1	+0·7	0·37	0·21	+0·16	25·44	23·56	+1·88	0·29	Deesa.
9	8	0	3	0	0	0	11	0	N 45° W	N 62° W	4·3	5·0	−0·7	37	−12	65	+ 3	·652	+·021	2·7	+1·3	2	+1·6	1·12	0·24	+0·88	14·01	13·61	+0·43	0·73	Bhuj.
20	0	4	1	0	0	4	2	0	W	..	1·0			3		73	+ 7	·743	+·044	2·5	+1·4	3	+3·0	2·12	0·01	+2·11	25·92	18·86	+7·06	1·30	Jamnagar.
0	7	7	3	1	0	7	4	2	N 13° W	..	8·0			27		72	− 6	·763	−·054	4·2	+2·2	0	−0·1	0	0·04	−0·04	11·10	13·70	−2·60	0	Dwarka.
0	5	10	2	1	3	5	3	2	N 16° E	N 5° W	5·3	4·2	+1·1	20	−19	68	+ 2	·661	+·013	4·8	+3·3	5	+4·0	4·65	0·29	+4·26	28·85	26·01	+2·84	1·76	Rajkot.
3	9	7	2	1	1	3	3	2	N 5° E	N 2° E	5·9	4·5	+1·4	37	−28	73	+ 5	·743	+·061	4·2	+2·2	2	+1·5	0·30	0·37	−0·07	23·85	17·48	+6·37	0·13	Veraval.
0	5	8	5	0	0	5	3	5	N 3° E	N 73° W	3·9	5·0	−1·1	34	−11	76	+15?	·809	+·187?	4·1	+2·2	0	−0·4	0	0·24	−0·24	19·43	19·97	−0·54	0	Bhavnagar Para.
14	4	7	2	2	1	0	0	1	N 47° E	N 53° E	2·3	3·2	−0·9	33	+15	77	+ 7	·792	+·082	5·2	+3·5	7	+5·1	4·12	1·43	+2·69	57·28	40·73	+16·55	1·35	Surat
4	0	12	3	2	0	4	1	5	N 36° E	N 8° E	4·0	2·4	+1·6	33	0	62	+ 6	·643	+·071	3·0	+1·5	1	+0·5	0·87	0·35	+0·52	25·24	29·20	−3·96	0·81	Ahmadabad.
0	1	7	9	9	3	0	0	2	S 84° E	N 81° E	4·8	6·6	−1·8	62	− 6	88	+ 6	·881	+·040	6·6	+3·0	11	+8·5	4·79	1·84	+2·95	85·17	71·23	+13·94	0·92	Bombay.
1	4	4	6	9	6	0	0	1	S 71° E	S 88° E	5·3	4·5	+0·8	49	+ 9	82	+ 4	·823	+·023	5·6	+2·0	11	+6·3	8·24	3·71	+4·53	145·48	100·38	+45·10	2·86	Ratnagiri.
6	2	6	1	3	4	2	1	6	N 14° E	S 67° E	5·4	4·5	+0·9	10	−19	94	+ 4	·831	+·004	6·9	+2·3	5	−1·0	3·48	3·91	−0·43	119·80	91·79	+28·01	1·49	Marmagao.
30	0	0	0	0	0	1	0	0	S 45° W	N 48° E	1·2	1·8	−0·6	3	−44	92	+ 3	·840	+·022	5·0	+0·9	10	+2·9	6·21	5·64	+0·57	136·71	119·95	+16·76	2·18	Karwar.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay—*concld.*																					
26	Malegaon	1,430	28·449	—·061	29·827	28·545	10th	28·381	4th	76·7	71·1	89·6	1·7	69·2	+3·5	79·4	+0·9	20·4	93·8	1st & 8th	62·3	30th
	Ahmadnagar	2,154	27·737	—·068	29·815	27·841	9th	27·580	3rd & 31st.	73·4	68·9	85·1	—3·6	67·5	+2·4	76·3	—0·6	17·6	88·2	10th	60·7	7th
	Poona	1,846	28·042	—·054	29·827	28·144	11th	27·959	20th	74·2	71·2	86·4	—2·6	68·6	+2·2	77·5	—0·2	17·8	90·2	11th, 17th & 18th	63·7	7th
	Sholapur	1,590	28·270	—·069	29·795	28·355	10th	28·179	31st	76·1	71·1	88·6	—1·8	70·9	+2·5	79·8	+0·3	17·7	94·0	10th	67·3	7th
	Bijapur	*1,948*	27·925	—·058	29·801	28·010	9th	27·846	31st	74·6	69·7	86·3	—2·6	69·1	+0·7	77·7	—0·9	17·2	91·1	10th	64·6	7th
	Belgaum	2,562	27·361	—·033	29·843	27·449	6th	27·254	18th	70·1	68·2	80·9	—2·3	65·1	0	73·0	—1·1	15·8	88·1	11th	59·9	7th
	XI.—Central India.																					
20	Neemuch	1,626	28·276	—·040	29·860	28·352	10th	28·155	1st	74·0	66·9	85·8	—5·3	65·8	+1·4	75·8	—1·9	20·0	89·8	15th	52·0	30th
	Indore	1,823	28·061	—·059	29·838	28·142	9th & 10th.	27·954	4th	73·0	69·0	85·0	—3·5	67·0	+3·7	76·0	+0·1	18·0	89·7	15th	52·7	30th
21	Nowgong	754	29·115	—·041	29·838	29·202	30th	28·931	5th	73·6	70·6	86·0	—4·0	69·1	+4·0	77·5	0	16·9	89·0	1st	53·5	29th
	Sutna	1,041	28·319	—·041	29·823	28·909	1·th	28·617	5th	76·1	71·6	84·6	—3·4	71·1	+5·4	77·9	+1·0	13·5	88·8	25th	62·0	29th
	XII.—Central Provinces.																					
22	Buldana	2,124								74·2	69·6	84·2	—1·7	69·2	+1·2P	76·7	—0·3P	15·0	88·8	16th	64·6	30th
	Akola	925	28·927	—·079	29·805	29·031	9th	28·811	26th	78·9	73·1	90·0	—1·9	72·2	+6·2	81·1	+2·1	17·8	94·3	16th	68·3	30th
	Amraoti	1,215	28·642	—·071	29·806	28·738	9th	28·521	4th	78·3	72·6	87·3	—3·5	71·9	+3·7	79·6	+0·1	15·4	90·8	16th	68·2	30th
23	Khandwa	1,014	28·825	—·061	29·838	28·924	10th	28·719	4th	75·8	71·4	87·8	—4·1	72·5*	+5·1*	80·4*	+0·5	15·3	92·1	18th	69·3	7th
	Hoshangabad	1,006	28·380	—·047	29·814	28·971	10th	28·732	4th	76·5	72·3	86·2	—3·4	71·1	+4·9	78·6	+0·7	15·1	90·1	14th	62·4	29th & 30th.
	Saugor	1,807	28·064	—·061	29·823	28·151	14th	27·886	5th	73·2	68·6	84·4	—3·5	68·2	+2·1	76·3	—0·7	16·2	88·6	15th & 19th.	60·0	30th
	Jubbulpore	1,327	28·522	—·067	29·805	28·6 6	14th	28·296	5th	75·6	71·4	84·2	—3·3	71·0	+7·3	77·6	+2·0	13·2	86·9	1st	64·3	29th
	Seoni	2,033	27·810	—·059	29·509	27·946	10th	27·665	4th	74·5	70·2	82·6	—4·1P	66·4	+2·5	74·5	—0·8P	16·2	86·2	3rd	62·0	9th
	Nagpur	1,017	28·832	—·070	29·800	28·942	10th	28·667	4th	77·9	73·0	87·5	—2·9	72·3	+1·2	79·9	+0·7	15·2	91·1	15th	68·3	29th
24	Pendra†	2,043	27·837	—·033	29·817	27·940	14th	27·654	5th	74·2	71·1	82·1	—2·5	68·8	+4·2	75·4	+0·9	13·3	85·6	27th	66·2	9th
	Raipur	970	28·866	—·077	29·786	28·955	19th	28·702	3rd	77·8	74·6	87·1	—1·1	73·5	+4·0	80·3	+1·5	13·6	90·3	2nd	70·5	9th
	Chanda	*634*	29·202	—·091P	29·785	29·303	10th	29·081	4th	76·0	75·4	88·3	—1·7	73·0	+5·0	80·7	+1·7	15·3	91·1	3rd	69·8	10th
	Jagdalpur	1,813	28·029		29·770	28·122	14th	27·892	23rd	75·8	74·6	85·7		69·7		77·7		16·0	88·6	15th	67·2	8th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·982	—·067	29·814	28·084	10th	27·912	4th	76·4	70·0	87·1	—3·0	69·1	+2·0	78·0	0	18·0	92·2	16th	65·4	7th
	Nizamabad	1,248	28·599	P	29·791	28·702	10th	28·511	3rd	77·6	73·0	88·2	—0·6	72·2	+4·1	80·2	+1·7	16·0	91·3	9th	69·9	7th
	Bidar	*2,165*								73·9	70·9	83·5	—2·8	69·5	+2·3	76·5	—0·3	14·0	87·5	4 days	66·4	30th & 31st.
28	Gulbarga	1,503	28·357	—·068	29·801	28·441	11th	28·259	31st	75·7	70·9	88·4	—2·2	71·0	+2·0	79·7	—0·1	17·4	96·0	14th	68·7	6th & 21st
	Raichur	*1,311*	28·560	—·038	29·812	28·633	9th	28·445	31st	77·0	72·5	86·7	—3·3	73·2	+1·0	79·9	—1·1	13·5	93·8	9th	69·0	31st
	Hyderabad (Deccan)	1,719	28·147	—·037	29·788	28·231	9th & 10th.	28·032	31st	75·7	72·2	85·0	—3·4	71·3	+2·2	78·2	—0·6	13·7	90·0	10th	67·8	11th
	Hanamkonda	877	28·970	—·065	29·792	29·066	14th	28·851	23rd	78·9	74·5	87·0	—2·8	73·8	+2·7	80·4	—0·1	13·2	91·7	14th	71·2	11th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·494	—·043	29·810	27·568	6th & 9th.	27·403	17th	73·4	68·0	84·2	—0·7	68·3	+0·4	76·2	—0·1	15·9	91·4	11th	65·3	22nd & 23rd.
	Hassan	3,149	26·797†	—·037†	29·822†	26·888	8th	26·687	17th	68·7	66·3	80·0	—1·7	64·7	+0·6	72·3	—0·5	15·3	85·7	11th	61·6	1st
	Bangalore	3,021	26·914	—·045	29·811	26·991	10th	26·795	17th	69·8	67·2	80·8	—1·1	66·1	+1·0	73·5	—0·1	14·7	85·9	8th	61·7	22nd
	Mysore	2,518	27·400	—·042	29·826	27·475	8th	27·271	17th	71·1	67·7	82·2	—2·2	66·7	—0·2	74·4	—1·2	15·5	87·1	14th	64·0	24th

* Mean of 24 days.
† " " 30 "

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in October, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															X.—Bombay—*concld.*
12	4	3	3	1	2	5	1	0	S 85° E	N 61° W	3·5	4·2	—0·7	4	—35	75	+15	·693	+·142	4·3	+1·6	6	+3·4	3·44	1·95	+1·49	27·16	21·71	+5·45	2·10	Malegaon.
2	7	2	2	4	1	2	1	10	N 15° W.	N 36° E	4·5	5·8	—1·3	33	+ 1	79	+17	·648	+·091	4·4	+1·8	8	+5·0	5·80	1·89	+3·91	31·68	20·50	+11·18	1·82	Ahmadnagar.
0	0	0	6	0	0	0	25	0	W	S 69° E	6·7	4·6	+2·1	61	+54	86	+15	·722	+·121	3·4	—0·3P	8	+2·9	9·44	3·88	+5·56	31·94	25·47	+6·47	3·15	Poona.
1	2	4	3	2	1	0	5	13	N 31° W	N 68° E	5·9	6·0	—0·1	43	+20	78	+17	·698	+·133	6·6	+2·4	9	+4·5	6·53	3·41	+3·12	40·52	27·28	+13·24	1·69	Sholapur.
4	5	1	4	1	0	3	8	5	N 52° W	N 77° W	2·8	2·9	—0·1	33	+25	78	+ 8	·665	+·036	5·3	+1·8	11	+6·5	9·01	3·04	+5·97	29·41	18·56	+10·85	3·11	Bijapur.
9	0	4	4	2	0	4	7	1	S 73° W	N 53° E	8·8	7·0	+1·8	7	—11	90	+12	·665	+·044	6·8	+2·3	12	+4·2	4·05	5·03	−0·98	43·21	45·65	−2·44	0·61	Belgaum.
																															XI.—Central India.
7	0	0	12	1	0	1	10	0	S 56° E	N 2° E	4·1	4·4	—0·3	7	—11	68	+17	·576	+·113	4·2	+2·9	2	+1·3	1·55	0·32	+1·23	38·94	27·65	+11·29	1·12	Neemuch.
5	2	10	6	0	0	0	4	4	N 28° E	N 18° E	3·6	1·6	+2·0	46	+21	82	+20	·667	+·125	5·7	+4·0	4	+2·1	2·18	1·08	+1·10	41·90	31·75	+10·15	0·70	Indore.
11	3	1	3	0	4	1	6	2	N 84° W	S 67° W	1·2	1·1	+0·1	14	—11	84	+15	·711	+·146	5·1	+3·1	5	+3·5	1·86	1·11	+0·75	43·57	40·88	+2·69	0·66	Nowgong.
8	4	2	8	0	0	2	6	0	N 30° E	N 27° W	2·6	2·8	—0·2	20	—29	81	+13	·738	+·155	4·4	+2·1	4	+1·8	3·64	2·24	+1·40	53·04	41·45	+11·59	2·13	Satna.
																															XII.—Central Provinces.
1	0	2	6	2	0	1	9	9	N 54° W		4·6	3·8	+0·8	23		79		·669		5·6		7	+4·2	2·61	2·25	+0·36	48·44	32·98	+15·46	0·47	Buldana.
3	1	4	8	2	0	1	7	5	N 11° E	N 53° E	3·5	2·6	+0·9	17	— 1	75	+13	·735	+·174	5·9	+3·2	5	+2·4	3·90	2·08	+1·82	42·95	30·58	+12·37	1·38	Akola.
9	0	7	8	1	0	0	2	1	N 65° E*	N 63° E	2·7†	2·8	−0·1	42	+16	76	+18	·727	+·184	4·2	+1·5	9	+6·5	6·56	1·93	+4·63	47·68	31·54	+16·14	2·80	Amraoti.
5	2	5	8	1	0	0	4	6	N 24° E	N 2° E	4·2	2·3	+1·9	33	+22	80	+19	·715	+·181	4·9	+2·9	6	+4·1	3·11	1·07	+2·04	38·43	28·62	+9·81	1·26	Khandwa.
12	0	11	3	0	0	5	0	0	N 59° E	N 79° E	2·0	1·2	+0·8	27	+ 9	81	+10	·739	+·157	3·6	+1·7	9	+7·0	5·70	1·33	+4·37	59·09	47·19	+11·90	2·35	Hoshangabad.
0	3	10	6	3	1	1	5	2	N 47° E	S 27° W	5·4	2·3	+3·1	37	+23	79	+23	·646	+·159	5·2	+3·5	7	+5·2	4·92	0·99	+3·93	42·09	43·63	—1·54	1·54	Saugor.
1	10	6	1	4	1	1	2	5	N 8° E	S 27° E	2·1	1·4	+0·7	43	+ 7	81	+6P	·717	+·119	4·5	+2·6	6	+3·8	10·46	1·63	+8·83	54·02	52·65	+1·37	4·80	Jubbulpore.
6	6	9	3	1	0	2	2	2	N 24° E	N 9° E	2·0	2·0	0	43	+20	81	+18	·684	+·149	4·4	+2·2	6	+3·1	7·18	1·76	+5·42	58·74	49·08	+9·66	4·90	Seoni.
2	7	7	7	2	0	1	1	4	N 35° E	N 7° E	3·5	2·8	+0·7	53	+24	78	+14	·745	+·164	4·3	+1·5	9	+6·2	10·49	1·92	+8·57	57·83	46·09	+11·74	3·43	Nagpur.
6	7	3	2	1	2	1	1	7	N 9° W		3·3‡			37		85	+21	·717	+·185	3·7	+1·0	11	+8·1	7·38	2·46	+4·92	54·24	45·61	+8·63	1·80	Pendra.
0	1	4	11	4	3	5	1	2	S 69° E	N 27° E	3·9	2·8	+1·1	40	+22	85	+12	·813	+·160	4·5	+1·5	3	−0·3	2·47	1·99	+0·48	36·91	47·14	−10·23	1·91	Raipur.
2	7	3	2	0	0	5	5	7	N 41° W	N 14° E	2·6	1·7	+0·9	46	+28	84	+11	·836	+·160	5·0	+2·3	6	+3·4	4·70	1·69	+3·01	56·13	50·00	+6·13	3·50	Chanda.
0	5	7	8	1	5	2	2	0	N 73° E		2·8			30		85		·757		6·3		8		2·78			44·02			0·75	Jagdalpur.
																															XIII.—Hyderabad.
5	2	6	5	4	0	2	6	1	N 55° E		5·8			17		73	+18	·668	+·130	6·2	+3·4	4	+1·4	2·28	1·70	+0·58	45·33	26·66	+18·67	1·12	Aurangabad.
8	8	2	1	5	0	1	3	3	N 1° E		2·9			24		80	+ 8	·750	+·064	5·1	+2·0	10	+7·5	4·18	1·75	+2·33	37·64	38·10	−0·46	1·42	Nizamabad.
1	1	9	0	4	0	4	2	10	N 18° W		5·9			29		86	+16	·721	+·085	6·2	+3·5	12	+8·4	4·98	3·07	+1·91	45·11	33·94	+11·17	1·20	Bidar.
6	4	1	5	0	0	2	9	4	N 51° W	N 72° E	2·9	6·1	−3·2	30	+ 7	79	+14	·695	+·061	5·6	+2·3	12	+8·4	6·72	3·06	+3·66	38·45	30·60	+7·85	1·85	Gulbarga.
0	3	2	4	4	1	5	3	9	N 53° W	S 79° E	6·9	5·3	+1·6	20	+14	80	+13	·740	+·086	4·4	+0·9	12	+8·4	18·06	3·25	+14·81	46·40	26·31	+20·09	6·25	Raichur.
12	0	0	2	1	0	0	10	6	N 73° W	S 68° E	2·7	2·8	—0·1	37	+29	85	+12	·744	+·096	6·5	+2·6	13	+8·5	13·98	3·23	+10·75	50·76	28·11	+22·65	4·02	Hyderabad (Deccan).
1	9	0	1	5	5	1	1	8	N 28° W		2·7			20		80	+11	·796	+·119	6·1	+2·6	13	+9·8	5·66	1·90	+3·76	43·95	32·01	+10·94	1·13	Hanamkonda.
																															XIV.—Mysore.
2	1	0	3	1	1	8	11	4	S 77° W	S 45° W	4·7	4·1	+0·6	52	+39	80	+ 4	·628	—·015	6·5	+1·0	8	+1·2	6·63	4·53	+2·10	22·13	21·46	+0·67	2·65	Chitaldrug.
4	0	1	2	1	0	5	13	4	S 86° W§	N 53° E	5·6‡	1·8	+3·8	53	+30	88	+ 6	·618	−·013	6·8	+0·1	8	−1·7	5·40	6·69	−1·59	34·70	29·67	+5·03	2·41	Hassan.
0	1	1	1	1	0	4	17	6	N 84° W	N 1° E	5·3	3·4	+1·9	72	+69	87	+ 5	·632	+·005	8·5	+2·4	10	+0·6	7·12	6·28	+0·84	42·30	29·91	+12·39	1·99	Bangalore.
6	0	0	1	1	0	10	8	5	S 76° W	S 72° W	5·1	5·3	—0·2	56	+38	84	+ 1	·633	—·024	7·5	+0·3	9	−0·5	10·00	7·04	+2·96	38·31	25·64	+12·67	3·34	Mysore.

* 3 winds less.
† Mean of 27 days.
‡ " " 29 "

§ One wind less.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·834	—·037	29·838	29·909	8th	29·731	17th	77·8	74·8	84·2	—1·5	74·2	+0·2	79·2	—0·7	10·0	87·5	13th	71·4	21st
	Calicut	27	29·878	—·029	29·834	29·953	8th	29·749	17th	76·0	74·8	81·9	—4·2P	74·1	—0·6	78·0	—2·4P	7·8	86·8	13th	69·4	21st
	Cochin	9	29·901	—·031	29·838	29·957	10th	29·799	17th	78·1	74·6	85·2	—1·4	74·1	—0·6	79·6	—1·0	11·1	88·7	8th & 12th	70·7	20th
	Trivandrum	198	29·716	—·023	29·815	29·774	10th	29·639	17th	78·1	73·6	83·3	+0·5	73·7	—1·3	78·5	—0·4	9·6	86·4	14th	71·5	20th
31	Pamban	37	29·828	—·053	29·793	29·896	10th	29·712	17th	81·6	77·2	87·8	0	78·9	+1·7	83·4	+0·9	8·9	90·0	13th	77·5	15th
	Madura	447	29·416	—·055	29·793	29·489	10th	29·224	17th	80·0	74·1	89·7	—1·4	74·4	+0·4	82·1	—0·5	15·3	98·2	30th	71·8	9th
	Pudukkottai	318	29·558	—·037	29·808	29·622	10th	29·476	17th	79·7	73·7	90·9	+0·4	74·3	—0·1	82·6	+0·1	16·6	97·9	1st	69·6	24th
	Negapatam	31	29·832	—·052	29·792	29·900	10th	29·755	17th	80·4	77·5	89·4	+0·7	76·2	0	82·8	+0·3	13·2	95·8	8th	70·8	3rd
	Trichinopoly	255	29·616	—·017	29·805	29·691	10th	29·523	17th	79·6	74·0	90·8	—0·3	74·7	+0·4	82·8	+0·1	16·1	97·7	11th	71·0	24th
	Coimbatore	1,341	28·550	—·032	28·839	28·628	8th	28·431	17th	75·1	70·9	85·1	—3·0	70·1	—0·5	77·6	—1·7	15·0	90·6	12th	65·5	10th
	Salem	913	28·865	—·036	29·819	29·052	6th	28·873	17th	75·8	72·9	87·8	—1·9	71·9	+0·5	79·8	—0·7	15·9	99·6	4th	68·2	21st
	Cuddalore	37	29·813	—·061	29·780	29·891	6th	29·733	23rd	79·3	75·3	87·6	—0·9	75·1	+0·6	81·3	—0·1	12·5	97·1	1st	71·0	1st
	Vellore	707	29·156	—·051	29·802	29·230	10th	29·057	23rd	77·9	74·6	87·5	—1·7	73·0	0	80·3	—0·9	14·5	93·5	10th	69·6	23rd
	Madras	22	29·824	—·065	29·778	29·906	10th	29·722	23rd	80·9	77·0	89·0	—0·3	76·3	+1·3	82·7	+0·5	12·7	98·1	4th	72·2	21st & 23rd.
32	Cuddapah	428	29·424	—·062	29·790	29·495	6th	29·342	23rd	80·3	75·4	89·5	—3·1	75·4	+1·2	82·5	—0·9	14·1	97·7	9th	70·6	21st
	Bellary	1,475	28·396	—·049	29·809	28·473	6th	28·305	31st	76·6	70·7	88·5	—1·8	71·6	+0·4	80·1	—0·7	16·9	95·0	15th	67·5	22nd
	Kurnool	923	28·943	—·042	29·810	29·023	10th	28·822	31st	77·0	71·8	87·8	—3·1	73·5	+2·5	80·7	—0·3	14·3	94·5	13th	70·0	21st
33	Nellore	66	29·767	—·073	29·768	29·856	10th	29·630	23rd	80·5	77·0	89·1	—2·3	76·8	+1·0	83·0	—0·7	12·3	96·9	4th	72·9	23rd
	Masulipatam	15	29·819	—·080	29·769	29·913	10th	29·603	23rd	80·9	77·6	87·1	—2·0	76·5	+0·5	81·8	—0·7	10·6	94·1	4th	73·1	30th
	Cocanada	26	29·813	—·067	29·776	29·911	10th	29·580	23rd	80·9	77·9	86·9	—1·2	76·4	+0·4	81·7	—0·4	10·5	92·9	9th	73·7	30th
	Waltair (Vizagapatam)	*226*	29·603	—·072	29·771	29·694	14th	29·393	29th	80·0	76·8	86·3	—1·9	75·8	—0·5	81·0	—1·2	10·5	91·5	8th	72·7	9th
	Calingapatam	19	29·819		29·775	29·908	14th	29·668	29th	81·1	77·8	88·5		76·7		82·6		11·8	96·0	1st	74·3	23rd
	Gopalpur	33	29·812	—·039	29·785	29·893	14th	29·686	1st & 2nd.	80·7*	77·7*	87·9*	+0·1*	78·1*	+2·6*	83·0*	+1·9*	9·8	92·9	1st	75·9	23rd
	Bay Islands.																					
1	P. V. Fraser	8	29·845†		29·791†	29·940	14th	29·710	1st	83·2	79·4											
	Port Blair	58	29·812	—·050	29·800	29·932	5th	29·684	20th	80·4	74·1	85·8	—0·8	76·9	0	81·3	—0·4	8·9	89·2	14th	73·7	30th & 31st.
	Table Island		29·782	—·038	29·806	29·909	5th	29·689	26th	81·4	78·0	84·6	—1·0	77·9	+0·5	81·3	—0·3	6·7	86·0	19th	73·3	27th
	Kashmir.																					
13	Muzaffarabad†		27·529			27·680	19th	27·230	7th	65·4	58·3	86·3		58·7		72·5		27·6	95·8	2nd	40·9	27th
	Srinagar	5,204	24·927	—·056	24·898	25·103	19th	24·713	7th	52·0	48·4	74·5	+4·4	41·5	+3·4	59·5	+3·9	30·0	86·6	3rd	30·4	29th
	Gulmarg	8,569																				
	Dras	*10,059*	20·856	—·022	20·824	20·989	30th	20·743	5th	36·6	P	60·1	+2·7	31·2	+4·4	45·7	+3·5	28·9	77·2	3rd	17·4	30th
	Leh	*11,503*	19·771	—·019	19·739	19·902	30th	19·661	26th	45·1	38·7‡	64·6	+6·0	33·5	+2·2	49·1	+4·6	31·1	78·4	2nd	21·3	29th
	Skardu	*7,505*	22·899	—·060	22·869	23·106	30th	22·757	4th	50·4	43·3§	71·2	+4·8	45·1	+3·8	58·1	+4·3	26·1	84·9	1st	28·4	31st
	Gilgit	4,890	25·157	—·072	25·130	25·344	30th	24·985	8th	63·1	53·2	80·4	+5·5	55·2	+2·4	67·8	+3·9	25·2	92·2	2nd	42·7	31st

N.B. Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 24 days. § Mean of 26 days.

† " " 30 "

‡ " " 22 "

B—*continued.*

in India, etc., in October, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															XV.—Madras.
1	6	2	12	3	1	1	2	3	N 62° E	S 89° E	4·5	1·6	+2·9	43	+ 3	86	+ 3	·817	—·018	7·7	+2·1	14	+ 4·2	9·18	6·91	+ 2·27	117·27	122·13	— 4·86	2·34	Mangalore.
12	1	3	6	0	1	0	1	7	N 17° E	N 76° E	3·3	5·4	—2·1	23	—24	94	+ 8	·842	—·001	5·3	+2·4	15	+ 4·1	10·90	9·70	+ 1·20	109·11	106·14	+ 2·97	2·14	Calicut.
5	2	3	14	4	1	2	0	0	S 87° E	N 34° E	4·2	3·2	+1·0	56	+ 2	84	0	·806	—·040	6·0	+0·4	16	+ 2·0	17·37	13·06	+ 4·31	110·58	97·26	+13·32	6·55	Cochin.
3	9	1	0	0	0	0	1	17	N 30° W	N 14° W	5·2	3·7	+1·5	82	+34	80	— 4	·762	—·050	7·4	+0·7	12	+ 0·1	12·42	10·49	+ 1·93	50·96	47·21	+ 3·75	4·30	Trivandrum.
8	4	0	0	0	7	8	4	0	S 48° W	S 68° W	6·4	6·3	+0·1	46	+24	82	0	·872	—·007	3·6	—0·8	5	— 4·7	2·21	9·65	— 7·44	14·33	13·01	+ 1·32	0·80	Pamban.
0	5	2	2	0	1	0	9	12	N 45° W	N 14° W	3·7	1·8	+1·9	66	+ 5	75	— 1	·765	—·017	7·1	+1·9	8	— 2·8	7·54	8·51	— 0·97	23·07	24·13	— 1·06	1·53	Madura.
8	10	0	0	0	0	0	1	12	N 25° W		2·8			68		75	— 6	·750	—·055	5·3	—1·1	5	— 4·0	3·80	5·60	— 1·80	31·23	23·60	+ 7·63	1·97	Pudukkottai.
2	0	0	0	0	2	6	18	3	S 81° W	N 85° W	5·3	3·4	+1·9	79	+39	87	+ 6*	·908	+·046*	6·6	+0·4	8	— 2·1	7·94	10·84	— 2·90	24·06	23·35	+ 0·71	1·72	Negapatam.
3	0	0	0	0	1	9	11	7	S 81° W	N 77° W	3·0	2·8	+0·2	72	+36	76	— 4	·762	—·048	5·5	—0·2	8	— 1·5	6·05	7·15	— 1·10	24·94	21·80	+ 3·14	1·95	Trichinopoly.
12	0	0	0	1	6	10	2	6	S 31° W	S 4° E	3·1	2·0	+1·1	53	+28	81	— 5	·793	—·066	4·2	—1·4	7	— 2·9	7·44	6·63	+ 0·81	21·31	14·68	+ 6·63	2·06	Coimbatore.
17	0	0	0	0	8	5	6	0	S 55° W	S 40° W	2·6	1·8	+0·8	37	+26	86	+ 5	·769	—·010	6·8	+1·0	17	+ 6·8	14·49	6·66	+ 7·83	41·20	32·35	+ 8·85	6·52	Salem.
14	0	0	0	0	0	10	4	3	S 70° W	N 69° W	2·6	1·6	+1·0	46	— 1	82	— 4	·824	—·065	6·6	+1·4	11	+ 0·3	17·07	11·62	+ 5·45	30·51	28·47	+ 2·04	5·21	Cuddalore.
16	0	0	0	1	0	0	10	4	N 80° W		1·9			51		85	+ 4	·812	+·038	6·0	+1·6	16	+ 8·5	12·63	6·98	+ 5·65	48·32	33·34	+14·98	2·52	Vellore.
0	0	0	1	0	5	11	9	5	S 65° W	N 83° W	3·7	3·5	+0·2	69	+37	84	+ 1	·877	—·002	5·7	+0·4	15	+ 4·4	15·30	11·27	+ 4·03	28·33	28·42	— 0·09	3·31	Madras.
3	6	3	0	1	1	1	6	10	N 41° W	N 72° E				56	+34	80	+ 7	·818	+·052	6·0	+1·2	15	+ 8·6	8·50	5·08	+ 3·42	39·53	26·25	+13·28	1·99	Cuddapah.
1	2	2	3	1	0	3	10	9	N 63° W	N 62° W	4·4	3·1	+1·3	46	+39	74	+ 7	·673	+·047	6·1	+0·8	11	+ 4·6	6·51	3·98	+ 2·53	24·95	16·67	+ 8·28	2·84	Bellary.
8	0	0	3	3	0	3	7	7	N 86° W	N 66° W	3·2			30	+23	77	+ 3	·718	+·015	6·6	+2·5	10	+ 5·1	14·93	3·30	+11·63	38·19	24·28	+13·91	5·76	Kurnool.
9	3	4	1	0	2	3	3	8	N 43° W	N 68° W	2·5	3·2	—0·7	27	+ 9	83	+ 3	·865	+·003	7·2	+0·6	11	+ 2·9	11·34	8·32	+ 3·02	28·12	21·05	+ 7·07	3·00	Nellore.
6	5	3	1	1	2	4	3	6	N 47° W	N 1° E	4·4	3·4	+1·0	27	—13	86	+ 3	·899	+·015	6·7	+1·8	13	+ 4·6	14·00	7·96	+ 6·04	55·18	32·44	+22·74	2·90	Masulipatam.
5	3	10	2	1	1	2	1	6	N 15° E	N 11° W	6·8	5·5	+1·3	37	—24	87	+ 8	·917	+·093	6·1	+1·6	16	+ 7·8	13·83	7·99	+ 5·84	38·93	31·13	+ 7·80	2·72	Cocanada.
9	2	7	3	1	1	6	2	0	N 54° E	N 74° W	4·0			7	—38	87	+15	·880	+·103	5·4	+0·4	14	+ 7·3	14·44	6·45	+ 7·99	36·30	30·08	+ 6·22	2·75	Waltair (Vizagapatam).
1	6	5	2	2	1	1	3	4	N 3° E		6·0			28		86		·907		3·7		12	+ 7·2	13·71	4·43	+ 9·28	29·61	29·15	+ 0·46	5·09	Calingapatam.
0	11	4	0	3	1	3	0	9	N 13° W	N 23° W	7·3	5·8	+1·5	49	—26	87*	+ 5	·907*	+·093	5·2	+3·0	12	+ 5·1	22·30	8·29	+14·01	37·66	38·42	— 0·76	6·96	Gopalpur.
																															Bay Islands.
4	2	5	5	5	3	6	0	1	S 54° E					26		84		·949		5·6		12		8·54			39·11			2·10	P. V. Fraser.
9	0	1	3	4	5	2	3	4	S 7° W	S 69° W	5·6	4·6	+1·0	20	+ 2	87	— 2	·894	—·026	7·1	+0·7	19	+ 3·6	14·61	10·89	+ 3·72	102·83	96·07	+ 6·76	3·72	Port Blair.
2	2	5	4	7	6	2	2	1	S 54° E					33		85	0	·915	+·008	6·2	—0·9	12	+ 1·7	9·14	6·53	+ 2·61	24·67a	70·38	—45·71	1·94	Table Island.
																															Kashmir.
28	0	0	0	0	0	2	0	0	S 48° W		0·7†			3		63		·415		1·9		3		0·98			37·67b			0·49	Muzaffarabad.
19	0	0	0	9	8	0	0	3	S 24° E	S 51° E	1·9	2·2	—0·3	49	+27	77	— 9	·312	+·026	1·9	—0·7	0	— 2·5	0·07	1·08	— 1·01	10·26	12·54	— 2·28	0·06	Srinagar.
																															Gulmarg.
28	0	0	0	0	0	1	1	1	W		5·4			8		68‡		·203‡		1·0	—1·0	0	— 1·4	0·05	0·42	— 0·37	4·01	6·82	— 2·81	0·05	Dras.
30	0	0	0	0	1	0	0	0	S	S 83° W	2·7	1·5	+1·2	3	—40	45§		·153§		1·1	—1·3	0	— 0·1	0	0·17	— 0·17	2·87	1·82	+ 1·05	0	Leh.
26	0	0	0	0	1	2	2	0	S 54° W		3·8			10		46‖	—19	·186‖	—·028	1·3	—1·5	0	— 0·1	0	0·06	— 0·06	1·12	3·73	— 2·61	0	Skardu.
28	0	0	0	0	0	2	0	1	S 72° W		0·1			7		50	+ 3	·301	+·061	1·5	—1·9	0	— 0·6	0	0·25	— 0·25	1·46	3·00	— 1·54	0	Gilgit.

* Mean of 24 days.
† " 29 "
‡ " 17 "
§ " 22 "
‖ " 26 "

a Rainfall since 15th August 1916.
b " " 1st June "

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·429		25·398	25·534	30th	25·248	7th	61·1	48·7	84·4		53·1		68·7		31·3	94·9	3rd	36·9	30th
	Quetta	5,502	24·698	—·037	24·658	24·797	25th	24·541	7th	41·5	41·8*	76·5	+1·2	37·1	—1·8	56·8	—0·3	39·4	87·9	2nd	25·7	29th
	Chaman	4,311	25·783	—·075	25·695	25·853	25th	25·562	7th	57·5	46·4	78·7	—0·2	49·9	—2·8	64·3	—1·5	28·8	92·7	2nd	38·2	30th
	Kalat	6,630	23·799		23·761	23·891	25th	23·651	7th	40·1	38·7†	74·6	+0·1	35·6		55·1		39·0	85·3	1st	22·6	29th
	Dalbandin	2,772	27·172		27·135	27·317	25th	26·988	1st	53·8	42·3‡	85·5		47·3		66·4		38·2	99·2	1st	33·0	30th
	Pasni		29·891		29·851	30·037	30th	29·704	1st	79·5	72·5	91·5		67·6		79·6		23·9	98·5	17th	51·1	20th
	Panjgur		26·780		26·738	26·897	27th	26·599	1st	57·5	45·8	83·9		52·6		68·2		31·3	97·4	1st	42·0	29th & 30th
	Robat		26·969		26·927	27·130	25th	26·777	7th	58·5	44·1	85·8		53·9		69·8		31·9	99·0	1st	41·0	26th
	Seistan		28·247			28·440	25th & 26th.	28·020	1st	54·7	45·7	79·2		49·8		64·5		29·4	95·0	1st	33·0	30th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·492	—·017	24·468	24·596	14th	24·340	7th	60·5	50·8	75·0	+0·4	49·4	+0·2	62·2	+0·3	25·6	84·6	1st	37·1	28th
	Cherat	*4,956*	25·752	—·007	25·720	25·851	14th	25·561	7th	65·7	53·9	76·8	—1·0	60·4	+2·7	68·6	+0·9	16·4	86·4	3rd	51·5	28th
	Drosh (c)		25·114			25·225	14, 19th & 30th.	24·900	7th	57·2	48·8	79·0	+1·9	55·5	+2·7	67·2	+2·3	23·5	95·7	7th	41·6	28th
	Murree	6,323	23·890	—·028	23·858	23·979	14th	23·730	7th	57·3	49·1	67·2	—1·6	55·0	+1·9	61·1	+0·1	12·2	75·6	3rd	49·6	28th
	Simla	7,232	23·156	—·014	23·118	23·229	14th	22·992	7th	56·4	49·1	61·1	—1·7	52·0	+0·9	56·6	—0·4	9·1	68·1	3rd	47·6	26th
	Sarain		23·135	—·075	23·097	23·221	30th	22·974	7th	46·5	44·4	64·9	—0·2	44·1	+1·8	54·5	+0·8	20·8	72·6	1st	34·2	27th & 30th.
	Kalabagh		20·174	—·001	20·136	20·230	16th	20·039	7th	44·4	42·9‡	51·3	+2·0	40·1	+2·4	45·7	+2·2	11·2	60·0	3rd	32·2	27th
	Chakrata	7,072								58·1	53·2	65·3	—1·7	52·9	+1·9	59·1	+0·1	12·4	70·7	2nd	47·5	26th
	Mukteswar	7,592	22·896	—·018	22·855	22·985	14th	22·707	7th	55·8	49·4	64·3	—2·2	50·5	+0·7	57·4	—0·7	13·8	69·7	1st	44·3	30th & 31st.
	Darjiling	7,432	23·011	—·013	22·966	23·086	11th	22·843	7th	56·3	53·9	64·4	+3·1	51·5	+1·6	58·0	+2·3	12·9	72·2	1st	46·9	22nd
	Shillong	4,920	25·172	—·013	25·124	25·231	30th	24·981	7th	64·2	60·9	70·5	—1·2	56·3	+1·8	63·4	+0·3	14·2	76·5	1st	48·7	20th
	Cherrapunji	4,309	25·715	—·020	25·666	25·766	30th	25·516	7th	66·9	63·0	72·5	+0·5	61·0	+0·5	66·8	+0·5	11·5	78·1	1st	56·9	20th
	Netarhat		26·256		26·205	26·339	16th	26·107	6th	67·1	66·1	74·7		63·1		68·9		11·6	79·8	1st	58·5	25th
	Maymyo	3,546	26·482	+·022	26·427	26·565	31st	26·381	1st	67·4	65·8	77·3	+0·5	61·0	+0·9	69·1	+0·7	16·3	82·0	29th	55·6	21st & 24th.
	Pachmarhi	3,528	26·418	—·081	26·365	26·514	10th	26·212	5th	69·0	66·1	76·5	—2·1	64·1	+4·9	70·3	+1·4	12·4	80·5	15th & 16th.	60·1	4 days
	Mount Abu	3,945	26·043	—·067	25·993	26·119	14th	25·920	1st	67·9	59·8	74·1	—5·1	62·2	—2·3	68·1	—3·7	11·9	77·2	15th, 17th & 19th.	55·9	31st
	Mercara	3,781	26·185	—·050	26·118	26·272	8th	26·052	17th	64·9	63·4	73·0	—3·0	60·5	—1·6	66·8	—2·3	12·5	79·6	12th	57·7	1st
	Ootacamund	*7,397*	23·024	—·031	22·960	23·102	10th	22·922	17th	57·5	54·8	64·6	+0·6	51·2	+0·8	58·0	+0·7	13·3	68·5	15th	47·3	1st
	Kodaikanal	7,683	22·802	—·034	22·737	22·871	10th	22·707	17th	56·8	53·4	63·0	+0·5	51·7	+0·3	57·4	+0·4	11·3	68·2	5th	47·6	22nd
	Extra India.																					
	Singapore (a)	10	29·530	—·110	29·761	29·895	31st	29·785	16th	83·5		88·5	+0·6	75·2	+1·2	81·9	+0·9	13·3	91·5	26th	74·9	8 days
	Penang (a)	17	29·919	—·001	29·860	29·998	24th	29·815	7th	82·1		87·6	—0·8	72·7	—0·5	80·1	—0·7	14·9	90·0	30th	70·0	25th
	Trincomalee	99	29·760	—·051	29·788	29·834	10th	29·692	16th	77·2	73·8	91·0	+2·3	75·7	+0·2	83·3	+1·3	15·3	97·0	1st	72·9	22nd
	Colombo	24	29·890	—·035	29·840	29·947	27th	29·797	16th	78·0	74·7	84·9	—1·1	75·8	+0·5	80·3	—0·3	9·1	85·9	3rd	73·1	3rd
	Hambantota	64	29·836		29·826	29·905	10th	29·767	16th	76·4	74·0	86·8		74·9		80·8		11·9	91·5	31st	73·4	14th & 17th.
	Minicoy	7	29·943	+·005		29·992	14th & 27th.	29·861	18th													
	Amini Divi	*18*																				
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,667	24·492	—·023	24·447	24·620	30th	24·326	7th	60·5	58·8	72·1	+1·3	56·2	+7·8	64·2	+4·5	15·9	77·9	1st	51·1	29th
	Gurtok (c)	15,100	15·009			15·040	1st	15·000	10days	34·5		56·1							62·6	4th		

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(c) Aneroid.

* Mean of 30 days.
† „ 17 „

‡ Mean of 29 days.

B—*continued.*

n India, etc., in October, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Baluchistan.
9	1	1	0	0	0	0	0	0	N 24° E		1·5			7		36		·217		0		0		0			7·88			0	Fort Sandeman.
0	0	1	0	0	0	0	0	0	N 45° E	N 59° W	1·4	1·4	0	3	0	64‡	+20	·210‡	+·015	0·9	+0·6	0	−0·2	0	0·09	−0·09	2·08	1·91	+0·17	0	Quetta.
6	0	0	17	6	2	0	0	0	S 74° E	S 45° E	3·5	5·8	−2·3	72	+18	42	+ 9	·192	−·010	0·6	+0·1	0	−0·2	0	0·07	−0·07	0·74	0·29	+0·45	0	Chaman.
3	0	0	0	0	0	0	0	0	Calm	S 11° E	4·7			(a)		48‖		·153‖		0·3		0	−0·2	0	0·04	−0·04	3·02	1·41	+1·61	0	Kalat.
8	4	10	5	3	1	0	0	0	N 61° E		3·2			53		28§		·124§		0·6		0		0			0·50			0	Dalbandin.
1	8	1	1	0	0	1	12	7	N 51° W		6·6			66		72		·720		1·8		0		0			2·10			0	Pasni.
8	0	14	9	0	0	0	0	0	N 63° E		3·7			69		35		·169		0·8		0		0			4·57			0	Panjgur.
2	0	0	1	0	2	18	7	1	S 55° W		3·9			76		23		·116		0·4		0		0			0			0	Robat.
4	2	0	1	0	0	0	0	14	N 37° W		9·7			49		48		·205		0·2		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
1	0	0	0	0	0	0	0	0	Calm		0·4			(a)		48	+ 9	·263	+·052	0·8	−0·3	2	0	1·05	0·78	+0·27	15·12	13·78	+1·34	0·80	Para Chinar.
0	14	0	0	0	12	3	2	0	S 89° W	N 11° W	5·1	7·4	−2·3	13	−28	44	+ 2	·302	+·047	1·2	+0·2	0	−0·9	0·04	0·29	−0·25	17·38	13·59	+3·79	0·04	Cherat.
3	0	0	0	1	0	0	0	0	S 45° E		1·4			3		52	− 2	·271	+·028	1·4	−0·6	1	−1·3	0·58	1·25	−0·67	5·47	6·50	−1·03	0·48	Drosh.
0	14	1	0	2	1	0	0	3	N	N 27° W	3·9	4·5	−0·6	46	+27	53	+10	·260	+·047	1·8	+0·5	2	−0·3	2·30	1·27	+1·03	59·19	39·42	+19·77	2·13	Murree.
																61	+13	·282	+·073	3·2	+2·4	6	+4·7	3·53	0·87	+2·66	52·19	51·28	+0·91	1·20	Simla.
																84	+17	·285	+·064	2·2	+1·6	2	+1·6	2·71	1·12	+1·59	49·58	40·34	+9·24	1·88	Sarain.
5	7	2	0	0	12	4	0	1	S 15° W		4·6			19		76§	+26	·228§	+·093	2·7	+2·0	4	+3·0	3·07	1·49	+1·58	66·46	55·00	+11·46	1·65	Kalabagh.
5	5	12	6	1	0	2	0	0	N 51° E	N 39° E	5·6	4·5	+1·1	56	+24	73	+13	·358	+·080	3·3	+2·4	3	+1·8	2·37	0·82	+1·55	57·39	57·62	−0·23	1·14	Chakrata.
0	0	1	9	7	1	0	3	0	S 66° E		4·2			43		65	+ 9	·259	+·005	3·5	+2·2	5	+3·6	2·12	1·70	+0·42	59·52	41·99	+17·53	0·95	Mukteswar.
.	0	1	0	0	0	0	0	0	N 45° E	N 73° E	0·2	2·4	−2·2	3	−29	86	0	·391	+·014	6·8	+1·5	11	+6·7	6·64	4·49	+2·35	125·20	113·43	+11·87	2·02	Darjiling.
3	0	0	2	2	2	2	1	1	S 4° E		0·7			13		83	+ 4	·498	+·032	5·9	+2·5	15	+5·2	13·48	6·07	+13·41	79·90	75·05	+4·85	5·40	Shillong.
1	2	7	7	1	1	4	4	1	N 59° E		3·1			20		81	0	·530	+·011	6·5	+2·1	13	+4·3	48·05	14·52	+33·53	417·27	362·20	+55·07	17·74	Cherrapunji.
5	6	4	3	3	4	1	4	1	N 45° E		7·4			13		95		·640		7·3		18		18·20			47·43†			4·25	Neterhat.
7	0	0	0	2	0	0	0	2	(a)		1·3			(a)		91	+ 1	·616	−·028	3·7	−1·3	12	0	7·97	7·15	+0·82	49·54	50·47	−0·93	1·58	Maymyo.
1	2	7	2	10	1	0	1	7	N 64° E	N 34° E	4·5	2·3	+2·2	30	+19	87	+30	·611	+·177	5·8	+3·4	11	+8·0	13·30	1·91	+11·39	102·31	72·37	+29·97	3·45	Pachmarhi.
5	0	14	2	1	1	7	0	1	N 60° E	N 27° W	3·7	3·6	+0·1	27	+ 9	62	+19	·431	+·093	3·8	+2·7	3	+2·4	1·04	0·59	+0·45	86·25	59·50	+26·75	0·67	Mount Abu.
.	3	3	1	0	0	5	7	4	N 66° W	N 27° E	2·8	3·1	−0·3	37	+12	91	+ 2	·562	−·021	8·4	+1·8	13	−0·3	10·64	8·62	+2·02	123·12	119·62	+3·50	2·20	Mercara.
1	0	0	4	2	1	3	4	1	S 49° W		2·1			10		85	+ 7	·398	+·025	8·6	+2·6	7	−7·6	7·88	8·71	−0·83	42·90	44·10	−1·20	4·03	Ootacamund.
1	8	1	2	3	0	1	10	6	N 45° W		6·8			46		81	− 3	·373	−·009	6·2	+1·0	11	−4·5	6·97	10·95	−3·98	45·08	39·67	+5·41	1·57	Kodaikanal.
																															Extra India.
1	0	1	3	2	1	3	3	7	N 77° W					17						6·6	+0·9	11	−0·8	7·77	7·32	+0·45	53·52	40·12	+13·40	1·88	Singapore.
1	5	12	0	5	2	1	0	6	N 31° E					42								18	−0·1	22·61	16·93	+5·68	58·44	64·65	−6·21	4·48	Penang.
0	0	0	0	0	0	16	15	0	S 67° W	S 45° W	8·0	6·2	+1·8	92	+17	84	− 2	·787	−·080	5·7	+2·1	6	−4·8	2·81	7·61	−4·80	17·47	22·35	−4·88	1·17	Trincomalee.
0	0	0	1	1	1	11	5	6	S 71° W	S 41° W	5·6	5·4	+0·2	53	+11	85	+ 1	·813	−·055	9·8	+3·5	10	−5·9	3·23	14·94	−11·71	66·54	46·52	+20·02	0·87	Colombo.
2	0	1	0	0	0	4	22	2	S 88° W		10·8	8·2	+2·6	82		89		·801		5·0		6		1·51	5·01	−3·50	18·38	15·53	+2·85	0·36	Hambantota.
1	2	0	0	0	0	4	11	13	N 69° W	N 78° W	5·7	5·4	+0·3	78	+21					4·3	−0·4	9	−2·3	3·35	8·22	−4·87	51·05	46·74	+4·31	0·78	Minicoy.
																									5·98			47·24			Amini Divi.
																															Gyantse.
																															Phari Jong.
1	0	1	0	0	0	0	0	0	N 45° W		0·7			3		91	+ 7	·481	+·027	1·7	−1·	12	+2·9	6·24	5·34	+0·90	115·65	112·30	+3·35	1·13	Gangtok.
1	0	0	0	1	0	0	0	1	(a)					(a)						1·7		1		0·17			5·59*			0·12	Gartok.

(a) Indeterminate.

* Rainfall since 28th June 1916.
† " " 1st August "

‡ Mean of 30 days.
§ " " 9 "
‖ " " 17 "

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Kashgar (c)	4,255	25·637	—·093		25·760	21st	25·420	8th	50·6	44·8*	72·3	+1·7	43·2	+0·3	57·7	+1·0	29·1	86·3	3rd	27·3	30th
	Kabul (c)		24·199	—·131†		24·340	31st	23·990	7th	47·0	43·8*	81·4	+3·9	46·3	+4·7	63·9	+4·3	35·1	96·4	2nd	33·0	28th
	Meshed	3,104								44·1	41·4†	73·0‡	+3·0	36·3	−6·2	54·4‡	−1·6	36·7	84·4	5th & 6th	26·0	27th & 28th.
	Jask	13	29·887	—·048	29·854	30·037	27th	29·689	1st	76·7	68·2	91·0	+0·7	73·1	−2·8	82·1	−1·1	17·9	97·1	1st	62·2	31st
	Muscat	20	29·903	—·037	29·872	30·049	28th	29·717	1st	83·3	72·4	94·4	+6·2	80·8	+0·2	87·6	+3·2	13·6	102·3	8th	72·6	29th
	Bushire	14	29·913	—·032	29·889	30·051	26th	29·719	7th	74·4	66·5	83·1	+4·5	68·0	−3·3	75·4	−3·9	15·1	89·3	1st	60·4	31st
	Busrah	25	29·836§	?	29·830§	29·915	18th	29·741	3rd	73·3	63·8	89·7	+0·6	56·8	−9·6	73·3	−4·5	32·9	97·1	15th	14·6	25th
	Ispahan (c)	*5,817*																				
	Tehran (c)	*4,009*																				
	Baghdad	127																				
	Aden	94	29·828	—·046	29·850	29·944	18th	29·718	3rd	81·3	74·4	91·8	+2·2	78·4	+0·6	85·1	+1·4	13·4	97·4	23rd	70·7	23rd
	Zanzibar	72	30·022	+·004	29·021	30·076	18th	29·955	5th	77·9	73·8	82·5	−0·9	74·5	−0·8	78·5	−0·9	8·0	87·0	24th	73·2	3rd & 4th

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(*a*) 8½ hrs. observations.
(*c*) Aneroid.

* Mean of 28 days.
† " " 27 "
‡ " " 20 "
§ " " 12 "

B—*concluded.*

stations in India, etc., in October, 1916—*concluded.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May, to 31st October, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Extra India —*concld.*
29	2	0	0	0	0	0	0	0	N	N 38° W	1·2	1·2	0	6	−6	55*	−1	·221*	+·015	2·3	0	0	−0·1	0	0·02	−0·02	0·47	2·26	−1·79	0	Kashgar.
0	2	5	0	1	2	14	6	1	S 63° W	S 10° E				42	+30	70*	+16	·252*	+·020	1·0	+0·4	1	+0·3	0·79	0·36	+0·43	2·60	1·86	+0·74	0·75	Kabul.
27	1	1	1	0	1	0	0	0	N 63° E		1·0			6		62†	+1	·192†	−·060	0·8	−1·4	1	0	0·18	0·39	−0·21	1·63	2·23	−0·60	0·18	Meshed.
1	8	9	7	0	0	0	1	5	N 27° E	N 55° E	6·4	7·7	−1·3	66	+32	65	−6	·583	−·159	0·1	−0·8	0	−0·2	0	0·04	−0·04	0·29	0·10	+0·19	0	Jask.
4	0	0	1	1	0	1	1	23	N 48° W	N 76° W	3·4	2·7	+0·7	72	+44	57	−9	·663	−·092	0·8	+0·2	1	+0·9	0·78	0·07	+0·71	1·36	0·24	+1·12	0·78	Muscat.
23	3	0	1	0	0	0	0	4	N 18° W	N 67° E	5·1	4·5	+0·6	20	−38	65	0	·564	−·068	0·3	−0·8	0	−0·2	0	0·10	−0·10	0	0·13	−0·13	0	Bushire.
1	0	0	0	0	1	12	17	0	S 71° W		6·0			84		57		·475		0		0	−0·2	0	0·08	−0·08	0·01	0·73	−0·72	0	Busrah.
										N 74° W		2·1													0·17			0·50			Ispahan.
										N 18° E		2·1													0·30			1·18			Tehran.
										N 6° W		2·0													0·08			0·36			Baghdad.
8	6	17	0	0	0	0	0	0	N 33° E	N 78° E	7·3	5·3	−2·0	72	+4	71	+1	·758	−·017	1·3	−1·0	0	−0·1	0	0·08	−0·08	0·89	0·58	+0·31	0	Aden.
2	0	1	0	13	12	3	0	0	S 19° E	S 20° E	2·7	3·7	−1·0	81	+9	81	−1	·772	−·018	7·0	+0·8	7	+1·4	5·83	3·67	+2·16	16·86	23·48	−6·62	1·60	Zanzibar.

* Mean of 28 days.
† " " 27 "

Table C.—Abstract of observations taken at 8 hrs. at 57 fourth and fifth class stations in India, etc., in October, 1916.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	75·0	72·9	84·3	−3·0	70·1	+4·5	77·2	+0·7	14·2	93·9	1st	65·7	10th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	78·6	75·8	86·9	−1·5	66·3	−2·8	76·6	−2·1	20·6	96·2	2nd	59·6	9th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	76·8	75·7	94·4	+7·2	57·7	−12·2	76·1	−2·5	36·7	99·6	27th	54·3	7th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	72·1	70·3	85·9	+2·4	68·5	+1·0	77·2	+1·7	17·4	95·3	1st	61·7	8th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	72·5	70·5	83·6	−2·4	68·5	+0·9	76·1	−0·7	15·1	93·8	1st	62·8	8th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	73·2	72·0	82·5	−1·4	68·4	...	75·5	...	14·1	91·3	1st	64·2	8th & 9th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	77·7	75·6	87·8	−0·2	72·4	+1·1	80·1	+0·5	15·4	93·0	29th	69·8	8th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	73·7	72·7	83·8	−2·9	71·8	+1·8	77·8	−0·5	12·0	89·9	1st & 15th	64·3	23rd	...	...	...	...	...	...	...	...	...	...	...
	Lumding	74·3	72·9e	83·9	...	70·1f	...	76·9f	...	13·8	90·1	1st	65·0	11th	...	...	...	...	...	...	...	...	...	...	...
	Mesa	76·6	71·4	91·0	0	68·8	+1·4	79·9	+0·7	22·2	96·1	28th	66·2	26th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	70·0	68·7	85·7	−0·9	67·8	+1·3	76·7	+0·2	17·9	93·4	1st	62·8	28th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·6	77·3	88·8	+0·9	75·5	+2·0	82·1	+1·5	13·3	93·2	2nd	72·9	6th & 24th.	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	81·3	77·1	88·4	−0·4	74·3	+1·8	81·3	+0·7	14·1	95·3	18th	70·1	26th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	81·3	77·3	83·9	−3·4	75·1	+3·7	82·0	+0·1	13·8	93·2	1st	70·9	1st	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	73·4	71·5	89·1	−1·6	67·3	+1·8	78·2	+0·1	21·8	93·1	1st	61·3	29th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	79·8	75·5	86·7	−1·6	67·7	+1·4	77·2	−0·1	19·0	91·1	11th & 16th.	64·0	23rd & 28th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	77·5	73·0	87·6	−0·9	68·2	+0·8	77·9	−0·1	19·4	92·1	2nd	61·0	8th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

e Mean of 29 days.
f Mean of 28 days.

C[illegible]

and fifth class stations in India, etc., in October, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	90	− 1	·783	+·027	...	...	4	−3·0	3·97	5·29	−1·32	75·11	76·37	−1·26	2·35	Bishnath.
...	...	...	...	...	88	+ 3	·862	+·088	...	...	5	−2·2	5·85	3·55	+2·30	73·23	68·62	+4·61	2·54	Borjuli.
...	...	...	...	...	95	+ 3	·872	+·051	...	...	9	+1·0	15·25	8·32	+6·93	77·00	87·03	−10·03	4·50	Chandkhira.
...	...	...	...	...	91	− 2	·716	−·031	...	...	8	+1·2	5·68	4·72	+0·96	74·70	75·12	−0·42	1·37	Doom Dooma.
...	...	...	...	...	90	+ 2	·719	−·002	...	...	10	+2·5	4·74	5·49	−0·75	89·49	81·38	+8·11	1·05	Dikom.
...	...	...	...	...	94	+ 4	·768	−·015	...	...	8	+1·7	6·60	2·79	+3·81	65·03	53·85	+11·18	3·08	Golaghat.
...	...	...	...	...	90	− 3	·855	+·056	...	...	12	+3·0	17·30	9·49	+7·81	89·18	97·72	−8·54	4·60	Hailakandi.
...	...	...	...	...	95	+ 5	·790	+·013	...	...	9	+2·0	6·53	3·91	+2·62	60·26	62·74	−2·48	2·75	Jorehat.
...	...	...	...	...	9[illegible]*	...	·781*	...	...	...	11	+4·7	12·08	5·27	+6·81	40·79	40·18	+0·61	5·90	Lumding.
...	...	...	...	...	77	− 4	·700	−·087	...	...	10	+4·0	8·26	3·09	+5·17	72·41	74·57	−2·16	4·05	Mesas.
...	...	...	...	...	94	+ 1	·689	+·046	...	...	6	+0·5	4·92	3·65	+1·27	63·73	62·66	+1·07	2·13	Pangrihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	8	+1·[illegible]	20·98	6·04	+14·94	68·55	76·58	−8·03	5·70	Comilla.
...	...	...	...	...	82	− 3	·878	−·007	...	...	11	+3·4	11·68	5·42	+6·26	60·22	67·86	−7·64	3·04	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	12	+6·6	11·85	4·55	+7·30	66·28	59·82	+6·46	4·04	Faridpur.
...	...	...	...	...	82	+ 2	·873	+·036	...	...	9	+2·0	17·34	6·06	+11·28	73·84	57·90	+15·94	4·30	Goalundo.
...	...	...	...	...	83	+ 4	·884	+·049	...	...	12	+7·2	13·08	4·82	+8·26	69·19	53·57	+15·62	2·86	Pabna.
...	...	...	...	...	...	...	...	...	...	...	12	+7·4	15·10	4·69	+10·41	63·55	57·88	+5·67	5·72	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	14	+9·9	11·38	3·14	+11·24	83·92	49·47	+34·45	3·03	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	11	+7·1	9·64	3·85	+5·79	70·30	49·13	+21·24	3·90	Malda.
...	...	...	...	...	...	...	...	...	...	...	8	+4·4	5·23	4·19	+1·14	83·17	75·05	+8·12	1·94	Rangpur.
...	...	...	...	...	91	+ 1	·747	−·018	...	...	11	+4·5	11·16	5·07	+6·09	154·63	145·00	+9·63	2·70	Dam Dim.
...	...	...	...	...	80	− 1	·832	+·011	...	...	11	+4·7	8·37	5·86	+2·51	171·62	141·16	+30·46	1·77	Kalchini.
...	...	...	...	...	81	+ 1	·757	+·032	...	...	13	+5·7	8·82	7·46	+1·36	143·37	150·34	−6·97	1·39	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	11	+6·2	6·46	6·03	+0·43	174·23	137·77	+37·11	1·45	Gooch Behar.
...	...	...	...	...	...	...	...	...	...	...	11	+6·5	11·10	3·94	+7·16	57·74	50·39	+7·35	2·30	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	15	+11·0	12·81	2·73	+10·08	67·29	49·83	+17·46	2·60	Bankura.
...	...	...	...	...	...	...	...	...	...	...	15	+11·4	9·87	2·31	+7·56	59·21	48·06	+11·15	2·93	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	13	+9·0	10·65	2·83	+7·82	55·21	48·39	+6·82	3·60	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	12	+9·4	9·61	2·05	+7·56	47·27	46·15	+1·12	3·90	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	5	+2·4	7·41	2·88	+4·53	55·84	46·86	+8·98	4·60	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	2	−0·6	4·46	2·67	+1·79	52·22	53·47	−1·25	4·16	Motihari.
...	...	...	...	...	...	...	...	...	...	...	5	+2·6	3·45	2·27	+1·18	74·18	39·52	+34·66	1·07	Chapra.
...	...	...	...	...	...	...	...	...	...	...	7	+4·0	7·56	2·40	+5·19	49·95	41·73	+8·22	2·77	Arrah.
...	...	...	...	...	...	...	...	...	...	...	11	+8·4	7·24	2·11	+5·13	46·13	39·51	+6·62	2·45	Dehri.

* Mean of 28 days.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...
	XII.—Central Provinces.																								
22	Chhindwara	73·4	69·2	83·0	...	67·7	...	75·4	...	15·3	87·5	15th & 17th.	62·9	9th	23	3	2	1	0	0	1	1	0	N 14° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	77·3	72·6	88·1	...	72·0	...	80·3	...	16·1	94·9	13th	62·8	22nd	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	80·4	76·9	88·7	...	75·2	...	81·9	...	13·5	96·7	8th	72·5	30th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	72·6	64·0	89·0	...	68·5	...	78·8	...	20·5	96·1	2nd	57·9	29th	0	16	10	1	2	0	1	1	0	N 21° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	52·8	42·1	73·7	...	34·5	...	54·1	...	39·2	89·7	3rd	20·4	31st	0	8	6	4	2	3	0	2	6	N 14° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	75·4	70·2	84·8	−1·6	68·2	+0·8	76·5	−0·4	16·6	89·9	1st	65·0	23rd & 31st.	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	64·4	64·1	70·2	−0·6	60·0	+0·5	65·1	−0·1	10·2	73·8	6th	57·9	20th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	69·7	+4·1	46·3	+4·7	58·0	+4·4	23·4	82·3	2nd	33·0	29th	7	0	0	1	4	10	9	0	0	S 9° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	76·8	−0·2	36·9	−0·3	56·8	−0·3	39·9	87·9	2nd	24·0	29th	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in October, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	3	+2·5	2·49	0·56	+1·93	44·14	28·66	+15·46	1·07	Meerut.
...	...	...	...	...	...	...	...	...	...	...	6	+4·8	3·71	0·89	+2·82	92·12	77·77	+14·35	1·73	Debra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	3	+2·8	1·00	0·14	+0·86	30·95	22·71	+8·24	0·60	Udaipur.
																				XII.—Central Provinces.
1·3	...	...	13	...	80	...	·644	...	3·8	...	8	...	6·28	...	...	58·25	...	...	2·84	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	5	+1·6	3·97	2·32	+1·65	41·88	30·36	+11·52	1·65	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	5	−2·9	3·75	6·65	−2·90	11·51	10·96	+0·55	2·54	Tinnevelly.
...	...	...	...	...	81	...	·749	...	7·1	...	11	+5·0	5·99	4·11	+1·88	28·87	18·02	+10·85	1·09	Anantapur.
...	...	...	...	...	85	...	·875	...	3·9	...	14	+6·8	15·21	5·45	+9·76	41·60	27·83	+13·77	3·50	Guntur.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	13	−2·7	16·46	11·16	+5·30	95·55	69·73	+25·82	3·10	Car Nicobar.
																				Kashmir.
...	...	...	71	...	61	...	·513	...	1·8	...	1	+0·7	0·13	0·14	−0·01	51·85	31·88	+19·97	0·13	Jammu.
...	...	...	...	...	...	...	...	...	...	...	6	+1·4	1·47	1·76	−0·29	16·46	22·80	−6·34	0·40	Sonamarg.
...	...	...	39	...	33*	...	·148*	...	1·0	...	0	−0·5	0	0·15	−0·15	1·63	3·07	−1·44	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	2	+1·9	0·50	0·04	+0·36	11·24	6·57	+4·67	0·25	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	76	+ 8	·670	+·025	...	...	11	+6·2	16·05	5·14	+10·91	154·79	130·40	+24·39	4·47	Panighatta.
...	...	...	...	...	99	+20	·596	+·119	...	...	10	+4·7	9·69	5·69	+4·00	176·16	144·57	+31·59	2·88	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	2	...	1·44	...	...	47·65	...	...	0·64	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Rinjgim.
...	...	...	...	...	...	...	...	...	...	...	7	+5·8	6·57	0·84	+ 5·73	125·06	83·68	+41·38	2·17	Mussooree.
...	...	...	61	...	...	...	...	...	1·9	+0·4	1	+0·2	0·12	0·39	− 0·27	3·18	3·51	− 0·33	0·10	Poo.
...	...	...	...	...	...	...	...	...	...	...	0	−1·2	0·17	0·52	− 0·35	4·28†	9·03	− 4·75	0·09	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	0·3	...	0	−0·2	0	0·07	−0·07	1·20	0·50	+0·70	0	Pishin.

† Rainfall since 1st June 1916.
* Mean of 27 days.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature during month.	Date.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi	43·8	42·3	61·2	...	38·6	...	49·9	...	22·6	66·0	3rd & 4th	25·0	31st	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kerman	...	...	78·5	...	35·4	...	57·0	...	43·1	89·2	1st	22·2	27th	...	...	...	...	...	...	...	...	...	...	...
	Prison Island	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

and fifth class stations in India, etc., in October, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	90	...	·262	...	2·8	...	2	...	0·85	...	...	21·33	...	...	0·40	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	5	+0·2	1·43	2·80	−1·37	21·93*	33·05	−11·12	0·70	Pemba.
...	...	...	...	...	...	...	...	...	0·3	...	0	...	0	...	...	0†	...	...	0	Kerman.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·29	...	...	26·07	...	...	Prison Island.

* Rainfall for July wanting.
† ,, since 15th August 1916.

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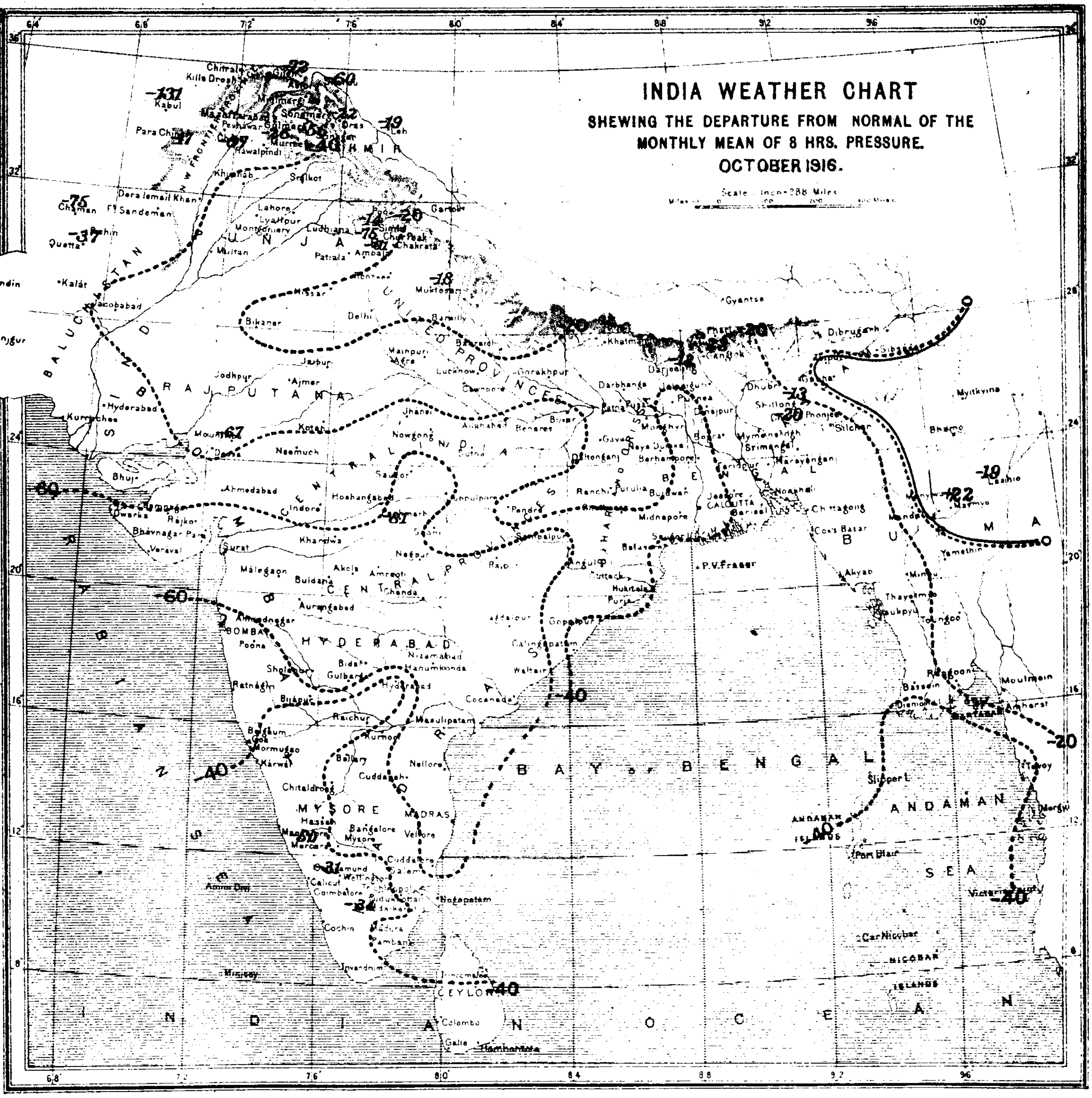
8, HASTINGS STREET

The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one	feather	added	to	the	wind	arrow.
,, ,,	2 to 5	,, ,, ,,	...	two	feathers	,,	,,	,,	,,	
,, ,,	5 to 10	,, ,, ,,	...	three	,,	,,	,,	,,	,,	
,, ,,	10 to 20	,, ,, ,,	...	four	,,	,,	,,	,,	,,	
	over 20	,, ,, ,,	..	five	,,	,,	,,	,,	,,	

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020" or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

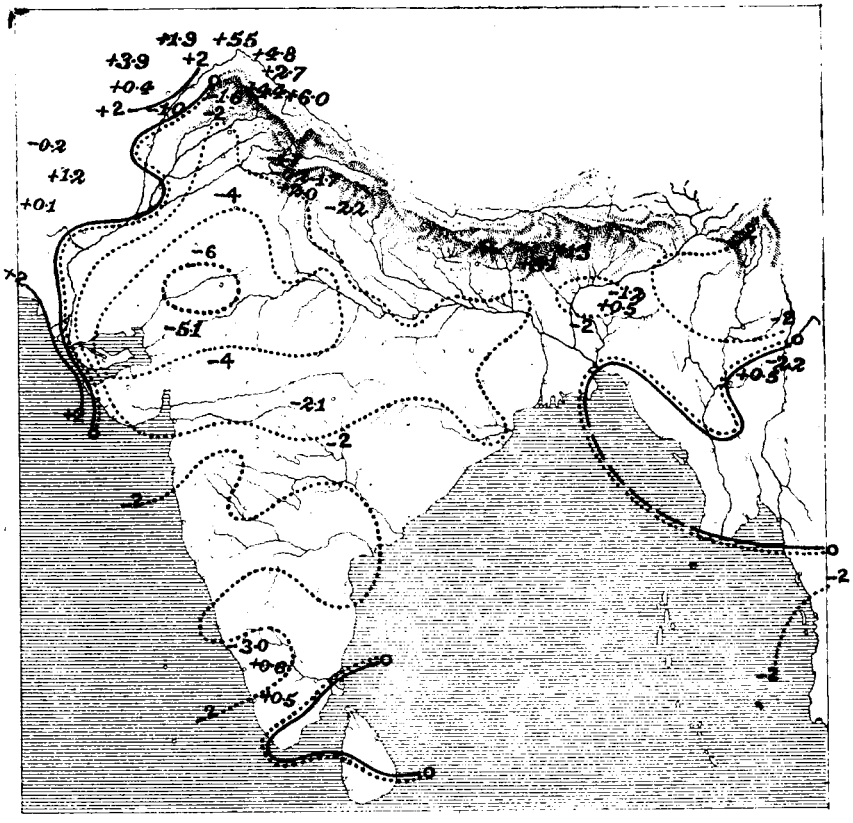


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

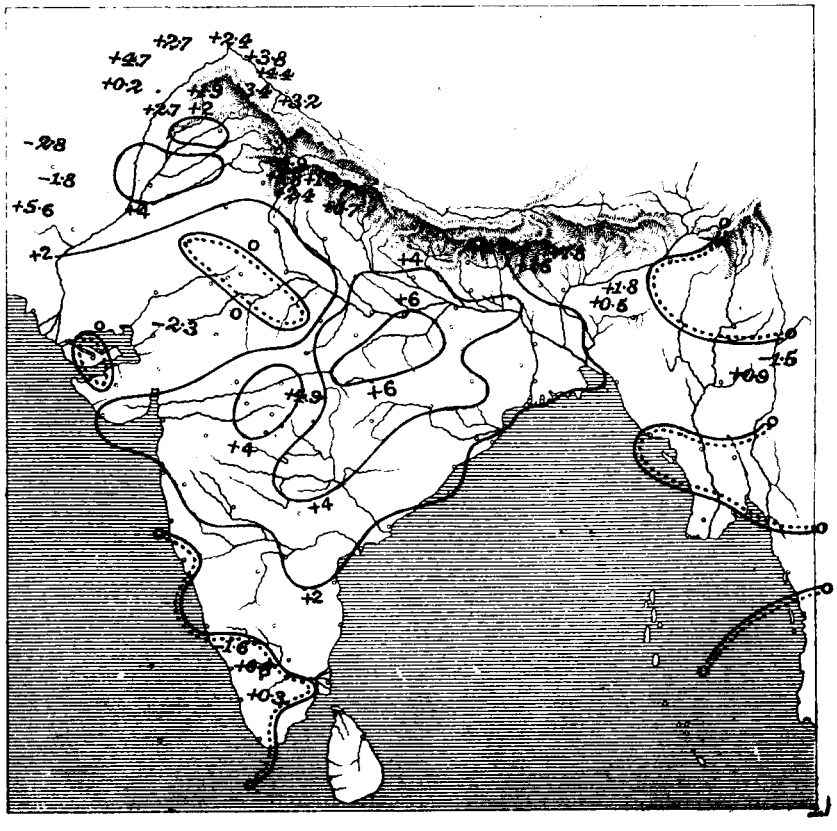


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

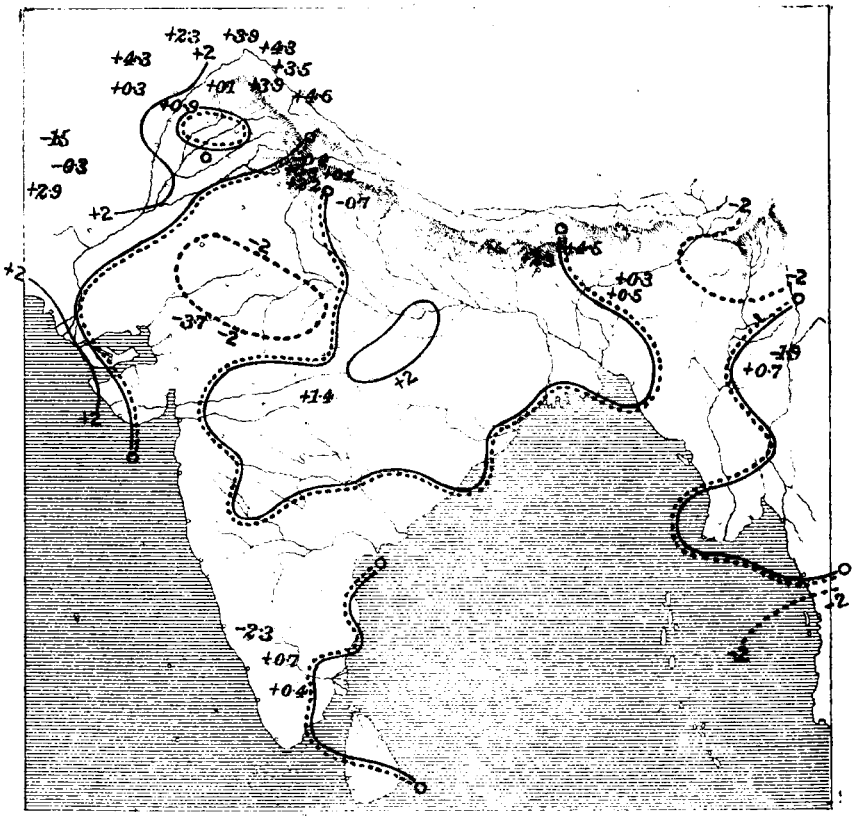


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

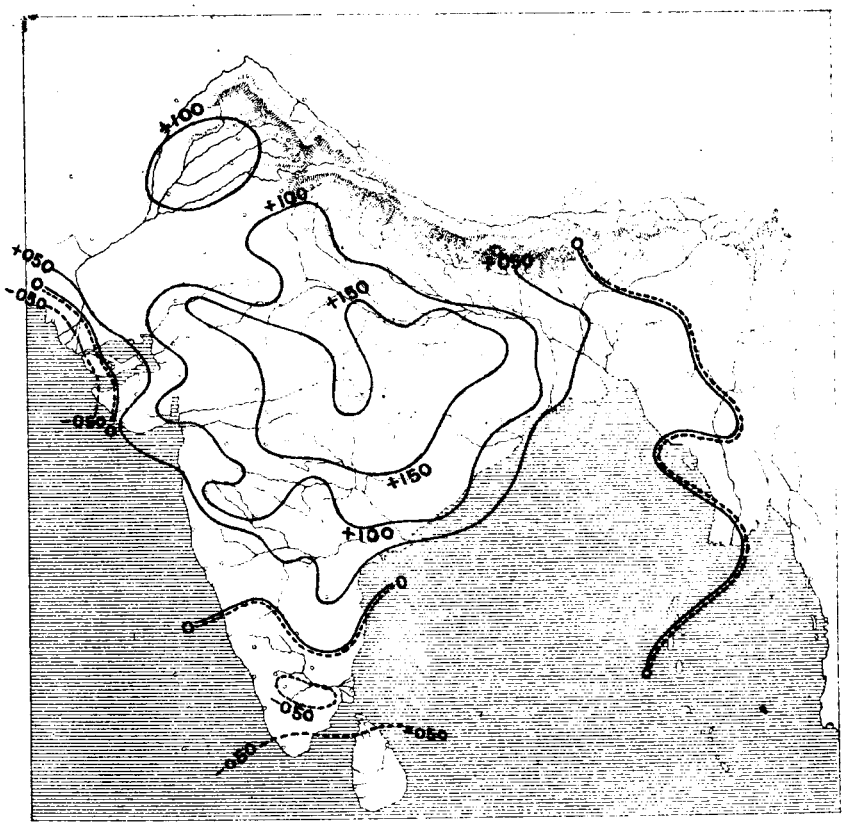
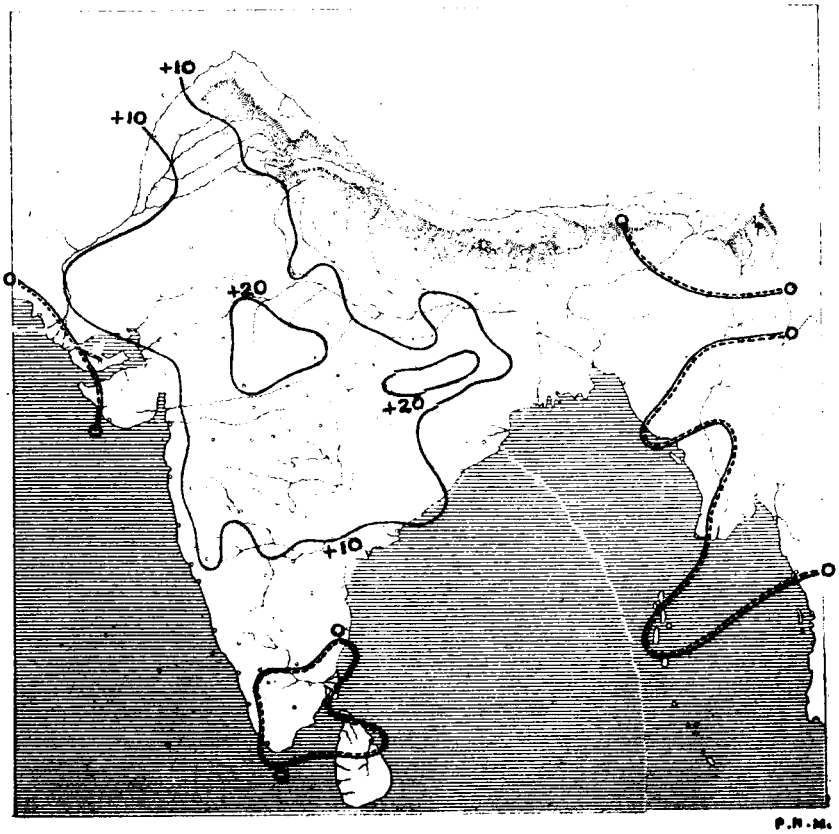


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.



P.N.M.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

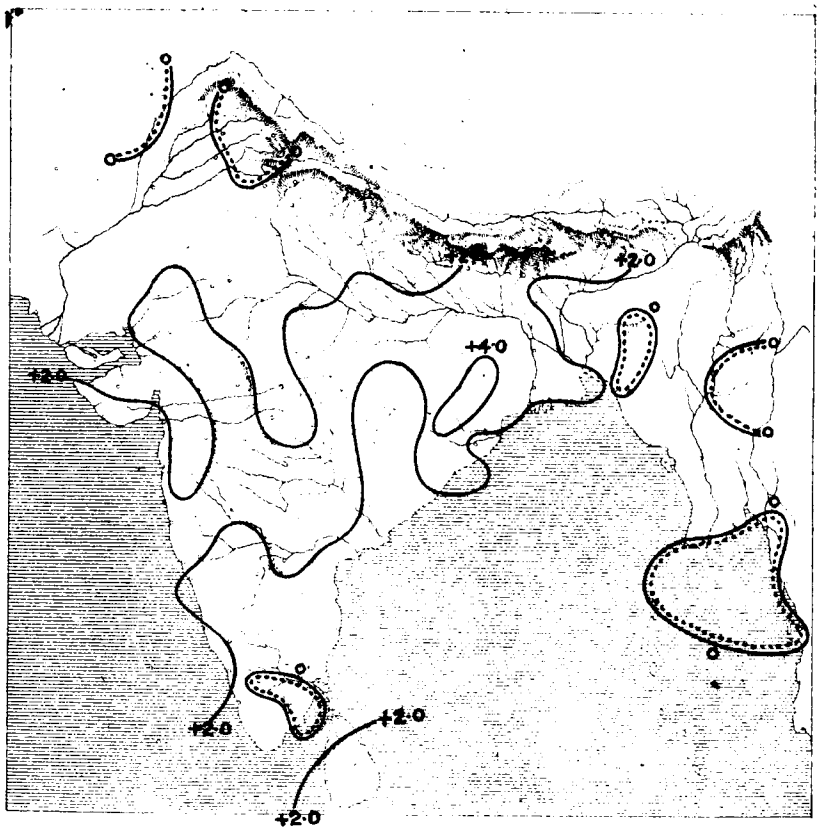
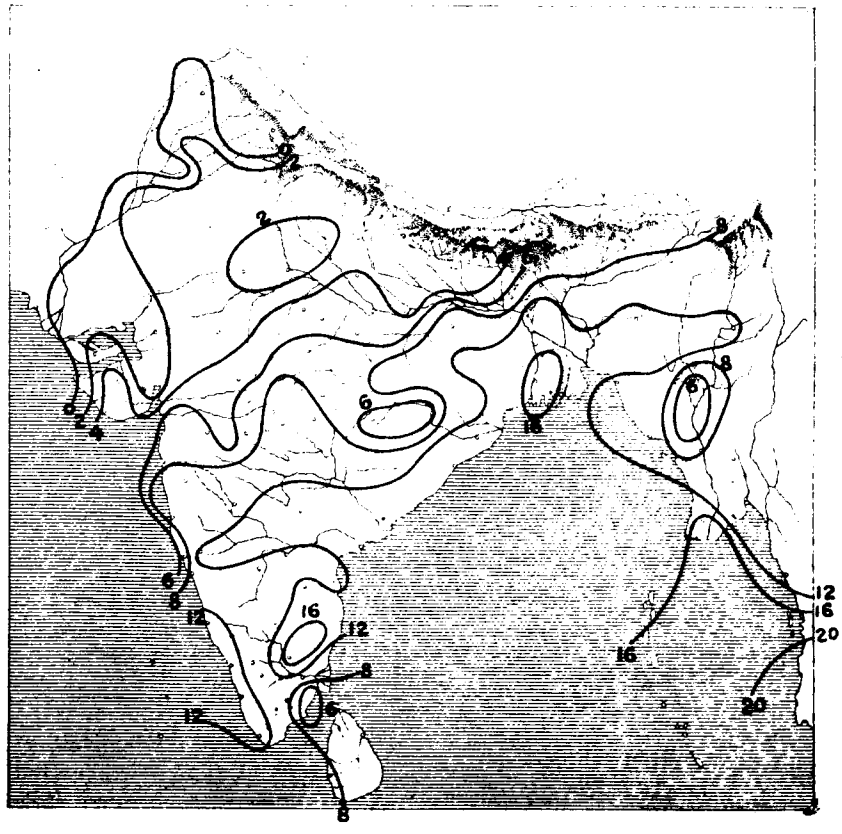
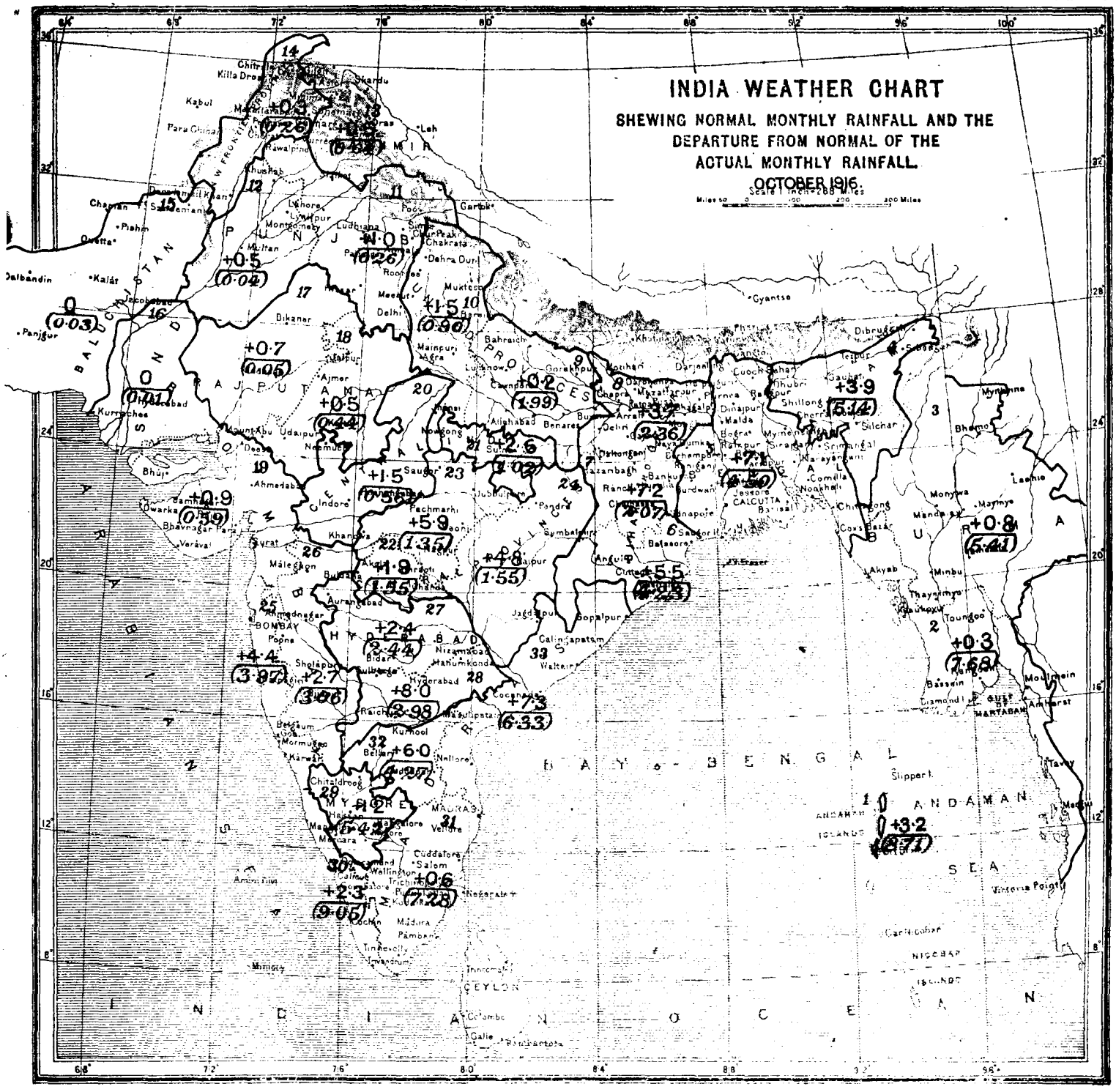


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)




INDIA WEATHER CHART
SHEWING NORMAL MONTHLY RAINFALL AND THE DEPARTURE FROM NORMAL OF THE ACTUAL MONTHLY RAINFALL.
OCTOBER 1916.
Scale 1 Inch=288 Miles
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
CEYLON
BALUCHISTAN
SIND
RAJPUTANA
CENTRAL PROVINCES
BOMBAY
HYDERABAD
MYSORE
MADRAS
ANDAMAN ISLANDS
NICOBAR ISLANDS
CALCUTTA
BURMA
ASSAM
BENGAL
ORISSA
BIHAR
UNITED PROVINCES
PUNJAB
NORTHWEST FRONTIER PROVINCE
KASHMIR
Kabul
Leh
Gyantse
Lahore
Delhi
Bikaner
Ajmer
Udaipur
Ahmedabad
Indore
Surat
Poona
Bombay
Hyderabad
Bangalore
Madras
Calcutta
Rangoon
Colombo
Galle
Trincomalee
Jaffna
Mandalay
Maymyo
Lashio
Bhamo
Myitkyina
Akyab
Moulmein
Tavoy
Mergui
Port Blair
Diamond I.
Victoria Point
Car Nicobar
Amini Div.
Minicoy
Mahabaleshwar
Ootacamund
Coonoor
Kodaikanal
Cuddalore
Salem
Vellore
Nellore
Kurnool
Bellary
Chitaldroog
Mercara
Belgaum
Karwar
Mormugao
Sholapur
Bidar
Nizamabad
Manmad
Jubbulpore
Pachmarhi
Saugor
Nagpur
Chanda
Raipur
Sambalpur
Bhopalpur
Jagdalpur
Calingapatam
Waltair
Cocanada
Masulipatam
Ranchi
Hazaribagh
Dibrugarh
Silchar
Shillong
Cherrapunji
Chittagong
Cox's Bazar
Kyaukpyu
Thayetmyo
Toungoo
Bassein
Amherst
Martaban
Sibsagar
Jorhat
Tezpur
Goalpara
Cooch Behar
Dinajpur
Rangpur
Bogra
Pabna
Jessore
Barisal
Comilla
Noakhali
Balasore
Cuttack
Puri
Gopalpur
Chaman
Quetta
Pishin
Kalat
Jacobabad
Kurrachee
Panjgur
Dalbandin
Bhuj
Dwarka
Veraval
Bhavnagar
Mount Abu
Deesa
Nasirabad
Mhow
Ratnagiri
Kolaba
Nasik
Dhulia
Akola
Amraoti
Nagpur
Bhopal
Jhansi
Agra
Mathura
Meerut
Dehra Dun
Roorkee
Simla
Chakrata
Garhwal
Pooh
Muktesar
Bareilly
Lucknow
Cawnpore
Allahabad
Benares
Gorakhpur
Bahraich
Fyzabad
Darjeeling
Kalimpong
Gangtok
Pusa
Dacca
Myitkyina
Bhamo
Lashio
Mandalay
Maymyo
Akyab
Minbu
Thayetmyo
Toungoo
Bassein
Moulmein
Amherst
Tavoy
Mergui
Port Blair
Diamond I.
Victoria Point
Car Nicobar

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW.

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, NOVEMBER, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of November, 1916, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary the data furnished by the meteorological observatories and the rainfall statements of the month published by the Provincial Governments have been utilized.

The brief notes on solar, magnetic and seismic disturbances have been supplied by the chief observatories.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon was abnormally active and produced unusually heavy rain for the time of year over practically the whole country outside of north-west India, where weather was drier even than usual. In Lower Burma, Bengal, Orissa, Chota Nagpur, Central India, Berar, the Central Provinces, the Konkan, the Bombay Deccan, Hyderabad and Mysore the recorded amounts were two to six times the normal; and the excess was large, between 30 and 81 per cent., also in Upper Burma, Assam, the United Provinces East, Malabar, the Madras Deccan and the Madras Coast North.

Of the other climatic elements cloud was markedly in excess in Burma, Assam, Bihar and Orissa, the Central Provinces, Central India, Bombay and Hyderabad, and was in defect in north-west India. The relative humidity exceeded the normal appreciably over the greater part of the Peninsula as well as in Central India and the Central Provinces. Temperature was lower than usual in north-west India on most days; the defect for the month amounted to as much as 7° in Baluchistan and 4° in Rajputana.

Barometric pressure in the plains averaged ·024″ below normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun could not be examined for spots and faculæ on two days and prominences could not be photographed on three days during the month.

Sunspots.—Twenty-two new groups of spots were observed as against twenty-four in October. The daily average number was 4·8 and the average life of a spot was 6·7 days, the averages for the preceding month being 3·6 and 5·3

respectively. The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North . . .	8	6	3	15°·9	4° & 27°
South . . .	1	5	4	18°·7	9° & 25°

Prominences.—Ninety-nine large, four eruptive and three metallic prominences were recorded during the month. The highest recorded was 180″ in height and was observed on the 14th at latitude —15° west.

Magnetic disturbances.—A "great" disturbance was recorded from the 12th to 13th and "moderate" disturbances were recorded from the 3rd to 7th and from the 25th to 30th.

J. EVERSHED, *Director,*

Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2343$ m. *Subsoil Rock.*

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN :				
AE :	9·76	17·8	1	2·5
AZ :				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Nov. 4th	e P	2 36 54	...	...	...	...	...	
	e L	2 40 00	...	...	...	...	...	
	M	2 43 00	...	...	40	...	...	
	F	2 50 12	...	...	...	...	...	
„ 11th	e P	14 16 30	...	...	...	...	...	
	e L	14 20 00	...	...	...	...	...	
	M	14 23 36	...	...	80	...	...	
	F	14 36 54	...	...	...	...	...	
„ 11th	e P	16 03 42	...	...	...	...	...	
	e L	16 07 18	...	...	...	...	...	
Nov. 11th	M	16 11 54	...	...	70	...	...	
	F	16 24 06	...	...	...	...	...	
„ 13th	e P	12 44 54	...	...	...	...	...	Widening of line.
	F	12 55 36	...	...	...	...	...	
„ 14th	e P	22 51 12	...	...	...	...	...	
	e L	22 59 24	...	...	...	...	...	
	M	23 00 54	...	...	80	...	...	
	F	23 16 30	...	...	...	...	...	
„ 18th	e P	12 40 30	...	...	...	...	...	Widening of line.
	F	12 56 36	...	...	...	...	...	
„ 21st	e P	7 53 12	...	...	...	...	...	
	e L	8 04 42	...	...	...	...	...	
	M	8 18 48	...	...	50	...	...	
	F	8 26 24	...	...	...	...	...	
„ 22nd	e P	20 03 18	...	...	...	...	...	
	e L	20 06 54	...	...	...	...	...	
	M	20 09 12	...	...	40	...	...	
	F	20 20 48	...	...	...	...	...	
„ 24th	e P	4 47 36	...	...	...	...	...	Widening of line.
	F	4 49 42	...	...	...	...	...	
„ 24th	e P	12 57 30	...	...	...	...	...	Widening of line.
	F	13 08 36	...	...	...	...	...	
„ 30th	e P	4 40 18	...	...	...	...	...	Widening of line.
	F	5 09 30	...	...	...	...	...	

S. SITARAMAYYA,

Offg. Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of November 1916, the traces showed 6 calm days, and 24 days of small disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 1st, 11th, 17th, 23rd and 24th.

The following table represents the magnetic character of each day during the month.

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	C	9	S	17	C	25	S
2	S	10	S	18	S	26	S
3	S	11	C	19	S	27	S
4	S	12	S	20	S	28	S
5	S	13	S	21	C	29	S
6	S	14	S	22	S	30	S
7	S	15	S	23	C		
8	S	16	S	24	C		

C = calm; S = small; M = moderate; G = great; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows :—

Easterly declination	0° 35′ 14″
Horizontal force	0·36864 C. G. S. unit.
Vertical force	0·16828 C. G. S. unit.
Inclination	24° 32′·2.
Horizontal force range	0·00047 C. G. S. unit.
Horizontal force summed range	0·00285 C. G. S. unit.
Declination range	1′·2.
Declination summed range	7′·2.

(NOTE.—Summed range means sum without regard to sign of the twenty-four ordinates of diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$m. *Subsoil Trap.*

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9	21		
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Nov. 3rd	...	10 5	...	...	...	...	...	Thickening of line.
	P	22 30 50	...	...	...	...	...	
	M	22 38 45	...	...	44	...	...	
	F	22 42 26	...	...	...	...	...	
Nov. 8th	...	6 8	...	...	...	...	...	Thickening of line.
		6 25	...	...	...	...	...	"
" 11th	P	14 18 43	...	...	...	...	...	
	M	14 27 28	...	...	56	...	...	
	F	14 34 47	...	...	...	...	...	
	P	16 9 29	...	...	...	...	...	
	M	16 14 32	...	...	33	...	...	
	F	16 18 34	...	...	...	...	...	
" 13th	...	12 48 to 54	...	...	...	...	...	Thickening of line.
" 14th	P	22 45 49	...	...	...	...	...	
	M	22 50 43	...	...	22	...	...	
	F	23 10 43	...	...	...	...	...	
" 18th	...	12 46 to 54	...	...	...	...	...	Thickening of line.
" 21st	...	7 14	...	...	...	...	...	"
	P	7 32 56	...	...	...	...	...	
	M	8 17 20	...	...	33	...	...	
	F	8 31 14	...	...	...	...	...	
" 24th	P	4 34 25	...	...	...	...	...	
	M	4 42 47	...	...	22	...	...	
	F	4 54 53	...	...	...	...	...	

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·32″.

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5. CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32'$ N; $\lambda = 88° 20'$ E; $h = 6·4$m. *Subsoil Alluvial.*

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	20	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
		h. m. s.						
1916. Nov. 14th	P	22 37 54	6	...	...	...	...	
	S	22 50 54	8	...	...	...	...	
	F	23 13 36	...	...	...	...	...	
25th	P	21 51 30	...	...	...	...	...	
	S	21 52 36	...	...	...	...	...	
	F	22 7 24	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

The Simla seismograph notes will appear in a future number of this Review.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.
		h. m.	sec.		
Kabul (Afghanistan) . .	Nov. 2nd	7 24	20	4	3
Drosh	„ 13th	6 50	3	6	1
Ditto	„ 14th	13 00	3	6	1
Shillong	„ 25th	22 30	1	5	1
Kabul (Afghanistan) . .	„ 30th	6 37	60	5	Several.
Drosh	„ 30th	7 00	45	8	6

Solar radiation.—Observations not recorded owing to absence of officers on war service.

GILBERT T. WALKER,

Director-General of Observatories, Simla.

Weather in the Indian Ocean.

7. Pressure was normal at Seychelles and in slight defect at Zanzibar and Mauritius. Winds were rather strong but nearly normal in direction at Seychelles, and were weak and unusually easterly at Zanzibar. Rainfall was below the average.

TABLE 7.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·009	—·018	+·002
Actual mean wind direction . .	E	S 66° E	S 50° E
Normal mean wind direction . .	S 83° E	S 45° E	S 56° E
Actual mean wind velocity (miles per diem).	126	60	104
Normal mean wind velocity (miles per diem).	234	82	93
Rainfall departure from normal . .	—0·44	—5·69	—6·39.

Depressions and cyclonic storms.

8. Three cyclonic storms appeared over the Bay of Bengal in the course of the month. The first of these became visible on the 1st about midway between the Orissa and Arakan coasts, passed inland between Akyab and Cox's Bazar and broke up some time during the 2nd in the Arakan and Lushai hills. No vessels were involved in it and it is therefore not possible to form an estimate of its intensity. It gave rise to very heavy rain in Arakan and moderate to heavy rain in Upper Burma : 18·33″ were measured at Akyab, where 4″ altogether are expected in the whole of November.

The second apparently arose over the Andaman Sea on the 6th. It began travelling north-westwards on the 7th and the centre appears to have passed close to Diamond Island at about 18 hrs. causing there a north-east gale and a rapid fall of the barometer. By the morning of the 8th it had reached a position in about Lat. 17½° N and Long. 92° E ; no appreciable change in its line of advance occurred up till the early morning of the 10th when after crossing the coast near and to the west of Saugor Island it began to turn north. At 8 hrs. the centre was close to Midnapore where the barometer stood 29·4″ or ·5″ below the normal height. No accurate estimate of the strength of the winds at Midnapore is available, the anemometer having been blown away by the storm, but according to the observer they are said to have at times been of almost hurricane violence. It travelled almost due north-east during the day and on the morning of the 11th was near Serajganj. Its barometric depth had diminished to about a tenth of an inch and it disappeared completely during the succeeding 24 hours.

The available marine information does not throw any light on the character of the storm, but the observations recorded at Diamond Island and at Midnapore and the adjoining observatories show that it was a severe disturbance of an unusually small extent, its inner area probably not exceeding 20 miles in diameter. It is reported to have caused the loss of a cutter belonging to the Telegraph Department.

The third storm was developed on the 19th to the west of Port Blair and thence travelled along a westerly path to the Coromandel coast which it crossed to the south of Madras, probably near Pondicherry at about 23 hrs. on the 22nd, causing much loss of life and damage to property. It was central near Bangalore at 8 hrs. of the 23rd and by the morning of the 24th had passed out into the Arabian Sea in the neighbourhood of Goa. According to the scanty information available it was in about Lat. 17° N and Long. 70° E at 8 hrs. of the 26th, but it was breaking up fast and disappeared completely during the day. It was probably very severe when crossing the coast, for at Madras, about 80 miles to the north of the central area, the recorded reading of the barometer at 23 hrs. was nearly two-fifths of an inch below the normal height.

The hourly observations of pressure and air movement recorded at the Madras observatory on the night of the 22nd are given below :—

	22ND.						23RD.							
	19	20	21	22	23	24	1	2	3	4	5	6	7	8
Barometer reduced to 32° F., sea level and to constant gravity at 45° Lat.	29·61	29·59	29·57	29·57	29·56	29·57	29·55	29·55	29·57	29·59	29·62	29·66	29·69	29·71
Direction of wind	N by E	E by N	N E	N E by E	E	E	S E by E	S E	S E by S	S E by S	S S E	S by E	S by E	S by E
Velocity of wind during the hourly interval	27	28	26	26	15	31	35	28	26	20	20	15	18	16

The storm weakened rapidly during its passage inland and had only a barometric depth of a fifth of an inch when passing out into the Arabian Sea. There is no direct evidence of the existence of a central calm area, but the rapid decrease in the strength of the wind at Madras between 22 and 23 hrs. when the storm was crossing inland would make it probable that there was a calm centre. The almost entire absence of any change in the barometric pressure for an interval of five or six hours at Madras would suggest that the storm was an unusually concentrated disturbance in the midst of an extensive trough of uniform low pressure. The main force of the storm was exerted over the tract between Madras and Cuddalore. At Madras serious damage was done by the sea to the outer break-water, part of which was washed away together with the lighthouse at the end of it. At Pondicherry, according to newspaper accounts, about 300 lives were lost and damage to property amounted to about Rs. 10 lakhs. In the south Arcot district the total number of deaths due to the storm was estimated at 978. The South Indian "Boat Mail" was overturned.

Pressure.

9. In November, as in October, the pressure was below the normal over practically the whole Indian area. The deficiency was moderate to large in the Peninsula, Burma and north-east and central India, where rainfall was abundant, and was very small in north-west India in which area the weather was abnormally dry.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	—·021
Assam	—·027
Bengal	—·025
Bihar and Orissa	—·022
United Provinces	—·004
Punjab	—·006
North-West Frontier Province	—·010
Sind	+·010
Rajputana	—·011
Bombay	—·042
Central India	—·023
Central Provinces	—·040
Hyderabad	—·047
Mysore	—·039
Madras	—·036

The vertical pressure gradient was appreciably steeper than usual over north-west and central India, and rather weak in north-east India and the south of the Peninsula.

TABLE 9.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure differences. B—A.
	"		"	"
Quetta	—·005	Jacobabad	+·012	+·017
Leh	—·067	Lahore	—·009	+·058
Murree	—·028	Peshawar	—·010	+·018
Simla	—·021	Ludhiana	0	+·021
Darjiling	—·010	Dhubri	—·026	—·016
Mount Abu	—·052	Deesa	—·015	+·037
Pachmarhi	—·057	Khandwa	—·043	+·014
Kodaikanal	—·032	Madura	—·042	—·010

Temperature.

10. Maximum temperature was between 2½° and 6° below the average in the United Provinces, the Punjab, the North-West Frontier Province, Baluchistan, Sind, Rajputana, Central India, the Central Provinces West, the Konkan, the Bombay Deccan, Hyderabad and the Madras Deccan, and was practically normal elsewhere. Minimum temperature was lower than usual by nearly 9° in Baluchistan, 4° in Sind and Rajputana East and 3° in the Punjab and Rajputana West; it was above the average by about 5° in Berar and Hyderabad North, 4° in Orissa, the Central Provinces East, the Bombay Deccan, Hyderabad South and the Madras Deccan, and 3° in Assam and Chota Nagpur. Mean temperature of the month was appreciably below normal in north-west India excluding Kashmir and Gujarat, and was about the average over the rest of the country. The low temperature conditions in north-west India persisted through a large part of the month, being on the whole most marked on the last three days.

TABLE 10.

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	84·3	77·1	80·7	7·3	—1·7	—0·2	—1·5
2. Lower Burma	84·7	70·5	77·6	14·1	—1·7	—2·0	+0·3
3. Upper Burma	83·2	64·8	74·0	18·4	—0·4	+0·9	—1·3
4. Assam	82·2	63·7	73·0	18·5	+0·1	+2·5	—2·4
5. Bengal	82·5	66·0	74·2	16·5	—0·5	+2·1	—2·6
6. Orissa	83·3	67·3	75·3	16·0	—1·1	+3·7	—4·3
7. Chota Nagpur	79·9	60·3	70·1	19·7	—1·7	+3·3	—5·0
8. Bihar	81·1	61·2	71·1	19·9	—1·6	+1·2	—2·8
9. United Provinces, East	80·5	55·1	67·8	25·4	—2·7	—0·9	—1·8
10. Do. do., West	79·9	51·2	65·5	28·7	—3·4	—2·4	—1·0
11. Punjab, East and North	79·1	47·2	63·2	32·0	—2·9	—3·3	+0·4
12. Do., South-west	81·1	48·3	64·7	32·8	—3·1	—3·2	+0·1
13. Kashmir	55·9	29·5	42·7	26·5	—1·8	—1·7	—0·1
14. North-West Frontier Province	77·3	44·9	61·1	32·3	—2·7	—2·2	—0·5
15. Baluchistan	67·5	34·8	51·2	32·7	—6·2	—8·7	+2·5
16. Sind	84·6	55·2	69·9	29·4	—2·5	—3·9	+1·4
17. Rajputana, West	83·7	53·8	68·7	29·9	—5·6	—2·7	—2·9
18. Do., East	81·8	51·9	66·8	29·9	—4·6	—4·2	—0·4
19. Gujarat	88·4	60·9	74·7	27·6	—1·8	—1·8	0
20. Central India, West	81·1	53·5	67·3	27·5	—3·3	—1·1	—2·2
21. Do., East	77·9	52·5	65·2	25·3	—4·0	—1·1	—2·9
22. Berar	83·6	64·0	73·8	19·6	—2·0	+4·8	—6·8
23. Central Provinces, West	80·9	58·0	69·4	22·8	—2·7	+1·8	—4·5
24. Do., East	81·7	62·3	72·0	19·4	—1·3	+4·2	—5·5
25. Konkan	85·0	73·3	79·1	11·7	—3·0	+1·7	—4·7
26. Bombay Deccan	82·6	63·7	73·1	18·9	—3·4	+4·2	—7·6
27. Hyderabad, North	82·7	64·6	73·7	18·0	—3·0	+4·5	—7·5

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
28. Hyderabad, South	82·9	67·9	75·4	14·9	—3·2	+3·9	—7·1
29. Mysore	79·3	63·7	71·6	15·6	—2·1	+1·2	—3·3
30. Malabar	85·4	73·5	79·4	11·9	—1·0	—0·1	—0·9
31. Madras, South-east	86·9	72·6	79·8	14·3	+1·1	+1·0	+0·1
32. Do. Deccan	85·6	70·3	77·9	15·3	—2·5	+3·9	—6·4
33. Do. Coast, North	83·6	72·3	77·9	11·4	—0·8	+2·2	—3·0

TABLE 11.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—1·0	—0·5	—0·8
Assam	+0·1	+2·5	+1·3
Bengal	—0·5	+2·1	+0·8
Bihar and Orissa	—1·5	+2·5	+0·5
United Provinces	—3·0	—1·6	—2·3
Punjab	—3·0	—3·3	—3·1
North-West Frontier Province	—2·7	—2·2	—2·5

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	—2·5	—3·9	—3·2
Rajputana	—4·8	—3·8	—4·3
Bombay	—2·6	+1·0	—0·8
Central India	—3·6	—1·1	—2·3
Central Provinces	—2·1	+3·1	+0·5
Hyderabad	—3·1	+4·2	+0·5
Mysore	—2·1	+1·2	—0·4
Madras	—0·2	+1·4	+0·6

Winds.

11. (*a*) The air movement was lighter than usual in the United Provinces, the North-West Frontier Province, Sind, Rajputana and Bombay, and was in excess of the normal in Burma, the Punjab, Mysore and Madras.

(*b*) The degree of steadiness was low in Burma, Assam, Bengal, Bombay, Central India, Mysore and Madras, and was high in the United Provinces, the Punjab, the North-West Frontier Province, Sind, the Central Provinces and Hyderabad.

(*c*) The deflections from the normal of the direction of wind were as a rule irregular and of little significance.

TABLE 12.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·3	—8
Assam	+0·1	—9
Bengal	+0·1	—5
Bihar and Orissa	0	0
United Provinces	—0·3	+5
Punjab	+0·8	+3
North-West Frontier Province	—0·5	+8
Sind	—0·9	+7
Rajputana	—0·9	—2
Bombay	—0·7	—6
Central India	—0·2	—7
Central Provinces	+0·1	+16
Hyderabad	—0·2	+15
Mysore	+0·7	—35
Madras	+0·4	—8

Humidity and cloud.

12. The air was unusually damp, both absolutely and relatively, over the Konkan, the Bombay Deccan, Hyderabad, the Madras Deccan, the north Madras coast, Berar, the east of the Central Provinces, and the adjacent districts of Chota Nagpur and Orissa, and was much drier than usual in deltaic Sind and Cutch. Elsewhere in the plains conditions were sensibly normal. In the hills relative humidity was markedly low at Cherat, Simla, Chakrata and Mukteswar, and high at Pachmarhi.

Skies were clouded to much more than the customary extent in the area of high humidity as well as in Central India, the coast districts of Orissa and the greater part of Burma, and were unusually clear generally in north-west India, the Bay Islands and parts of central Burma.

TABLE 13.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma . .	86	+ 1	·694	—·017	4·7	+0·7
Assam . .	91	+ 1	·627	+·041	4·3	+0·6
Bengal . .	84	+ 1	·649	+·025	2·0	+0·1
Bihar and Orissa .	79	+ 4	·559	+·055	2·5	+1·2
United Provinces .	69	— 1	·389	—·029	0·8	0
Punjab . .	63	+ 1	·266	—·043	0·8	—0·4
North-West Frontier Province.	63	— 3	·237	—·050	1·3	—0·7
Sind . . .	54	— 4	·300	—·107	0·2	—1·1
Rajputana . .	49	— 1	·259	—·048	0·2	—0·9
Bombay . .	67	+ 8	·538	+·056	2·5	+0·9
Central India .	67	+ 7	·370	+·004	1·8	+0·7
Central Provinces .	72	+11	·507	+·100	3·3	+1·7
Hyderabad . .	78	+16	·630	+·133	4·1	+1·3
Mysore . .	83	+ 8	·593	+·037	5·4	+0·4
Madras . .	83	+ 5	·769	+·054	4·7	+0·3

Rainfall.

13. Rainfall was either altogether wanting or lighter even than usual in north-west India as well as in Bihar, was up to the average in Madras South-east, and was unusually abundant in almost all other parts of India. The excess amounted to about 4″ in the Konkan, the Bombay Deccan and Mysore, 3″ in Hyderabad South, 2½″ in Lower Burma and about 2″ in Orissa and the Madras Coast North.

Rainfall over the Indian plains as a whole exceeded the normal by 0·96″ or 93 per cent.

In Persia, where ordinarily winter rains set in early in the month, weather was unusually dry.

TABLE 14.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	7·5	9·3	6·49	7·75	—1·26	— 16
2. Lower Burma	4·6	3·4	5·00	2·50	+2·50	+100
3. Upper Burma	3·8	3·0	3·07	1·98	+1·09	+ 55
4. Assam	2·4	1·5	1·20	0·91	+0·29	+ 32
5. Bengal	1·7	0·8	1·91	0·67	+1·24	+185
6. Orissa	2·7	1·0	2·61	0·81	+1·80	+222
7. Chota Nagpur	0·9	0·4	0·67	0·20	+0·47	+235

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
8. Bihar	0·2	0·3	0·10	0·18	—0·08	— 44
9. United Provinces, East	0·8	0·3	0·29	0·16	+0·13	+ 81
10. Do., West	0·3	0·2	0·14	0·11	+0·03	+ 27
11. Punjab, East and North	0	0·2	0	0·10	—0·10	—100
12. Punjab, South-west	0	0·2	0	0·09	—0·09	—100
13. Kashmir	0·5	0·6	0·13	0·28	—0·15	— 54
14. North-West Frontier Province	0	0·5	0·01	0·32	—0·31	— 97
15. Baluchistan	0	0·6	0	0·22	—0·22	—100
16. Sind	0	0·1	0	0·07	—0·07	—100
17. Rajputana, West	0	0·1	0	0·07	—0·07	—100
18. Do., East	0·3	0·2	0·11	0·11	0	0
19. Gujarat	0·1	0·3	0·06	0·18	—0·12	— 67
20. Central India, West	1·8	0·3	0·78	0·18	+0·60	+333
21. Do., East	1·5	0·4	0·95	0·28	+0·67	+239
22. Berar	2·8	0·8	1·45	0·52	+0·93	+179
23. Central Provinces, West	2·0	0·6	1·37	0·41	+0·96	+234
24. Do., East	2·1	0·6	1·07	0·44	+0·63	+143
25. Konkan	4·4	1·3	4·85	0·78	+4·07	+522
26. Bombay Deccan	5·9	1·3	4·65	0·76	+3·89	+512
27. Hyderabad, North	5·2	1·2	2·28	0·77	+1·51	+196
28. Do., South	5·3	1·7	4·06	0·94	+3·12	+332
29. Mysore	7·4	3·3	6·13	2·12	+4·01	+189
30. Malabar	6·8	5·2	5·16	3·87	+1·29	+ 33
31. Madras, South-east	8·0	7·6	6·33	6·42	—0·09	— 1
32. Do., Deccan	5·7	3·0	3·40	1·92	+1·48	+ 77
33. Do. Coast, North	6·3	3·2	5·32	3·22	+2·10	+ 65

TABLE 15.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	3·83	2·18	+1·65	+ 76
Assam	1·20	0·91	+0·29	+ 32
Bengal	1·91	0·67	+1·24	+185
Bihar and Orissa	0·90	0·34	+0·56	+165
United Provinces	0·21	0·13	+0·08	+ 62
Punjab	0	0·09	—0·09	—100
North-West Frontier Province	0·01	0·32	—0·31	— 97

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0	0·07	—0·07	—100
Rajputana	0·08	0·09	—0·01	—11
Bombay	3·20	0·58	+2·62	+452
Central India	0·87	0·23	+0·64	+278
Central Provinces	1·28	0·45	+0·83	+184
Hyderabad	3·13	0·85	+2·28	+268
Mysore	6·13	2·12	+4·01	+189
Madras	5·57	4·70	+0·87	+ 19
Mean of India	1·99	1·03	+0·96	+ 93

Snowfall.

I.—AFGHANISTAN.

14. On the 8th snow to a depth of about a foot fell on the Paghman, Hazarajat and Shakardara ranges, and there was a sprinkling in Kabul itself. Light snowfall is also reported to have occurred on the Khak Jabbar and adjoining range on the 22nd. At the end of the month the unmelted residue on the Paghman, Shakardara and Khak Jabbar ranges was only an inch in depth.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—No snow fell.

(*b*) *Kurram.*—Snow fell on three days on the higher peaks of the Sufed Koh.

(*c*) *Drosh.*—There were two slight falls on the higher ranges.

III.—KASHMIR.

(*a*) *Srinagar.*—No snow fell.

(*b*) *Skardu.*—Slight falls occurred on the 8th, 9th, 23rd and 25th on the summits of the neighbouring mountains.

(*c*) *Dras.*—Snowstorms occurred on the 9th, 10th, 24th, 25th and 26th; the total fall measured about five inches depth.

(*d*) *Kargil.*—Snow fell all around the station on the 10th and on some of the higher mountains on the 5th, 8th, 11th, 24th and 25th. The total fall of the month varied between 2″ and 7″. At the end of the month the unmelted residue of the accumulations did not exceed 4″ in depth on any of the ranges.

IV.—PUNJAB.

No information is forthcoming.

V.—UNITED PROVINCES.

Almora.—The total fall of the month was estimated at 6″ in Malla Danpur and Malla Darma and at 3″ in Chaudas. The lowest descent from the perpetual snows was to a distance of 1½ miles.

TABLE 16.

Name of pass or peak.	Depth of accumulation at the end of the month.			
	Reported.		Normal.	
	′	″	′	″
Nuwe Pass	10	0	25	5
Binkaru ,, ...	2	0	13	4
Pindari Peak	0	6	2	2
Kaphini Pass	0	6	2	3
Puwalidwar	0	6	...	

VI.—NORTH-EAST FRONTIER TRACT.

There was but little snowfall.

SUMMARY.

15. There was much less snowfall than usual except on the ranges near Kabul. The accumulations existing at the end of the month on the ranges in the North-West Frontier Province, Kashmir and Almora were decidedly below the average.

HEMRAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in November, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta	21	29·980	29·876	·113	29·929	—·035	29·896	81·7	66·7	15·0	86·8	60·7	26·1	77·5	79·5	73·6	+1·2	65·2	69·3	70·0	68·2
	VI.—Punjab.																					
11	Lahore	762	29·327	29·235	·092	29·273	—·013	29·965	79·1	45·9	33·2	85·2	37·3	47·9	66·7	77·8	60·5	—2·7	43·9	55·4	61·0	53·4
	IX.—Rajputana.																					
18	Jaipur	1,431	28·613	28·511	·102	28·553	—·009	29·947	82·5	50·2	32·3	87·5	37·9	49·6	75·3	80·5	64·7	—4·2	45·3	56·2	58·0	53·2
	X.—Bombay.																					
25	Bombay	37	29·923	29·821	·102	29·868	—·045	29·845	86·5	75·6	10·9	88·5	72·4	15·1	81·0	83·9	80·2	+0·9	71·5	74·9	76·3	74·2
	XIV.—Mysore.																					
29	Bangalore	3,021	26·975	26·876	·099	26·924	—·023	29·795	79·0	62·6	16·4	82·3	57·9	24·4	72·6	75·4	69·8	+0·2	62·1	66·7	67·8	65·4
	XV.—Madras.																					
31	Pudukkottai	318	29·640	29·510	·130	29·575		29·823	87·5	72·3	15·2	93·6	69·7	23·9	81·6	83·5	79·9			73·6	73·8	
	Madras	22	29·931	29·830	·101	29·883	—·043	29·836	85·5	73·7	11·8	92·8	65·8	24·0	81·8	81·7	78·8	+0·9	72·5	76·8	76·3	75·2
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain		23·188	23·115	·073	23·141		25·103	57·9	32·2	25·7	63·3	29·1	34·2	46·3	47·3	44·5			38·6	40·3	
	Katmandu	4,388	25·787	25·683	·104	25·732	+·034	25·686	73·1	45·1	28·0	77·5	39·5	38·0	58·2	68·4	58·6	+0·8	43·2	53·5	57·4	51·4
	Kodaikanal	7,688	22·835	22·773	·062	22·804		22·739	63·3	49·2	14·1	67·2	44·2	23·0	60·0	57·6	56·2		45·9	54·9	54·8	51·9
	Extra India.																					
	Seychelles	15	29·974	29·888	·086	29·944	+·002	29·882	82·2	76·3	5·9	84·1	74·3	9·8	80·5	81·4	77·9	+0·3†	71·3	75·4	75·9	74·2
	Mauritius	181				29·816	—·009	29·944	81·9	66·6	15·3	84·9	57·0	27·9			73·8	—1·2				67·8

N.B.—Elevations in Italics indicate barometric determinations.

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

† Departure from old normals.

A.

at 12 stations in India, etc., in November, 1916.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·609	·611	·608	·624	+·016	92	65	60	75	+ 1	2·0	2·7	2·3	—0·2	2	15	8	2	2	2	0	2	27	N 18° W	N 12° W	64	58	65	44	1·07	0·76	Calcutta.	5
																															VI.—Punjab.	
·262	·291	·313	·285	—·031	84	45	33	58	+ 1	0·8	0·6	0·7	−0·8	37	7	0	1	2	0	1	5	7	N 41° W	N 42° W	22	18	14	23	0·02	0·02	Lahore.	11
																															IX.—Rajputana.	
·247	·220	·207	·226	—·071	68	25	19	42	− 5	0·2	1·3	0·7	—0·8	10	10	10	6	4	2	2	7	9	N 4° E	N 24° W	28	35	40	47	0	0	Jaipur.	18
																															X.—Bombay.	
·718	·782	·802	·792	+·076	81	74	69	79	+ 6	2·6	2·7	2·7	+1·0	0	1	9	17	3	1	1	9	19	N 8° E	N 18° E	28	51	123	168	0·72	0·72	Bombay.	25
																															XIV.—Mysore.	
·550	·587	·576	·584	+·045	97	74	66	82	+ 7	7·0	6·9	6·9		2	2	14	20	7	2	6	6	1	N 88° E	N 60° E	40	64	139	88	9·93	4·51	Bangalore.	29
																															XV.—Madras.	
	·717	·701				67	62			6·2	6·9	6·5		8	4	25	11	2	2	5	2	1	N 57° E		47		88		3·92	0·85	Pudukkottai.	31
·784	·852	·833	·843	+·047	95	79	78	87	+ 3	5·7	5·8	5·7	−0·2	1	14	16	10	7	6	3	1	2	N 58° E	N 27° E	43	62	139	114	14·10	3·53	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
	·155	·183				50	56			0·8	1·1	1·0																	0	0	Sarain.	
·259	·354	·348	·320	—·016	87	73	50	74	− 1	1·6	2·1	1·9	—0·7	0	0	1	14	0	0	0	45	0	N 89° W	N 81° W	50	42	18	10	0·14	0·08	Katmandu.	
·279	·380	·403	·354		79	74	85	79		5·3	8·9	7·1		1	7	12	9	14	3	1	2	10	N 63° E		33		183		6·48	1·72	Kodaikanal.	
																															Extra India.	
·699	·809	·824	·802	−·034	77	78	77	80	− 3	5·1	6·1	5·6	−1·3†	9	1	3	8	30	5	1	2	1	S 50° E	S 56° E	60	14	104	93	4·02	1·30	Seychelles.	
			·585	—·012				70	+ 1			5·4	+0·5										E	S 83° E			126		1·33	0·55	Mauritius.	

† Departure from old normals.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in November, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	—·021	84·1	—1·0	68·2	—0·5	76·1	—0·8	15·9	+0·2	—8	86	+ 1	·694	—·017	4·7	+0·7	3·83	2·18	+1·65
Assam	—·027	82·2	+0·1	63·7	+2·5	73·0	+1·3	18·5	+0·1	— 9	91	+ 1	·627	+·041	4·3	+0·6	1·20	0·91	+0·29
Bengal	—·025	82·5	—0·5	66·0	+2·1	74·2	+0·8	16·5	+0·1	—5	84	+ 1	·649	+·025	2·0	+0·1	1·91	0·67	+1·24
Bihar and Orissa	—·022	81·5	—1·5	62·8	+2·5	72·1	+0·5	18·7	0	0	79	+ 4	·559	+·055	2·5	+1·2	0·90	0·34	+0·56
United Provinces of Agra and Oudh	—·004	80·2	—3·0	53·3	—1·6	66·7	—2·3	26·9	—0·3	+5	69	— 1	·389	—·023	0·8	0	0·21	0·13	+0·08
Punjab	—·006	79·8	—3·0	47·5	—3·3	63·7	—3·1	32·3	+0·8	+3	63	+ 1	·266	—·043	0·8	—0·4	0	0·09	—0·09
North-West Frontier Province	—·010	77·3	—2·7	44·9	—2·2	61·1	—2·5	32·3	—0·5	+8	63	— 3	·237	—·050	1·3	—0·7	0·01	0·32	—0·31
Sind	+·010	84·6	—2·5	55·2	—3·9	69·9	—3·2	29·4	—0·9	+7	54	— 4	·300	—·107	0·2	—1·1	0	0·07	—0·07
Rajputana	—·011	82·6	—4·8	52·7	—3·8	67·6	—4·3	29·9	—0·9	—2	49	— 1	·259	—·048	0·2	—0·9	0·08	0·09	—0·01
Bombay	—·042	85·9	—2·6	64·4	+1·0	75·1	—0·8	21·5	—0·7	—6	67	+ 8	·538	+·056	2·5	+0·9	3·20	0·58	+2·62
Central India	—·023	79·5	—3·6	53·0	—1·1	66·3	—2·3	26·5	—0·2	—7	67	+ 7	·370	+·004	1·8	+0·7	0·87	0·23	+0·64
Central Provinces	—·040	81·7	—2·1	60·7	+3·1	71·2	+0·5	21·0	+0·1	+16	72	+11	·507	+·190	3·3	+1·7	1·28	0·45	+0·83
Hyderabad	—·047	82·8	—3·1	66·5	+4·2	74·7	+0·5	16·3	—0·2	+15	78	+16	·630	+·133	4·1	+1·8	3·13	0·85	+2·28
Mysore	—·039	79·3	—2·1	63·7	+1·2	71·6	—0·4	15·6	+0·7	—3	83	+ 8	·593	+·037	5·4	+0·4	6·13	2·12	+4·01
Madras	—·036	85·6	—0·2	72·4	+1·4	79·0	+0·6	13·2	+0·4	—8	83	+ 5	·769	+·054	4·7	+0·3	5·57	4·70	+0·87

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·795		29·873	29·853	18th	29·734	26th	77·2	71·9	83·3		73·2		78·3		10·1	88·4	25th	70·2	6th
	Mergui	66	29·892	—·018	29·888	29·967	14th	29·765	6th	75·5	71·8	82·7	—4·6	69·2	—1·2	75·9	—2·9	13·5	85·[illegible]	26th	59·9	18th
	Tavoy	19	29·943	—·029	29·895	30·030	14th	29·799	6th	75·0	70·7	85·1	—2·7	70·4	+0·8?	77·7	—0·9?	14·7	89·0	28th	62·8	22nd
	Moulmein	94	29·902	0	29·935	30·003	14th	29·721	6th	74·8	70·9	86·6	—1·9	69·4	—2·2	78·0	—2·1	17·2	89·0	11th	62·1	21st
	Rangoon	18	29·967	—·007	29·923	30·071	14th	29·807	6th	74·8	71·1	85·2	—2·2	70·[illegible]	—2·1	77·9	—2·1	14·7	89·1	11th	65·0	22nd
	Bassein	27	29·952	—·015	29·916	30·045	14th	29·819	2nd	75·5	72·5	86·2	+0·2	70·6	—1·2	78·4	—0·5	15·6	89·2	30th	62·9	23rd
	Diamond Island	44	29·912	—·026	29·888	30·006	14th	29·788	7th	79·1	71·1	84·3	—1·1	75·0	—0·7	79·7	—0·9	9·3	89·9	9th	71·2	23rd
	Toungoo	161	29·823	—·009	29·932	29·926	14th	29·669	6th	73·0	70·5	85·9	—1·0	65·3	—4·5	75·6	—2·7	20·6	89·7	12th	57·8	20th
	Kyaukpyu	18	29·941		29·859	30·047	14th	29·739	1st	76·6	73·1	83·4		72·2		77·8		11·2	88·1	10th	63·9	25th
	Akyab	20	29·916	—·028	29·907	30·071	14th	29·691	1st	73·5	71·7	83·8	—1·0	69·2	—1·8	76·6	—1·4	14·5	88·9	1st	61·6	25th
	Minbu	*165*	29·521	—·037	29·933	29·933	14th	29·565	2nd	72·2	69·9	83·7	—3·6	68·5	0	76·1	—1·8	15·2	88·3	11th	59·0	26th
	Yamethin	644	29·337	—·020	29·945	29·457	15th	29·160	2nd	71·3	68·8	85·4	—1·7	67·1	—0·1	76·3	—0·9	18·3	90·5	1st	58·2	24th
	Mandalay	250	29·748	—·013	29·952	29·867	15th	29·472	2nd	73·0	69·4	88·8	+1·6	67·5	—0·2	78·2	+0·7	21·3	96·9	1st	59·0	23rd
	Monywa	*280*	29·718	—·032	29·953	29·837	15th	29·376	2nd	72·1	69·3	86·0	+0·7	68·0	+0·6	77·0	+0·7	18·0	93·0	1st	53·8	26th
	Lashio	*2,890*	27·195	—·033	27·141	27·315	15th & 21st.	27·020	2nd	61·4	60·2	76·3	—1·3	59·3	+4·3	67·8	+1·5	17·0	82·9	1st	51·0	26th & 27th.
	Bhamo	*361*	29·638	—·019	29·963	29·760	14th	29·377	2nd	65·9	64·9	82·1	+1·2	61·2	+1·3	71·6	+1·3	20·9	87·8	1st	52·1	23rd
	Myitkyina	458	29·533	—·032	29·966	29·964	15th	29·277	2nd	65·4	63·7	80·3	+0·1	62·0	+0·7	71·2	+0·4	18·3	84·6	12th	56·0	22nd & 23rd.
	II.—Assam.																					
4	Dibrugarh	353	29·662	—·033	29·989	29·811	14th	29·384	2nd	67·5	65·3	80·3	+1·1	62·6	+2·7	71·5	+1·9	17·7	84·0	9th	57·5	24th
	Sibsagar	333	29·694	—·037	29·998	29·829	14th	29·428	2nd	65·8	64·9	78·2	+0·3	59·2?	—0·5?	68·7?	—0·1?	19·0	82·3	4th	53·7	23rd
	Tezpur	252	29·780	—·015	30·000	29·921	15th	29·514	2nd	66·8	65·4	80·3	0	63·4	+2·6	71·9	+1·3	16·9	84·0	4th & 5th.	58·6	26th
	Gauhati	196	29·844	—·016	30·002	29·963	14th	29·562	2nd	68·9	67·4	80·5	—1·3	63·8	+3·3	72·2	+1·0	16·7	84·7	4th	58·1	25th
	Dhubri	115	29·895	—·026	29·967	30·035	14th	29·621	2nd	70·2	67·4	78·8	—1·3	65·8	+2·5	72·3	+0·6	13·0	82·1	4th	59·3	30th
	Silchar	104	29·896	—·032	29·955	30·047	14th	29·591	2nd	70·3	68·3	86·0	+1·1	65·7	+2·2	75·9	+1·7	20·5	91·4	9th	59·0	25rd
	Srimangal	66	29·868*		29·685*?	29·999	22nd	29·628	2nd	66·5	65·3	87·3	+0·9	60·3	+1·5	74·1	+1·2	26·5	91·7	2nd & 3rd.	51·6	24th
	III.—Bengal.																					
1	Cox's Bazar	36	29·9.8		29·909	30·039	14th	29·674	2nd	75·3	72·1	84·9		68·0		76·5		16·9	91·7	1st	59·2	24th
	Chittagong	37	29·888	—·030	29·923	30·020	14th	29·540	2nd	71·6	69·9	84·3	+1·3	67·3	+1·8	75·8	+1·5	17·0	91·4	1st	58·5	30th
	Noakhali	43	29·918	—·016	29·939	30·075	14th	29·670	2nd	73·5	70·3	84·1	+1·4	67·3	+3·8	75·7	+2·6	16·8	90·3	1st	59·2	25th
	Barisal	12	29·977	—·017	29·936	30·108	14th	29·706	2nd	73·8	70·2	82·3	—0·7	67·2	+2·2	74·7	+0·7	15·1	87·2	1st	60·1	20th
	Narayanganj	26	29·961	—·029	29·937	30·089	14th	29·679	2nd	72·2	68·7	84·1	+0·7	67·4	+1·5	75·8	+1·1	16·7	89·0	2nd	60·0	20th

N.B.—Elevations in italics indicate barometrical determinations.
*Mean of 3 days.

B.

stations in India, etc., in November, 1916.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															I.—Burma.
9	1	12	6	2	0	0	0	0	N 63° E		4·9			59		77		·717		5·4		7		4·03			130·36			1·90	Victoria Point.
25	2	3	0	0	0	0	0	0	N 27° E	N 29° E	1·5	1·2	+0·3	17	−35	83	+ 1	·734	−·039	1·7	−2·0	4	−2·0	3·54	3·46	+ 0·08	137·44	150·94	−13·50	2·48	Mergui.
16	4	5	2	1	1	0	0	1	N 41° E	N 29° E	1·9	0·9	+1·0	30	+22	80	− 3	·692	−·065	3·2	+1·3	3	−1·0	2·27	2·63	− 0·36	203·05	210·14	− 7·09	1·47	Tavoy.
0	1	6	18	5	0	0	0	0	N 86° E	N 4° E	5·6	1·8	+3·8	83	+64	82	− 2	·710	−·062	3·9	+0·8	5	+2·4	2·62	2·19	+ 0·43	168·65	184·02	−17·37	1·04	Moulmein.
2	7	12	6	2	1	0	0	0	N 51° E	N 68° E	3·5	2·8	+0·7	66	+ 6	82	− 4	·719	−·061	6·8	+3·2	5	+1·9	5·47	2·38	+ 3·09	103·63	95·16	+ 8·47	2·27	Rangoon.
15	0	5	6	2	2	0	0	0	N 89° E	N 56° E	3·5	2·6	+0·9	36	−23	85	− 2	·768	−·009	4·9	+1·7	4	−0·1	3·69	3·14	+ 0·55	118·79	107·58	+11·21	1·77	Bassein.
0	3	12	6	1	3	2	1	2	N 56° E	N 53° E	8·1	6·7	+1·4	46	−27	78	0	·777	−·030	2·9	−0·8	4	−1·2	6·16	4·71	+ 1·45	117·63	114·22	+ 2·81	4·30	Diamond Island.
2	10	9	2	3	2	0	0	2	N 34° E	N 12° W	1·9	1·2	+0·7	56	+ 4	83	− 1	·715	−·037	3·9	−0·7	7	+1·4	3·26	1·74	+ 1·52	73·99	79·34	− 5·35	1·81	Toungoo.
24	0	1	3	1	1	0	0	0	S 77° E		0·7			13		84		·768		6·1		5		12·40			173·86			6·46	Kyaukpyu.
5	6	11	5	2	1	0	0	0	N 51° E	N 26° E	2·7	1·7	+1·0	56	−28	91	+ 1	·754	+·008	5·6	+2·2	5	+1·5	35·20	3·98	+31·22	264·06	188·24	+75·82	13·23	Akyab.
4	2	0	0	1	2	0	1	19	N 45° W	N 48° W	1·9	5·2	−3·3	66	−10	88	+ 9	·701	+·035	3·9	+1·6	5	+1·6	4·09	1·81	+ 2·28	44·93	32·37	+12·56	2·36	Minbu.
22	1	0	0	2	1	0	1	2	S 23° W	N 18° W	0·7	2·2	−1·5	2	−46	88	+ 3	·686	−·001	2·8	−1·0	7	+4·4	3·58	1·57	+ 2·01	47·21	35·74	+11·47	1·01	Yamethin.
23	1	0	0	1	1	0	0	1	Calm	N 11° E	0·9	1·5	−0·6	a		83	− 2	·677	−·012	2·0	−1·4	4	+0·8	2·65	1·72	+ 0·93	29·18	31·20	− 2·04	1·07	Mandalay.
8	13	1	1	1	1	0	0	5	N 4° W		1·0			49		87	− 1	·688	−·007	5·1	+0·6	3	+0·3	2·68	2·41	+ 0·27	30·39	30·30	+ 0·09	1·36	Monywa.
17	5	5	2	0	0	2	0	1	N 10° E		1·7			27		93	0	·514	+·010	9·4	+2·7	4	−0·2	3·99	2·42	+ 1·57	43·67	58·30	−14·63	1·95	Lashio.
21	4	4	0	0	0	0	0	1	N 16° E	N 23° E	0·4	1·2	−0·8	23	−16	95	+ 4	·606	+·027	6·4	+2·4	4	+1·3	1·64	1·64	0	59·34	67·68	− 8·34	0·88	Bhamo.
29	0	1	0	0	0	0	0	0	N 45° E		1·0			3		91	+ 5	·570	−·013	5·2	+0·5	3	+0·6	2·56	1·25	+ 1·31	69·06	71·83	− 2·77	1·48	Myitkyina.
																															II.—Assam.
23	0	2	8	0	0	0	0	1	N 57° E		0·4			17		89	0	·596	+·057	3·2	−0·2	3	+0·6	0·67	1·31	− 0·64	88·48	86·28	+ 2·20	0·33	Dibrugarh.
17	5	8	0	2	2	0	0	1	N 33° E	N 60° E	1·0	1·1	−0·1	17	−10	95	− 2	·600	+·019	6·8	+1·1	3	+0·9	0·82	1·07	− 0·25	73·82	77·46	− 3·64	0·29	Sibsagar.
28	0	1	3	0	0	0	0	0	N 60° E		1·9			7		92	+ 3	·608	+·053	4·0	+1·4	1	−0·7	1·26	0·96	+ 0·30	56·65	59·41	− 2·76	1·26	Tezpur.
28	0	1	1	0	0	0	0	0	N 66° E		1·1			7		92	− 1	·650	+·055	6·4	+0·9	2	+1·0	0·69	0·31	+ 0·38	42·43	52·68	−10·25	0·35	Gauhati.
3	0	10	13	2	1	1	0	0	N 80° E	N 65° E	4·4	3·7	+0·7	69	− 8	86	− 1	·632	+·032	4·9	+3·3?	1	+0·5	0·13	0·26	− 0·13	82·43	86·80	− 4·37	0·13	Dhubri.
30	0	0	0	0	0	0	0	0	Calm	N 79° E	0·9	1·2	−0·3	a		90	+ 3	·694	+·060	3·8	0	2	+0·2	1·06	1·40	− 0·34	60·48	93·80	− 8·32	0·85	Silchar.
																93	+ 5	·619	+·008	0·9		2	+1·2	0·30	1·25	− 0·95	69·32	79·76	−10·44	0·20	Srimangal.
																															III.—Bengal.
9	6	5	9	1	0	0	0	0	N 56° E		1·5			53		85		·750		2·4		5		7·61			141·35			3·99	Cox's Bazar.
20	0	10	0	0	0	0	0	0	N 45° E	N 43° E	1·3	2·0	−0·7	33	−40	91	+ 3	·715	+·042	1·8	−1·2	3	+1·3	1·33	1·82	− 0·49	101·88	88·68	+13·20	0·73	Chittagong.
3	5	20	0	0	0	1	0	1	N 34° E		1·4			77		85	− 2	·702	+·031	1·9	+0·3	3	+1·4	1·63	1·85	− 0·22	109·99	109·98	+ 0·01	0·76	Noakhali.
9	9	7	4	0	0	0	1	0	N 31° E	N 18° E	0·9	1·2	−0·3	53	+28	83	− 1	·697	+·017	2·5	+0·7	2	+0·5	1·35	1·30	+ 0·55	78·18	71·59	+ 6·59	1·33	Barisal.
15	3	1	2	0	0	1	1	7	N 27° W	N 13° E	0·6	1·5	−0·9	30	−13	83	− 2	·661	+·009	2·2	−0·3	2	+0·9	0·59	0·96	− 0·37	70·98	61·10	+ 9·88	0·40	Narayanganj.

a Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Mymensingh	63	29·931	—·025	29·916	30·057	14th	29·652	2nd	71·5	68·9	82·8	+0·5	66·9	+2·3	74·9	+1·7	15·9	87·3	2nd	61·8	24th
	Bogra	75	29·924	—·025	29·952	30·052	14th	29·654	2nd	68·7	66·2	80·8	—1·7	61·0	+1·4	72·4	—0·1	16·8	84·6	10th	55·0	30th
	Dinajpur	123	29·883	—·023	29·965	30·025	14th	29·609	2nd	68·3	65·2	81·9	—0·6	62·7	+2·2	72·3	+0·8	19·2	85·3	3rd & 17th.	51·5	30th
	Jalpaiguri	283	29·717	—·034	29·968	29·873	14th	29·454	2nd	66·5	61·5	82·5	+0·8	62·5	+1·8	72·5	+1·3	20·0	85·5	16th	53·5	30th
	Saugor Island	10	29·986	—·024	29·941	30·137	14th	29·717	2nd	73·3	70·0	81·9	—0·1	66·8	—0·2?	74·3	—0·1?	15·1	87·4	1st	59·9	22nd
	Midnapore	149	29·825	—·050?	29·927	29·986	14th	29·303	10th	71·3	66·7	82·0	—2·8	65·3	+2·3	73·6	—0·3	16·7	89·0	3rd	58·7	22nd
	Calcutta	21	29·976	—·031	29·944	30·119	14th	29·707	2nd	70·8	67·5	81·9	—0·1	66·7	+2·4	74·3	+1·1	15·2	86·8	2nd	60·7	22nd
	Jessore	30	29·973	—·018	29·951	30·103	14th	29·707	2nd	73·1	68·3	81·7	—1·5	65·9	+2·2	73·8	+0·3	15·8	87·0	2nd	58·5	21st
	Burdwan	99	29·899	—·033	29·948	30·039	14th	29·618	2nd	70·2	66·5	81·8	—1·8	65·9	+1·7	73·8	—0·1	15·9	87·0	3rd	59·5	23rd
	Berhampore	67	29·938	—·025	29·956	30·075	14th	29·665	2nd	69·7	65·9	80·0	—2·2	65·7	+1·6	72·8	—0·3	14·3	84·6	3rd	59·7	22nd
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·961	—·022	29·957	30·115	14th	29·676	2nd	70·2	67·2	82·5	—1·5	65·9	+3·4	74·2	+0·9	16·6	87·6	3rd	60·7	22nd
	Hukitala (False Point)	29	29·962	—·035	29·932	30·101	14th	29·705	2nd													
	Cuttack	80	29·924	—·025	29·947	30·072	14th	29·658	2nd	71·9	67·9	83·0	—2·2	65·4	+2·5	75·7	+0·1	14·6	86·5	3rd	62·6	16th
	Puri	24	29·980	—·024	29·945	30·122	14th	29·716	2nd	74·2†	70·4†	84·7†	—0·1	71·2†	+2·6	78·0†	+1·3	13·5	88·9	13th	66·8	16th
	Angul	455	29·543	—·022	29·957	29·698	14th	29·270	2nd	71·0	67·9	82·4	—2·1	65·5	+5·8	74·0	+1·9	16·9	85·8	3rd & 12th.	57·0	16th
	Sambalpur	486	29·516	—·044	29·964	29·662	14th	29·252	2nd	71·5	67·8	84·0	+0·3	65·4	+4·0	74·7	+2·1	18·6	88·2	3rd	56·7	16th
7	Chaibasa	*733*	29·251	—·031	29·961	29·404	14th	28·982	2nd	67·6	64·4	81·7	—0·7	62·5	+3·7	72·1	+1·5	19·2	85·3	13th	55·7	15th
	Ranchi	2,128	27·858	—·012	29·973	28·010	14th	27·626	2nd	63·9	59·5	75·5	—2·5	53·6	+0·8?	67·1	—0·9?	16·3	79·5	2nd	52·1	23rd
	Purulia	*816*	29·186*	—·015	29·980*	29·348	14th	28·928	2nd	68·7	64·2	81·9	—1·9	62·5	+2·0	72·2	+0·1	19·4	96·1	2nd	54·2	23rd
	Daltonganj	*730*	29·272	—·038	29·987	29·425	14th	29·009	2nd	63·6	60·9	80·7	—2·5	57·6	+4·1	69·2	+0·8	23·1	86·1	2nd	48·1	22nd
8	Purnea	124	29·882	—·035	29·966	30·036	14th	29·604	2nd	65·4	63·4	80·7	—1·3	61·3	+2·3	71·0	+0·5	19·4	83·7	4th	50·2	30th
	Monghyr	155	29·848		29·960	30·006	14th	29·555	2nd	68·3	63·4	80·8		63·0		71·9		17·8	85·0	2nd	53·5	30th
	Darbhanga	165	29·858	—·014	29·982	30·009	14th	29·604	2nd	68·4	63·9	80·9	—0·8	60·4	—0·9	70·7	—0·9	20·5	85·9	2nd	49·2	29th
	Pusa	188	29·824		29·975	29·947	15th	29·566	2nd	65·3	62·5	82·1		59·2		70·7		22·9	87·4	2nd	49·9	30th
	Patna	183	29·848	—·011	29·992	30·005	14th	29·594	2nd	69·4	63·3	79·6	—2·3	62·2	+1·5	70·9	—0·4	17·4	84·5	2nd & 3rd	51·2	30th
	Buxar	239	29·785	—·010	29·991	29·960	14th	29·521	2nd	65·1	60·5	82·3	—1·9	59·4	—0·3	70·9	—1·1	22·9	87·8	1st	48·1	30th
	Gaya	372	29·664	—·002	30·001	29·821	14th	29·401	2nd	69·5	62·9	81·5	—1·9	62·8	+3·3	72·2	+0·7	18·7	86·3	2nd & 3rd	51·2	29th
	Naya Dumka	489	29·519	—·014	29·977	29·669	14th	29·250	2nd	68·7	64·2	80·7	—1·4	61·2	+1·3	70·9	—0·1	19·5	85·8	2nd	52·2	22nd
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·752	—·016	29·979	29·931	14th	29·494	2nd	65·1	60·2	80·6	—1·3	56·6	—1·2	68·6	—1·3	24·0	87·0	1st	46·3	28th
	Benares	267	29·764	—·006	29·997	29·933	14th	29·507	2nd	65·4	61·2	80·6	—2·2	55·5	0	68·1	—1·1	25·1	87·7	1st	44·7	30th
	Allahabad	309	29·732	+·003	30·011	29·874	14th	29·456	2nd	63·6	58·1	80·0	—3·5	54·7	—0·5	67·3	—2·0	25·3	87·7	1st	44·5	29th
	Cawnpore	416	29·622	+·009	30·018	29·774	14th	29·371	2nd	59·7	55·3	78·9	—4·3	53·4	—2·7	66·2	—3·5	25·5	87·2	1st	44·5	29th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 28 days.
† " " 26 "

B—*continued.*

stations in India, etc., in November 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															III.—Bengal—*concld.*
28	0	0	1	0	0	0	0	1	N 23° E	N 58° E	0·3	0·8	—0·5	2	—31	87	0	·676	+·036	2·2	—0·2	1	+ 0·1	4·69	0·73	+ 3·96	92·23	83·70	+ 8·53	4·57	Mymensingh.
11	9	4	1	0	0	0	0	5	N 1° E	N 27° E	1·3	1·0	+0·3	50	+12	87	+ 4	·614	+·018	1·9	+0·9	1	+ 0·5	3·09	0·65	+ 2·44	76·29	63·26	+13·03	3·08	Bogra.
9	6	6	2	0	1	0	5	1	N 3° E	N 21° E	1·1	1·6	—0·5	33	—22	84	+ 1	·587	+·017	1·2	—0·1	1	+ 0·6	0·24	0·12	+ 0·12	94·03	64·97	+29·06	0·20	Dinajpur.
29	1	0	0	0	0	0	0	0	N	N 20° E	1·0			3	—52	89	+ 5	·580	+·025	0·8	—0·3	0	— 0·4	0	0·10	— 0·10	153·00	116·66	+36·34	0	Jalpaiguri.
0	12	13	2	0	0	1	0	1	N 27° E	N 10° E	6·7	4·3	+2·4	79	+ 6	84	— 2	·694	+·013	3·4	+0·7	2	+ 0·6	3·35	1·37	+ 1·98	81·31	65·77	+15·54	3·16	Saugor Island.
12	5	9	0	0	0	0	0	4	N 12° E		1·6*			47		77	+ 8	·597	+·071	2·3	+0·6	4	+ 3·1	5·32	0·69	+ 4·63	67·51	52·87	+14·64	4·23	Midnapore.
1	11	6	0	1	0	1	0	10	N 8° W	N	2·8	1·8	+1·0	69	+24	84	+ 2	·632	+·020	2·3	+0·5	2	+ 1·1	1·07	0·56	+ 0·51	80·98	57·04	+23·94	0·76	Calcutta.
12	10	5	1	0	0	1	0	1	N 13° E	N 6° W	1·6	1·2	+0·4	43	+17	77	— 6	·634	+·004	1·2	—0·7	2	+ 0·9	0·54	1·12	— 0·58	56·97	58·47	— 1·50	0·43	Jessore.
14	4	1	0	0	0	0	1	10	N 32° W	N 5° W	1·3	1·2	+0·1	46	+ 6	81	+ 6	·601	+·049	2·9	+1·1	3	+ 2·1	8·68	0·66	+ 8·02	77·44	52·66	+24·78	4·21	Burdwan.
15	7	2	0	0	0	2	0	4	N 15° W	N 13° W	0·9	1·1	—0·2	33	+ 3	81	— 3	·560	—·004	1·4	—0·5	1	+ 0·4	2·41	0·52	+ 1·89	59·23	51·26	+7·97	2·41	Berhampore.
																															IV.—Bihar and Orissa.
10	10	3	0	0	1	0	0	6	N 8° W	N 21° W	1·0	1·5	—0·5	49	—18	85	+ 5	·629	+·066	3·1	+1·4	3	+ 1·8	4·64	0·94	+ 3·70	64·77	55·44	+ 9·33	2·35	Balasore.
1	19	1	0	0	0	1	1	7	N 15° W		6·1			82	+ 2					3·8	+0·4	4	+ 1·8	4·30	2·54	+ 1·76	73·31	58·89	+14·42	2·08	Hukitala (False Point).
25	0	2	2	0	0	0	1	0	N 59° E	N 45° W	1·0	1·2	—0·2	7	—10	80	+ 2	·633	+·055	3·4	+0·9	4	+ 2·3	3·42	1·28	+ 2·14	61·68	55·89	+ 5·79	1·26	Cuttack.
1	14	11	2	0	0	0	0	2	N 19° E		5·5			83		82†	+ 4	·693†	+·054	3·4	+1·4	4	+ 2·2	5·56	2·91	+ 2·65	51·81	50·72	+ 1·09	4·37	Puri.
10	0	1	0	3	1	0	3	12	N 56° W		2·3			37		84	+11	·648	+·144	4·1	+2·9	2	+ 1·6	1·43	0·13	+ 1·30	52·51	42·47	+10·04	0·96	Angul.
0	12	16	0	0	0	0	0	2	N 22° E	N 21° E	2·6	2·0	+0·6	89	+14	82	+ 8	·637	+·117	3·5	+1·7	2	+ 1·1	0·28	0·93	— 0·65	68·77	63·46	+ 5·31	0·12	Sambalpur.
21	0	2	3	0	0	4	0	0	S 49° E	S 77° W	1·5	0·7	+0·8	7	—26	83	+ 1	·567	+·068	4·0	+2·3	1	+ 0·1	1·07	0·52	+ 0·55	37·87	47·51	—9·64	1·03	Chaibassa.
6	7	2	2	2	0	0	4	7	N 19° W	N 63° W	2·4	2·7	—0·3	43	+25	76	+13	·459	+·060	3·2	+1·6	2	+ 1·4	0·22	0·22	0	49·88	51·73	— 1·85	0·12	Ranchi.
2	2	2	0	0	0	3	10	11	N 65° W		1·3			70		77	+ 7	·549	+·100	3·7	+2·5	2	+ 1·3	0·50	0·23	+ 0·27	50·04	47·15	+ 2·89	0·32	Purulia.
29	0	0	0	0	0	0	1	0	W		0·7			2		85	+ 6	·508	+·073	1·8	+0·7	0	— 0·4	0·04	0·21	— 0·17	50·52	38·68	+11·84	0·03	Daltonganj.
6	2	5	2	0	0	4	8	3	N 60° W	N 50° E	1·2	1·1	+0·1	27	+16	89	0	·565	+·018	2·3	+1·6	0	— 0·2	0	0·10	— 0·10	85·33	59·02	+26·31	0	Purnea
8	0	0	2	1	3	12	4	0	S 4° W		2·1			53		75		·527		1·5		0		0·04			40·41			0·04	Monghyr.
23	0	1	3	0	0	1	2	0	E	N 48° W	1·0	1·2	—0·2	3	— 7	77	— 6	·540	—·011	0·9	+0·3	0	—0·3	0	0·10	—0·10	50·56	48·09	+ 2·47	0	Darbhanga.
15	1	1	0	1	0	3	6	2	N 84° W		1·0			30		85		·536		0·8		0		0			55·36			0	Pusa.
22	0	1	1	0	0	0	5	1	N 71° W	S 60° W	1·3	1·3	0	13	—14	70	— 1	·509	+·009	1·5	+0·4	0	— 0·4	0	0·17	— 0·17	53·92	44·84	+ 9·08	0	Patna.
3	2	2	0	0	1	11	11	0	S 74° W		2·2			57		75	+ 8	·471	+·016	1·9	+0·8	0	— 0·4	0	0·41	— 0·41	44·66	39·05	+ 5·61	0	Buxar.
4	0	2	1	7	3	13	0	0	S 7° W	S 7° E	1·2	1·7	—0·5	53	+20	67	— 4	·493	+·026	1·1	—0·4	0	— 0·6	0·01	0·42	— 0·41	56·47	44·18	+12·29	0·01	Gaya.
0	8	3	0	0	0	0	1	18	N 27° W					86		77	+ 3	·544	+·035	1·1	0	1	+ 0·4	0·48	0·32	+ 0·16	71·29	52·34	+18·95	0·38	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
2	3	1	4	0	0	2	17	1	N 78° W	N 67° W	1·4	0·7	+0·7	46	+16	73	— 3	·462	—·035	0·5	—0·2	0	— 0·3	0	0·15	—0·15	58·12	48·50	+ 9·62	0	Gorakhpur.
14	0	0	1	1	0	9	4	1	S 56° W	S 53° W	1·2	1·4	—0·2	37	+15	77	+ 2	·489	+·027	1·5	+0·5	1	+ 0·4	0·24	0·30	— 0·06	41·68	37·73	+ 3·95	0·21	Benares.
13	0	1	0	0	0	0	14	2	N 82° W	N 82° W	0·8	1·7	—0·9	49	+24	70	+ 1	·417	—·020	1·9	+0·8	1	+ 0·5	0·51	0·31	+ 0·20	61·69	37·19	+24·50	0·48	Allahabad.
16	2	1	0	1	0	2	5	3	N 69° W	N 68° W	1·1	1·4	—0·3	23	+ 4	74	— 3	·382	—·013	0·4	—0·3	2	+1·7	2·20	0·29	+ 1·91	51·58	34·13	+17·45	1·36	Cawnpore.

* Mean of 28 days. † Mean of 26 days.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	368	29·659	−·002	30·003	29·809	14th	29·409	2nd	63·5	57·1	81·2	−2·6	54·0	+0·9?	67·6	−0·9?	27·2	88·9	1st	45·0	29th
	Bahraich	407	29·610	−·003	29·995	29·766	14th	29·361	2nd	64·4	58·9	81·4	−2·1	56·2	−0·3	68·8	−1·2	25·2	88·5	1st	50·5	30th
10	Jhansi	824	29·198	−·023	30·019	29·356	14th	28·850	2nd	61·6	54·5	81·4	−4·1	51·9	−7·5?	66·6	−5·9?	29·5	88·4	1st	45·0	30th
	Agra	556	29·480	+·003	30·022	29·647	14th	29·217	2nd	63·5	53·7	81·5	−3·2	53·2	−3·4	67·3	−3·3	28·3	88·4	1st	44·9	28th & 29th.
	Mainpuri	516	29·519	+·007	30·023	29·675	14th	29·272	2nd	58·6	52·7	80·3	−4·5	51·2	−3·0	65·7	−3·7	25·1	87·0	1st	42·1	29th
	Bareilly	568	29·437	−·009	29·996	29·571	14th	29·187	2nd	60·5	56·3	79·3	−2·3	51·7	−1·5	65·5	−1·9	27·6	84·8	1st	44·8	29th
	Roorkee	899	29·108	+·001	30·029	29·248	14th	28·872	2nd	55·1	52·1	76·9	−3·6	48·1	−1·7	62·5	−2·7	28·8	82·0	1st	41·0	28th & 30th.
	VI.—Punjab.																					
11	Delhi	718	29·302	+·001	30·025	29·447	14th	29·057	2nd	58·5	50·5	79·3	−3·6	53·9	−2·8	66·6	−3·2	25·4	84·8	1st	46·7	28th
	Hissar	725	29·301	+·002	30·040	29·455	14th	29·050	2nd	54·5	47·0	81·9	−3·2	47·4	−2·9	64·6	−3·1	34·5	89·6	10th	39·2	28th
	Patiala	*818*	29·181	−·015	30·020	29·315	14th	28·929	2nd	54·1	49·3	79·2	−2·9	48·1	−3·8	63·7	−3·3	31·1	85·2	1st	41·0	29th
	Ambala	892	29·106	−·039	30·028	29·244	14th	28·854	2nd	52·7	49·4	79·5	−3·0	46·3	−4·0	62·9	−3·5	33·2	82·7	4 days	38·3	30th
	Ludhiana	812	29·198	0	30·032	29·343	14th	28·952	2nd	54·4	48·6	79·1	−1·8	49·5	−2·1	64·3	−1·9	29·6	86·3	1st	42·4	27th
	Lahore	702	29·304	−·009	30·029	29·454	14th	29·040	2nd	51·3	48·0	79·5	−4·4	45·8	−2·4	62·7	−3·4	33·7	86·0	1st	37·3	30th
	Sialkot	830	29·179	−·003	30·040	29·322	14th	28·922	2nd	52·0	48·5	79·0	−2·4	44·9	−5·4	61·9	−3·9	34·1	85·9	1st	34·9	27th
	Rawalpindi	1,674	28·323	−·019	30·073	28·447	14th	28·071	2nd	49·7	43·9	75·7	−2·2	41·4	−2·9	58·6	−2·5	34·3	83·0	1st	32·4	30th
12	Khushab	612	29·425	+·004?	30·048	29·571	14th	29·158	2nd	57·1	47·6	80·2	−3·4	46·7	−4·6	63·4	−4·0	33·5	87·6	1st	33·1	28th & 30th.
	Lyallpur	605	29·409		30·024	29·564	14th	29·148	2nd	54·2	48·7	80·4		46·0		63·2		34·4	84·5	3rd	36·3	28th
	Montgomery	558	29·467	−·005	30·028	29·622	14th	29·206	2nd	58·2	50·5	81·2	−3·6	48·5	−3·5	64·9	−3·5	32·7	87·6	1st	39·5	28th & 29th.
	Multan	426	29·603	−·006	30·017	29·762	14th	29·331	2nd	58·4	51·2	84·6	−2·2	52·9	−1·5	67·3	−1·9	30·6	89·3	1st	43·9	27th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·931	−·010	30·033	29·049	14th	28·645	2nd	47·7	43·5	75·6	−1·7	42·9	−3·2	59·2	−2·5	32·7	81·6	1st	33·0	30th
	D. I. Khan	590	29·483	−·025?	30·034	29·570	14th	29·163	2nd	54·9	47·8	78·9	−2·7	47·9	−1·2	62·9	−2·5	31·9	84·9	1st	36·4	28th
	VIII.—Sind.																					
16	Jacobabad	186	29·868	+·012	30·028	30·030	14th	29·596	2nd	56·9	49·8	85·4	−2·4	47·7	−4·1	66·6	−3·3	37·7	94·5	17th	38·6	28th
	Hyderabad	96	29·955	+·013	30·008	30·121	14th	29·687	2nd	62·3	53·5	84·4	−4·7	55·4	−3·5	69·9	−4·1	29·0	92·5	2nd & 8th	43·9	29th
	Karachi	13	30·045	+·006	30·009	30·208	14th	29·769	2nd	67·2	57·0	84·0	−0·3	62·6	−4·1	73·3	−2·2	21·4	92·9	3rd	56·0	30th
	IX.—Rajputana.																					
17	Bikaner	*772*	29·251	−·002	30·025	29·410	14th	28·988	2nd	60·1	54·4	83·3	−2·1	51·8	−7·5?	67·6	−4·8?	31·5	89·6	4th & 9th	40·5	28th
	Jodhpur	780	29·240	−·012	30·013	29·408	14th	28·986	2nd	63·7	50·7	81·1	−5·6	55·8	−2·7	69·9	−4·1	28·3	89·5	5th & 9th	48·9	28th
18	Jaipur	1,431	28·595	−·009	30·042	28·757	14th	28·346	2nd	61·3	51·8	82·8	−3·7	50·2	−5·5	66·5	−4·6	33·6	87·5	10th	38·9	28th
	Ajmer	1,611	28·408	−·020	30·065?	28·579	14th	28·161	2nd	52·7	47·6	79·3	−5·1	48·9	−3·5	64·1	−4·3	30·4	86·2	10th	37·2	28th
	Kotah	832	29·193	−·012	30·013	29·318	14th	28·940	2nd	65·4	56·1	83·3	−4·9	56·6	−3·6	69·9	−4·3	26·7	89·6	10th	49·3	28th

N. B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in November, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															V.—United Provinces of Agra and Oudh—*concld.*
28	0	0	0	0	0	1	1	0	S 66° W	N72° W	1·0	1·0	0	7	− 6	66	− 6	·385	−·028	0·9	0	1	+0·7	0·21	0·10	+0·11	42·67	35·71	+6·96	0·15	Lucknow.
15	1	1	4	0	0	2	4	3	N 49° W	N 2° W	0·8	1·3	−0·5	10	− 3	70	− 7	·431	−·049	0·3	−0·2	0	−0·5	0	0·21	−0·21	40·41	41·88	−1·47	0	Bahraich.
15	2	1	0	0	0	8	3	1	S 75° W	S 81° W	1·3	1·3	0	30	+ 7	61	+ 9	·336	−·033	0·9	+0·2	2	+1·7	0·73	0·11	+0·67	48·55	35·73	+12·82	0·45	Jhansi.
18	1	0	1	1	1	2	3	3	W	N 56° W	1·2	2·0	−0·8	16	−21	48	− 9	·285	−·052	0·8	0	0	−0·2	0	0·07	−0·07	29·46	25·57	+3·89	0	Agra.
14	4	0	0	1	0	1	3	7	N 47° W	N 60° W	0·4	0·6	−0·2	33	+14	65	− 2	·323	−·042	0·7	−0·3	0	−0·3	0·01	0·15	−0·14	34·04	25·04	+9·00	0·01	Mainpuri.
25	0	0	0	0	0	2	3	0	S 72° W	N 7° E	0·4	0·9	−0·5	13	+ 4	75	− 1	·401	−·005	0·9	+0·2	0	−0·3	0	0·23	−0·23	61·33	41·85	+19·48	0	Bareilly.
25	0	0	0	3	0	0	0	2	S 45° E	S 81° E	0·6	0·8	−0·2	3	+ 1	81	+ 4	·354	−·006	0·4	−0·4	0	−0·5	0	0·22	−0·22	47·12	37·40	+9·72	0	Roorkee.
																															VI.—Punjab.
6	1	1	1	1	1	1	10	8	N 70° W	N 89° W	2·1	1·5	+0·6	49	+11	53	− 1	·263	−.040	0·2	−0·8	0	−0·3	0	0·10	−0·10	27·75	24·46	+3·29	0	Delhi.
6	1	0	5	3	1	6	5	0	S 27° W	S 18° W	2·9	2·0	+0·9	30	+19	53	− 7	·225	−0·82	0·2	−1·0	0	0	0	0·01	−0·01	21·25	11·88	+9·37	0	Hissar.
9	2	4	5	2	0	0	1	7	N 21° E		2·5			27		70	+ 5	·293	−·059	0·7	−0·2	0	−0·2	0	0·08	−0·08	26·14	20·85	+5·29	0	Patiala.
12	4	1	4	3	0	0	0	6	N 22° E	N 34° W	1·9	1·0	+0·9	27	+19	78	+ 4	·314	−·033	0·6	−0·3	0	−0·3	0	0·25	−0·25	38·61	24·53	+14·08	0	Ambala.
27	0	0	0	2	0	0	0	1	S 45° E	S 27° W	0·5	0·7	−0·2	3	− 4	63	− 1	·268	−·047	0·3	−1·2	0	−0·2	0	0·08	−0·08	27·86	23·40	+4·46	0	Ludhiana.
26	1	1	0	1	0	0	9	1	N 24° E	N 5° W	0·5	0·9	−0·4	7	+ 6	76	+ 5	·289	−·042	0·9	−0·3	0	−0·1	0·02	0·05	−0·03	23·97	15·98	+7·99	0·02	Lahore.
23	2	1	4	0	0	0	0	0	N 60° E	N 42° E	0·3	0·6	−0·3	20	+ 5	77	+11	·296	−·017	0·5	−0·6	0	−0·2	0	0·04	−0·08	30·72	24·79	+5·93	0	Sialkot.
20	2	1	1	1	0	1	1	3	N 23° W	N 50° W	2·0	0·9	+1·1	10	− 1	61	− 3	·217	−·039	1·9	+0·2	0	−0·4	0·01	0·23	−0·22	41·82	24·45	+17·37	0·01	Rawalpindi.
21	2	3	3	0	0	0	0	1	N 43° E	N 38° E	7·5	2·0	+5·5	23	+ 1	44	− 6	·209	−·047	1·6	+0·4	0	−0·1	0	0·05	−0·05	13·09	10·43	+2·66	0	Khushab.
20	0	2	1	1	0	0	2	4	N 27° W		0·6			13		65		·274		1·2		0	−0·2	0	0·10	−0·10	9·62	10·28	−0·66	0	Lyallpur.
4	1	3	1	6	5	0	3	7	S 28° W	S 72° E	2·5	2·1	+0·4	3	−19	56	+ 5	·264	−·019	1·0	−0·3	0	−0·1	0	0·06	−0·06	9·46	8·28	+1·18	0	Montgomery.
18	6	1	0	3	0	0	1	1	N 11° W	N 72° E	0·4	0·9	−0·5	17	− 6	58	− 2	·282	−·046	0·3	−0·7	0	−0·1	0	0·08	−0·08	5·45	5·11	+0·34	0	Multan.
																															VII.—North-West Frontier Province.
23	0	0	0	0	7	0	0	0	S	S 31° W	0·5	1·5	−1·0	23	+ 3	70	+ 4	·234	−·042	1·5	−0·8	0	−0·5	0	0·32	−0·32	13·85	5·94	+7·91	0	Peshawar.
22	1	1	0	1	0	0	1	4	N 33° W	N 9° E	0·6	0·6	0	17	+13	56	−10	·241	−·058	1·0	−0·5	0	−0·3	0	0·12	−0·12	7·42	6·21	+1·22	0	D. I. Khan.
																															VIII.—Sind.
24	0	1	0	2	0	0	0	3	N	N 18° E	0·8	1·2	−0·4	5	− 7	59	+ 2	·269	−·062	0	−1·3	0	−0·1	0	0·08	−0·08	3·73	2·48	+1·25	0	Jacobabad.
10	18	1	0	1	0	0	0	0	N 4° E	N 10° W	2·5	4·6	−2·1	59	+18	53	+ 1	·292	−·080	0	−1·3	0	−0·1	0	0·08	−0·08	14·01	6·32	+7·69	0	Hyderabad.
2	10	12	2	0	0	0	0	3	N 23° E	N 49° E	5·4	5·5	−0·1	76	+ 9	50	−16	·338	−·180	0·5	−0·7	0	−0·1	0	0·05	−0·05	21·67	6·24	+15·43	0	Karachi.
																															IX.—Rajputana.
18	0	1	2	4	4	1	0	0	S 36° E	N 76° W	0·9	2·4	−1·5	30	+11	45	− 4	·236	−·071	0·2	−1·1	0	−0·1	0	0·05	−0·05	20·43	10·33	+10·10	0	Bikaner.
6	3	20	1	0	0	0	0	0	N 41° E		2·5			72		33	− 5	·200	−·055	0	−1·1	0	−0·2	0	0·10	−0·10	25·96	12·61	+13·35	0	Jodhpur.
16	4	3	5	0	0	0	1	1	N 39° E	N 1° W	1·7	2·0	−0·3	30	+ 5	48	− 3	·267	−·054	0·1	−1·2	0	−0·2	0	0·15	−0·15	23·46	22·59	+0·87	0	Jaipur.
28	2	0	0	0	0	0	0	0	N	N 2° W	0·4	1·2	−0·8	7	−23	67	+ 4	·268	−·062	0	−1·1	0	−0·3	0	0·16	−0·16	28·22	19·76	+8·46	0	Ajmer.
18	1	2	0	1	1	3	0	4	N 63° W		1·2			10		52	+ 5	·325	+·002	0·7	+0·2	0	−0·1	0	0·02	−0·02	44·03	26·85	+17·18	0	Kotah.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay.																					
19	Deesa	466	29·549	—·015	29·985	29·714	14th	29·303	2nd	68·1	53·7	90·8	—1·5	55·0	—2·9	72·9	—2·2	35·8	95·2	2nd	46·5	30th
	Bhuj	334	29·674	—·013	29·969	29·832	14th	29·449	2nd	69·7	58·3	86·6	—2·9	54·8	—8·2?	70·9	—5·5?	32·0	92·0	3rd & 9th	45·3	28th
	Jamnagar	61	29·964	—·019	29·972	30·110	14th	29·746	2nd	70·0		86·0	—4·0	58·8	—4·0	72·4	—4·0	27·2	90·5	5th & 6th	53·1	28th
	Dwarka	37	29·974	—·036	29·958	30·117	14th	29·757	2nd	74·1	64·3	86·0	—0·5	66·2	—1·9	76·1	—1·2	19·8	92·0	6th	57·6	28th
	Rajkot	429	29·551	—·039	29·944	29·695	14th	29·347	2nd	69·3	58·3	88·5	—2·3	55·5	—3·1	72·5	—2·7	32·0	92·1	8th	49·6	28th
	Veraval	*18*	29·954	—·044	29·915	30·080	14th	29·761	2nd	73·8	63·2	88·3	—0·5	66·9	—0·6	77·6	—0·5	21·4	93·1	15th	60·8	30th
	Bhavnagar Para	55	29·932	—·044	29·934	30·083	14th	29·701	2nd	69·8		89·1	—2·1	60·3	—2·7	74·7	—2·4	28·8	93·6	3rd	55·2	30th
	Surat	39	29·935	—·049	29·917	30·073	14th	29·710	2nd	73·1	65·5	89·5	—1·9	66·1	+2·6	77·8	+0·3	23·4	92·9	8th	61·3	24th
	Ahmadabad	163	29·851	—·021	29·967	30·009	14th	29·613	2nd	72·4	59·5	91·0	—1·9	58·4	—2·1	77·2	—2·0	27·6	94·1	8th & 9th	58·9	29th
25	Bombay	37	29·916	—·053	29·894	30·053	14th	29·702	2nd	77·8	73·5	86·4	—0·8	75·5	+2·0	81·0	+0·6	10·9	88·5	16th	73·4	22nd
	Ratnagiri	207	29·722	—·042	29·873	29·819	14th	29·519	2nd	79·4	72·5	87·0	—3·6	73·2	+3·2	80·1	—0·2	13·8	91·9	15th & 16th	69·9	21st & 22nd.
	Marmagao	*60*	29·874	—·054	29·869	29·988	14th	29·681	2nd	75·4	72·4	82·2	—4·5	73·0	0	77·6	—2·3	9·2	84·7	15th	68·0	23rd
	Karwar	44	29·905	—·030	29·881	30·011	19th	29·728	2nd	73·6	71·7	84·4	—3·2	71·3	+1·8	77·8	—0·7	13·1	89·6	20th	66·0	23rd
26	Malegaon	1,430	28·548	—·044	29·948	28·696	14th	28·318	2nd	71·5	64·1	87·0	—0·5	61·9	+5·0	74·5	+2·3	25·1	92·4	3rd	51·5	22nd
	Ahmadnagar	2,154	27·818	—·058	29·918	27·961	14th	27·595	2nd	70·1	64·7	83·1*	—2·4	62·2	+5·4	72·6*	+1·5	20·9	86·8	17th	52·6	23rd
	Poona	1,846	28·119	—·051	29·920	28·263	11th	27·910	1st	70·5	67·5	84·0	—2·7	64·0	+5·2	74·0	+1·3	20·0	87·0	3rd	55·3	23rd
	Sholapur	1,590	28·357	—·062	29·897	28·507	14th	28·114	2nd	73·3	67·6	83·3	—4·3	66·4	+4·3	74·8	0	16·9	87·5	29th	58·6	23rd
	Bijapur	*1,948*	27·898	—·059	29·896	28·125	14th	27·750	2nd	70·5	66·9	80·7	—5·6	64·6	+3·5	72·7	—1·1	16·1	83·2	19th	57·6	20th
	Belgaum	2,562	27·413	—·038	29·907	27·545	14th	27·204	2nd	68·7	65·8	77·6	—4·8	62·9	+1·8	70·3	—1·5	14·7	82·0	19th	57·5	17th
	XI.—Central India.																					
30	Neemuch	1,626	28·393	—·021	30·015	28·549	14th	28·151	2nd	64·6	53·6	81·2	—3·7	52·2	—2·6	66·7	—3·1	29·0	87·7	10th	45·0	28th
	Indore	1,823	28·165	—·040	29·983	28·320	14th	27·836	2nd	64·2	58·1	80·9	—2·8	54·8	+0·5	67·9	—1·1	26·1	86·5	2nd	46·3	22nd
31	Nowgong	754	29·265	—·014	30·018	29·413	14th	29·016	2nd	57·8	54·0	78·4	—3·9	50·7	—2·3	64·6	—3·1	27·7	8[illegible]·0	1st	44·0	22nd
	Satna	1,041	28·962	—·016	30·006	29·129	14th	28·712	2nd	61·0	56·4	77·3	—4·1	54·3	+0·2	65·8	—1·9	23·0	84·8	2nd	47·0	23rd, 29th & 30th.
	XII.—Central Provinces.																					
32	Buldana	2,134								70·6	65·1	80·6	—1·7	63·6	+1·7?	72·1	0?	17·0	83·5	30th	55·4	23rd
	Akola	925	29·052	—·056	29·946	29·200	14th	28·794	2nd	71·7	65·3	85·9	—1·7	63·1	+6·3	74·7	+2·3	22·5	89·8	3rd	51·5	21st
	Amraoti	1,215	28·760	—·050	29·946	28·911	14th	28·512	2nd	71·8	64·2	84·2	—2·3	65·0	+3·3	74·6	+0·5	19·2	87·3	30th	55·2	22nd
33	Khandwa	1,044	28·939	—·043	29·968	29·095	14th	28·688	2nd	66·4	61·4	83·3	—4·2?	57·3†	+2·0†	69·9†	—1·1?	26·0	88·5	3rd	48·2	22nd
	Hoshangabad	1,006	29·007	—·027	30·000	29·151	14th	28·753	2nd	65·7	59·4	80·8	—3·5	58·6	+1·9	69·7	—0·8	22·2	86·7	2nd	49·4	23rd
	Saugor	1,807	28·188	—·036	29·991	28·339	14th	27·950	2nd	64·4	55·2	78·8	—3·4	57·1	—0·7	67·9	—2·1	21·7	84·6	2nd	50·6	28th
	Jubbulpore	1,327	28·663	—·038	29·990	28·818	14th	28·403	2nd	62·8	53·0	79·2	—2·8	56·1	+3·6	67·7	+0·4	23·1	85·8	1st	45·2	22nd
	Seoni	2,033	27·963	—·027	29·975	28·111	14th	27·712	2nd	66·8	60·0	79·0	—2·7	53·2	+1·1	67·6	—0·8	22·8	82·8	2nd	45·1	22nd
	Nagpur	1,017	28·966	—·043	29·957	29·109	14th	28·699	2nd	69·6	63·6	84·1	—1·3	62·9	+3·3	73·5	+1·0	21·2	87·4	3rd	50·7	22nd
34	Pendra	2,940	27·967	—·018	29·998	28·141	14th	27·743	2nd	64·8	60·2	77·1	—2·4	57·8	+2·6	67·3	+0·1	19·3	81·6	2nd & 5th	49·0	22nd

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.

† Mean of 25 days.

B—*continued.*

stations in India, etc., in November, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in. inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															X.—Bombay.
2	0	12	16	0	0	0	0	0	N 71° E	N 81° E	4·0	5·3	−1·3	82	+19	46	+ 5	·317	+·003	0	−0·8	0	−0·2	0	0·12	− 0·12	25·44	23·68	+ 1·76	0	Deesa.
21	3	3	3	0	0	0	0	0	N 45° E	N 34° W	2·5	4·0	−1·5	27	− 8	46	−12	·339	−·133	0	−1·0	0	−0·2	0	0·10	− 0·10	14·04	13·71	+ 0·33	0	Bhuj.
19	0	8	3	0	0	0	0	0	N 51° E		2·2			34		60	+6?	·439	−·021?	0·6	+0·1	0	0	0	0	0	25·92	18·86	+ 7·06	0	Jamnagar.
0	13	14	1	0	0	0	1	1	N 21° E		8·0			82		56	−15	·474	−·177	0·4	−0·8	0	0	0	0	0	11·10	13·70	− 2·60	0	Dwarka.
5	5	13	2	0	0	1	0	4	N 25° E	N 48° E	3·3	3·7	−0·4	59	+12	48	− 2	·343	−·062	1·4	+0·5	0	−0·3	0	0·23	− 0·23	28·85	26·24	+ 2·61	0	Rajkot.
2	14	11	0	0	0	0	0	3	N 14° E	N 22° E	5·2	4·2	+1·0	82	+12	53	− 1	·447	−·025	0·7	−0·7	0	−0·1	0	0·23	− 0·23	23·85	17·76	+ 6·09	0	Veraval.
5	5	3	0	0	0	0	5	12	N 38° W	N 60° W	2·9	4·7	−1·8	64	+11	62	+ 8	·448	+·033	1·9	+0·6	0	−0·2	0	0·19	− 0·19	19·43	20·16	− 0·73	0	Bhavnagar Para.
6	5	11	7	1	0	0	0	0	N 52° E	N 55° E	2·5	3·4	−0·9	62	+ 9	65	+ 5	·530	+·042	2·3	+1·5	0	−0·3	0	0·12	− 0·12	57·28	40·85	+16·43	0	Surat.
3	0	23	4	0	0	0	0	0	N 51° E	N 55° E	4·2	3·1	+1·1	82	+22	42	− 4	·338	−·039	0·8	−0·5	0	−0·3	0	0·15	− 0·15	25·24	29·35	− 4·11	0	Ahmadabad.
0	1	10	15	3	1	0	0	0	N 78° E	N 73° E	4·9	7·0	−2·1	79	+ 1	81	+ 8	·769	+·095	2·8	+1·1	1	+0·3	0·72	0·38	+ 0·34	85·42	71·61	+14·31	0·72	Bombay.
2	2	6	9	10	0	0	1	0	S 85° E	S 78° E	5·2	5·5	−0·3	62	− 1	71	+13	·708	+·144	3·9	+2·2	8	+7·1	7·26	0·46	+ 6·80	152·74	100·84	+51·90	2·89	Ratnagiri.
0	0	6	13	2	3	0	4	2	N 85° E	S 84° E.	5·3	5·3	0	43	−35	91	+11	·797	+·078	4·6	+2·5	5	+3·3	3·98	0·96	+ 3·02	123·78	92·75	+31·03	1·54	Marmagao.
27	2	0	0	0	0	0	0	1	N 15° W	N 65° E	0·9	2·0	−1·1	10	−60	91	+10	·752	+·091	4·0	+2·0	9	+6·5	8·46	1·67	+ 6·79	145·17	121·62	+23·55	3·13	Karwar.
20	1	3	0	0	2	4	0	0	S 24° W	N 74° W	2·1	3·5	−1·4	7	−45	66	+15	·513	+·145	2·9	+1·3	3	+2·1	1·33	0·41	+ 0·92	28·49	22·12	+ 6·37	0·76	Malegaon.
5	5	3	3	3	2	2	1	6	N 6° E	N 75° E	3·6	4·8	−1·2	20	+ 5	74	+18	·555	+·142	3·0	+1·3	3	+2·1	0·65	0·50	+ 0·15	32·33	21·00	+11·33	0·26	Ahmadnagar.
0	0	0	19	0	0	0	11	0	E	S 75° E	5·0	4·6	+0·4	27	0	85	+24	·635	+·215	3·0	+1·2	3	+1·4	1·91	0·82	+ 1·09	32·85	26·29	+ 7·56	0·70	Poona.
4	0	7	4	10	1	0	0	4	S 89° E	S 87° E	5·2	6·1	−0·9	44	−20	74	+23	·608	+·195	4·5	+1·9	7	+5·7	8·28	0·69	+ 7·39	48·80	28·17	+20·63	3·05	Sholapur.
6	2	2	7	9	1	0	0	3	S 82° E	S 75° E	1·9	2·6	−0·7	43	−11	83	+18	·618	+·118	4·1	+1·6	9	+7·4	9·47	0·89	+ 8·58	38·88	19·45	+19·43	3·65	Bijapur.
7	0	4	13	2	0	0	4	0	N 84° E	S 87° E	7·5	7·9	−0·4	43	−15	86	+24	·601	+·142	5·7	+3·0	11	+9·0	10·67	1·47	+ 9·20	53·88	47·12	+ 6·76	2·66	Belgaum.
																															XI.—Central India.
15	2	0	13	0	0	0	0	0	N 81° E	N 51° E	2·7	3·9	−1·2	43	− 5	46	− 2	·280	−·038	1·3	+0·4	0	−0·2	0	0·15	− 0·15	38·94	27·80	+11·14	0	Neemuch.
19	1	4	5	1	0	0	0	0	N 70° E	N 45° E	2·4	1·4	+1·0	30	+12	68	+13	·407	+·028	2·2	+1·1	2	+1·5	0·86	0·30	+ 0·56	42·76	32·05	+10·71	0·42	Indore.
12	6	0	3	6	3	0	5	1	N 37° W	N 53° W	0·8	0·7	+0·1	17	+ 4	79	+ 9	·383	−·097	2·1	+1·0	2	+1·4	1·52	0·33	+ 1·19	45·09	41·21	+ 3·88	0·76	Nowgong.
24	1	2	1	0	1	1	0	0	N 66° E	N 13° W	1·5	2·3	−0·8	7	−40	74	+10	·409	+·032	1·7	+0·4	1	+0·3	0·75	0·33	+ 0·42	53·79	41·78	+12·01	0·72	Sutna.
																															XII.—Central Provinces.
0	2	5	13	6	1	1	1	1	N 89° E		3·5	3·7	−0·2	60		75		·558		4·3		4	+3·1	0·87	0·56	+ 0·31	49·31	33·54	+15·77	0·29	Buldana.
8	1	7	9	3	1	0	0	1	N 77° E	N 89° E	3·1	2·6	+0·5	49	+ 9	70	+14	·547	+·159	4·9	+3·5	2	+1·3	2·42	0·43	+ 1·99	45·37	31·01	+14·36	1·83	Akola.
4	0	12	11	3	0	0	0	0	N 74° E	N 67° E.	2·7	2·8	−0·1	72	+21	64	+15	·510	+·127	3·5	+2·0	1	+0·1	0·15	0·51	− 0·06	48·13	32·05	+16·08	0·20	Amraoti.
12	0	10	7	1	0	0	0	0	N 66° E	N 74° E	2·5	2·0	+0·5	53	+28	74	+19	·483	+·128	3·1	+1·8	3	+2·2	1·06	0·39	+ 0·67	39·49	29·01	+10·48	0·25	Khandwa.
3	0	16	11	0	0	0	0	0	N 63° E	N 66° E	1·5	1·5	0	79	+19	67	+ 2	·429	+·040	2·0	+0·8	1	+0·3	1·42	0·43	+ 0·99	60·51	47·62	+12·89	1·20	Hoshangabad.
6	2	9	6	5	1	1	0	0	N 79° E	S 73° E	3·3	2·0	+1·3	49	+16	54	+ 5	·326	−·004	2·0	+1·0	1	+0·4	0·32	0·49	− 0·08	42·41	44·03	− 1·62	0·25	Saugor.
10	5	4	2	7	2	0	0	0	N 85° E	S 37° E	1·4	1·2	+0·2	33	− 8	74	+ 1	·431	+·036	2·3	+1·2	2	+1·2	2·76	0·42	+ 2·34	56·78	53·08	+ 3·70	2·20	Jubbulpore.
17	5	6	2	0	0	0	0	0	N 31° E	N 38° E	1·2	1·7	−0·5	37	− 6	66	+ 6	·441	+·057	2·8	+1·5	2	+1·2	0·76	0·53	+ 0·23	59·50	49·61	+ 9·89	0·51	Seoni
5	12	10	1	0	0	0	0	2	N 18° E	N 21° E	2·7	2·7	0	69	+39	70	+11	·516	+·106	3·5	+1·8	4	+3·0	2·56	0·63	+ 1·88	60·39	46·77	+13·62	0·92	Nagpur.
7	9	3	0	0	0	1	0	10	N 18° W		2·1			55		76	+20	·470	+·126	2·2	+0·6	2	+1·5	0·53	0·20	+ 0·33	54·77	45·81	+ 8·96	0·33	Pendra.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XII.—Central Provinces *—concld.*																					
	Raipur	970	29·008	−·045	29·951	29·157	14th	28·741	2nd	69·6	66·0	82·8	−0·4	64·4	+4·2	73·6	+1·9	18·4	87·8	1st	54·8	22nd
	Chanda	*634*	29·341	−·063	29·936	29·481	14th	29·085	2nd	71·8	68·4	84·4	−1·0	64·3	+5·9	74·4	+2·5	20·1	88·7	1st	54·4	22nd
	Jagdalpur	1,813	28·154		29·930	28·280	14th	27·928	2nd	69·3	66·5	82·5		62·7		72·6		19·8	86·4	4th	53·4	17th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·074	−·062	29·830	28·215	14th	27·849	2nd	72·3	65·6	84·6	−2·1	63·9	+5·4	74·3	+1·7	20·7	87·5	3rd	54·9	22nd & 23rd.
	Nizamabad	1,248	28·708	?	29·917	28·841	14th	28·460	2nd	72·3	68·2	83·2	−4·2	65·3	+6·0	74·3	+0·9	17·9	86·9	5th	58·0	19th
	Bidar	*2,165*								70·6	67 0	80·2	−2·6	64·7	+2·0	72·5	−0·3	15·5	83·6	28th	58·9	22nd
28	Gulbarga	1,503	28·446	−·060	29·908	28·568	15th	28·199	2nd	71·5	67·1	84·0	−3·4	66·3	+3·8	75·2	+0·2	17·7	87·0	22nd & 30th.	60·8	19th
	Raichur	*1,311*	28·646	−·094	29·910	28·778	14th	28·412	2nd	74·2	70·1	83·5	−3·0	69·7	+2·5	76·6	−0·3	13·8	86·8	7th & 15th.	65·0	22nd
	Hyderabad (Deccan)	1,738	28·249	−·040	29·920	28·376	14th	28·025	2nd	72·0	67·6	80·3	−4·4	66·7	+4·5	73·5	+0·1	13·6	82·4	4th & 14th.	60·7	11th
	Hanamkonda	877	29·097	−·040	29·929	29·216	15th	28·858	2nd	74·7	70·1	83·6	−2·1	68·9	+4·9	76·2	+1·4	14·7	87·8	4th	63·0	17th
	XIV.—Mysore.																					
21	Chitaldrug	2,405	27·549	−·044	29·878	27·661	14th	27·372	2nd	70·3	66·5	79·9	−3·0	65·3	+1·2	72·6	−0·9	14·6	83·3	10th	61·6	22nd
	Hassan	3,149	26·847	−·032	29·856	26·953	14th	26·687	1st	67·9	64·7	77·9	−2·4	62·6	+2·6	70·3	+0·1	15·3	81·3	6th	56·3	25th
	Bangalore	3,021	26·968	−·039	29·884	27·074	14th	26·713	23rd	68·1	65·2	78·8	−0·8	62·7	+0·8	70·8	0	16·1	82·3	11th	57·9	27th
	Mysore	2,518	27·446	−·042	29·881	27·546	14th	27·282	23rd	70·0	66·6	80·6	−2·0	64·3	+0·3	72·6	−0·9	16·3	85·5	6th	60·5	27th
	XV.—Madras.																					
3.	Mangalore	72	29·875	−·031	29·879	29·963	14th	29·741	1st	77·8	73·5	85·8	−2·3	73·3	+0·8	79·5	−0·7	12·5	92·5	30th	70·6	25th
	Calicut	27	29·914	−·025	29·870	29·993	14th	29·805	23rd	77·4	75·1	84·7	−2·4	73·7	+0·2	79·2	−1·1	11·0	86·8	12th	70·4	25th
	Cochin	9	29·929	−·029	29·865	30·000	14th	29·840	23rd	79·0	74·7	87·4	−0·3	74·1	−0·3	80·7	−0·3	13·3	90·2	16th	71·7	30th
	Trivandrum	198	29·747	−·016	29·877	29·822	14th	29·665	23rd	77·3	73·5	83·6	+1·0	73·0	−1·1	78·3	−0·1	10·6	86·5	12th	69·5	29th
	Pamban	37	29·895	−·024	29·860	29·864	14th	29·769	2nd	79·9	76·6	86·7	+1·8	78·3	+2·6	82·5	+2·2	8·4	88·2	4 days.	76·7	12th
31	Madura	447	29·487	−·042	29·868	29·575	15th	29·354	23rd	79·8	73·8	90·5*	+3·1*	73·4	+1·0	82·3*	+2·1	17·1	92·3	14th	69·8	22nd
	Pudukkottai	318	29·631	−·034	29·883	29·726	14th	29·497	2nd	77·7	72·8	87·8	+1·3	72·3	+0·4	80·0	+0·9	15·5	93·6	5th	69·7	27th
	Negapatam	31	29·903	−·036	29·863	29·996	15th & 19th.	29·772	2nd	79·7	76·9	86·8	+2·3	74·5	+0·2	80·7	+1·3	12·3	92·9	6th	71·1	24th & 30th.
	Trichinopoly	255	29·690	−·035	29·879	29·800	14th	29·536	23rd	78·9	73·5	89·3	+2·0	72·6	+0·7	81·0	+1·3	16·7	94·8	5th	68·5	27th
	Coimbatore	1,341	28·612	−·023	29·896	28·711	14th	28·462	23rd	74·7	69·5	85·0	−1·0	68·5	−0·3	76·8	−0·7	16·5	88·0	11th	62·6	24th
	Salem	913	29·034	−·025	29·889	29·142	14th	28·842	23rd	76·1	71·4	87·1	−0·4	69·3	+0·6	78·2	+0·1	17·8	90·8	5th	64·8	23rd
	Cuddalore	37	29·898	−·046	29·865	30·003	15th	29·720	23rd	77·7	74·1	85·6	+0·6	73·5	+1·5	79·6	+1·1	12·1	90·4	1st	69·0	23rd
	Vellore	707	29·243	−·040	29·896	29·368	14th	28·961	23rd	74·9	72·5	84·8	+0·3	70·1	+1·4	77·5	+0·9	14·7	90·1	2nd	66·5	27th
	Madras	22	29·921	−·046	29·875	30·041	19th	29·755	2nd	78·7	75·7	85·7	+0·5	73·7	+1·5	79·7	+1·0	12·0	92·7	4th	68·8	23rd
	Cuddapah	428	29·515	−·056	29·885	29·647	14th	29·310	2nd	77·4	73·2	87·3	−1·4	72·9	+3·7	80·1	+1·1	14·4	91·5	5th	68·3	16th

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 17 days.

B—*continued.*

stations in India, etc., in November, 1916—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															XII.—Central Provinces—*concld.*
0	4	11	12	0	1	0	1	1	N 58° E	N 40° E	1·7	2·3	−0·6	66	+43	81	+16	·598	+·154	4·5	+2·8	2	+1·0	2·36	0·42	+1·94	39·27	47·56	− 8·29	1·69	Raipur.
19	5	3	1	1	0	0	0	1	N 23° E	N 39° E	0·7	1·2	−0·5	27	−2	83	+12	·656	+·170	3·2	+1·2	2	+0·5	0·63	0·77	−0·14	56·76	50·77	+ 5·99	0·34	Chanda.
2	4	2	13	1	1	1	4	2	N 64° E		1·7			33		86		·620		4·7		3		0·81			44·83			0·36	Jagdalpur.
																															XIII.—Hyderabad.
2	1	7	10	3	1	0	1	0	S 88° E		4·9			62		69	+21	·552	+·159	4·1	+2·6	2	+1·4	0·58	0·47	+0·11	45·91	27·13	+18·78	0·40	Aurangabad.
13	9	10	3	3	1	0	0	0	N 72° E		1·8			13		80	+11	·638	+·114	3·9	+1·9	6	+5·1	1·34	0·62	+0·72	38·98	38·72	+ 0·26	0·35	Nizamabad.
4	0	6	9	10	1	0	0	0	S 79° E		4·2*			67		82	+19	·619	+·121	4·1	+2·2	8	+6·5	4·74	1·00	+3·74	49·85	34·94	+14·91	1·34	Bidar.
3	0	5	14	4	0	0	0	0	N 82° E	N 81° E	2·7	5·8	−3·1	76	+27	79	+16	·615	+·118	4·2	+2·0	9	+7·9	4·29	0·61	+3·68	42·74	31·21	+11·53	1·52	Gulbarga.
0	0	7	6	11	2	4	0	0	S 84° E	N 86° E	7·7	5·3	+2·4	59	− 5	81	+17	·685	+·144	3·4	+0·6	5	+3·4	2·21	0·72	+1·49	48·51	27·03	+21·58	0·89	Raichur.
13	1	0	11	4	1	0	0	0	S 79° E	S 72° E	2·8	2·6	+0·2	46	+23	79	+10	·622	+·112	4·0	+1·4	6	+4·0	2·44	0·88	+1·56	53·20	28·99	+24·21	1·02	Hyderabad (Deccan).
4	5	1	1	8	8	0	0	3	S 42° E		2·3			27		79	+16	·677	+·166	4·7	+1·9	4	+2·9	5·12	0·65	+4·47	48·07	32·66	+15·41	3·65	Hanamkonda.
																															XIV.—Mysore.
6	1	1	9	7	1	3	1	1	S 63° E	S 84° E	4·4	4·5	−0·1	43	−22	81	+12	·603	+·056	5·4	+1·3	5	+1·9	5·01	1·83	+3·18	27·14	23·29	+ 3·85	1·71	Chitaldrug.
8	1	0	12	4	1	1	3	0	S 75° E	N 77° E	3·7	2·2	+1·5	37	−38	84	+ 8	·576	+·025	5·5	+0·3	10	+6·0	7·18	2·65	+4·53	41·88	32·32	+ 9·56	1·76	Hassan.
0	0	7	10	3	1	4	4	1	S 88° E	N 71° E	5·9	3·7	+2·2	32	−42	85	+ 7	·586	+·041	5·9	+1·2	7	+2·5	9·93	2·83	+7·10	52·23	32·74	+19·49	4·51	Bangalore.
3	1	9	5	2	1	2	5	2	N 45° E	N 67° E	5·3	6·3	−1·0	27	−40	82	+ 6	·609	+·024	4·8	−1·1	5	+1·8	2·61	2·07	+0·54	49·92	27·71	+13·21	9·97	Mysore.
																															XV.—Madras.
2	1	2	29	2	2	0	1	0	S 87° E	S 82° E	3·9	1·9	+2·0	71	− 6	81	+ 8	·767	+·024	5·1	+1·6	9	+4·9	4·75	2·79	+1·96	122·02	124·92	− 2·90	1·08	Mangalore.
12	0	7	6	1	1	1	0	1	N 72° E	N 87° E	2·8	4·8	−2·0	33	−41	89	+ 7	·826	+·043	4·6	+0·4	4	−1·9	5·10	4·75	+0·35	114·21	110·89	+ 3·32	2·31	Calicut.
3	0	2	19	6	0	0	0	0	S 88° E	N 89° E	3·7	3·0	+0·7	82	+15	81	+ 1	·799	+·002	2·8	−1·4	6	−2·4	4·41	6·29	−1·88	115·00	103·55	+11·45	1·72	Cochin.
10	2	6	3	0	0	0	2	6	N 5° E	N 5° W	3·1	2·6	+0·5	37	+11	83	− 2	·777	−·020	5·9	+0·3	7	−2·1	6·66	6·23	+0·43	57·62	53·44	+ 4·18	2·58	Trivandrum.
1	12	3	0	0	9	2	0	2	N 14° W	N 21° E	8·8	7·4	+1·4	20	−32	85	0	·869	+·008	4·5	−0·2	10	−2·4	7·82	11·18	−3·36	22·15	24·19	− 2·04	2·20	Pamban.
0	8	6	4	0	1	1	3	7	N 2° W	N 3° E	4·1	4·8	−0·7	51	−19	74	− 3	·751	+·007	6·9	+1·8	1	−6·3	0·35	4·64	−4·29	23·42	28·77	− 5·35	0·21	Madura.
4	11	9	1	2	1	0	1	1	N 24° E		3·6			60		78	− 2	·746	+·006	5·4	−0·7	7	−1·2	3·92	5·30	−1·38	35·15	28·90	+ 6·25	0·85	Pudukkottai.
0	1	12	0	0	2	4	4	7	N 19° W	N 30° W	7·4	4·2	+3·2	30	−18	88	+ 6	·885	+·073	6·5	0	13	+1·0	10·16	15·38	−5·22	34·22	38·73	− 4·51	4·12	Negapatam.
7	4	6	1	0	0	2	4	6	N 22° W	N 13° E	2·5	2·8	−0·3	40	+ 3	77	− 2	·752	+·001	4·9	−0·5	4	−3·8	1·39	4·89	−3·50	26·33	26·69	− 0·36	0·75	Trichinopoly.
9	3	8	2	1	3	3	1	0	N 62° E	N 81° E	3·0	1·8	+1·2	20	−28	76	− 9?	·655	−·062?	3·9	−1·4	10	+3·5	5·36	3·19	+2·17	26·67	17·87	+ 8·80	1·71	Coimbatore.
19	0	1	4	0	6	0	0	0	S 42° E	N 50° E	2·5	2·3	+0·2	27	0	79	+ 1	·712	+·002	4·7	−0·2	4	−1·8	3·29	3·54	−0·25	44·49	35·89	+ 8·60	2·17	Salem.
2	5	0	0	0	2	6	0	15	N 58° W	N 25° W	3·5†	1·6	+1·9	56	−14	86	− 1	·792	−·021?	5·3	+0·2	11	+0·7	16·32	12·03	+4·29	46·33	40·50	+ 6·32	7·03	Cuddalore.
25	0	0	2	0	0	8	2	1	N 45° W		1·8			33		88	+ 4	·762	+·052	5·1	+0·9	9	+1·4	6·12	5·23	+0·89	54·44	38·57	+15·87	2·90	Vellore.
2	7	0	1	2	5	2	4	7	N 62° W	N 1° E	4·4†	4·7	−0·3	30	−23	86	+ 3	·844	+·052	4·6	−0·8	13	+2·0	14·10	12·78	+1·32	42·43	41·20	+ 1·23	3·53	Madras.
6	4	1	4	7	3	0	0	5	N 37° E	N 39° E				21	−20	81	+ 6	·760	+·074	4·2	+0·1	8	+2·8	3·49	3·26	+0·22	43·92	29·51	+13·51	0·99	Cuddapah.

* Mean of 27 days.
† " 29 "

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches. Mean of 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras—concld.																					
	Bellary	1,475	28·470	−·049	29·897	28·539	14th	28·266	1st	73·4	69·4	84·0	−3·4	68·2	+2·5	76·1	−0·5	15·8	87·6	7th	64·5	17th
	Kurnool	923	29·036	−·035	29·912	29·161	14th	28·818	2nd	74·2	70·2	85·5	−2·7	69·7	+5·5	77·6	+1·4	15·8	88·4	20th	65·2	17th
32	Nellore	66	29·881	−·050	29·882	29·999	19th	29·682	1st	77·5	75·1	85·0	−1·1	73·5	+2·0	79·2	+0·5	11·5	91·6	6th	70·1	26th
	Masulipatam	15	29·954	−·046	29·904	30·080	15th	29·729	2nd	77·1	73·5	84·1	−1·2	73·3	+2·2	78·7	+0·5	10·8	86·5	19th	69·0	16th
	Cocanada	26	29·957	−·027	29·920	30·088	14th	29·723	2nd	76·7	73·6	82·6	−0·3	72·1	+1·4	77·3	+0·5	10·5	85·6	3rd	68·7	16th
	Waltair (Vizagapatam)	*996*	29·746	−·040	29·915	29·889	14th	29·513	2nd	77·5	72·5	83·3	−1·1	72·5	+0·2	77·9	−0·5	10·8	86·5	4th	67·9	10th
	Calingapatam	19	29·987		29·924	30·106	14th	29·706	2nd	75·0	72·1	83·5		70·8		77·1		12·7	88·9	4th	63·8	9th
	Gopalpur	33	29·963	−·028	29·937	30·109	14th	29·638	2nd	74·1	70·9	83·2	−0·3	71·3	+5·0	77·3	+2·3	11·9	86·2	4th	63·7	16th
	Bay Islands.																					
1	P. V. Fraser	8	29·970		29·927	30·121	14th	29·692	1st	78·9	72·7											
	Port Blair	58	29·874	−·021	29·862	29·933	14th	29·819	2nd	80·8	75·9	85·4	−1·2	76·8	−0·2	81·1	−0·7	8·6	88·0	11th & 14th.	74·1	4th
	Table Island		29·853	−·007	29·877	29·934	14th	29·768	6th	80·2	77·6	83·2	−2·2	77·3	−0·2	80·2	−1·2	5·9	85·6	1st	72·5	8th
	Kashmir.																					
13	Muzaffarabad		27·663			27·801	14th	27·406	2nd	49·3	43·8	73·3		43·7		58·5		29·6	83·0	1st	37·1	27th
	Srinagar	5,204	25·007	−·027	24·977	25·176	14th	24·747	2nd	33·9	34·5*	57·8	−3·5	29·2	−2·9	43·5	−3·2	28·6	66·0	1st	22·5	28th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·840	−·058	20·608	21·044	14th	20·595	2nd	19·0		41·5	−2·8	15·3	−0·6	28·4	−1·7	26·2	54·6	1st	−0·5	28th
	Leh	*11,503*	19·731	−·067	19·699	19·935	14th	19·492	2nd	28·1		47·3	−0·4	19·0	−1·7	33·1	−1·1	28·3	56·7	2nd	12·8	26th
	Skardu	*7,505*	22·967	−·066	22·937	23·166	14th	22·657	2nd	32·0	33·6†	52·4	−2·4	29·4	−0·8	40·9	−1·6	23·0	64·9	2nd	19·3	29th
	Gilgit	4,890	25·244	−·070	25·217	25·457	14th	24·900	2nd	44·8	38·2	63·3	0	40·3	−2·5	51·8	−1·3	23·0	72·2	2nd	35·2	28th
	Baluchistán.																					
15	Fort Sandeman	4,614	25·501		25·470	25·652	14th	25·315	2nd	43·9	37·1‡	69·7		36·5		53·1		33·2	81·3	1st	24·7	27th
	Quetta	5,502	24·771	−·005	24·731	24·887	15th	24·625	2nd	26·3		60·9	−4·9	24·0	9·2	42·5	−7·1	36·9	72·3	1st	11·7	25th
	Chaman	4,311	25·845	+·022	25·807	25·946	15th	25·693	2nd	40·3	39·9‖	61·1	−6·3	34·4	−8·3	47·8	−7·3	26·7	73·8	1st	20·3	25th
	Kalat	6,630	23·837		23·799	23·963	15th	23·716	2nd	21·9		59·9	−7·3	21·9		40·9		38·0	72·0	1st	8·7	26th
	Dalbandin	2,772	27·320		27·283	27·430	26th	27·148	2nd	36·7	24·3†	68·6		31·0		49·8		37·6	80·8	15th	16·8	28th
	Pasni		30·073		30·033	30·216	14th	29·880	2nd	68·5	58·6	83·3		50·0		66·6		33·3	91·7	3rd	36·7	30th
	Panjgur		26·918		26·874	27·003	15th	26·752	1st	43·3	35·8§	67·4		38·7		53·1		28·7	80·6	1st	26·2	27th
	Robat		27·105		27·063	27·210	4th	26·960	21st	41·8	39·1§	71·3		41·3		56·3		30·0	82·8	1st	26·7	27th
	Seistan (*e*)		28·446			28·600	24th & 25th.	28·270	21st	39·6	38·[illegible]	65·2		35·4		50·3		29·8	87·8	17th	21·7	26th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·532	−·018	24·568	24·661	14th	24·356	2nd	45·3	37·1¶	61·8	−3·8	34·8	−6·4	48·2	−5·1	27·0	71·2	1st	25·1	26th
	Cherat	*4,956*	25·874	+·001	25·792	25·963	14th	25·585	2nd	51·8	39·5	62·3	−4·7	46·5	−3·4	54·4	−4·1	15·8	71·2	1st	39·7	27th
	Drosh (*e*)		25·219			25·350	14th	25·025	2nd	42·5	36·7**	60·2	−5·4	41·2	−3·2	50·7	−4·3	19·0	73·3	1st	33·0	26th & 27th.
	Murree	6,323	23·915	−·028	23·833	24·051	14th	23·710	2nd	47·2	37·1	56·[illegible]	−4·4	43·9	−1·6	50·1	−3·0	12·5	63·0	16th	32·5	24th

N.B.—Elevations in italics indicate barometrical determinations.

(*e*) Assumed.

* Mean of 15 days.
† " " 10 "
‡ " " 27 "
§ " " 20 "
‖ " " 19 "
¶ " " 28 "
** " " 26 "

NOTE.—The barometric readings are not reduced to sea-level, in the case

B—*continued.*

stations in India, etc., in November, 1916—*continued.*

Wind direction. Number of winds from Calm. (24)	N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st May to 30th November, 1916. (51)	Normal rainfall for this period. (52)	Departure from norms. of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															XV.—Madras—*concld.*
6	1	2	8	6	2	2	2	1	S 65° E	S 85° E	2·8	2·3	+0·5	33	0	81	+16	·669	+·128	5·9	+2·0	6	+2·9	2·17	1·96	+0·21	27·12	18·63	+8·49	0·75	Bellary.
14	0	6	4	2	1	3	0	0	S 88° E	N 34° W	2·9			25	+24	81	+ 9	·689	+·110	4·0	+1·2	5	+2·9	3·01	1·08	+1·93	41·20	25·36	+15·84	2·25	Kurnool.
4	6	10	2	0	2	0	3	3	N 16° E	N 44° W	2·0	3·4	−1·4	46	− 9	89	+ 6	·838	+·067	6·1	−0·3	10	+2·5	7·67	8·74	−1·07	35·79	29·79	+6·00	3·28	Nellore.
7	8	10	1	1	0	0	1	2	N 22° E	N 14° E	4·0	3·9	+0·1	56	−22	85	+ 5	·794	+·059	4·7	+1·0	9	+4·7	10·85	5·01	+5·84	66·03	37·45	+28·58	3·50	Masulipatam.
2	6	20	1	0	0	0	0	1	N 35° E	N 12° E	7·1	7·3	−0·2	82	− 1	88	+12	·791	+·128	4·6	+1·0	8	+3·7	10·69	5·04	+5·65	49·62	36·17	+13·45	6·08	Cocanada.
3	5	15	3	1	1	2	0	0	N 46° E	N 15° W	3·9			59	+16	78	+15	·732	+·139	3·0	−0·9	6	+2·9	3·32	3·19	+0·13	39·62	33·27	+6·35	1·72	Waltair (Vizagapatam)
9	6	5	1	0	0	1	1	5	N 4° W		5·3			47		86		·754		2·4		5	+4·4	2·94	1·40	+1·54	32·55	30·55	+2·00	1·03	Calingapatam.
0	16	1	0	0	0	0	0	13	N 18° W	N 25° W	5·6	6·1	−0·5	92	+ 5	85	+ 7	·718	+·102	3·1	+1·5	4	+1·2	3·88	3·42	+0·46	41·54	41·84	−0·30	2·48	Gopalpur.
																															Bay Islands.
1	11	14	1	0	1	1	0	1	N 24° E					73		73		·723		3·5		4		2·64			41·75			1·21	P. V. Fraser.
4	1	9	7	3	3	1	1	1	N 80° E	N 72° E	5·4	4·9	+0·5	43	+23	79	− 6	·829	−·051	5·2	−0·6	10	−2·2	7·58	9·94	−2·36	110·41	106·01	+4·40	3·77	Port Blair.
0	1	11	6	3	4	2	3	0	N 84° E					37		88	+ 8P	·909	+·060P	5·6	−1·0	4	−2·5	3·58	5·55	−1·97	28·25*	75·83	−47·68	1·53	Table Island.
																															Kashmir.
26	1	0	0	0	0	3	0	0	S 63° W		0·8			7		63		·221		1·7		1		0·27			37·94†			0·20	Muzaffarabad.
12	1	1	2	4	3	2	2	3	S	S 53° E	1·9	1·9	0	11	−12	78‡		·172‡		2·9	+0·5	0	−1·1	0·01	0·35	−0·34	10.27	12·89	−2·62	0·01	Srinagar.
																															Gulmarg.
24	0	0	0	0	0	3	2	1	S 73° W		3·9			17						3·0	+0·3	2	+1·0	0·52	0·30	+0·22	4·53	7·12	−2·59	0·25	Dras.
26	1	1	1	1	0	0	0	0	N 67° E	S 46° W	2·6	1·5	+1·1	7	− 7					2·5	−0·9	0	−0·2	0	0·04	−0·04	2·87	1·86	+1·01	0	Leh.
26	0	0	0	0	2	2	0	0	S 23° W		2·5			10		51§		·117§		3·4	−0·1	0	−0·1	0	0·04	−0·04	1·12	3·77	−2·65	0	Skardu.
29	0	0	0	0	0	1	0	0	S 45° W		0			3		53	+ 7	·156	+·004	2·3	−1·7	0	−0·1	0	0·04	−0·04	1·46	3·04	−1·58	0	Gilgit.
																															Baluchistan.
30	0	0	0	0	0	0	0	0	Calm		0·4			(a)		46‖		·135‖		0		0		0			7·88			0	Fort Sandeman.
27	0	1	1	1	0	0	0	0	E	S 18° W	1·5	1·5	0	8	+ 3					0·1	−1·6	0	−0·8	0	0·29	−0·29	2·08	2·20	−0·12	0	Quetta.
2	0	0	16	7	5	0	0	0	S 64° E	S 61° E	3·4	4·7	−1·3	76	+13	55¶		·165¶		0·5	−0·8	0	−0·7	0	0·22	−0·22	0·74	0·51	+0·23	0	Chaman.
29	0	0	0	0	0	0	0	1	N 45° W	S 20° W	4·0**			3	− 47					0		0	−0·8	0	0·26	−0·26	3·02	1·67	+1·35	0	Kalat.
7	6	9	4	1	0	1	0	2	N 36° E		3·1			49		36§		·098§		0·5		0		0			0·50			0	Dalbandin.
2	17	1	0	0	0	0	0	10	N 15° W		8·0			86		52		·373		0·3		0		0			2·10			0	Pasni.
1	2	16	10	1	0	0	0	0	N 60° E		5·6			82		37¶		·123¶		0·4		0		0			4·57			0	Panjgur.
1	0	1	0	1	1	13	12	1	S 65° W		4·3			72		3.¶		·111¶		1·2		0		0			0			0	Robat.
17	1	0	0	0	0	0	0	13	N 42° W		8·4			40		57††		·16:††		0·4		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm		0·6			(a)		40‡‡	− 4	·1221‡	−·046	1·0	−0·9	1	−0·3	0·11	0·48	−0·37	15·23	11·26	+0·97	0·11	Para Chinar.
5	22	0	0	1	0	0	0	2	N 2° W	N 13° W	7·5	8·5	−1·0	76	+ 9	27	−16	·104	−·037	1·8	−0·1	0	−0·3	0·06	0·08	−0·02	17·44	13·67	+3·77	0·06	Cherat.
27	0	0	3	0	0	0	0	0	E		1·0			10		49§§	0	·139§§	−·019	1·8	−0·4	0	−1·1	0·06	0·33	−0·27	5·53	6·83	−1·30	0·05	Drosh.
10	7	1	4	4	1	0	0	3	N 42° E	N 75° E	4·0	4·2	−0·2	27	+20	35	− 3	·107	−·034	1·5	−0·6	2	+1·0	0·72	0·70	+0·02	59·91	40·12	+19·79	0·35	Murree.

of hill or plateau stations, the elevations of which exceed 3,200 feet.

‡ Mean of 15 days.
¶ " " 10 "
‖ " " 27 "
¶ " " 20 "
** " " 29 "
†† " " 1 "
‡‡ " " 28 "
§§ " " 26 "

* Rainfall since 15th August 1916.
† Rainfall since 1st June 1916.
(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Hill stations, excluding Kashmir and Baluchistan—*concld.*																					
	Simla	7,232	23·163	−·021	23·125	23·310	14th	22·984	2nd	49·6	37·7	56·8	+0·7	45·2	+0·3	51·0	+0·5	11·6	63·3	15th	37·6	25th
	Sanain		23·159	−·076	23·121	23·255	14th	23·023	2nd	34·5	32·8*	57·9	−0·4	32·1	−2·7	45·0	−1·5	25·8	63·3	15th	29·1	25th & 27th.
	Kalabagh																					
	Chakrata	7,072	23·481†	+·021†	23·441†	23·610	14th	23·299	2nd	51·8	41·3	61·2	+0·3	45·0	+1·1	53·1	+0·7	16·2	67·7	14th	38·2	25th
	Mukteswar	7,592	22·910	−·016	22·869	23·051	14th	22·735	2nd	50·7	38·2‡	60·3	−0·1	44·6	+1·5	52·5	+0·7	15·7	65·8	13th	39·2	24th
	Darjiling	7,432	23·027	−·010	22·982	23·163	14th	22·841	2nd	48·8	45·5	58·1	+3·0	44·0	+1·3	51·1	+2·1	14·1	64·7	10th	40·9	30th
	Shillong	4,920	25·216	−·014	25·168	25·347	14th	25·016	2nd	57·1	53·5	66·6	−0·1	47·5	+1·2	57·1	+0·5	19·1	72·1	3rd	40·1	22nd
	Cherrapunji	4,309	25·762	−·018	25·713	25·894	14th & 15th.	25·551	2nd	61·9	56·4	68·3	+1·2	54·8	+0·8	61·8	+1·0	13·1	74·7	10th	50·1	30th
	Natarhat		26·355		26·304	26·450	22nd	26·190	2nd	60·8	56·9	69·6		54·9		62·3		14·7	71·6	1st	49·0	21st & 30th.
	Maymyo	3,546	26·526	+·011	26·471	26·645	15th	26·300	2nd	60·3	59·1	72·9	−0·6	52·8	+0·6	62·8	0	20·1	80·1	1st	42·1	23rd
	Pachmarhi	3,528	26·511	−·057	26·458	26·659	14th	26·292	2nd	62·8	57·8	73·0	−0·8	52·5	+2·0	62·7	+0·6	20·5	77·5	2nd & 3rd.	41·6	22nd
	Mount Abu	3,945	26·120	−·052	26·070	26·269	14th	25·919	2nd	64·1	52·2	71·2	−2·5	54·6	−3·7	62·9	−3·1	16·6	76·2	1st	47·9	27th
	Mercara (f)	3,781	26·229	−·038	26·162	26·315	14th	26·091	1st	63·9	62·1	73·5	−2·5	59·1	−1·1	66·3	−1·8	14·4	78·0	27th & 30th.	55·4	27th
	Ootacamund	7,327	23·048	−·027	22·984	23·118	14th	22·932	23rd	56·7	52·3	64·7	+1·4	47·2	−0·4	56·0	+0·5	17·5	68·0	26th	40·4	23th
	Kodaikanal	7,688	22·824	−·032	22·759	22·894	14th	22·734	2nd & 23rd	55·2	51·8	63·4	+2·4	49·2	+0·3	56·3	+1·3	14·2	67·7	3rd	44·2	27th
	Extra India.																					
	Singapore (a)	10	29·824	−·121	29·755	29·892	19th & 21st.	29·770	27th	83·1		88·5	+1·3	73·7	+0·2	81·1	+0·7	14·8	91·5	3rd & 16th	71·5	30th
	Penang (a)	17	29·851	−·074	29·793	29·908	4th	29·808	25th	82·5	73·8	88·4	+0·9	73·3	0	80·9	+0·5	15·1	92·0	29th	70·0	22nd
	Trincomalee	99	29·820	−·033	29·848	29·900	19th	29·711	2nd	76·7	72·4‡	83·2	+2·8	74·7	+0·1	81·5	+1·5	13·5	93·7	1st	72·4	23rd & 28th
	Colombo	24	29·914	−·027	29·864	29·985	19th	29·840	23rd	73·5	72·0	85·5	−1·1	72·1	−2·0	78·8	−1·5	13·4	89·6	11th	69·1	7th
	Hambantota	64	29·872		29·863	29·941	19th	29·797	2nd	74·0		85·4		72·7		79·1		12·7	88·5	6th	70·4	12th
	Minicoy	7	29·966	+·007		30·031	19th	29·889	21th		76·0											
	Amini Divi	13	29·912	−·047	29·853	30·003	14th	29·801	2nd	80·9		87·3	+1·3	75·2	−0·2	81·2	+0·5	12·1	90·8	25th	71·7	9th, & 13th.
	Gyantse	13,110																				
	Pharijong	14,400									52·9											
	Gangtok	5,667	24·524	−·049	24·479	24·624	21st	24·314	2nd	54·7		67·3	+2·6	50·1	+9·3	58·7	+5·9	17·2	71·7	10th	47·2	29th
	Gartok (c)	15,100																				
	Kashgar (c)	4,255	25·787	+·017		26·080	9th & 29th.	25·310	1st & 23rd.	28·1	33·6‡§	47·9	−5·3	24·1	−4·9	36·0	−5·3	23·8	59·8	1st	13·3	30th
	Kabul (c)		24·267	−·123		24·400	15th	24·100	2nd	32·3	35·8‖	64·8	−3·2	31·0‡	−3·1	47·9‡	−3·1	33·8	76·2	1st	21·4	26th
	Meshed	3,104								28·8	59·4	57·2	−5·1	24·2	−11·1	40·7	−8·1	33·0	76·4	18th	14·0	25th
	Jask	13	30·086	+·031	30·052	30·225	15th	29·859	2nd	68·1	63·1	82·8	−0·6	63·7	−5·3	73·3	−2·9	19·1	89·1	18th	53·8	27th
	Muscat	20	30·056	+·032	30·055	30·213	15th	29·875	2nd	73·2	59·6	84·9	+2·4	71·0	−4·2	78·0	−0·9	13·9	91·7	3rd	61·7	27th
	Bushire	14	30·063	+·020	30·039	30·208	15th	29·858	2nd	65·3	59·4	78·5	+0·6	62·1	−0·2	70·3	+0·2	16·4	87·5	5th	53·5	30th
	Busrah	25								65·8		84·3	+9·0	55·9	−1·1	70·1	+3·9	28·4	93·5	4th	45·9	23rd
	Ispahan (c)	5,317	24·451	−·019		24·620	24th	24·300	12th & 13th.	37·6		62·0	−1·3	33·9	−2·7	47·9	−2·0	28·1	71·4	1st & 12th.	22·2	30th
	Tehran (c)	4,002																				
	Baghdad	127																				
	Aden	94	29·937	−·014	29·964	30·035	16th	29·775	3rd	75·8	70·1	83·4	−1·6	73·7	−1·1	78·6	−1·3	9·7	90·2	5th	70·3	19th
	Zanzibar	72	29·950	−·018	29·943	30·027	21st	29·870	27th	80·9	75·7	85·1	+0·9	77·7	+0·5	81·4	+0·7	7·4	86·9	4th & 26th	75·3	21st

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(c) Aneroid.
(f) Observation of 25 days.

* Mean of 3 days.
† " " 25 "
‡ " " 29 "
§ " " 11 "
‖ " " 6 "
¶ " " 23 "

B—*concluded.*

stations in India, etc., in November, 1916—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Hill stations, excluding Kashmir and Baluchistan—*concld.*
																31	−10	·104	−·035	0·6	−0·9	0	−0·9	0	0·45	−0·45	52·19	51·73	+ 0·46	0	Simla.
																72*		·153*		0·6	−0·5	0	−0·7	0	0·36	−0·36	49·58	40·70	+ 8·88	0	Sarain.
																															Kalabagh.
6	1	14	6	0	0	1	0	2	N 52° E	N 34° E	6·1	3·9	+2·2	56	+19	41	−10	·153	−·028	0·5	−0·6	0	−0·7	0	0·43	−0·43	57·39	58·05	− 0·66	0	Chakrata.
6	0	2	6	7	3	1	5	0	S 43° E		4·4			33		28†	−19	·101†	−·063	0·7	−0·6	0	−0·2	0	0·21	−0·21	59·52	42·20	+17·32	0	Mukteswar.
30	0	0	0	0	0	0	0	0	Calm	N 87° E	0	2·0	−2·0	(a)		80	+ 3	·271	+·009	3·7	+0·4	0	−0·8	0·05	0·29	−0·24	125·35	113·72	+11·63	0·04	Darjiling.
20	0	2	2	2	1	1	2	0	S 51° E		0·8			10		79	+ 4	·371	+·032	2·8	+0·9	3	+0·2	4·96	1·46	+3·50	84·86	76·51	+ 8·35	3·51	Shillong.
7	1	6	7	2	0	1	4	2	N 55° E		3·0			27		72	+ 2	·392	+·019	3·5	+1·3	3	+1·3	10·71	2·61	+8·10	427·98 (c)	364·81	+63·17	7·82	Cherrapunji.
7	6	5	3	1	1	1	2	4	N 11° E		4·5			33		79		·424		3·0		1		0·47			47·95			0·47	Natarhat.
26	0	0	0	2	1	1	0	0	S 13° E		1·4			10		92	+ 3	·494	−·020	2·5	−1·6	10	+4·9	5·55	3·04	+2·51	55·09	53·51	+ 1·58	1·53	Maymyo.
7	1	2	12	5	2	0	0	1	S 81° E	N 82° E	1·7	2·0	−0·3	53	+35	74	+19	·436	+·100	2·3	+0·8	1	+0·1	1·00	0·52	+0·48	103·34	72·89	+30·45	1·00	Pachmarhi.
18	0	5	0	1	2	1	1	2	N 38° E	N 27° E	2·2	3·2	−1·0	3	−24	43	+ 3	·261	0	0	−1·0	0	−0·2	0	0·22	−0·22	86·25	59·72	+26·53	0	Mount Abu.
7	0	7	10	0	0	2	2	0	N 73° E	N 71° E	3·1‡	3·8	−0·7	37	−33	90	+ 7	·534	+·018	6·5	+1·0	7	+2·0	3·66	2·73	+0·93	126·78	122·35	+ 4·43	1·18	Mercara.
13	0	1	1	6	5	2	1	1	S 17° E		2·3			30		76	+ 1	·348	+·013	6·0	+0·9	9	+1·0	3·22	3·79	−0·57	46·12	47·89	− 1·77	0·81	Ootacamund.
0	4	6	6	7	1	0	3	3	N 66° E		7·7			37		81	+ 1	·352	+·005	4·5	−0·7	10	−0·2	6·48	6·50	−0·02	51·55	46·17	+ 5·39	1·72	Kodaikanal.
																															Extra India.
10	10	1	1	0	1	2	0	5	N 15° W					40						6·9	+1·1	17	+3·7	14·97	8·42	+6·55	68·49	48·54	+19·95	2·76	Singapore.
0	10	18	0	2	0	0	0	0	N 34° E					82						7·4	+5·7	8	−7·4	4·97	13·06	−8·09	63·41	77·71	−14·30	1·76	Penang.
2	1	2	2	0	3	9	3	2	S 67° W	S 57° W	5·3	3·9	+1·4	46	+24	87	− 1	·795	−·054	7·0	+2·9	12	−1·5	9·65	14·41	−4·76	27·22	36·76	− 9·54	2·66	Trincomalee.
26	0	2	0	0	0	2	0	0	Calm	N 48° E	2·8	4·5	−1·7	(a)		95	+12	·780†	−·059	9·8	+4·7	13	+0·2	6·53	12·32	−5·79	73·07	58·84	+14·23	1·53	Colombo.
6	7	3	0	0	0	0	7	7	N 35° W		5·9	5·5	+0·4	56		90		·753		4·5		10		5·54	6·81	−1·27	23·87	22·34	+ 1·53	1·27	Hambantota.
0	9	3	1	0	1	3	6	7	N 38° W	N 7° W	3·2	4·5	−1·3	53	+19					3·7	−0·4	3	−3·8	0·69	5·27	−4·58	51·74	52·01	−0·27	0·44	Minicoy.
1	7	5	1	1	0	2	7	6	N 28° W		4·2			50		79	+ 4	·830	−·001	5·6	+1·0	3	−0·3	1·92	1·66	+0·26	69·64	48·90	+20·74	1·27	Amini Divi.
																															Gyantse.
																															Pharijong.
29	1	0	0	0	0	0	0	0	N		0·7			3		89	+12	·382	+·041	0·5	−1·9	0	−3·6	0	1·83	−1·83	115·65	114·13	+ 1·52	0	Gangtok.
																															Gartok.
27	1	0	1	1	0	0	0	0	N 82° E		0·6	0·7	−0·1	6	− 5					2·2	−0·4	0	0	0	0·01	−0·01	0·47	2·27	−1·80	0	Kashgar.
0	3	8	0	0	0	12	5	2	N 77° W					30	+18	76§		·163§		2·7	+0·8	0	−1·7	0	0·68	−0·68	2·60	2·54	+ 0·06	0	Kabul.
26	1	1	1	0	1	0	0	0	N 63° E		1·0			7		63‖	?	·157‖	?	4·2	+0·3	1	−0·5	0·10	0·58	−0·48	1·73	2·81	− 1·08	0·10	Meshed.
2	9	10	5	0	0	0	1	3	N 6° E	N 27° E	6·7	7·1	−0·4	66	+ 9	57	−10	·402	−·113	0	−1·5	0	−0·6	0	0·32	−0·32	0·29	0·42	− 0·13	0	Jask.
5	0	1	0	8	0	1	2	13	N 57° W	S 74° W	3·3	2·5	+0·8	20	−13	54	−12	·447	−·187	0·3	−1·2	0	−0·8	0	0·35	−0·35	1·36	0·59	+ 0·77	0	Muscat.
10	5	8	3	3	0	0	0	1	N 47° E	N 61° E	4·2	4·5	−0·3	46	−24	69	− 7	·438	−·038	3·6	+0·9	0	−2·4	0	1·56	−1·56	0	1·69	− 1·69	0	Bushire.
8	1	2	1	8	2	5	8	0	S 54° W		3·2			27		67		·432		1·7		0	−1·8	0·02	0·89	−0·87	0·03	1·62	− 1·59	0·02	Busrah.
30	0	0	0	0	0	0	0	0	Calm.	N 62° W	0·7	1·8	−1·1	(a)		65¶	?	·171¶	?	0·7		0		0·09	0·72	−0·63		1·22		0·08	Ispahan.
										N 11° E		1·6													1·05			2·23			Tehran.
										N 5° W		1·7													0·79			1·15			Baghdad.
2	9	17	1	0	0	0	0	1	N 30° E	N 76° E	11·1	9·4	+1·7	82	+ 2	74	+ 2	·655	−·044	3·5	+0·2	0	−0·3	0	0·10	−0·10	0·89	0·68	+ 0·21	0	Aden.
7	1	8	2	4	6	2	0	0	S 66° E	S 45° E	2·5	3·4	−0·9	33	− 9	77	− 5	·811	−·034	5·7	−0·4	8	−3·4	2·95	8·64	−5·69	19·81	32·12	−12·31	0·92	Zanzibar.

* Mean of 3 days.
† „ 29 „
‡ „ 27 „
§ „ 11 „
‖ „ 6 „
¶ „ 9 „

(a) Indeterminate.

(c) Rainfall since 1st August 1916.

Table C.—Abstract of observations taken at 8 hrs. at 57 fourth and fifth class stations in India, etc., in November, 1916.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry-bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	67·6	64·4	80·9	−0·7	60·1	+5·8	70·5	+2·5	20·8	85·3	18th	52·3	7th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	72·5	68·9	84·4	+0·5	57·3	−1·0	70·9	−0·3	27·1	89·0	6th	52·4	25th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	68·1	67·1	88·7	+4·5	47·9	−11·9	68·3	−3·7	40·8	95·6	1st	39·5	25th	...	...	...	...	...	...	...	...	...	...	...
	Doom-Dooma	65·5	63·2	84·5	+6·4	60·5	+4·2	72·5	+5·3	24·0	89·1	5th	55·7	9th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	66·4	64·1	81·2	+0·1	59·7	+3·9	70·5	+2·0	21·5	84·4	6th & 17th.	54·0	24th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	66·4	65·2	78·5	+0·6	59·0	...	68·7	...	19·5	83·0	9th	54·2	24th, 25th & 26th.	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	70·2	68·5	85·7	+0·7	63·4	+1·7	74·5	+1·2	22·3	90·4	2nd & 3rd	56·8	4 days	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	66·7	65·3	79·8	−1·7	64·1	+4·4	71·9	+1·3	15·7	90·1	17th	54·8	26th	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	66·7	66·0	80·1	...	62·0†	...	71·0†	...	18·1	83·7	3rd & 4th	55·0	26th	...	...	...	...	...	...	...	...	...	...	...
	Messa	69·3	63·8	86·0	−1·4	60·3	+4·3	73·1	+1·5	25·7	91·6	6th	53·9	26th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	61·6*	60·2	82·1	+0·3	58·9	+2·3	70·5	+1·3	23·2	89·6	1st	52·8	9th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	77·8	72·5	86·4	+1·2	68·6	+5·1	77·5	+3·1	17·8	91·0	9th	59·7	27th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	73·2	68·1	83·6	−1·2	62·9	+1·1	73·3	−0·1	20·7	91·1	2nd	55·1	24, 27 & 30th.	...	...	...	...	...	...	...	...	...	...	...
	Pabna	72·5	68·0	84·2	−3·9	65·9	+4·1	75·1	+0·1	18·3	89·2	2nd	57·7	29th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur-Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam-Dim	61·7	60·4	87·1	0	55·3	+1·8	71·2	+0·9	31·8	89·9	1st & 2nd	49·8	30th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	74·5	69·0	83·9	−0·1	58·9	+2·6	71·4	+1·3	25·0	88·1	9th	53·0	30th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	74·4	67.2	84·6	+0·2	59·9	+0·6	72·3	+0·4	24·7	90·1	1st	56·0	25th & 30th.	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 29 days.
† „ „ 28 „

C.

and fifth class stations in India, etc., in November, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	83	− 6	·561	+·025	...	...	3	+1·5	0·89	0·52	+0·37	76·00	76·81	−0·89	0·45	Bishnath.
...	...	...	...	...	83	+ 2	·661	+·086	...	...	3	+1·0	0·99	0·67	+ 0·32	74·22	69·29	+4·93	0·49	Borjuli.
...	...	...	...	...	95	0	·661	+·055	...	...	1	−0·3	2·39	1·42	+ 0·97	79·39	88·45	−9·06	2·32	Chandkhira.
...	...	...	...	...	88	− 5	·553	+·018	...	...	2	+1·0	0·61	0·46	+ 0·15	75·31	75·58	−0·27	0·35	Doom Dooma.
...	...	...	...	...	88	− 1	·568	+·049	...	...	4	+3·0	0·75	0·46	+ 0·29	90·24	81·84	+8·40	0·42	Dikom.
...	...	...	...	...	93	+2	·604	+·015	...	...	3	+2·2	0·53	0·35	+ 0·18	65·56	54·20	+11·36	0·23	Golagbat.
...	...	...	...	...	92	− 1	·682	+·084	...	...	1	−0·2	0·95	1·21	− 0·26	90·13	98·93	−8·80	0·95	Hailakandi.
...	...	...	...	...	93	− 1	·611	+·032	...	...	3	+1·3	0·75	0·42	+ 0·33	61·01	63·16	−2·15	0·22	Jorehat.
...	...	...	...	...	96	...	·631	...	...	...	2	+0·4	0·49	1·38	− 0·89	41·28	41·56	−0·28	0·27	Lumding.
...	...	...	...	...	73	− 7	·522	−·095	...	...	5	+4·0	1·62	0·32	+ 1·30	74·03	74·89	−0·86	0·65	Mesia.
...	...	...	...	...	93	0	·507	+·041	...	...	0	−1·5	0·19	0·48	− 0·29	63·92	63·14	+0·78	0·07	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	1	−0·4	0·31	1·15	− 0·84	68·86	77·73	−8·87	0·19	Comilla.
...	...	...	...	...	76	− 4	·730	+·047	...	...	2	+1·3	0·99	0·56	+ 0·43	61·21	68·42	−7·21	0·63	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	1	−0·3	0·38	1·23	− 0·85	66·66	61·05	+5·61	0·33	Faridpur.
...	...	...	...	...	76	− 3	·625	+·002	...	...	1	+0·7	0·24	0·51	− 0·27	74·08	58·41	+15·67	0·24	Goalundo.
...	...	...	...	...	78	0	·620	+·015	...	...	1	+0·5	0·99	0·49	+ 0·50	70·18	54·06	+16·12	0·98	Pabna.
...	...	...	...	...	...	...	...	...	...	...	1	+0·4	4·35	0·50	+ 3·85	67·90	58·38	+9·52	4·28	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	1	+0·4	2·09	0·45	+ 1·64	86·01	49·92	+36·09	2·01	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	2	+1·5	0·48	0·24	+ 0·24	70·85	49·37	+21·48	0·25	Malda.
...	...	...	...	...	...	...	...	...	...	...	1	+0·8	0·22	0·11	+ 0·11	83·39	75·16	+8·23	0·21	Rangpur.
...	...	...	...	...	93	0	·513	−·015	...	...	0	−0·5	0	0·09	− 0·09	154·63	145·09	+9·54	0	Dam Dim.
...	...	...	...	...	74	− 1	·641	+·025	...	...	2	+1·0	0·59	0·34	+ 0·25	172·21	141·50	+30·71	0·42	Kalchini.
...	...	...	...	...	68	− 5	·572	+·041	...	...	0	−1·2	0·04	0·27	− 0·23	143·41	150·61	−7·20	0·04	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	−0·3	0·03	0·08	− 0·05	174·91	137·85	+37·06	0·03	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	2	+0·9	1·95	1·02	+ 0·93	59·69	51·41	+8·28	1·80	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	3	+2·0	2·70	0·51	+ 2·19	69·99	50·34	+19·65	1·86	Bankura.
...	...	...	...	...	...	...	...	...	...	...	2	+1·4	1·28	0·46	+ 0·82	60·49	48·52	+11·97	0·60	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	1	+0·3	0·14	0·25	−0·11	55·35	48·64	+6·71	0·14	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	−0·3	0·01	0·12	−0·11	47·28	46·27	+1·01	0·01	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	−0·3	0	0·16	−0·16	55·84	47·02	+8·82	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	−0·2	0	0·20	−0·20	52·22	53·67	−1·45	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·23	−0·23	74·18	39·75	+34·43	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·16	−0·16	49·95	41·89	+8·06	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	−0·5	0	0·35	−0·35	46·13	39·86	+6·27	0	Dehri.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry-bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	61·3	59·3	80·5	...	56·4	...	68·4	...	24·1	84·5	2nd	43·9	22nd	29	0	1	0	0	0	0	0	0	N 45° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	71·6	70·8	85·8	...	68·1	...	77·0	...	17·7	90·1	6th	63·6	17th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	75·6	73·5	85·6	...	71·4	...	78·5	...	14·2	89·6	19th	66·7	22nd	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
12	Jammu	57·3	49·4	77·1	...	54·1	...	65·6	...	23·0	84·1	1st	47·1	27th	0	14	14	0	0	0	0	0	2	N 20° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	34·3	32·9*	53·9	...	18·3	...	36·1	...	35·6	65·7	1st	9·2	28th	0	4	7	4	5	4	0	2	4	N 63° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	69·9	62·3	81·8	−0·5	61·3	+0·6	71·5	+0·1	20·5	86·7	10th	56·0	30th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	63·3	59·7	66·8	+0·9	53·7	+0·4	60·3	+0·7	13·1	72·1	7th	49·4	28th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	59·9	+1·8	34·2	−0·3	47·0	+0·7	25·7	66·3	1st	29·9	26th	14	0	1	4	4	1	5	0	1	S 27° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	60·7	−8·2	20·9	−10·7	40·8	−9·5	39·8	72·7	1st	9·0	27th	...	...	...	...	...	...	...	...	...	...	...

* Mean of 4 days.

C—*continued.*

and fifth class stations in India, etc., in November, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·12	− 0·12	44·14	28·80	+15·34	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·7	0	0·30	− 0·30	92·12	78·07	+14·05	0	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·1	0	0·02	− 0·02	30·95	22·73	+ 8·22	0	Udaipur.
																				XII.—Central Provinces.
1·0	...	...	3	...	73	...	·453	...	3·9	...	3	...	1·26	...	...	54·51	...	...	0·85	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	4	+ 3·2	1·06	0·49	+ 0·57	42·94	30·85	+12·09	0·33	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	8	− 1·1	4·11	6·73	− 2·62	15·62	17·69	− 2·07	1·03	Tinnevelly.
...	...	...	...	...	83	...	·703	...	5·8	...	4	+ 1·6	1·02	1·38	− 0·36	29·89	19·40	+10·49	0·30	Anantapur.
...	...	...	...	...	90	...	·796	...	1·4	...	7	+ 3·8	8·59	2·49	+ 6·10	50·19	30 32	+19·87	3·54	Guntur.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	3	−10·1	5·85	11·83	− 5·98	101·40	81·56	+19·84	3·70	Car Nicobar.
																				Kashmir.
...	...	...	90	...	55	...	·259	...	0·9	...	0	− 0·3	0·01	0·08	− 0·07	51·86	31·96	+19·90	0·01	Jammu.
...	...	...	...	...	...	...	...	...	...	...	3	+ 1·2	0·71	1·18	− 0·47	17·17	23·98	− 6·81	0·26	Sonamarg.
...	...	...	30	...	43*	...	·105*	...	3·4	...	0	− 0·7	0·01	0·20	− 0·19	1·64	3·27	− 1·63	0·01	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·6	0	0·30	− 0·30	11·24	6·87	+ 4·37	0	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	63	+ 9	·461	− ·005	...	...	0	− 0·3	0	0·07	− 0·07	154·79	130·47	+24·32	0	Panighatta.
...	...	...	...	...	97	+19	·510	+ ·154	...	...	0	− 0·2	0	0·07	− 0·07	176·16	144·64	+31·52	0	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	3	...	0·39	...	...	48·04	...	...	0·10	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·6	0	0·33	− 0·33	125·06	83·01	+41·05	0	Mussoorie.
...	...	...	23	...	...	...	...	...	0·7	...	0	− 0·7	0	0·21	− 0·21	3·13	3·72	− 0·54	0	Poo.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·9	0	0·37	− 0·37	4·28†	9·40	− 5·12	0	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·11	− 0·11	1·20	0·61	+ 0·59	0	Pishin.

* Mean of 4 days.

† Rainfall since 1st June 1916.

Table

Abstract of observations taken at 8 hrs. at 57 fourth and

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry-bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi*	29·7	32·5‡	57·6	...	26·4	...	42·0	...	31·2	61·0	6th	23·3	19th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kerman †	...	...	65·6	...	24·4	...	45·0	...	41·2	79·2	1st	9·8	25th	...	...	...	...	...	...	...	...	...	...	...

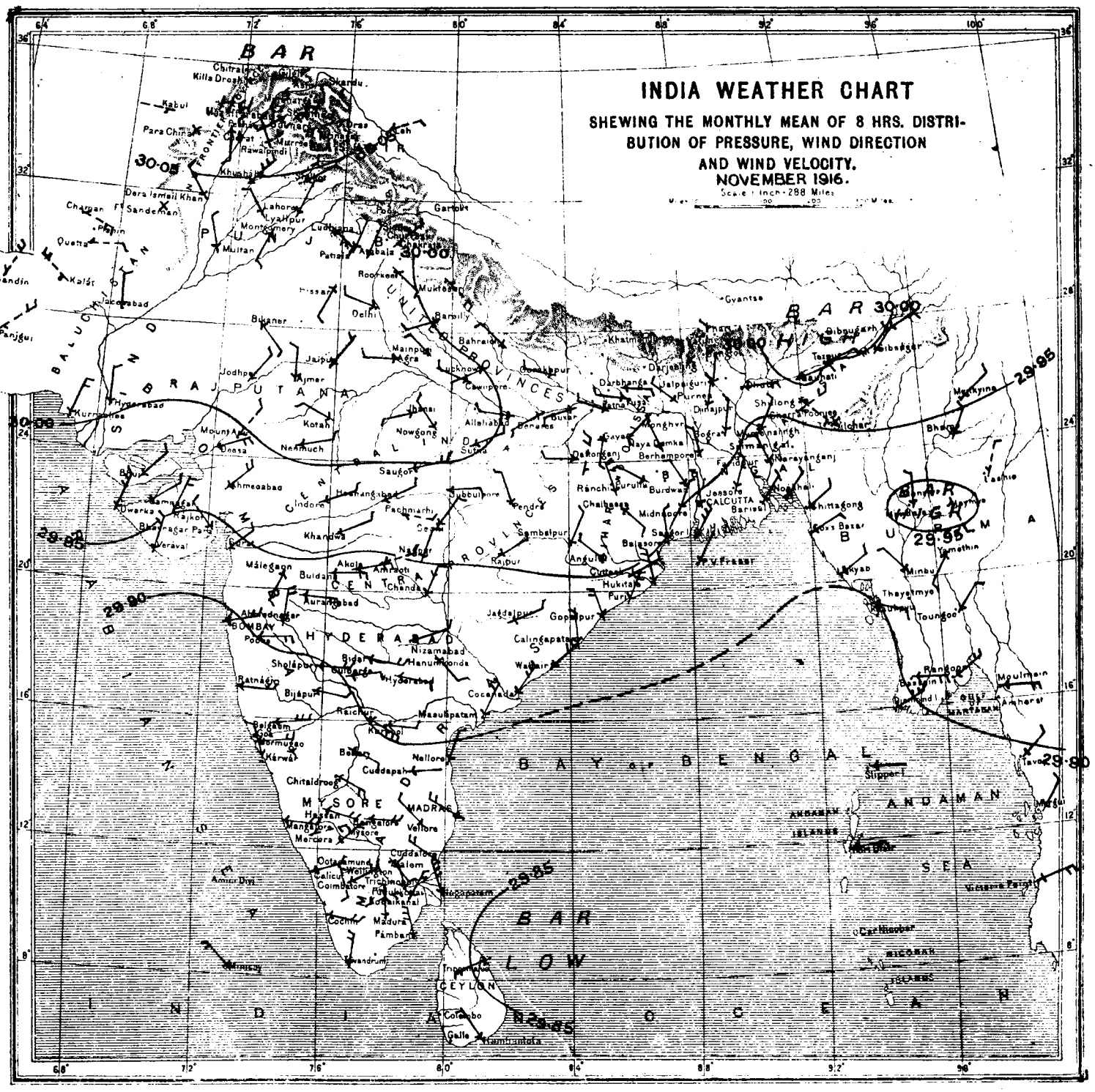
*Mean of 28 days.
† „ 25 „
‡ „ 4 „

C—*concluded.*

fifth class stations in India, etc., in November, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	89*	...	·173*	...	0·1	...	0	...	0	...	...	21·33	...	...	0	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	11	−0·9	6·80	8·73	−1·93	28·73†	41·78	−13·05	2·27	Pemba.
...	...	...	...	...	...	...	...	...	1·6	...	0	...	0	...	...	0‡	...	...	0	Kerman.

* Mean of 4 days.
† Rainfall for July wanting.
‡ Rainfall since 15th August, 1916.



The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	..	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.

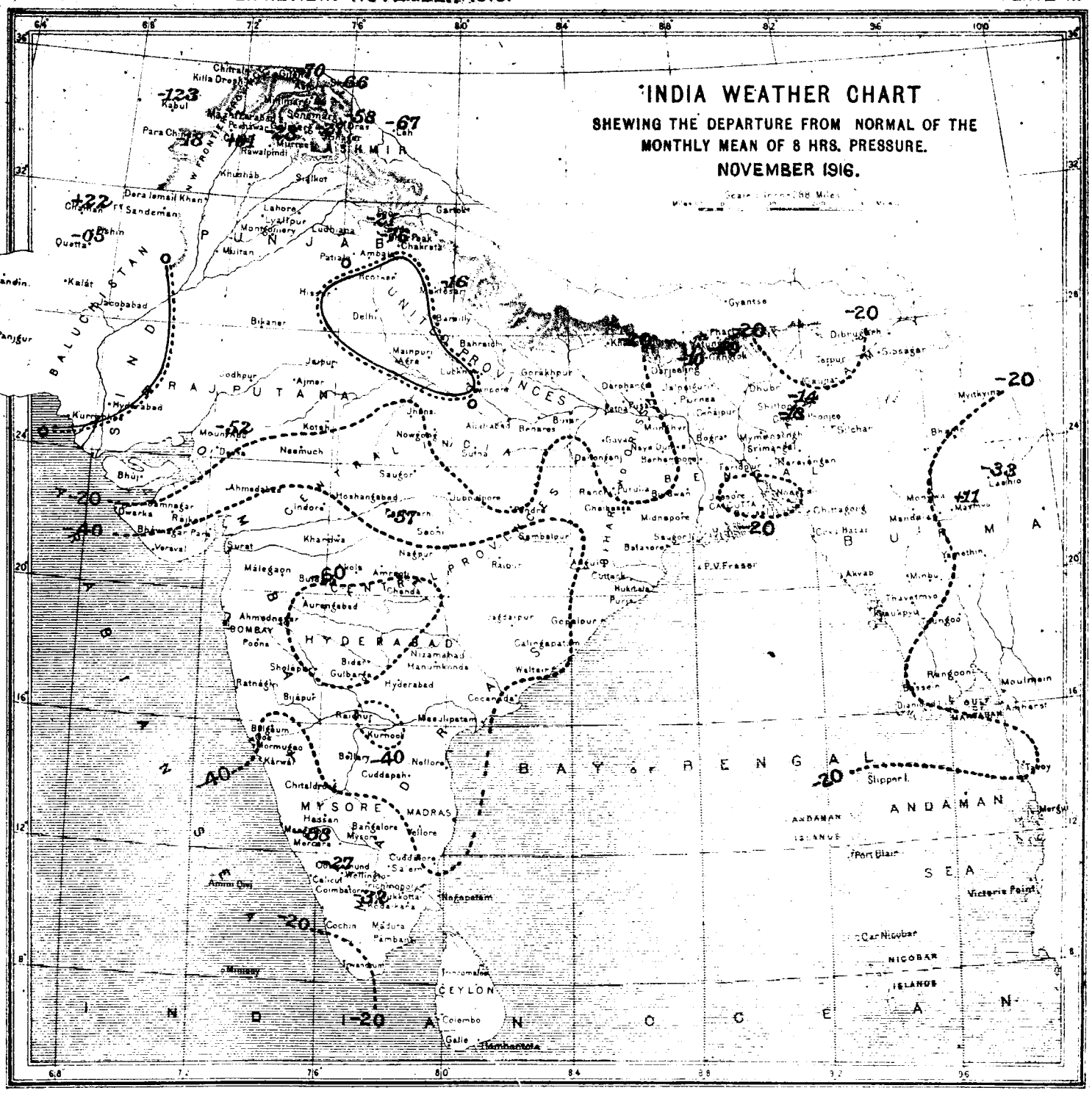

INDIA WEATHER CHART
SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF 8 HRS. PRESSURE.
NOVEMBER 1916.
KASHMIR
PUNJAB
BALUCHISTAN
SINDH
RAJPUTANA
UNITED PROVINCES
BIHAR
BENGAL
BURMA
CENTRAL PROVINCES
BOMBAY
HYDERABAD
MADRAS
MYSORE
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
CEYLON
ANDAMAN ISLANDS
NICOBAR ISLANDS
Kabul
Peshawar
Rawalpindi
Lahore
Quetta
Kalat
Jacobabad
Bikaner
Delhi
Jodhpur
Ajmer
Kurrachee
Bhuj
Ahmedabad
Indore
Surat
Nagpur
Raipur
Poona
Bombay
Hyderabad
Bangalore
Madras
Calcutta
Rangoon
Moulmein
Port Blair
Colombo
Galle
Hambantota
Trincomalee
Madura
Cocanada
Masulipatam
Bellary
Cuddapah
Nellore
Vellore
Salem
Coimbatore
Calicut
Cochin
Pamban
Negapatam
Victoria Point
Car Nicobar
Akyab
Lashio
Myitkyina
Dibrugarh
Darjeeling
Gyantse
Leh
Gilgit
Chitral
Kohat
Multan
Sukkur
Jhansi
Allahabad
Benares
Patna
Gaya
Bhagalpur
Berhampore
Midnapore
Balasore
Cuttack
Vizagapatam
Calingapatam
Waltair
Kurnool
Mangalore
Mysore
Hassan
Ootacamund
Wellington
Trichinopoly
Tuticorin
Mandalay
Maymyo
Bhamo
Myitkyina
Sibsagar
Tezpur
Shillong
Chittagong
Cox's Bazar
Akyab
Minbu
Thayetmyo
Prome
Toungoo
Tavoy
Mergui
Amherst
Slipper I.
P.V. Fraser
-123
-70
-66
-58
-67
-18
-25
-22
-05
-16
-20
-14
-18
-52
-57
-40
-60
-33
-11
-27
-32
-20
-40
-20
-20
-20

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

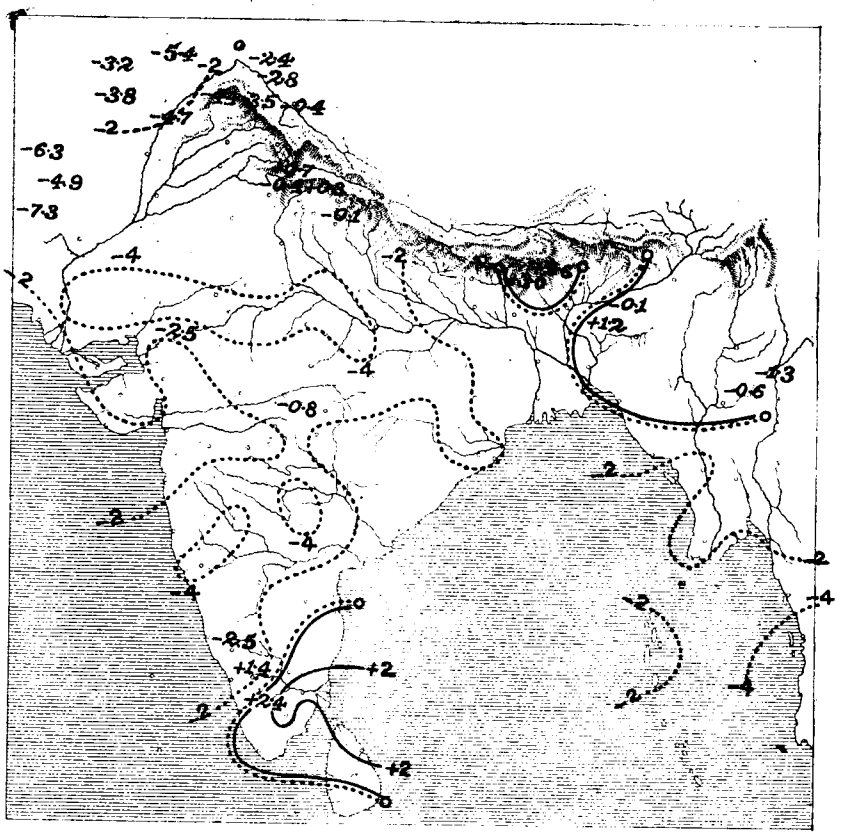


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

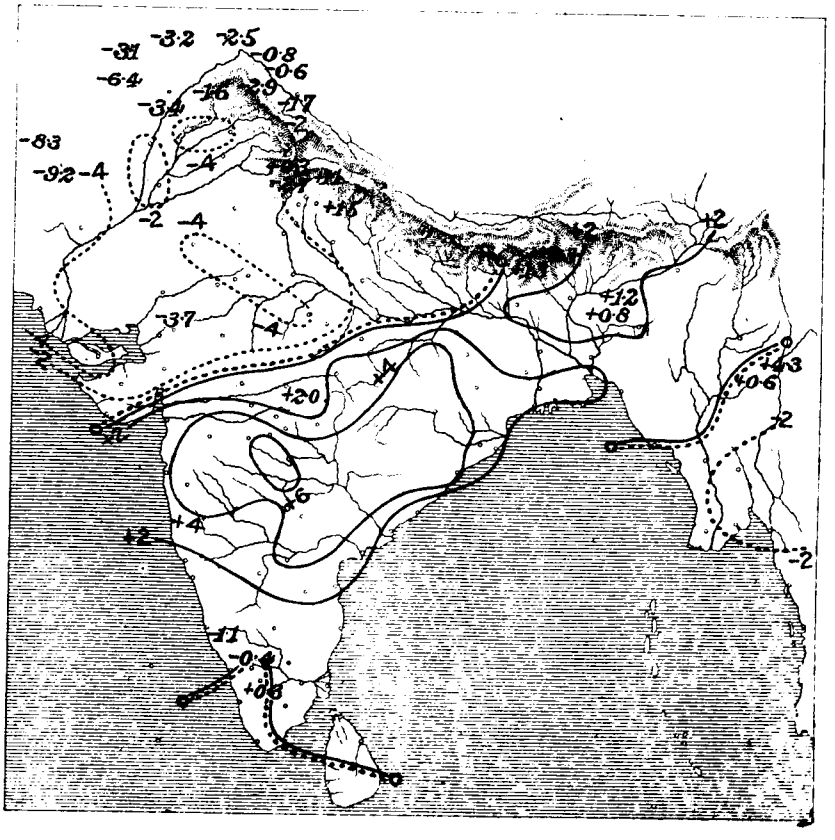


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

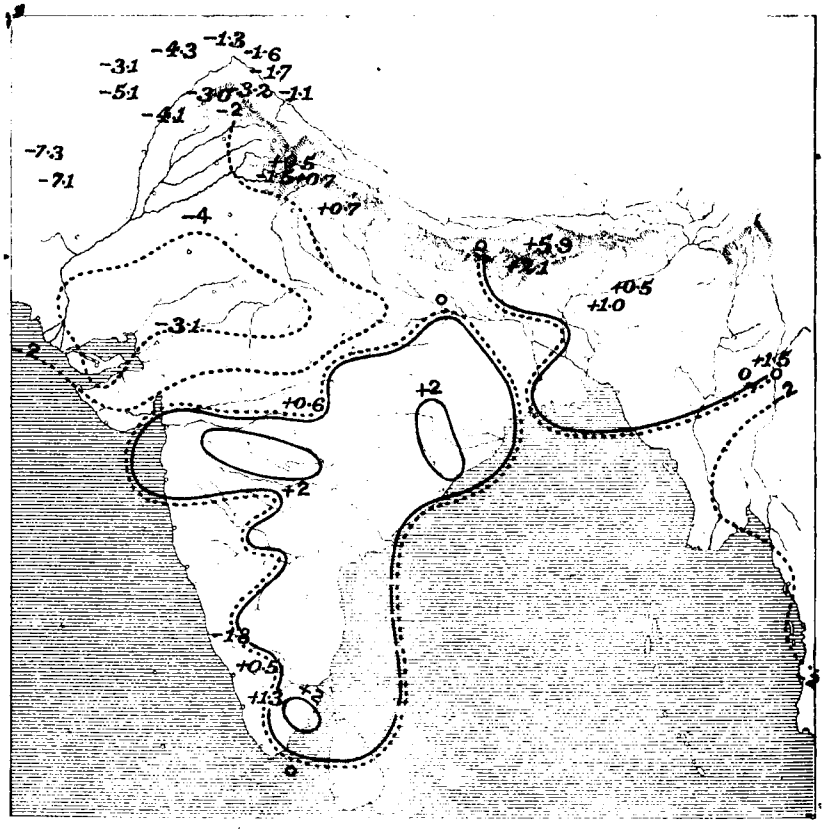


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

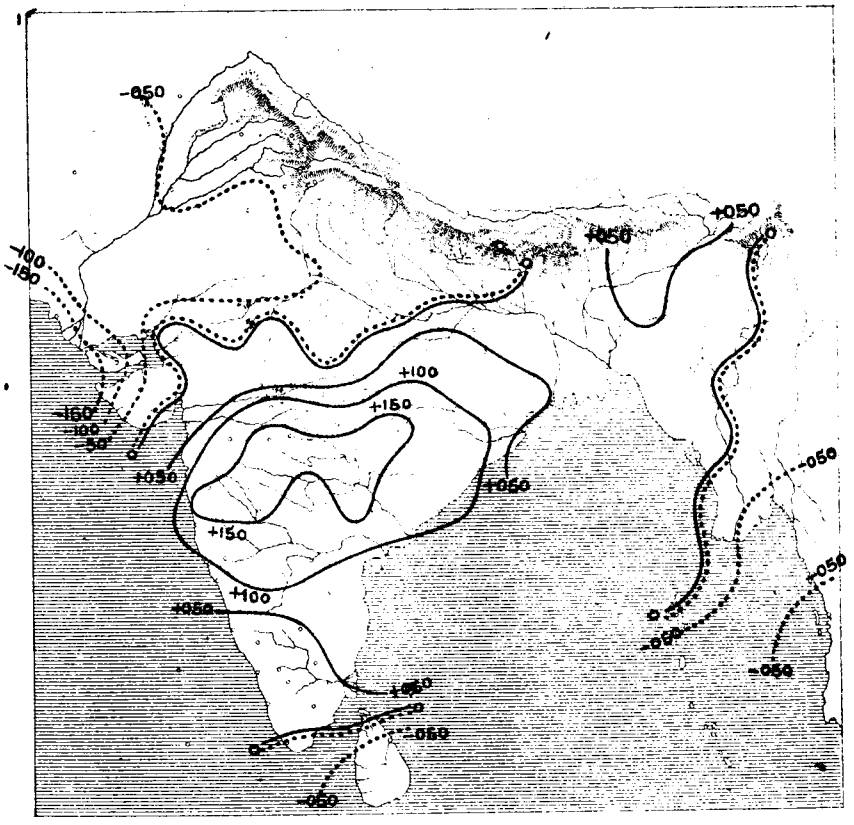


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

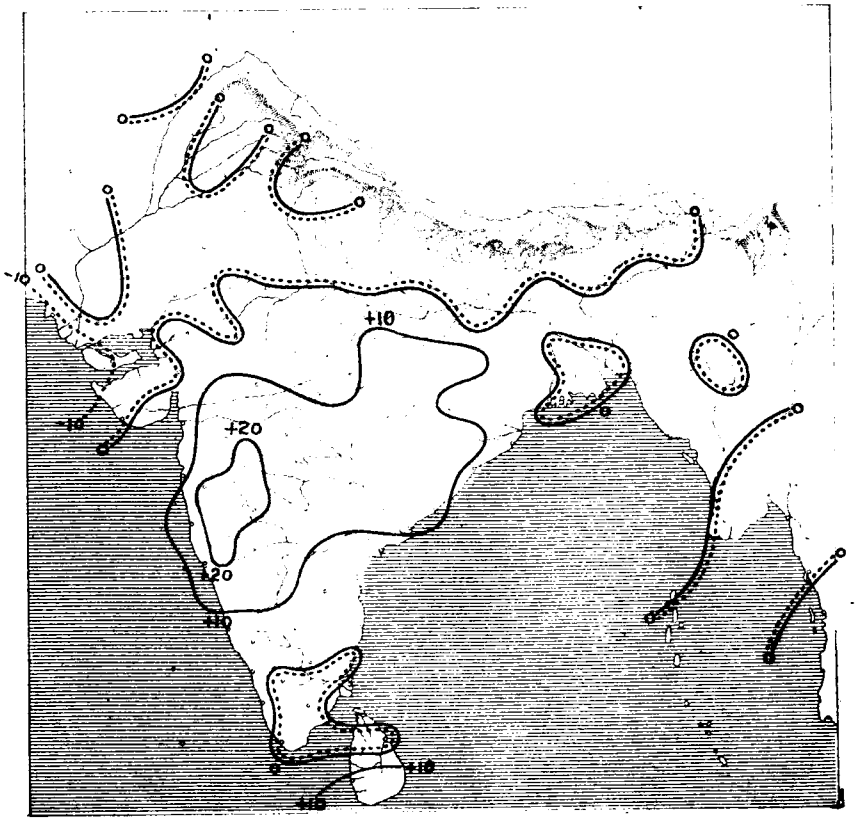


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

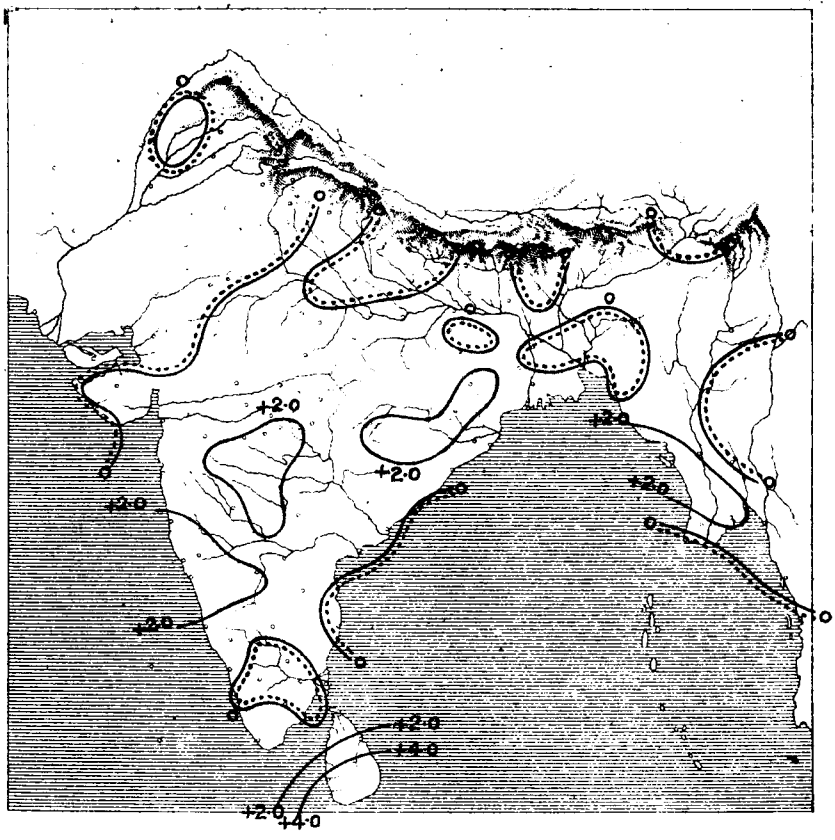
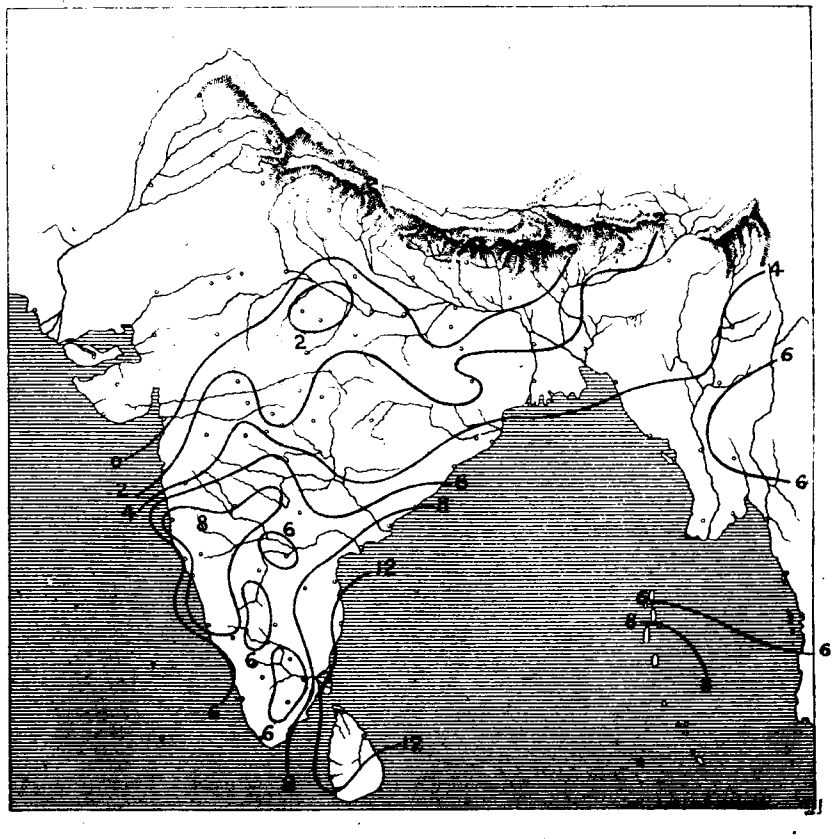
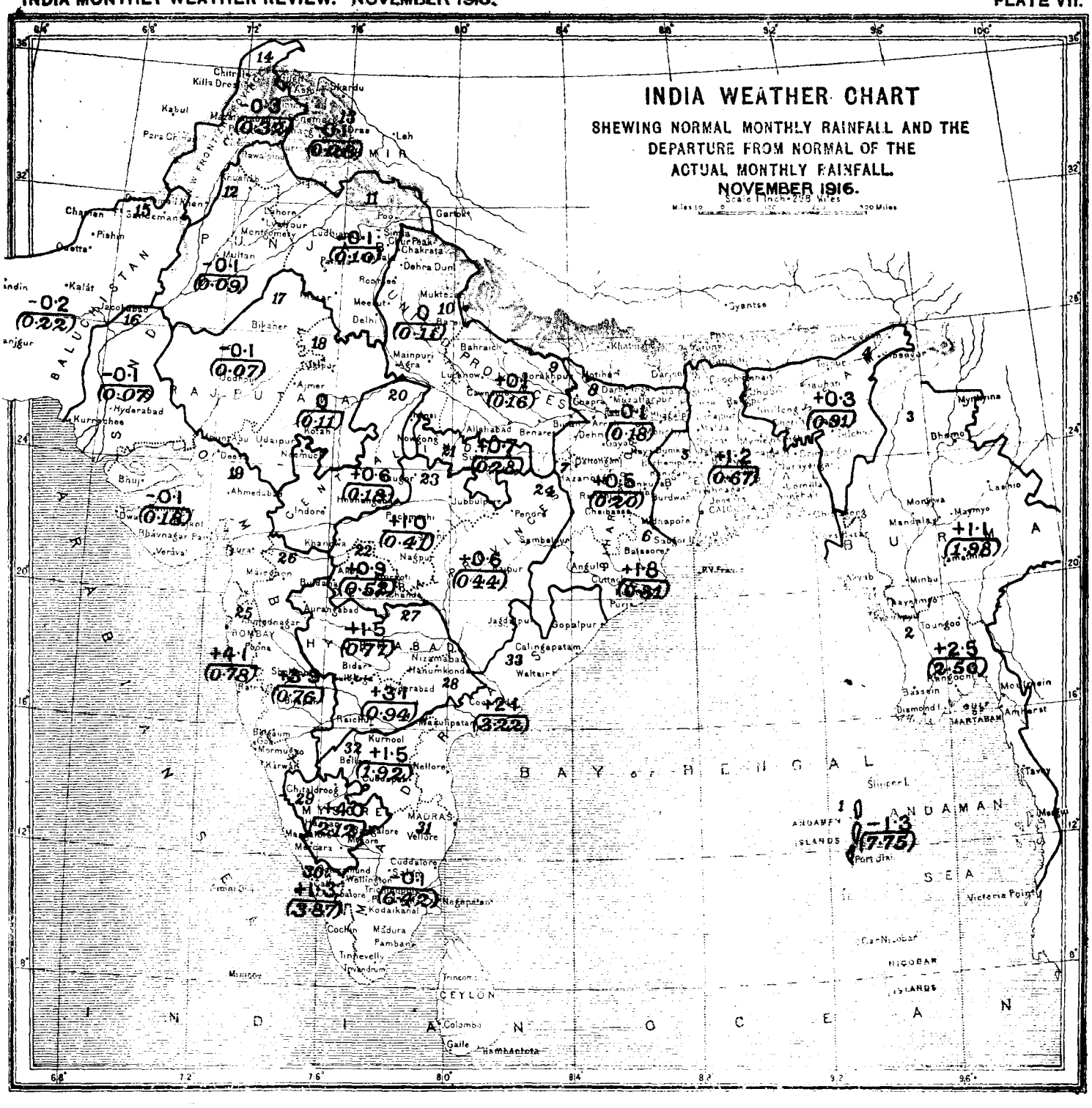


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

AUG 14 1919
Weather

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, DECEMBER, 1916.

INTRODUCTION.

THIS review of the weather in India during the month of December, 1916, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and the rainfall statements of the month published by the Provincial Governments. The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. Weather was unusually quiet and rainfall was either entirely wanting or lighter than usual over the whole Indian area, with the exception of Burma, where the recorded quantity was 60 per cent. in excess of the normal. As the normal fall in December is small in amount over by far the greater part of the country, the defect in the month under review was small in absolute amount except in Kashmir (1·7″), Baluchistan (0·7″) and Madras (1·5″).

Of climatic elements other than rainfall, temperature and humidity differed to no important extent from the normal. The quantity of cloud was excessive in Burma and Assam, but in almost all other parts of the country the sky was unusually clear.

Barometric pressure averaged over the plains was ·039″ below normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun could not be observed at all on three days and prominences could not be recorded on one other day.

Sunspots.—The number of new spots observed amounted to 31, which is the highest number recorded in any month since the beginning of the present cycle. The mean daily number was 5·0 and the average life of a spot 4·8 days, a slightly greater number but shorter average life than in November. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North .	5	8	3	14°·2	6° & 25°
South .	0	8	7	18°·5	13° & 23°

Prominences.—Ninety-nine large, two eruptive, and fourteen metallic prominences were recorded during the month. Four prominences showing metallic lines were observed on the 10th. Three of these were within 5° of each other and probably had their origin in the same disturbance. The highest prominence reached 280″ on the west limb on the 14th.

Magnetic disturbances.—"Moderate" disturbances were recorded on eight days.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2{,}343$ m. Subsoil Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	18·0	1	2·5
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
		h. m. s.						
1916. Dec. 1st	e P	21 46 00	...	...	...	...	...	Widening of line.
	F	21 57 24	...	...	...	...	...	
„ 2nd	e P	13 11 54	...	...	...	...	...	
	e L	13 14 24	...	...	...	...	...	
	M	13 17 30	...	...	30	...	...	
	F	13 24 06	...	...	...	...	...	
„ 3rd	P	...	...	...	...	...	...	No preliminary tremors.
	i L	8 47 24	...	...	...	...	...	
	M	8 47 24	...	...	40	...	...	
	F	8 51 30	...	...	...	...	...	
„ 5th	e P	21 44 30	...	...	...	...	...	Widening of line.
	F	21 56 24	...	...	...	...	...	
„ 9th	e P	0 44 30	...	...	...	...	...	Do.
	F	0 48 36	...	...	...	...	...	
„ 14th	e P	17 41 00	...	...	...	...	...	Do.
	F	18 08 00	...	...	...	...	...	
„ 23rd	e P	10 05 42	...	...	...	...	...	
1916. Dec. 23rd	e L	10 43 00	...	...	...	...	...	
	M	10 55 42	...	...	60	...	...	
	F	11 29 30	...	...	...	...	...	
„ 24th	P	...	...	...	...	...	...	No preliminary tremors.
	e L	8 03 24	...	...	...	...	...	
	M	8 04 54	...	...	50	...	...	
	F	8 12 24	...	...	...	...	...	
„ 26th	e P	4 08 06	...	...	...	...	...	Widening of line.
	F	4 38 06	...	...	...	...	...	
„ 26th	e P	20 34 18	...	...	...	...	...	Do.
	F	21 05 06	...	...	...	...	...	
„ 27th	e P	22 03 36	...	...	...	...	...	Do.
	F	22 29 00	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of December 1916 the traces showed 10 calm days, and 21 days of small disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 6th, 10th, 11th, 22nd and 23rd.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character
1	S	9	S	17	S	25	S
2	S	10	C	18	S	26	S
3	S	11	C	19	C	27	S
4	S	12	S	20	C	28	S
5	C	13	S	21	C	29	S
6	C	14	S	22	C	30	S
7	C	15	S	23	C	31	S
8	S	16	S	24	S	...	...

C.=calm ; S.=small ; M.=moderate ; G.=great ; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows :—

Easterly declination	0° 35′ 1″.
Horizontal force	0·36867 C.G.S. unit.
Vertical force	0·16836 C.G.S. „
Inclination	24° 32′·6.
Horizontal force range	0·00034 C.G.S. unit.
Horizontal force summed range	0·00217 C.G.S. „
Declination range	1′·5.
Declination summed range	7′·8.

(NOTE.—Summed range means sum without regard to sign of twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m. Subsoil Trap.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^3}$
AN :				
AE :	9	21	1	
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (s) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1916.		h. m. s.						
Dec. 3rd	...	8 44 00 to 47 m.	...	...	...	...	...	Thickening of line.
„ 5th	...	21 48 00 to 52 m.	...	...	...	...	...	Do.
„ 14th	P	17 36 30	...	...	...	...	...	
	M	17 44 12	...	...	22	...	...	
	F	17 55 42	...	...	...	...	...	
„ 22nd	...	19 42 00	...	...	...	...	...	Thickening of line.
„ 23rd	P	9 57 52	...	...	...	...	...	
	M	10 51 21	...	...	78	...	...	
	F	11 28 21	...	...	...	...	...	
„ 24th	...	7 31 00	...	...	...	...	...	Thickening of line.
	P	8 00 12	...	...	...	...	...	
	M	8 01 24	...	...	67	...	...	
	F	8 05 01	...	...	...	...	...	

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·32″.

One disturbance at about 25 d. 23½ h. and another at 26 d. 20¼ h. are marked by tremors.

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5.—ALIPORE (CALCUTTA) OBSERVATORY.

Seismic records.

$\phi = 22° 32'$ N ; $\lambda = 88° 20'$ E ; $h = 21$ M. Subsoil Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^3}$
AN :	29	20	1	
AE :	29	40	1	
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (s). An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1916.		h. m. s.						
Dec. 3rd	P	8 39 42	2·5	...	...	...	...	
	S	8 42 30	4·5	...	...	...	...	
	F	9 16 30	...	...	...	...	...	
„ 10th	P	23 49 36	...	...	...	...	...	Tremors.
	F	0 8 30	...	...	...	...	...	
„ 15th	P	21 59 48	...	...	...	...	...	Tremors. Particulars are given from N.-S. instr. only.
	F	22 23 48	...	...	...	...	...	
„ 16th	P	5 21 18	...	...	...	...	...	Ditto.
	F	5 37 48	...	...	...	...	...	
„ 23rd	P	9 44 24	...	...	...	...	...	Tremors.
	F	10 18 42	...	...	...	...	...	
„ 24th	P	7 55 42	3	...	...	...	...	
	S	7 57 30	5?	...	...	...	...	
	F	8 37 30	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

The following table contains a list of earthquakes that were reported :—

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.		Duration.	Intensity Rossi-Forel scale.	Number of shocks.	REMARKS.
		h.	m.	sec.			
Kabul (Afghanistan)	Nov. 2nd	7	24	20	4	3	
Drosh . . .	„ 13th	6	50	3	6	1	
„ . . .	„ 14th	13	00	3	6	1	
Shillong . .	„ 25th	22	30	1	5	1	
Kabul (Afghanistan)	„ 30th	6	37	60	5	Several shocks.	
Drosh . .	„ 30th	7	00	45	8	6	
„ . .	Dec. 1st	2	48	3	5	1	
„ . .	„ 1st	14	10	30	7	4	
Kabul (Afghanistan)	„ 1st	15	4	20	3	3	
Shillong . .	„ 2nd	11	12	1	5	1	
Mukteswar . .	„ 3rd	8	27	90	5	1	
Drosh . . .	„ 6th	17	25	5	6	1	
Mukteswar . .	Dec. 16th	9	43	9	2	1	
Drosh . . .	„ 19th	22	30	3	6	1	
Mukteswar . .	„ 24th	7	52	60	6	2	
Bareilly . .	„ 24th	7	58	?	3	1	
Mukteswar . .	„ 25th	23	25	15	5	1	
Drosh . . .	„ 27th	10	25	6	7	2	
„ . . .	„ 27th	16	30	5	7	1	
„ . . .	„ 27th	16	36	3	6	1	

GILBERT T. WALKER,

Director-General of Observatories.

Solar radiation.—Observations not recorded owing to the absence of officers on war service.

The Simla Seismograph notes will appear in a future number of this Review.

Weather in the Indian Ocean.

7. In the Indian Ocean, as represented by Mauritius, Zanzibar and Seychelles barometric pressure was low and rainfall markedly in defect. Winds differed greatly from their normal directions at Seychelles and Zanzibar.

TABLE 7.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·012	—·036	—·042
Actual mean wind direction . .	N 85° E	N 37° E	N 58° E
Normal mean wind direction . .	S 88° E	N 85° E	N 44° W
Actual mean wind velocity (miles per diem).	135	103	86
Normal mean wind velocity (miles per diem).	166	110	109
Rainfall departure from normal . .	—2·22	—2·62	—4·26

Depressions and cyclonic storms.

8. An unusually large number of disturbances appeared in Persia and were thence transmitted eastwards. Of these only one gave rise to important precipitation in northern India. This entered Baluchistan from Persia on the 14th and after passing through the Punjab and the United Provinces disappeared in north-east India during the 18th. Barometrically it was shallow, but under its influence fairly widespread precipitation occurred on the North-West Frontier between the 14th and the 17th.

Conditions were unsettled over the south-east of the Bay of Bengal between the 23rd and the 29th, but they failed to concentrate into a definite disturbance.

Pressure.

9. Barometric pressure for the month was below the normal everywhere. The defect in the plains was more than ·04″ in amount generally in Burma, north-east Assam, Central India, Berar, the Bombay Deccan and north-west India, and was most marked in the North West Frontier Province where it averaged ·07″.

In Kashmir and Baluchistan the defect was appreciably less than in the adjoining plains, so that the vertical gradient was not as steep as usual. Opposite conditions obtained in the Central Provinces. In Bengal, the United Provinces, Rajputana and the south of the Peninsula vertical gradients closely approached their normal values.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·047
Assam	—·031
Bengal	—·037
Bihar and Orissa	—·033
United Provinces	—·035
Punjab	—·046
North-West Frontier Province	—·074
Sind	—·048
Rajputana	—·044
Bombay	—·039
Central India	—·045
Central Provinces	—·038
Hyderabad	—·028
Mysore	—·024
Madras	—·027

TABLE 9.

HILL STATION.	Departure from normal pressure—A.	PLAIN STATION.	Departure from normal pressure—B.	Departure of pressure difference—B—A.
	″		″	″
Quetta	—·023	Jacobabad	—·047	—·024
Leh	—·014	Lahore	—·047	—·033
Murree	—·038	Peshawar	—·073	—·035
Simla	—·043	Ludhiana	—·041	+·002
Mukteswar	—·051	Roorkee	—·033	+·018
Darjiling	—·043	Dhubri	—·032	+·011
Mount Abu	—·013	Deesa	—·037	+·006
Pachmarhi	—·064	Khandwa	—·040	+·024
Kodaikanal	—·042	Madura	—·038	+·004

Temperature.

10. Minimum temperature was appreciably lower than usual in Rajputana, north Gujarat and the south-west of the United Provinces, but elsewhere temperature conditions were on the mean of the month practically normal.

An interesting feature was the frequent inversion at night of the normal temperature relations between the hills and plains of the extreme north, with the result that on the mean of the month Murree was 4½° warmer at night than Rawalpindi, and Cherat 5½° warmer than Peshawar.

TABLE 10.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	82·9	75·2	79·1	7·7	—1·9	—1·3	—0·6
2. Lower Burma	83·0	65·6	74·3	17·4	—1·9	—1·5	—0·4
3. Upper Burma	76·9	55·8	66·4	21·1	—2·2	+0·3	—2·5
4. Assam	74·3	53·2	63·7	21·1	—1·1	+0·3	—1·4

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
5. Bengal	76·5	55·2	65·9	21·3	—1·2	—0·4	—0·8
6. Orissa	79·0	55·6	67·3	23·4	—0·7	—1·6	+0·9
7. Chota Nagpur	74·7	48·5	61·6	26·1	—1·7	—1·3	+0·1
8. Bihar	73·9	50·7	62·3	23·2	—1·8	—0·6	—1·2
9. United Provinces, East	73·3	46·7	60·0	26·6	—1·7	—1·3	—0·4
10. Do. do., West	73·3	44·0	58·6	29·3	—1·4	—3·6	+2·2
11. Punjab, East and North	71·4	40·5	55·9	30·9	+0·1	—2·7	+2·8
12. Do. South-west	72·5	40·6	56·5	31·9	0	—1·9	+1·9
13. Kashmir	45·7	21·3	33·5	24·4	+0·9	—1·6	+2·5
14. North-West Frontier Province	68·8	37·7	53·3	31·1	+0·4	—2·7	+3·1
15. Baluchistan	64·4	33·7	49·0	30·6	+2·1	—3·5	+5·6
16. Sind	77·5	50·5	64·0	27·0	—0·5	—1·6	+1·1
17. Rajputana, West	78·3	46·5	62·4	31·7	—0·3	—4·0	+3·7
18. Do., East	76·6	45·7	61·1	30·9	—1·0	—3·9	+2·9
19. Gujarat	83·9	55·1	69·5	28·8	—0·5	—2·0	+1·5
20. Central India, West	78·6	47·7	63·1	30·8	—0·5	—1·7	+1·2
21. Do. do., East	72·5	43·7	58·1	28·7	—2·7	—3·3	+0·6
22 Berar	81·2	55·2	68·3	26·0	—0·9	—0·4	—0·5
23. Central Provinces, West	77·7	49·7	63·7	27·9	—1·7	—1·2	—0·5
24. Do. do., East	77·9	50·4	64·1	27·5	—1·4	—1·7	+0·3
25. Konkan	85·1	68·0	76·5	17·1	—1·7	—0·6	—1·1
26. Bombay Deccan	82·0	54·7	68·4	27·3	—2·2	—1·1	—1·1
27. Hyderabad, North	81·4	56·0	68·7	25·3	—1·2	—0·2	—1·0
28. Do., South	81·4	59·4	70·4	21·9	—2·7	—0·7	—2·0
29. Mysore	78·9	58·2	68·6	20·7	—1·5	—0·7	—0·8
30. Malabar	86·7	70·3	78·5	16·4	—0·3	—1·5	+1·2
31. Madras, South-east	84·2	69·1	76·7	15·0	—0·2	—0·4	+0·2
32. Do. Deccan	85·2	62·1	73·6	23·1	—1·3	—0·1	—1·2
33. Do. Coast, North	81·5	65·2	73·4	16·3	—0·1	—0·1	0

TABLE 11.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—2·1	—0·6	—1·3
Assam	—1·1	+0·3	—0·4
Bengal	—1·2	—0·4	—0·8
Bihar and Orissa	—1·4	—1·3	—1·3
United Provinces	—1·6	—2·3	—2·0
Punjab	+0·1	—2·4	—1·2
North-West Frontier Province	+0·4	—2·7	—1·1

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	—0·5	—1·6	—1·0
Rajputana	—0·8	—3·9	—2·4
Bombay	—1·2	—1·4	—1·3
Central India	—1·7	—2·5	—2·1
Central Provinces	—1·4	—1·1	—1·3
Hyderabad	—2·0	—0·5	—1·3
Mysore	—1·5	—0·7	—1·1
Madras	—0·4	—0·5	—0·4

Winds.

11. In most parts of the country winds were weaker and more variable than usual.

TABLE 12.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·1	—11
Assam	0	+ 6
Bengal	—0·2	—12
Bihar and Orissa	—0·2	0
United Provinces	—0·5	0
Punjab	+0·2	+ 7
North-West Frontier Province	—0·9	—11
Sind	—1·4	+ 3
Rajputana	—0·6	+ 4
Bombay	—0·7	— 2
Central India	—0·6	—18
Central Provinces	—0·2	— 1
Hyderabad	—0·5	+15
Mysore	—0·1	— 5
Madras	+0·8	+ 4

Humidity and cloud.

12. The largest departures from normal of relative humidity were an excess of 5 per cent. in Central India and a similar deficiency in Rajputana; in the latter area the absolute humidity also was appreciably below the average.

The cloud proportion was markedly in excess in Burma and Assam about the average in Bombay, and distinctly below the normal in the remaining divisions.

TABLE 13.—

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	84	— 1	·542	—·027	4·2	+1·0
Assam	92	— 1	·423	—·005	4·5	+1·6
Bengal	84	0	·445	—·011	0·9	—0·6
Bihar and Orissa	80	+ 2	·379	—·006	0·8	—0·6
United Provinces	78	+ 1	·302	—·016	0·5	—0·9
Punjab	72	— 1	·218	—·029	1·7	—0·9
North-West Frontier Province.	75	+ 4	·198	—·015	2·6	—0·5
Sind	64	+ 1	·273	—·027	1·0	—1·1
Rajputana	52	— 5	·203	—·048	0·9	—1·1
Bombay	61	+ 1	·388	—·013	1·3	—0·2
Central India	69	+ 5	·275	—·019	0·9	—0·7
Central Provinces	65	+ 3	·330	—·003	1·0	—1·0
Hyderabad	66	+ 1	·440	—·001	1·6	—1·1
Mysore	77	+ 2	·482	—·009	2·7	—1·2
Madras	77	0	·628	—·014	3·0	—0·7

Rainfall.

13. Rainfall accompanying a feeble influx of monsoon winds was of almost daily occurrence in the south of the Peninsula during the first eight days, but thereafter dry weather held uninterruptedly. As a rule the monsoon rainfall does not stop in southern India before the middle of December.

Conditions were disturbed in the south-east of the Bay between the 23rd and the 29th, and these extending northwards into Burma for a day caused a burst of widespread and unseasonable rainfall.

Several disturbances entered north-west India from the west, but only one of these exerted appreciable influence on the weather in India. This occurred at the end of the second week, and gave rise to rain and snow in Baluchistan, the North-West Frontier Province, Kashmir and the north Punjab. The snowfall is reported to have been heavy and widespread in Chitral. The winter rains proper had not commenced over northern India by the end of the month.

The total rainfall of the month exceeded the normal only in Burma. Over the Konkan, the Bombay Deccan, Hyderabad, North, the Madras Coast, North, the Madras Deccan and nearly the whole of northern and central India rainfall was actually or practically wanting. The deficit was more than half an inch in amount in Kashmir (1·7″ or 88 per cent.), Baluchistan (0·7″ or 92 per cent.), Malabar (0·8″ or 72 per cent.), the Madras Coast North (1″ or 93 per cent.) and Madras, south-east (2·1″ or 60 per cent.).

Weather was very dry also in Persia.

TABLE 14.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	4·5	4·5	4·01	4·27	— 0·26	— 6
2. Lower Burma	0·8	0·5	0·47	0·28	+ 0·19	+ 68
3. Upper Burma	1·7	0·8	0·63	0·38	+ 0·25	+ 66
4. Assam	0·8	0·8	0·23	0·35	— 0·12	— 34
5. Bengal	0	0·3	0·01	0·16	— 0·15	— 94
6. Orissa	0	0·7	0	0·37	— 0·37	—100
7. Chota Nagpur	0	0·4	0	0·22	— 0·22	—100
8. Bihar	0	0·2	0	0·09	— 0·09	—100
9. United Provinces, East	0	0·5	0	0·26	— 0·26	—100
10. Do. do. West	0	0·9	0	0·42	— 0·42	—100
11. Punjab, East and North	0	0·9	0·02	0·49	— 0·47	— 96
12. Do., South-west	0	0·5	0	0·22	— 0·22	—100
13. Kashmir	0·8	2·7	0·24	1·97	— 1·73	— 88
14. North-West Frontier Province	0·2	1·0	0·09	0·56	— 0·47	— 84
15. Baluchistan	0·2	1·9	0·06	0·78	— 0·72	— 92
16. Sind	0	0·2	0	0·08	— 0·08	—100
17. Rajputana, West	0	0·3	0	0·14	— 0·14	—100
18. Do. East	0	0·7	0	0·28	— 0·28	—100
19. Gujarat	0	0·2	0	0·06	— 0·06	—100
20. Central India, West	0	0·6	0	0·27	— 0·27	—100
21. Do. do. East	0	0·6	0	0·28	— 0·28	—100
22. Berar	0	0·7	0	0·39	— 0·39	—100
23. Central Provinces, West	0	0·7	0	0·42	— 0·42	—100
24. Do. do. East	0	0·8	0	0·47	— 0·47	—100
25. Konkan	0	0·3	0	0·15	— 0·15	—100

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
26. Bombay Deccan	0	0·5	0	0·31	— 0·31	—100
27. Hyderabad, North	0	0·7	0	0·38	— 0·38	—100
28. Do. South	0·3	0·4	0·14	0·23	— 0·09	— 39
29. Mysore	0·4	0·9	0·27	0·51	— 0·24	— 47
30. Malabar	0·4	1·4	0·29	1·04	— 0·75	— 72
31. Madras, South-east	2·9	4·1	1·43	3·54	— 2·11	— 60
32. Do. Deccan	0	0·8	0·01	0·51	— 0·50	— 98
33. Do. Coast, North	0·2	1·1	0·08	1·09	— 1·01	— 93

TABLE 15.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·56	0·35	+0·21	+ 60
Assam	0·23	0·35	—0·12	— 34
Bengal	0·01	0·16	—0·15	— 94
Bihar and Orissa	0	0·19	—0·19	—100
United Provinces	0	0·35	—0·35	—100
Punjab	0·02	0·42	—0·40	— 95
North-West Frontier Province	0·09	0·56	—0·47	— 84
Sind	0	0·08	—0·08	—100
Rajputana	0	0·24	—0·24	—100
Bombay	0	0·20	—0·20	—100
Central India	0	0·27	—0·27	—100
Central Provinces	0	0·43	—0·43	—100
Hyderabad	0·07	0·31	—0·24	— 77
Mysore	0·27	0·51	—0·24	— 47
Madras	0·75	2·22	—1·47	— 66
Mean of India	0·16	0·29	—0·13	— 45

Snowfall.

I.—AFGHANISTAN.

14. Snow to a depth of about 1½ feet is reported to have fallen on the 13th on the peaks of the Paghman, Shakardara and Khak Jabbar hills. At the end of the month the unmelted residue varied between 3 and 9 inches.

II.—BALUCHISTAN.

On the hills round Quetta there was a very slight fall on the morning of the 15th.

III.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—No snow fell within the limits of the Wano Agency.

(*b*) *Kurrum.*—Snow fell on three days on the high peaks of the Sufed Koh; the fall of the 15th came down to the level of the cantonment. On the 26th the unmelted residue was reported to be six inches deep on the Paiwar pass and about 1 foot on the Agam pass.

(*c*) *Kohat.*—A slight fall occurred on the Samana range on the 16th.

(*d*) *Chitral.*—On the 14th and 15th heavy snow fell on the hills and some sleet in the valley. On the Lowarai pass the total fall amounted to about 6′, and the accumulations at the end of the month were estimated to vary between 6′ and 8′.

(*e*) *Hazara.*—Snowfall varying in depth between nine and sixteen inches occurred from the 15th to the 17th. The lowest decent was to 5,500 feet.

IV.—KASHMIR.

(*a*) *Srinagar.*—Slight snow fell on the 17th on the peaks of the surrounding mountains.

(*b*) *Skardu.*—Snowstorms occurred on the neighbouring ranges on the 6th, 14th, 17th, 18th and 29th, and there was a trifling fall in Skardu itself on the 6th.

(c) *Dras.*—Light falls occurred on the 6th and from the 15th to the 17th.

(d) *Kargil.*—Light snow fell on the 6th, 16th, 17th and 29th. The falls of the 6th and 16th extended over the whole of Kargil, while the other two occurred only on the higher mountains.

At the end of the month the unmelted residue of the accumulations did not exceed six inches in depth anywhere in the hills.

(e) *Leh.*—There was only a sprinkling.

V.—PUNJAB.

(a) *Kangra.*—During the first twenty-seven days for which alone information is available snowfall occurred only on the 17th and was confined to the higher passes. The fall is said to have been about 1 foot deep on the Rohtang pass.

(b) *Kilba (Simla Hills.)*—On the ranges near Kilba light snow fell down to 10,000 feet on the 14th and to 9,000 feet on the 15th. By the 26th the snow line had retreated to 13,000 feet.

TABLE 16.

Name of pass.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Rupin	2	5
Brua	2½	4
Harang	*nil*	2¼
Shatul	3	4½

VI.—UNITED PROVINCES.

(a) *Garhwal.*—Snowfall occurred only on the highest peaks in the north of the district and was unusually light (one to six inches in amount).

(b) *Almora.*—Information is available only for the first twenty-three days. The total fall of the period was estimated at 2½ feet in Malla Darma, 1 foot in Chaudas and about seven inches in Malla Johar, Byans and Malla Danpur.

TABLE 17.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	7	29
Lampia "	5	16
Lipulekh "	4	11½
Binkaru "	2	15
Pindari peak	½	3
Kaphini "	½	3
Kuntela "	½	3
Milamdhura	½	7½
Bagdwar	½	...
Puwalidwar	½	...

VII.—SIKKIM.

Gangtok—No snow fell.

VIII.—NORTH-EAST FRONTIER TRACT.

Western Section.—Heavy snow fell on the Sela and the Tsela or Orka La towards the end of the month.

Central and Eastern Sections.—Snow fall occurred steadily during the latter half of the month; the snow-line came down to about 7,000 feet, that is well below the Maya pass.

SUMMARY.

15. Unusually heavy snow fell in Chitral and the North-East Frontier Tract, but elsewhere the month's fall was distinctly below the average.

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in December, 1916.

Table

Abstract of observations taken at 10 hrs. and 16 hrs

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Temperature, wet-bulb. Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
	Calcutta . .	21	30·049	29·928	·121	29·983	—·045	29·951	75·9	56·6	19·3	79·6	49·2	30·4	69·7	74·2	65·2	—0·1	55·0	61·9	62·0	59·6
	VI.—Punjab.																					
11	Lahore . . .	702	29·353	29·260	·093	29·296	—·059	30·002	71·7	39·7	32·0	76·6	35·2	41·4	57·3	70·4	53·5	—1·1	38·2	49·5	56·5	48·1
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·628	28·526	·102	28·566	—·044	29·981	76·8	44·5	32·3	83·8	38·0	45·8	67·7	74·8	58·7	—2·8	41·0	52·4	55·3	49·6
	X.—Bombay.																					
25	Bombay . .	37	29·979	29·873	·106	29·921	—·032	29·899	83·9	70·6	13·3	89·2	64·5	24·7	76·4	81·0	76·5	+0·1	64·9	69·2	70·9	68·3
	XIV.—Mysore.																					
29	Bangalore . .	3,021	27·013	26·906	·107	26·960	—·022	29·843	78·1	57·5	20·6	82·2	53·8	28·4	70·9	74·9	66·9	—0·6	56·8	62·1	62·5	60·5
	XV.—Madras.																					
31	Pudukkottai . .	318	29·687	29·565	·122	29·626		29·877	84·8	68·0	16·8	88·4	63·1	25·3	78·0	82·1	76·4			70·6	70·5	
	Madras . .	22	29·993	29·895	·098	29·943	—·037	29·896	83·7	69·7	14·0	85·8	64·1	21·7	79·9	80·6	75·9	+0·2	68·0	72·5	72·3	70·9
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain . . .		23·138	23·076	·062	23·096		23·058	51·4	29·2	22·2	59·3	24·1	35·2	42·3	42·0	39·4			34·8	35·1	
	Katmandu . .	4,388	25·733	25·633	·100	25·680	—·030	25·634	65·5	36·7	28·8	71·0	29·8	41·2	48·6	60·2	50·2	—2·4	35·2	45·0	50·5	43·6
	Kodaikanal . .	7,688	22·827	22·769	·058	22·798		22·733	61·4	45·4	16·0	69·6	40·3	29·3	57·0	56·0	53·4		41·0	50·3	51·9	47·[illegible]
	Extra India.																					
	Seychelles . .	15	29·931	29·837	·094	29·894	—·042	29·832	83·0	76·9	6·1	84·9	73·7	11·2	81·2	81·7	78·8	+0·9	71·4	76·4	76·4	74·[illegible]
	Mauritius . .	181				29·740	—·012	29·867	83·5	69·8	13·7	88·0	64·9	23·1			75·9	—1·8				70·[illegible]

N.B.—Elevations in italics indicate barometrical determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

A.

at 12 stations in India, etc., in December, 1916.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of Sub-division
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
																															III.—Bengal.	
·416	·453	·306	·433	—·005	90	62	46	69	— 2	0·8	1·4	1·1	—0·7	1	13	6	1	0	2	1	2	36	N 30° W	N 13° W	74	63	56	44	0	0	Calcutta . .	5
																															VI.—Panjab.	
·212	·251	·273	·243	—·028	86	53	37	61	— 2	1·6	1·7	1·7	—1·1	39	2	1	0	0	0	0	6	14	N 51° W	N 36° W	32	21	12	23	0	0	Lahore . .	11
																															IX.—Rajputana.	
·215	·207	·198	·207	—·060	73	30	23	47	— 6	0·7	1·2	0·9	—1·6	10	3	2	7	5	5	8	12	10	S 78° E	N 27° W	21	27	47	51	0	0	Jaipur . .	18
																															X.—Bombay.	
·541	·618	·625	·620	—·019	72	68	59	69	— 3	0·8	0·9	0·9	—1·0	0	1	10	19	1	0	0	10	21	N 5° E	N 15° E	35	55	125	170	0	0	Bombay . .	25
																															XIV.—Mysore.	
·454	·458	·423	·459	—·007	96	60	49	70	0	3·3	4·3	3·8		1	1	22	32	4	1	0	1	0	N 76° E	N 72° E	82	81	126	96	0·25	0·22	Bangalore . .	29
																															XV.—Madras.	
...	·651	·592	...		...	68	55	...		5·6	6·2	5·9		1	4	49	7	1	0	0	0	0	N 48° E		92		120		1·25	0·56	Pudukkottai .	31
·665	·698	·684	·701	—·028	92	70	65	77	— 5	4·8	3·9	4·3	—1·2	0	19	37	6	0	0	0	0	0	N 35° E	N 24° E	89	81	110	128	3·84	2·11	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
...	·126	·135	...			50	51			1·6	2·4	2·0																	0	0	Sarain.	
·191	·251	·257	·241	—·027	87	76	49	74	— 1	2·6	3·3	2·9	+0·3	0	0	0	12	0	0	0	49	1	N 89° W	N 72° W	61	43	10	16	0	0	Katmandu.	
·214	·297	·346	·286		79	66	78	71		3·9	7·2	5·5		1	6	16	11	11	0	1	6	10	N 46° E		39		190		1·22	0·67	Kodaikanal.	
																															Extra India.	
·694	·845	·839	·818	—·014	75	79	77	79	— 4	5·6	6·3	5·9	—0·9*	20	1	7	5	12	1	2	1	13	N 58° E	N 44° W	13	55	86	109	10·18	4·69	Seychelles.	
			·653	—·026				73	+ 1			6·6	+1·2										N 85° E	S 88° E			135		2·75	1·15	Mauritius.	

* Departure from old normals.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in December, 1916.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B ; (2) Except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	—·047	80·5	−2·1	61·6	—0·6	71·0	−1·2	18·9	+0·1	—11	84	— 1	·542	—·027	4·2	+1·0	0·56	0·35	+0·21
Assam	—·031	74·3	−1·1	53·2	+0·3	63·7	−0·4	21·1	0	+ 6	92	— 1	·423	—·005	4·5	+1·6	0·23	0·35	—0·12
Bengal	—·037	76·5	−1·2	55·2	—0·4	65·9	−0·8	21·3	—0·2	—12	84	0	·445	—·011	0·9	−0·6	0·01	0·16	—0·15
Bihar and Orissa	—·033	75·6	−1·4	51·6	—1·3	63·6	−1·3	24·0	—0·2	0	80	+ 2	·379	—·006	0·8	—0·6	0	0·19	—0·19
United Provinces of Agra and Oudh	—·035	73·3	−1·6	45·5	—2·3	59·4	−2·0	27·8	—0·5	0	78	+ 1	·302	—·016	0·5	—0·9	0	0·35	—0·35
Punjab	—·046	71·8	+0·1	40·5	—2·4	56·1	−1·2	31·2	+0·2	+ 7	72	— 1	·218	—·029	1·7	—0·9	0·02	0·42	—0·40
North-West Frontier Province	—·074	68·8	+0·4	37·7	—2·7	53·3	−1·1	31·1	—0·9	—11	75	+ 4	·198	—·015	2·6	—0·5	0·09	0·56	—0·47
Sind	—·048	77·5	—0·5	50·5	—1·6	64·0	- 1·0	27·0	—1·4	+ 3	64	+ 1	·273	—·027	1·0	—1·1	0	0·08	—0·08
Rajputana	—·044	77·2	—0·8	46·0	—3·9	61·6	−2·4	31·2	—0·6	+ 4	52	— 5	·203	—·048	0·9	—1·1	0	0·24	—0·24
Bombay	—·039	83·7	−1·2	57·9	—1·4	70·8	−1·3	25·8	—0·7	— 2	61	+ 1	·388	—·013	1·3	—0·2	0	0·20	—0·20
Central India	—·045	75·5	−1·7	45·7	—2·5	60·6	−2·1	29·8	—0·6	—18	69	+ 5	·275	—·019	0·9	- 0·7	0	0·27	—0·27
Central Provinces	—·038	78·6	−1·4	51·2	—1·1	64·9	−1·3	27·4	—0·2	— 1	65	+ 3	·230	—·003	1·0	—1·0	0	0·43	—0·43
Hyderabad	—·028	81·4	−2·0	58·0	—0·5	69·7	−1·3	23·4	—0·5	+15	66	+ 1	·440	—·001	1·6	—1·1	0·07	0·31	—0·24
Mysore	—·024	78·9	−1·5	58·2	—0·7	68·6	−1·1	20·7	—0·1	— 5	77	+ 2	·482	—·009	2·7	—1·2	0·27	0·51	—0·24
Madras	—·027	84·0	—0·4	67·3	—0·5	75·7	—0·4	16·7	+0·8	+ 4	77	0	·628	—·014	3·0	—0·7	0·75	2·22	—1·47

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·791		29·870	29·848	4th	29·748	23rd & 27th	75·8	68·9	83·4		72·0		77·7		11·4	87·0	22nd & 28th.	67·3	5th
	Mergui	66	29·889	—·049	29·885	29·967	4th	29·832	27th	73·1	70·5	83·3	—3·7	67·1	—0·2	75·2	—1·9	16·2	87·9	10th	58·9	3rd & 5th.
	Tavoy	19	29·940	—·062P	29·892	30·035	4th	29·879	23rd	70·8	66·8	85·3	—2·4	65·9	+0·8	75·6	—0·8	19·4	90·5	27th	54·2	5th
	Moulmein	94	29·898	—·044	29·933	29·986	4th	29·837	27th	70·3	66·5	86·5	—0·8	65·4	—1·6	75·9	—1·2	21·1	92·0	27th	57·0	6th
	Rangoon	18	29·979	—·038	29·925	30·070	4th	29·918	27th	69·6	65·0	85·3	—1·8	65·4	—1·9	75·3	—1·9	19·9	89·8	26th	61·3	6th
	Bassein	27	29·972	—·041	29·936	30·052	4th	29·902	26th	69·6	65·2	84·7	+0·4P	64·2	—1·2	74·4	—0·4P	20·5	87·5	1st	59·1	19th
	Diamond Island	41	29·934	—·052	29·910	30·002	4th	29·871	27th	75·4	69·4	82·2	—1·4	71·8	—0·7	77·0	—1·1	10·4	85·2	10th, 14th & 26th.	69·0	30th
	Toungoo	164	29·844	—·038	29·956	29·915	4th	29·770	27th	65·5	62·9	81·6	—1·6	58·1	—3·5	69·8	—2·5	23·5	85·9	2nd	53·7	19th
	Kyaukpyu	18	29·973		29·931	30·027	14th	29·900	27th	70·9	67·3	78·8		66·6		72·7		12·2	84·1	1st	59·3	21st
	Akyab	20	29·889	—·040	29·950	30·051	14th	29·915	27th	65·2	62·9	79·2	—1·9	59·9	—3·6	69·6	—2·7	19·3	85·7	27th	53·6	23rd
3	Minbu	*165*	29·853	—·057	29·970	29·910	14th	29·781	27th	64·2	61·2	79·6	—3·3	60·6	+0·1	70·1	—1·6	19·0	84·3	1st & 2nd.	54·6	21st
	Yamethin	644	29·359	—·042	29·921	29·408	4th	29·296	27th	62·2	60·1	80·4	—3·4	58·6	+0·6	69·5	—1·4	21·8	84·7	1st	51·5	30th
	Mandalay	250	29·784	—·035	29·994	29·838	14th	29·718	27th	63·0	60·8	81·0	—2·2	58·5	—0·9	69·7	—1·5	22·5	90·0	1st	52·7	31st
	Monywa	*280*	29·758	—·052	30·000	29·815	14th	29·690	6th	62·0	59·5	79·8	—0·5	58·6	—0·9	69·2	—0·7	21·2	85·8	2nd	51·6	30th
	Lashio	*3,820*	27·182	—·060	27·128*	27·245	14th	27·111	27th	53·3	51·9	71·5	—2·3	51·7	+3·6	61·6	+0·7	19·8	74·9	8th & 12th.	42·0	30th
	Bhamo	*361*	29·669	—·042	30·006	29·744	4th	29·593	6th & 31st.	55·5	55·1	73·9	—1·3	51·1	—0·1	62·5	—0·7	22·8	80·4	3rd	42·6	30th
	Myitkyina	458	29·566	—·059	30·010	29·634	4th	29·482	6th	55·9	54·3	72·3	—2·7	51·5	—0·2	61·9	—1·5	20·8	79·4	1st	43·4	31st
	II.—Assam.																					
4	Dibrugarh	353	29·702	—·048	30·039	29·768	9th	29·607	27th	55·1	54·1	73·1	0	50·8	+0·5	62·0	+0·3	22·3	77·0	4th	42·6	26th
	Sibsagar	333	29·728	—·057	30·042	29·810	14th	29·655	6th	53·7	53·2	70·5	—0·8	46·8P	—3·7P	58·7P	—2·3P	23·7P	73·4	2nd	39·8	26th
	Tezpur	252	29·822	—·023	30·048	29·890	4th	29·728	27th	55·4	54·6	73·3	—0·6	52·7	—0·4	63·0	—0·6	20·6	75·6	13th & 14th.	47·7	26th
	Gauhati	196	29·891	—·019	30·054	29·959	4th	29·777	27th	58·9	57·8	73·8	—1·5	52·1	+0·8	63·0	—0·3	21·7	78·6	1st	46·6	26th
	Dhubri	115	29·946	—·032	30·022	30·010	21st	29·819	27th	60·4	58·0	72·8	—1·6	56·1	+1·5	64·4	—0·1	16·7	76·2	1st	51·3	29th, 30th & 31st.
	Silchar	104	29·948	—·038	30·010	30·014	4th	29·829	27th	58·7	57·2	78·3	—1·4	54·1	—0·7	66·2	—1·1	24·2	82·3	11th	47·9	30th
	Srimangal	66	29·951†		29·971†	30·008	14th	29·852	27th	52·5	51·5	80·1	—0·9	47·3P	—2·3P	63·7P	—1·6P	32·8P	83·7	12th	42·3	24th
	III.—Bengal.																					
5	Cox's Bazar	36	29·975		29·957	30·030	14th	29·901	27th	64·3	61·5	79·1		56·5		67·8		22·6	83·7	4th	51·5	20th & 22nd.
	Chittagong	87	29·912	—·035	29·978	30·003	14th	29·850	27th	60·4	58·6	77·2	—1·1	54·9	—2·7	66·0	—1·9	22·3	81·4	12th	50·7	28th
	Noakhali	43	29·999	—·025	29·991	30·059	14th	29·918	27th	62·8	59·6	77·9	—0·1	55·1	+0·6	66·5	+0·3	22·8	80·8	3rd	48·8	31st
	Barisal	12	30·031	—·026	29·989	30·091	14th	29·948	27th	62·9	59·8	76·1	—1·7	55·8	—0·3	66·0	—1·0	20·3	80·2	3rd	47·5	31st
	Narayanganj	26	30·013	—·038	29·989	30·073	14th	29·912	27th	61·2	58·4	77·3	—0·8	57·0	—0·3	67·2	—0·5	20·3	79·8	2nd	50·4	31st
	Mymensingh	62	29·981	—·036	29·998	30·054	4th	29·858	27th	60·6	58·6	76·9	+0·1P	56·9	+1·9	66·9	+1·0P	20·0	78·8	11th	53·0	25th
	Bogra	75	29·974	—·040	30·001	30·041	4th & 14th.	29·853	27th	57·6	55·8	74·7	—1·9	54·1	+0·3	64·4	—0·8	20·6	76·5	13th	48·3	31st
	Dinajpur	123	29·929	—·035	30·014	29·998	4th	29·834	27th	56·7	54·7	75·4	—1·5	51·7	+0·8	63·6	—0·3	23·7	77·8	13th	47·0	31st
	Jalpaiguri	283	29·768	—·037	30·026	29·841	4th	29·671	27th	56·5	54·9	75·9	+0·2	52·4	—0·2	64·2	0	23·5	78·2	11th	47·6	31st
	Baugor Island	10	30·042	—·036	29·997	30·101	14th	29·978	27th	63·6	61·4	76·5	—0·1	56·8	—2·2	66·6	—1·1	19·7	82·0	3rd	48·9	30th
	Midnapore	149	29·895	—·048	30·091	29·970	14th	29·616	27th	60·8	55·9	77·4	—2·6	55·0	—0·5	66·2	—1·5	22·4	82·8	19th	43·5	28th
	Calcutta	21	30·034	—·041	30·002	30·102	14th	29·959	27th	60·1	57·2	76·2	—0·8	56·5	+0·5	66·3	—0·1	19·7	79·9	1st	49·2	31st

* Not reduced to sea level.

N. B.—Elevations in italics indicate barometrical determinations.

† Mean of 30 days.

B.

at 214 stations in India, etc., in December, 1916.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															I.—Burma.
9	2	15	4	1	0	0	0	0	N 52° E		5·4			62		69		·620		5·2		2		1·14			1·14			0·62	Victoria Point.
18	2	7	4	0	0	0	0	0	N 52° E	N 14° E	3·1	1·3	+1·8	37	−28	87	+10	·722	+·035	1·9	−1·2	3	+1·9	1·66	0·37	+ 1·29	1·66	0·37	+ 1·29	1·12	Mergui.
27	1	2	1	0	0	0	0	0	N 45° E	N 30° E	1·8	0·9	+0·9	10	− 1	80	− 3	·609	−·049	2·0	+0·9	3	+2·7	2·20	0·21	+ 1·99	2·20	0·21	+ 1·99	1·07	Tavoy.
2	0	8	16	5	0	0	0	0	N 85° E	N 50° E	2·8	2·0	+0·8	82	+25	81	− 2	·605	−·045	2·2	+0·3	2	+1·8	0·37	0·07	+0·30	0·37	0·07	+ 0·30	0·27	Moulmein
0	13	11	3	0	1	0	0	3	N 21° E	N 44° E	3·8	3·3	+0·5	79	+ 7	77	− 6	·555	−·069	7·7	+5·3	0	−0·1	0·04	0·15	− 0·11	0·04	0·15	− 0·11	0·04	Rangoon.
13	2	9	3	4	0	0	0	0	N 65° E	N 40° E	3·2	2·6	+0·6	43	−22	78	− 8	·566	−·046	3·6	+1·3	1	+0·5	0·13	0·29	− 0·16	0·13	0·29	− 0·16	0·13	Bassein.
1	5	18	7	0	0	0	0	0	N 49° E	N 42° E	8·0	6·5	+1·5	89	+ 3	73	− 1	·639	−·038	3·3	+0·3	0	−0·8	0	0·75	− 0·75	0	0·75	− 0·75	0	Diamond Island.
5	12	7	0	0	1	1	0	5	N	N 10° W	2·4	1·5	+0·9	58	−14	86	− 3	·513	−·032	2·9	+0·2	1	+0·6	0·16	0·24	− 0·08	0·16	0·24	− 0·08	0·10	Toungoo.
20	0	0	1	0	0	0	0	0	E		0·1			3		82		·623		6·3		1		1·12			1·12			0·96	Kyaukpyu.
12	8	10	1	0	0	0	0	0	N 28° E	N 18° E	2·2	1·8	+0·4	56	−26	87	− 3	·547	−·031	2·8	+0·7	3	+2·2	0·50	0·73	− 0·23	0·50	0·73	− 0·23	0·18	Akyab.
5	2	0	0	1	0	1	2	20	N 48° W	N 50° W	2·4	5·0	−2·6	72	− 2	84	+ 6	·504	+·001	3·8	+1·6	1	+0·4	0·35	0·46	− 0·11	0·35	0·46	− 0·11	0·35	Minbu.
24	1	0	0	0	1	1	0	4	N 58° W	N 13° W	0·7	2·5	−1·8	10	−31	88	+ 3	·493	−·018	3·0	+0·9	1	+0·3	0·30	0·35	− 0·05	0·30	0·35	− 0·05	0·22	Yamethin.
30	0	0	0	0	1	0	0	0	S	N 4° W	0·5	1·4	−0·9	3	−33	87	+ 1	·507	−·022	3·5	+1·4	2	+1·3	1·56	0·33	+ 1·23	1·56	0·33	+ 1·23	0·77	Mandalay.
14	10	2	1	1	0	0	0	3	N 4° E		0·9			43		85	− 4	·479	−·042	4·5	+1·4	1	0	0·11	0·37	− 0·26	0·11	0·37	− 0·26	0·11	Monywa.
13	3	10	0	1	0	1	1	2	N 25° E		1·7			37		91	− 3	·371	−·015	6·6	+0·9	1	−0·2	0·85	0·76	+ 0·09	0·85	0·76	+ 0·09	0·72	Lashio.
25	3	3	0	0	0	0	0	0	N 23° E	N 1° E	0·7	1·2	−0·5	20	− 9	98	+ 4	·433	+·005	8·1	+4·7	1	−0·1	0·71	0·56	+ 0·15	0·71	0·56	+ 0·15	0·59	Bhamo.
30	0	1	0	0	0	0	0	0	N 45° E		0·9			3		90	+ 1	·404	−·041	4·5	+0·2	4	+2·4	1·12	0·51	+ 0·61	1·12	0·51	+ 0·61	0·51	Myitkyina.
																															II.—Assam.
28	1	1	1	0	0	0	0	0	N 45° E		0·1			10		93	− 2	·409	+·016	2·2	−0·7	1	0	0·38	0·36	+ 0·02	0·38	0·36	+ 0·02	0·19	Dibrugarh.
13	6	6	1	0	1	1	0	3	N 13° E	N 63° E	1·2	1·2	0	37	+ 8	96	− 3	·404	−·014	8·7	+3·2	2	+0·4	0·49	0·49	0	0·49	0·49	0	0·26	Sibsagar.
30	0	0	1	0	0	0	0	0	E		1·7			3		94	+ 1	·417	+·009	3·3	+1·2	0	−0·5	0·08	0·25	− 0·17	0·08	0·25	− 0·17	0·04	Tezpur.
31	0	0	0	0	0	0	0	0	Calm		1·0			(a)		94	− 3	·465	+·027	7·9	+0·9	0	−0·3	0	0·09	− 0·09	0	0·09	− 0·09	0	Gauhati.
1	0	13	14	0	2	1	0	0	N 74° E	N 54° E	4·2	3·4	+0·8	76	+ 4	86	− 4	·450	+·003	6·0	+4·8	0	−0·1	0	0·05	− 0·05	0	0·05	− 0·05	0	Dhubri.
31	0	0	0	0	0	0	0	0	Calm	S 81° E	0·3	1·1	−0·8	(a)		91	+ 1	·449	−·015	3·4	+0·2	0	−0·7	0	0·43	− 0·43	0	0·43	− 0·43	0	Silchar.
																92	+ 2	·369	−·061	0·1		0	−1·0	0	0·35	− 0·35	0	0·35	− 0·35	0	Srimangal.
																															III.—Bengal.
11	1	12	6	0	0	0	0	1	N 53° E		1·5			56		85		·511		1·1		0		0·05			0·05			0·05	Cox's Bazar.
21	0	10	0	0	0	0	0	0	N 45° E	N 32° E	1·0	2·0	−1·0	33	−41	89	0	·471	−·036	1·1	−1·0	0	−0·2	0	0·79	− 0·79	0	0·79	− 0·79	0	Chittagong.
10	13	8	0	0	0	0	0	0	N 18° E		0·9			65		82	− 6	·469	−·031	0·5	−0·9	0	−0·3	0	0·31	− 0·31	0	0·31	−0·31	0	Noakhali.
25	2	2	1	0	0	0	0	1	N 23° E	N 21° E	0·5	1·2	−0·7	17	−1	81	− 5	·470	−·039	1·0	−0·2	0	−0·7	0	0·47	− 0·47	0	0·47	− 0·47	0	Barisal.
16	5	1	0	0	0	0	1	8	N 28° W	N 5° W	0·6	1·5	−0·9	43	− 4	83	− 4	·454	−·023	0·7	−1·5	0	−0·5	0	0·17	− 0·17	0	0·17	− 0·17	0	Narayanganj.
30	0	0	0	0	0	0	0	1	N 45° W	N 36° E	0·1	0·7	−0·6	3	−29	88	− 2	·468	0	1·7	+0·2	0	−0·3	0	0·07	− 0·07	0	0·07	− 0·07	0	Mymensingh.
21	6	0	0	0	0	0	1	3	N 21° W	N 1° W	1·0	1·0	0	27	−18	89	+ 6	·425	+·003	1·8	+1·3	0	−0·2	0	0·03	− 0·03	0	0·03	− 0·03	0	Bogra.
16	2	3	0	0	0	0	5	5	N 40° W	N 12° W	1·0	1·4	−0·4	33	−21	87	0	·405	−·003	0·1	−1·0	0	−0·1	0	0·03	− 0·03	0	0·03	− 0·03	0	Dinajpur.
31	0	0	0	0	0	0	0	0	Calm	N 12° E	1·0			(a)		90	+ 3	·411	−·008	0·2	−0·9	0	−0·3	0	0·08	− 0·08	0	0·08	− 0·08	0	Jalpaiguri.
0	12	13	5	0	0	0	0	1	N 32° E	N 15° E	5·4	4·3	+1·1	82	0	87	0	·519	+·003	1·6	−0·9	0	−0·6	0·09	0·33	− 0·24	0·09	0·33	− 0·24	0·09	Saugor Island.
23	1	5	0	0	0	0	0	2	N 18° E		1·2			19		72	+ 4	·388	+·005	0·5	−0·7	0	−0·3	0	0·25	− 0·25	0	0·25	− 0·25	0	Midnapore.
3	7	3	2	0	0	0	1	15	N 21° W	N 4° W	2·3	1·8	+0·5	69	+19	83	+ 2	·435	−·005	0·8	−0·7	0	−0·4	0	0·21	− 0·21	0	0·21	− 0·21	0	Calcutta.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Jessore	30	30·023	−·034	30·001	30·098	14th	29·945	27th	61·4	57·8	75·9	−1·6	54·7	0	65·3	−0·8	21·2	79·4	1st	44·8	31st
	Burdwan	99	29·953	−·047	30·005	30·022	14th	29·866	27th	59·4	56·0	76·8	−1·7	55·6	−0·5	66·2	−1·1	21·2	80·6	19th	49·4	31st
	Berhampore	67	29·992	−·037	30·013	30·059	14th	29·894	27th	58·3	55·7	74·5	−2·1	55·2	−0·2	64·9	−1·1	19·3	77·1	9th	47·2	31st
	IV.—Bihar and Orissa.																					
6	Balasore	50	30·015	−·037	30·013	30·088	14th	29·960	27th	59·7	56·8	78·3	−1·6	55·0	−0·7	66·7	−1·1	23·3	83·5	4th	47·6	29th
	Hukitala (False Point)	29	30·026	−·037	29·996	30·090	14th	29·962	27th													
	Cuttack	80	29·984	−·032	30·009	30·047	14th	29·925	27th	61·3	58·0	78·6	−3·0P	57·9	−1·0	68·3	−2·0P	20·7	81·5	2nd	50·2	28th, 29th & 30th.
	Puri	24	30·041	−·028	30·006	30·106	14th	29·984	27th	63·8*	61·7*	81·1*	+0·6*	61·1*	−1·0*	71·1*	−0·2*	20·[illegible]*	87·1	4th	55·3	29th
	Angul	455	29·598	−·027	30·024	29·670	14th	29·533	27th	60·2	56·4	78·5	−0·6	58·0	−1·6	65·7	−1·1	25·5	83·8	1st	46·0	28th & 29th.
	Sambalpur	486	29·577	−·038	30·041	29·668	14th	29·525	2nd	56·1	54·8	78·6	−1·2	50·9	−3·2	64·8	−2·2	27·7	85·0*	1st	44·5	29th
7	Chaibasa	*733*	29·303	−·037	30·037	29·383	14th	29·239	27th	53·6	51·3	76·5	−1·0	49·9	−1·1	63·2	−1·1	26·6	82·3	1st	42·6	28th
	Ranchi	2,128	27·871	−·032	30·031	27·931	14th	27·800	27th	54·8	49·7	70·5	−2·8	48·6	−2·6	59·5	−2·7	21·9	75·5	1st	41·4	28th
	Purulia	*816*	29·236†	−·015†	30·050†	29·301	14th	29·170	18th	57·8	53·0	77·4	−0·7	52·3	−1·0	64·9	−0·9	25·1	87·1	19th	45·1	28th
	Daltonganj	*730*	29·323	−·043	30·061	29·388	21st	29·255	18th	49·9	47·9	74·3	−2·4	43·3	−2·6	58·8	−2·5	31·0	82·3	18th	36·5	25th
8	Purnea	124	29·938	−·040	30·025	30·015	4th	29·819	27th	54·7	53·4	73·8	−2·0	50·3	+0·9	62·0	−0·5	23·5	76·9	13th	44·8	30th & 31st.
	Monghyr	155	29·901‡		30·017‡	29·971	14th & 21st.	29·831	27th	57·4	53·2	73·5		53·1		63·3		20·4	76·1	13th	46·9	30th
	Darbhanga	165	29·906	−·029	30·036	29·973	4th & 21st.	29·824	27th	57·3	54·8	73·2	−1·7	50·2	−2·5P	61·7	−2·1P	23·0	76·5	12th	44·9	31st
	Pusa	188	29·871		30·026	29·946	4th	29·798	27th	54·6	53·0	74·5		50·2		62·4		24·3	77·4	12th	44·3	30th
	Patna	183	29·899	−·025	30·048	29·983	4th	29·83[illegible]	27th	58·2	54·1	71·9	−2·4	51·5	−0·3	61·7	−1·3	20·4	79·5	16th	44·5	31st
	Buxar	239	29·829	−·037	30·041	29·907	21st	29·768	7th	55·3	52·1	74·6	−1·5	49·3	−1·6	61·9	−1·5	25·3	78·8	8th	42·2	25th
	Gaya	372	29·701	−·027	30·048	29·772	4th	29·609	18th	57·6	52·1	74·4	−1·9	50·9	−0·4	62·7	−1·1	23·5	79·1	4th	45·0	30th
	Naya Dumka	489	29·569	−·022	30·039	29·650	14th	29·477	27th	58·6	54·7	75·0	−1·1	49·9	−1·6	62·5	−1·3	25·1	79·9	19th	42·8	31st
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·790	−·028	30·024	29·878	4th	29·729	27th	54·5	51·7	73·2	−1·0	48·4	−1·6	60·8	−1·3	24·8	75·6	1st	41·8	31st
	Benares	267	29·800	−·035	30·040	29·874	22nd	29·742	18th	53·7	51·4	73·4	−1·7	45·8	−2·0	59·6	−1·9	27·6	80·3	18th	38·7	26th
	Allahabad	309	29·766	−·029	30·055	29·853	22nd	29·699	7th	51·8	49·5	72·9	−2·9	45·5	−2·3	59·2	−2·6	27·4	80·3	18th	38·1	26th
	Cawnpore	416	29·653	−·030	30·060	29·732	22nd	29·584	7th	50·0	48·1	71·8	−2·7	46·4	−2·1	59·1	−2·4	25·4	77·0	16th	39·7	26th
	Lucknow	368	29·700	−·025	30·053	29·774	22nd	29·635	7th	53·1	49·4	74·9	−0·8	45·9	−0·4	60·4	−0·6	29·0	79·5	16th	39·6	26th
	Bahraich	407	29·643	−·025	30·040	29·723	21st	29·583	7th	52·6	49·5	73·8	−1·4	43·4	+0·7	61·1	−0·3	25·4	76·5	12th	41·4	31st
10	Jhansi	824	29·223	−·056	30·060	29·302	22nd	29·148	7th	52·6	47·9	76·9	−1·4	45·2	−7·2	61·0	−4·3	31·7	83·8	17th	39·7	25th & 26th.
	Agra	556	29·509	−·063	20·063	29·596	22nd	29·427	6th	55·0	48·0	74·2	−1·2	45·9	−3·2	60·1	−2·2	28·4	80·4	16th	41·0	26th
	Mainpuri	516	29·540	−·031	30·056	29·632	22nd	29·471	7th	48·8	45·5	73·2	−1·7	43·6	−3·5	58·4	−2·6	29·6	78·5	17th	39·1	26th
	Bareilly	568	29·467	−·024	30·038	29·550	22nd	29·405	7th	51·0	48·7	72·0	−0·7	44·2	−1·8	58·1	−1·3	27·8	75·7	16th	38·0	31st
	Roorkee	899	29·122	−·033	30·064	29·220	22nd	29·058	6th	45·4	43·8	70·0	−1·9	40·9	−2·4	55·4	−2·1	29·1	73·1	16th	33·7	31st
	VI.—Punjab.																					
11	Delhi	718	29·324	−·035	30·061	29·415	22nd	29·251	6th	50·9	44·1	72·1	−1·2	46·6	−2·4	59·2	−1·8	25·5	77·0	15th	40·0	26th
	Hissar	725	29·315	−·046	30·068	29·412	22nd	29·238	16th	45·0	40·3	74·1	−0·1	39·8	−3·2	56·9	−1·7	34·3	79·4	9th	32·3	26th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 28 days
† " " 29 "
‡ " " 30 "

B—*continued.*

at 214 stations in India, etc., in December, 1916—*continued.*

Wind direction. Number of winds from Calm (24)	N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st to 31st December, 1916. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															III.—Bengal—*concld.*
25	4	1	0	0	0	0	0	1	N	N 11° W	1·2	1·1	+0·1	17	−22	79	− 5	·430	−·020	0·4	−0·9	0	− 0·5	0	0·19	− 0·19	0	0·19	− 0·19	0	Jessore.
12	4	0	0	0	0	0	3	12	N 43° W	N 22° W	1·0	1·2	−0·2	53	+14	79	+ 6	·406	+·016	1·0	−0·6	0	− 0·3	0	0·16	− 0·16	0	0·16	− 0·16	0	Burdwan.
21	3	0	1	1	0	2	2	1	N 56° W	N 41° W	0·7	1·0	−0·2	10	−30	84	0	·411	−·016	0·5	−1·2	0	− 0·3	0	0·11	− 0·11	0	0·11	− 0·11	0	Berhampore.
																															IV.—Bihar and Orissa.
10	5	1	0	0	0	0	0	15	N 31° W	N 25° W	0·9	1·5	−0·6	62	−10	83	+ 5	·433	+·011	1·5	+0·1	0	− 0·5	0	0·26	− 0·26	0	0·26	− 0·26	0	Balasore.
0	10	0	0	0	0	0	1	20	N 32° W		5·2			92	+ 6					2·1	−0·6	0	− 0·9	0	0·77	− 0·77	0	0·77	− 0·77	0	Hukitala (False Point).
31	0	0	0	0	0	0	0	0	Calm	N 48° W	0·4	0·9	−0·5	(a)		81	+ 4	·448	−·006	0·9	−1·4	0	− 0·6	0	0·35	− 0·35	0	0·35	− 0·35	0	Cuttack.
2	18	10	0	1	0	0	0	0	N 18° E		5·3			84		87*	+10	·523*	+·014	1·2	−0·2	0	− 0·6	0	0·43	− 0·43	0	0·43	− 0·43	0	Puri.
13	0	0	0	0	0	0	6	12	N 59° W		1·9			55		77	− 2	·412	−·015	1·0	−0·6	0	− 1·2	0	0·53	− 0·53	0	0·53	− 0·53	0	Angul.
0	18	5	1	0	0	0	0	7	N 1° W	N 16° E	2·4	1·8	+0·6	85	+ 4	80	+ 6	·386	−·020	0·4	−1·4	0	− 0·4	0	0·28	− 0·28	0	0·28	− 0·28	0	Sambalpur.
22	0	0	0	0	1	8	0	0	S 41° W	S 68° W	1·1	0·7	+0·4	30	−10	84	− 2	·352	−·026	1·3	−0·2	0	− 0·6	0	0·24	− 0·24	0	0·24	− 0·24	0	Chaibasa.
7	2	1	1	0	1	0	7	12	N 53° W	N 68° W	2·5	3·1	−0·6	56	+17	68	+ 4	·297	−·012	0·9	−0·7	0	− 0·6	0	0·22	− 0·22	0	0·22	− 0·22	0	Ranchi.
0	1	1	0	0	0	0	7	22	N 52° W		1·8			90		71	+ 2	·345	0	1·0	−0·3	0	− 0·6	0	0·17	− 0·17	0	0·17	− 0·17	0	Purulia.
30	0	0	0	1	0	0	0	0	S 45° E		1·2			3		85	+ 4	·309	−·036	0·2	−1·0	0	− 0·6	0	0·24	− 0·24	0	0·24	− 0·24	0	Daltonganj.
9	0	0	2	0	1	12	5	2	S 58° W	S 88° W	1·5	1·1	+0·4	49	+30	92	+ 1	·395	+·016	2·1	+1·3	0	− 0·2	0	0·10	− 0·10	0	0·10	− 0·10	0	Purnea.
3	0	0	1	1	4	15	7	0	S 47° W		2·4			71		74		·352		0		0		0			0			0	Monghyr.
26	0	0	0	0	0	0	4	1	N 81° W	N 86° W	0·7	1·5	−0·8	17	−13	85	− 2	·400	−·001	0·1	−0·7	0	− 0·1	0	0·06	− 0·06	0	0·06	− 0·06	0	Darbhanga.
15	1	1	0	0	4	5	3	2	S 60° W		1·2			26		90		·383		0		0		0			0			0	Pusa.
19	0	0	0	0	2	7	3	0	S 49° W	S 78° W	1·6	1·4	+0·2	33	−21	75	0	·368	−·003	0	−1·1	0	− 0·3	0	0·09	− 0·09	0	0·09	− 0·09	0	Patna.
6	0	1	0	0	1	15	8	0	S 59° W		1·8			65		78	+ 7	·346	−·002	0·2	−1·2	0	− 0·5	0	0·21	− 0·21	0	0·21	− 0·21	0	Buxar.
17	1	0	0	8	2	2	1	0	S 22° E	S 10° W	1·0	1·8	−0·8	27	− 5	67	− 5	·320	−·023	0·1	−1·6	0	− 0·2	0	0·14	− 0·14	0	0·14	− 0·14	0	Gaya.
30	1	0	0	0	0	0	0	0	N		0·8			3		76	+ 3	·375	+·010	0·5	−0·6	0	− 0·3	0	0·08	− 0·08	0	0·08	− 0·08	0	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
11	1	0	1	0	1	2	14	1	S 87° W	N 69° W	1·1	0·8	+0·3	49	+17	82	+ 1	·351	−·017	0	−1·1	0	− 0·4	0	0·15	− 0·15	0	0·15	−0·15	0	Gorakhpur.
15	0	0	0	2	2	10	1	1	S 37° W	S 56° W	1·0	1·7	−0·7	40	+11	85	+ 4	·351	−·002	0·1	−1·1	0	− 0·5	0·03	0·25	− 0·22	0·03	0·25	− 0·22	0·03	Benares.
26	0	0	0	0	0	0	4	1	N 81° W	N 76° W	0·6	2·2	−1·6	17	−12	84	+ 7	·326	−·014	2·4	+0·9	0	− 0·5	0	0·27	− 0·27	0	0·27	− 0·27	0	Allahabad.
18	0	0	0	0	2	6	4	1	S 58° W	N 82° W	0·8	1·8	−1·0	33	+ 4	86	+ 1	·313	−·001	0	−1·2	0	− 0·7	0	0·24	− 0·24	0	0·24	− 0·24	0	Cawnpore.
29	0	0	0	0	0	0	2	0	W	N 76° W	1·3	1·2	+0·1	6	−23	76	− 3	·309	−·012	0·1	−1·3	0	− 0·8	0	0·35	− 0·35	0	0·35	− 0·35	0	Lucknow.
19	1	1	1	0	0	1	5	3	N 63° W	N 51° W	0·6	1·1	−0·5	23	− 1	79	− 3	·315	−·030	0·1	−1·0	0	− 0·7	0	0·32	− 0·32	0	0·32	− 0·32	0	Bahraich.
9	0	0	0	0	0	16	5	1	S 59° W	N 79° W	1·8	1·5	+0·3	66	+48	68	+ 9	·273	−·033	0·5	−0·6	0	− 0·7	0	0·27	− 0·27	0	0·27	− 0·27	0	Jhansi.
19	0	0	2	1	1	3	3	2	S 57° W	N 61° W	1·0	2·1	−1·1	13	−23	56	−11	·243	−·035	0·4	−1·0	0	− 0·8	0	0·33	− 0·33	0	0·33	− 0·23	0	Agra.
20	1	0	0	1	0	1	5	3	N 77° W	N 66° W	0·5	0·8	−0·3	23	− 1	76	+ 2	·266	−·022	0·4	−1·5	0	− 1·1	0	0·46	− 0·46	0	0·46	− 0·46	0	Mainpuri.
24	0	1	1	1	0	0	2	2	N 38° W	N 44° W	0·3	1·2	−0·9	3	−11	84	+ 3	·314	+·007	0·5	−1·0	0	− 1·0	0	0·38	− 0·38	0	0·38	− 0·38	0	Bareilly.
28	0	0	0	2	0	0	0	1	S	N 39° W	0·5	1·0	−0·5	3	− 4	87	+ 3	·264	−·013	0·9	−1·2	0	− 1·3	0	0·63	− 0·63	0	0·63	− 0·63	0	Roorkee.
																															VI.—Punjab.
6	0	1	0	0	0	0	13	11	N 67° W	N 87° W	2·0	1·8	+0·2	69	+25	59	− 4	·214	−·039	0·6	−1·6	0	− 1·1	0	0·48	− 0·48	0	0·48	− 0·48	0	Delhi.
6	1	0	3	2	3	8	3	5	S 54° W	N 84° W	2·3	2·0	+0·3	30	+23	63	− 8	·190	−·054	1·5	−0·9	0	− 0·8	0	0·31	− 0·31	0	0·31	− 0·31	0	Hissar.

* Mean of 28 days.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab—*concld.*																					
	Patiala	*818*	29·199	—·050	30·055	29·324	5th	29·130	6th	45·1	42·1	71·7	+0·5	41·5	—2·7	56·6	—1·1	30·2	76·8	15th	35·9	30th
	Ambala	892	29·117	—·047	30·057	29·215	22nd	29·050	6th	43·8	42·0	72·0	—0·1	39·3	—4·2	55·7	—2·1	32·7	77·7	15th & 16th.	32·1	30th
	Ludhiana	812	29·212	—·041	30·063	29·316	22nd	29·135	6th	45·6	42·3	70·7	+0·3	42·7	—1·7	56·7	—0·7	28·0	75·5	15th	37·4	25th
	Lahore	702	29·327	—·047	30·067	29·414	22nd	29·253	1st	41·6	40·0	72·0	—0·8	39·5	—1·4	55·7	—1·1	32·5	76·6	15th	35·2	31st
	Sialkot	830	29·194	—·045	30·069	29·287	22nd	29·125	6th	45·3	43·2	69·9	+0·3	38·7	—4·0	54·3	—1·9	31·2	74·2	2nd	33·5	24th & 31st.
	Rawalpindi	1,674	28·326	—·058	30·106	28·411	14th	28·258	1st	42·0	38·7	68·9	+1·8	35·8	—1·6	52·4	+0·1	33·1	77·8	15th	30·8	31st
12	Khushab	612	29·438	—·040	30·088	29·530	11th & 22nd.	29·373	1st	44·5	38·7	71·9	—0·2	38·1	—4·0	55·0	—2·1	33·8	77·6	15th	31·1	27th
	Lyallpur	605	29·433		30·062	29·521	22nd	29·355	1st	43·9	41·7	71·9		38·5		55·2		33·4	77·5	14th	34·0	26th
	Montgomery	558	29·492	—·048	30·066	29·581	22nd	29·408	16th	47·9	43·0	72·3	—0·2	41·0	—1·6	56·6	—0·9	31·3	76·6	8th	33·2	24th
	Multan	426	29·633	—·054	30·059	29·730	22nd	29·532	1st	49·1	43·8	73·8	+0·3	44·9	—0·1	59·4	+0·1	28·9	77·4	6th	39·5	27th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·915	—·073	30·110	29·004	14th	28·827	26th	40·3	37·5	67·4	+0·4	36·5	—2·7	51·9	—1·1	30·9	72·8	9th	31·2	24th
	Dera Ismail Khan	590	29·454	—·075	30·073	29·546	11th	29·364	1st	42·4	39·1	70·2	—2·1P	39·0	—1·5	54·7	—1·8P	31·2	76·4	15th	33·5	26th
	VIII.—Sind.																					
16	Jacobabad	186	29·891	—·047	30·053	29·979	22nd	29·805	1st	47·0	42·8	76·2	—0·5	42·6	—1·7	59·4	—1·1	33·6	81·3	7th	36·2	23rd & 24th.
	Hyderabad	96	29·975	—·050	30·029	30·053	18th	29·894	6th	55·8	50·0	78·0	—1·0	50·5	—1·8	64·3	—1·4	27·5	84·9	6th	44·0	25th
	Karachi	13	30·063	—·047	30·026	30·141	18th	29·987	6th	61·3	53·7	78·2	+0·1	58·4	—1·2	68·3	—0·5	19·9	83·0	15th	53·5	20th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·267	—·050	30·050	29·350	14th	29·183	6th	49·7	42·1	77·1	+2·0P	44·3	—6·1	60·7	—2·1P	32·8	84·4	16th	39·1	21st
	Jodhpur	780	29·261	—·038	30·048	29·331	22nd	29·199	26th	55·3	45·5	79·4	—0·3	48·7	—4·0	64·1	—2·1	30·7	85·0	6th	42·5	2nd & 27th
18	Jaipur	1,431	28·603	—·042	30·078	28·683	22nd	28·536	6th	53·1	45·0	77·0	—0·3	44·5	—4·6	60·7	—2·5	32·5	83·8	7th	38·1	24th
	Ajmer	1,611	28·420	—·047	30·102	28·494	22nd	28·344	6th	45·3	41·4	74·0	—2·2	42·5	—4·0	58·2	—3·1	31·5	81·2	7th	36·7	26th
	Kotah	832	29·209	—·044	30·045	29·291	22nd	29·133	6th	57·1	49·9	78·7	—0·5	50·1	—3·2	64·4	—1·9	28·6	85·8	7th	44·6	26th
	X.—Bombay.																					
19	Deesa	466	29·571	—·037	30·024	29·637	14th	29·519	7th & 11th.	57·6	49·0	86·4	+0·7	48·5	—4·1	67·5	—1·7	37·9	90·9	8th	41·0	27th
	Bhuj	334	29·698	—·049	29·999	29·771	18th	29·629	7th	63·2	53·9	82·3	+0·3	50·4	—5·6	66·3	—2·7	31·9	90·4	7th	43·7	20th
	Jamnagar	61	29·986	—·040	29·995	30·052	9th	29·910	23rd	63·3		80·5	—1·5	53·6	—1·7	67·1	—1·6	26·9	83·7	4 days	49·1	19th
	Dwarka	37	30·010	—·045	29·994	30·070	15th	29·948	7th	66·6	60·3	82·3	+1·4	61·1	+0·3	71·7	+0·9	21·2	88·1	14th	56·7	20th
	Rajkot	429	29·587	—·052	29·985	29·642	15th	29·524	14th	62·2	52·2	84·5	—0·7	50·9	—2·0	67·7	—1·3	33·6	91·6	8th	43·6	19th
	Veraval	*18*	30·004	—·038	29·965	30·052	15th	29·959	7th	67·1	57·1	81·7	—2·5	62·2	0	72·0	—1·3	19·5	89·3	6th	56·8	18th
	Bhavnagar Para	55	29·981	—·040	29·984	30·034	15th	29·938	7th	62·5		84·7	—0·7	54·1	—2·2	69·4	—1·5	30·6	89·8	3th	47·2	28th
	Surat	39	29·990	—·035	29·973	30·050	15th	29·949	7th	65·1	57·4	86·5	—1·2	58·2	—0·1	72·3	—0·7	28·3	90·7	1st	52·9	27th
	Ahmadabad	163	29·892	—·025	30·011	29·955	14th	29·829	6th	66·4	54·1	86·5	+0·1	57·3	—2·2	71·9	—1·1	29·2	90·5	9th	51·3	27th
25	Bombay	37	29·972	—·035	29·950	30·029	15th	29·924	2nd	72·6	67·6	84·2	—0·5	70·6	+0·6	77·4	+0·1	13·6	89·2	5th	64·5	31st
	Ratnagiri	207	29·773	—·039	29·923	29·818	9th	29·719	27th	75·2	64·4	87·9	—1·4	67·8	+0·5	77·2	—0·5	20·1	92·1	5th	61·9	31st
	Marmagao	*60*	29·930	—·033	29·926	29·982	15th	29·874	27th	71·0	66·4	81·3	—4·5	68·9	—1·6	75·1	—3·1	12·4	84·2	5th	64·6	26th
	Karwar	41	29·947	—·024	29·926	29·995	31st	29·903	2nd	67·7	64·2	87·1	—0·5	64·6	—1·8	75·9	—1·1	22·5	91·5	5th	59·1	26th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 214 stations in India, etc., in December, 1916—*continued.*

Wind direction. Number of winds from Calm. (23)	N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st to 31st December, 1916. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															VI.—Punjab—*concld.*
14	1	1	1	2	0	0	3	9	N 41° W		3·0			29		77	−1	·230	−·014	2·0	−0·4	0	−1·3	0	0·40	−0·40	0	0·40	−0·40	0	Patiala.
18	3	1	0	1	0	0	0	8	N 26° W	N 44° W	1·8	1·1	+0·7	33	+13	86	+4	·247	−·024	1·5	−0·9	0	−1·6	0	0·69	−0·69	0	0·69	−0·69	0	Ambala.
25	0	0	0	0	0	1	3	2	N 82° W	N 47° W	0·7	0·9	−0·2	17	0	75	0	·227	−·031	0·6	−2·3	0	−1·4	0	0·75	−0·75	0	0·75	−0·75	0	Ludhiana.
31	0	0	0	0	0	0	0	0	Calm	N 58° W	0·5	0·9	−0·4	(a)		87	+5	·230	−·025	1·7	−0·9	0	−0·9	0	0·40	−0·40	0	0·40	−0·40	0	Lahore.
24	1	1	4	1	0	0	0	0	N 80° E	N 63° E	0·3	0·7	−0·4	17	+10	85	+10	·255	+·003	1·5	−0·9	0	−1·1	0·02	0·69	−0·67	0·02	0·69	−0·67	0·02	Sialkot.
26	2	0	0	0	2	2	4	1	S 83° W	N 41° W	1·5	0·9	+0·6	20	+6	73	−1	·196	−·011	3·2	−0·4	1	−0·7	0·32	0·97	−0·65	0·32	0·97	−0·65	0·32	Rawalpindi.
29	0	0	0	1	0	0	1	0	S 23° W	N 27° E	3·7	1·5	+2·2	2	−12	53	−7	·161	−·037	3·2	+0·7	0	−0·6	0	0·43	−0·43	0	0·43	−0·43	0	Khushab.
24	0	1	1	1	0	2	0	2	W		0·7			1		80		·232		2·1		0	−0·5	0	0·20	−0·20	0	0·20	−0·20	0	Lyallpur.
11	1	2	2	7	3	1	2	2	S 41° E	N 63° E	1·7	1·9	−0·2	23	+5	64	0	·214	−·013	1·9	−0·6	0	−1·1	0	0·38	−0·38	0	0·38	−0·38	0	Montgomery.
25	4	0	0	1	0	0	0	1	N	N 53° E	0·3	0·8	−0·5	13	−5	63	−6	·217	−·041	0·9	−1·2	0	−0·7	0	0·25	−0·25	0	0·25	−0·25	0	Multan.
																															VII.—North-West Frontier Province.
27	0	0	0	0	2	1	0	1	S 34° W	S 16° W	0·4	1·7	−1·3	7	−22	77	+7	·193	−·012	2·5	−1·2	0	−1·1	0	0·49	−0·49	0	0·49	−0·49	0	Peshawar.
28	1	0	0	0	0	0	1	1	N 45° W	N 32° W	0·2	0·6	−0·4	10	−1	73	+1	·203	−·019	2·7	+0·1	0	−0·7	0	0·21	−0·21	0	0·21	−0·21	0	Dera Ismail Khan.
																															VIII.—Sind.
23	0	1	0	3	0	1	0	3	Calm	N 7° E	0·9	1·2	−0·3	(a)		69	+3	·220	−·029	0·8	−1·8	0	−0·4	0·02	0·11	−0·09	0·02	0·11	−0·09	0·02	Jacobabad.
9	20	1	0	1	0	0	0	0	N 4° E	N 2° E	2·5	5·1	−2·6	66	+10	64	+9?	·283	+·012?	0	−2·0	0	−0·2	0	0·06	−0·06	0	0·06	−0·06	0	Hyderabad.
1	6	20	3	0	0	0	1	0	N 39° E	N 54° E	4·9	6·1	−1·2	82	0	58	0	·317	−·024	2·3	+0·4	0	−0·4	0	0·13	−0·13	0	0·13	−0·13	0	Karachi.
																															IX.—Rajputana.
12	0	1	7	7	1	1	1	1	S 63° E	N 4° W	1·3	2·4	−1·1	37	+15	47	−7	·169	−·057	1·3	−1·1	0	−0·4	0	0·19	−0·19	0	0·19	−0·19	0	Bikaner.
6	7	15	3	0	0	0	0	0	N 37° E		2·1			69		39	−5	·169	−·044	0·9	−1·3	0	−0·5	0	0·14	−0·14	0	0·14	−0·14	0	Jodhpur.
11	2	4	3	2	0	2	3	4	N	N 2° W	2·0	2·1	−0·1	15	−7	49	−9	·197	−·058	0·9	−1·1	0	−0·6	0	0·22	−0·22	0	0·22	−0·22	0	Jaipur.
31	0	0	0	0	0	0	0	0	Calm	N 24° E	0·3	1·2	−0·9	(a)		70	−2	·215	−·055	0·6	−1·4	0	−0·5	0	0·28	−0·28	0	0·28	−0·28	0	Ajmer.
18	0	3	0	3	0	4	0	3	S 45° W		1·0			3		57	−1	·265	−·024	0·6	−0·7	0	−0·6	0	0·29	−0·29	0	0·29	−0·29	0	Kotah.
																															X.—Bombay.
7	0	9	12	2	0	0	0	1	N 74° E	N 72° E	4·0	5·8	−1·8	66	−6	49	+3	·235	−·010	1·5	+0·2	0	−0·2	0	0·06	−0·06	0	0·06	−0·06	0	Deesa.
28	1	0	0	0	0	0	2	0	N 63° W	N 15° W	2·1	4·2	−2·1	7	0	51	−6	·296	−·053	0·8	−0·6	0	−0·1	0	0·05	−0·05	0	0·05	−0·05	0	Bhuj.
5	0	8	12	4	1	1	0	0	N 87° W		3·7			64		65	+13?	·372	+·052?	1·4	+0·7	0	−0·3	0	0·07	−0·07	0	0·07	−0·07	0	Jamnagar.
2	3	18	7	0	0	0	0	1	N 49° E		6·7			79		67	0	·440	−·033	2·2	+0·8	0	−0·3	0	0·06	−0·06	0	0·06	−0·06	0	Dwarka.
13	1	4	10	2	0	1	0	0	N 83° E	N 69° E	3·4	3·4	0	43	−7	48	−3	·258	−·035	3·2	+2·2	0	−0·2	0	0·05	−0·05	0	0·05	−0·05	0	Rajkot.
2	14	11	2	1	0	0	0	1	N 24° E	N 27° E	5·1	4·2	+0·9	79	+4	50	−1	·335	−·018	1·6	0	0	−0·3	0	0·12	−0·12	0	0·12	−0·12	0	Veraval.
3	4	0	2	0	2	2	9	9	N 65° W	N 77° W	2·9	4·6	−1·7	53	−5	55	+1	·313	−·006	2·0	+0·4	0	−0·2	0	0·10	−0·10	0	0·10	−0·10	0	Bhavnagar Para.
8	4	7	9	2	0	0	0	1	N 61° E	N 48° E	1·8	3·2	−1·4	56	−2	60	−1	·371	−·026	1·7	+0·4	0	−0·2	0	0·05	−0·05	0	0·05	−0·05	0	Surat.
5	1	16	7	1	0	0	0	1	N 56° E	N 62° E	3·5	3·4	+0·1	69	−5	40	−7	·260	−·035	1·3	−0·1		−0·1	0	0·04	−0·04	0	0·04	−0·04	0	Ahmadabad.
0	0	12	18	1	0	0	0	0	N 74° E	N 70° E	5·3	7·1	−1·8	92	+6	76	+4	·609	+·024	1·3	−0·4	0	−0·2	0	0·07	−0·07	0	0·07	−0·07	0	Bombay.
3	0	3	16	8	1	0	0	0	S 80° E	S 74° E	6·0	5·8	+0·2	79	+14	53	−2	·463	−·011	1·1	−0·2	0	−0·3	0	0·09	−0·09	0	0·09	−0·09	0	Ratnagiri.
0	0	13	18	0	0	0	0	0	N 72° E	S 77° E	6·2	5·8	+0·4	92	+12	77	+1	·587	−·035	1·5	0	0	−0·3	0	0·18	−0·18	0	0·18	−0·18	0	Marmagao.
25	6	0	0	0	0	0	0	0	N	N 67° E	1·2	2·2	−1·0	19	−61	83	+7	·559	+·006	1·1	−0·1	0	−0·2	0	0·18	−0·18	0	0·18	−0·18	0	Karwar.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay —concld.																					
26	Malegaon	1,430	28·589	—·036	30·023	28·658	15th	28·542	26th	61·8	55·2	84·8	+0·1	52·5	+0·7	68·7	+0·4	32·3	89·9	2nd	45·3	28th
	Ahmadnagar	2,154	27·860	—·045	29·998	27·920	15th	27·815	27th	62·7	54·8	78·0*	—4·8*	51·4	—0·8	63·6*	—2·8	26·6	79·6	22nd	44·7	28th
	Poona	1,846	28·159	—·043	30·007	28·214	15th	28·111	27th	61·1	56·9	82·7	—1·9	53·0	—0·8	67·6	—1·3	29·7	88·0	2nd	45·1	31st
	Sholapur	1,590	28·415	—·042	29·982	28·479	15th	28·372	26th	66·7	57·3	83·2	—2·3	57·1	—0·9	70·1	—1·6	26·1	86·5	4th	49·4	25th
	Bijapur	*1,948*	28·046	—·045	29·972	28·099	15th	27·987	27th	64·7	57·9	80·5	—4·1	55·4	—1·9	68·0	—3·0	25·1	84·4	2nd	47·6	28th
	Belgaum	2,562	27·416	—·034	29·971	27·507	15th	27·402	27th	64·1	57·6	78·9	—2·8	55·6	—2·7	67·2	—2·7	23·3	82·1	5th	48·9	26th
	XI.—Central India.																					
20	Neemuch	1,626	28·405	—·044	30·060	28·492	14th	28·344	26th	56·3	47·6	78·0	—0·5	46·1	—3·1	62·1	—1·8	31·9	85·0	7th	39·3	27th
	Indore	1,823	28·186	—·050	30·037	28·257	15th	28·112	26th	56·7	50·9	79·1	—0·6	49·4	—0·2	64·2	—0·4	29·7	83·8	8th	42·3	27th
21	Nowgong	754	29·287	—·050	30·056	29·375	22nd	29·213	7th	48·3	46·2	72·6	—2·6	43·5	—3·2	58·0	—2·9	29·1	79·0	17th	37·5	25th
	Sutna	1,041	28·994	—·038	30·067	29·064	14th	28·940	2nd	50·0	46·7	72·4	—2·9	44·0	—3·3	58·2	—3·1	28·4	80·8	18th	38·0	5 days
	XII.—Central Provinces.																					
22	Buldana	2,134								65·9	55·8	78·7	—0·9	56·8	—1·0	67·8	—0·9	21·9	84·0	3rd	51·8	27th
	Akola	925	29·106	—·040	30·020	29·184	14th	29·046	2nd	62·5	55·3	83·0	—0·9	52·5	+0·6	67·8	—0·1	30·5	88·3	3rd	44·8	28th
	Amraoti	1,215	28·809	—·042	30·014	28·882	14th	28·752	2nd	64·5	55·5	82·0	—0·9	56·3	—0·9	69·2	—0·9	25·7	87·2	2nd	47·7	25th
23	Khandwa	1,044	28·983	—·040	30·031	29·060	14th	28·924	2nd	58·9	53·9	82·3	—1·2	51·5	+0·7	66·9	—0·3	30·8	87·4	9th	43·3	28th
	Hoshangabad	1,006	29·044	—·036	30·058	29·118	15th	28·986	7th	56·6	51·6	77·6	—1·8	49·9	—1·8	63·7	—1·8	27·7	81·9	1st	43·8	28th
	Saugor	1,807	28·209	—·053	30·042	28·283	9th	28·143	25th	56·7	48·4	76·1	—0·7	50·2	—2·3	63·2	—1·5	25·9	82·6	8th	43·2	28th
	Jubbulpore	1,327	28·697	—·042	30·060	28·770	14th	28·640	31st	51·5	47·8	74·5	—2·6	45·7	—0·7	60·1	—1·7	28·8	79·5	17th	38·1	26th
	Seoni	2,033	27·993	—·032	30·054	28·061	14th	27·930	26th	57·0	50·8	75·6	—2·3	49·3	—0·8	62·4	—1·5	26·3	81·4	2rd	42·7	13th
	Nagpur	1,017	29·020	—·033	30·034	29·094	14th	28·963	31st	60·4	54·0	80·0	—1·6	51·9	—2·5	65·9	—2·1	28·1	85·9	1st	44·3	24th
24	Pendra	2,040	27·982	—·028	30·056	28·056	14th	27·903	27th	55·6	49·8	73·6	—1·6	47·8	—2·1	60·7	—1·9	25·8	78·8	18th	42·2	26th
	Raipur	970	29·069	—·032	30·038	29·146	14th	29·002	27th	58·4	53·5	78·5	—0·9	52·0	—2·1	65·2	—1·5	26·5	85·2	1st	45·6	24th
	Chanda	*634*	29·404	—·044	30·015	29·480	14th	29·340	2nd	61·1	57·2	81·0	—1·6	51·2	—0·9	66·1	—1·3	29·8	86·5	1st & 3rd	42·6	26th
	Jagdalpur	1,813	28·200		30·026	28·264	14th	28·129	31st	57·9	55·0	75·3		50·5		64·4		27·8	84·4	2nd	45·2	4 days
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·120	—·051	30·002	28·181	15th	28·071	26th	66·6	57·1	82·0	—1·8	54·8	+0·3	68·4	—0·7	27·2	87·6	3rd	47·1	27th
	Nizamabad	1,248	28·771	P	30·005	28·836	15th	28·725	2nd	64·5	58·8	81·8	—1·2	54·4	+0·7	68·1	—0·3	27·4	86·9	4th	45·7	24th
	Bidar	*2,165*								67·5	59·7	80·3	—0·6	58·9	—1·6	69·6	—1·1	21·4	84·6	2nd & 4th	52·4	25th
28	Gulbarga	1,503	28·514	—·035	29·989	28·566	15th	28·479	27th	65·4	56·7	83·4	—1·9	56·3	—2·2	69·9	—2·1	27·1	88·0	2nd	48·8	26th
	Raichur	*1,311*	28·708	—·011	29·986	28·766	15th	28·661	27th	69·8	64·9	82·8	—1·9	63·5	0	73·2	—0·9	19·3	87·8	4th	55·6	26th
	Hyderabad (Deccan)	1,738	28·304	—·027	30·006	28·358	14th & 15th.	28·252	27th	65·0	60·9	78·2	—4·6	57·1	—0·9	67·7	—2·7	21·1	82·5	2nd & 4th	49·5	25th
	Hanamkonda	877	29·161	—·017	30·007	29·217	14th & 15th.	29·113	27th	69·0	62·3	81·1	—2·3	60·8	+0·1	70·9	—1·1	20·3	86·3	4th	53·2	25th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·599	—·021	29·946	27·646	9th	27·537	27th	67·6	60·9	80·2	—1·7	59·7	—1·3	70·0	—1·5	20·5	83·7	5th	54·9	24th
	Hassan	3,149	26·889	—·015	29·956	26·980	9th	26·823	27th	64·3	59·9	78·5	—1·2	56·4	+0·5	67·4	—0·3	22·1	81·2	2nd	50·6	26th
	Bangalore	3,021	27·007	—·030	29·955	27·047	9th	26·937	27th	63·9	60·7	78·0	—0·5	57·5	—1·0	67·8	—0·7	20·5	81·3	30th	53·8	19th
	Mysore	2,518	27·484	—·030	29·943	27·53[illegible]	9th	27·423	27th	66·7	62·7	79·1	—2·8	59·2	—1·0	69·1	—1·9	19·9	83·0	31st	53·5	20th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 10 days.

B—*continued.*

at 214 stations in India, etc., in December, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
21	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															X.—Bombay—*concld.*
9	0	1	0	0	0	18	3	0	S 51° W	N 69° W	2·5	3·1	−0·6	62	+ 1	64	+11	·359	+·052	0·8	−1·0	0	−0·4	0	0·22	−0·22	0	0·22	−0·22	0	Malegaon.
11	2	0	0	4	4	3	2	5	S 55° W	N 81° E	2·8	3·9	−1·1	20	+15	53	0	·335	−·016	0·5	−1·0	0	−0·7	0	0·45	−0·45	0	0·45	−0·45	0	Ahmadnagar.
0	0	0	6	0	0	0	24	1	N 88° W	N 88° E	4·5	4·4	+0·1	62	+40	76	+18?	·418	+·085?	0·1	−1·6	0	−0·5	0	0·19	−0·19	0	0·19	−0·19	0	Poona.
6	0	4	6	14	0	0	0	1	S 71° E	S 74° E	5·1	5·8	−0·7	62	− 6	54	+ 5	·362	+·019	1·1	−1·0	0	−0·6	0	0·46	−0·46	0	0·46	−0·46	0	Sholapur.
7	1	2	4	10	6	0	0	1	S 50° E	S 67° E	1·9	2·8	−0·9	53	−16	64	− 3	·398	−0·50	0·5	−1·7	0	−0·6	0	0·30	−0·30	0	0·30	−0·30	0	Bijapur.
13	0	3	15	0	0	0	0	0	N 83° E	S 81° E	7·6	8·8	−1·2	56	−20	66	+ 8	·398	+·006	1·4	−0·6	0	−0·5	0	0·34	−0·34	0	0·34	−0·34	0	Belgaum.
																															XI.—Central India.
14	7	0	8	0	2	0	0	0	N 58° E	N 58° E	2·7	4·2	−1·5	30	−35	49	− 6	·225	−·038	1·2	−0·3	0	−0·6	0	0·21	−0·21	0	0·21	−0·21	0	Neemuch.
19	0	2	3	3	2	0	1	1	S 67° E	N 68° E	1·8	1·3	+0·5	17	− 1	66	+ 7	·305	−·009	1·1	−0·5	0	−0·6	0	0·25	−0·25	0	0·25	−0·25	0	Indore.
13	3	2	2	2	5	1	3	0	S 23° E	N 76° W	0·8	0·8	0	10	− 4	84	+10	·288	−·021	0·8	−0·9	0	−0·7	0	0·50	−0·50	0	0·50	−0·50	0	Nowgong.
26	1	0	0	0	0	0	4	0	N 76° W	N 24° W	1·0	2·5	−1·5	13	−31	78	+10	·284	−·008	0·5	−1·2	0	−0·8	0	0·43	−0·43	0	0·43	−0·43	0	Satna.
																															XII.—Central Provinces.
0	0	0	11	9	4	3	0	4	S 50° E		3·5	4·0	−0·5	52		51		·329		1·7		0	−1·1	0	0·59	−0·59	0	0·59	−0·59	0	Buldana.
8	0	5	9	6	2	0	0	1	S 83° E	S 85° E	2·2	2·3	−0·1	53	+ 9	60	+ 3	·347	+·026	1·2	−0·8	0	−1·1	0	0·71	−0·71	0	0·71	−0·71	0	Akola.
14	0	9	7	0	0	1	0	0	N 66° E	N 72° E	2·1	2·3	+0·8	46	−26	52	0	·323	−·009	0·3	−1·5	0	−0·8	0	0·57	−0·57	0	0·57	−0·57	0	Amraoti.
14	0	6	2	5	2	1	0	1	S 81° E	N 63° E	1·9	2·0	−0·1	27	− 5	70	+13	·353	+·055	0·7	−0·8	0	−0·4	0	0·31	−0·31	0	0·31	−0·31	0	Khandwa.
5	0	13	7	4	0	1	0	1	N 71° E	N 63° E	1·5*	1·9	−0·4	59	− 6	68	+ 1	·312	−·009	0·2	−1·4	0	−0·8	0	0·51	−0·51	0	0·51	−0·51	0	Hoshangabad.
10	0	5	5	7	1	2	1	0	S 71° E	S 77° E	2·9	2·0	+0·9	40	+ 8	52	− 2	·237	−·039	0·7	−0·7	0	−0·6	0	0·53	−0·53	0	0·53	−0·53	0	Saugor.
10	0	1	4	12	4	0	0	0	S 43° E	S 41° E	0·9	1·2	−0·3	59	+23	75	0	·287	−·034	0·1	−1·3	0	−0·6	0	0·31	−0·31	0	0·31	−0·31	0	Jubbulpore.
26	1	2	0	0	0	0	2	0	N 15° W	N 30° E	1·2	1·6	−0·4	7	−35	63	− 1	·298	−·029	0·8	−0·9	0	−0·8	0	0·55	−0·55	0	0·55	−0·55	0	Seoni.
4	13	7	3	0	0	0	0	4	N 14° E	N 7° E	2·2	2·2	0	72	+43	63	+ 3	·335	−·010	1·0	−1·1	0	−0·9	0	0·56	−0·56	0	0·56	−0·56	0	Nagpur.
18	4	3	0	0	1	1	0	4	N 11° W		1·9			23		65	+ 4	·289	−·005	0·8	−0·4	0	−0·7	0	0·38	−0·38	0	0·38	−0·38	0	Pendra.
13	1	5	6	1	1	1	0	3	N 60° E	N 14° E	0·9	1·8	−0·9	27	+11	70	+ 5	·344	−·008	1·3	−0·6	0	−0·5	0	0·26	−0·26	0	0·26	−0·26	0	Raipur.
29	0	0	1	0	0	0	0	1	N 23° E	N 39° E	0·3	1·2	−0·9	2	−30	78	+ 5	·429	+·030	0·6	−1·1	0	−0·8	0	0·28	−0·28	0	0·28	−0·28	0	Chanda.
8	12	0	3	0	1	0	6	1	N 18° W		1·2			43		82		·400		3·5		0		0			0			0	Jagdalpur.
																															XIII.—Hyderabad.
4	0	4	14	6	1	0	1	1	S 85° E		3·7			62		54	+ 4	·356	+·018	1·4	+0·1	0	−0·7	0	0·31	−0·31	0	0·31	−0·31	0	Aurangabad.
21	1	7	0	1	1	0	0	0	N 53° E		1·7			27		69	+12	·425	−·010	1·2	−0·7	0	−0·4	0	0·11	−0·11	0	0·11	−0·11	0	Nizamabad.
6	0	3	10	6	3	2	0	1	S 67° E		1·5			48		61	− 1	·419	−·020	6·3	+5·0?	0	−0·7	0	0·30	−0·30	0	0·30	−0·30	0	Bidar.
3	0	4	21	3	0	0	0	0	N 88° E	N 76° E	3·1	5·3	−2·2	86	+39	56	− 5	·335	−·054	0·3	−1·4	0	−0·3	0	0·22	−0·22	0	0·22	−0·22	0	Gulbarga.
9	0	9	7	11	2	1	0	1	S 80° E	S 77° E	6·0	5·4	+0·6	66	0	76	+12?	·556	+·087?	0·3	−1·9	0	−0·2	0	0·15	−0·15	0	0·15	−0·15	0	Raichur.
23	0	0	4	3	0	1	0	0	S 62° E	S 63° E	2·4	2·3	+0·1	20	+ 6	78	+ 6?	·488	+·044	0·7	−1·3	0	−0·4	0	0·17	−0·17	0	0·17	−0·17	0	Hyderabad (Deccan).
4	8	0	0	4	5	1	1	8	N 42° W		2·0			27		67	+ 2	·480	+·018	6·9	−1·6	0	−0·5	0	0·22	−0·22	0	0·22	−0·22	0	Hanamkonda.
																															XIV.—Mysore.
4	0	1	13	12	0	0	0	1	S 72° E	S 77° E	4·1	5·7	−1·6	72	−16	67	0	·451	−·027	1·6	−1·4	0	−0·7	0	0·42	−0·42	0	0·42	−0·42	0	Chitaldrug.
4	2	4	19	2	0	0	0	0	N 83° E	N 82° E	3·8	2·5	+1·3	74	−11	77	+ 1	·467	−·021	3·8	−0·1	0	−0·9	0·08	0·85	−0·77	0·08	0·85	−0·77	0·08	Hassan.
0	0	14	15	1	1	0	0	0	N 72° E	N 67° E	5·3	4·0	+1·3	86	0	83	+ 4	·491	+0·03	2·7	−1·4	1	−0·4	0·25	0·49	−0·24	0·25	0·49	−0·24	0·22	Bangalore.
2	5	21	3	0	0	0	0	0	N 41° E	N 68° E	6·0	7·5	−1·5	89	+ 6	79	+ 4	·519	+·007	2·5	−1·9	1	−0·1	1·25	0·43	+0·82	1·25	0·43	+0·82	1·25	Mysore.

* Mean of 19 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hours dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·903	—·032	29·908	29·956	30th	29·860	27th	75·7	68·7	89·1	+0·1	69·2	—1·0	79·1	—0·5	19·9	92·9	5th	64·8	20th
	Calicut	27	29·943	—·022	29·899	30·005	30th	29·902	2nd & 27th.	73·6	70·0	85·4	—1·8	69·8	—0·9	77·6	—1·3	15·6	57·5	2nd	63·8	22nd
	Cochin	9	29·943	—·036	29·880	29·995	30th	29·904	27th	76·4	70·1	89·0	+0·3	71·8	—1·0	80·4	—0·3	17·2	91·8	15th	67·7	20th & 21st.
	Trivandrum	198	29·753	—·022	29·884	29·813	31st	29·705	27th	74·7	71·3	83·1	0	70·2	—2·9	76·7	—1·5	12·9	85·6	16th	66·3	2nd, 21st
31	Pamban	37	29·939	—·029	29·994	29·985	31st	29·894	6th & 27th.	77·5	74·6	81·0	—1·2	76·0	+1·5	78·5	+0·1	5·0	84·2	4th	73·3	29th
	Madura	447	29·531	—·038	29·916	29·580	15th	29·478	27th	76·2	70·2	87·3	+1·2	70·7	+0·5	79·0	+0·9	16·6	89·9	1st & 7th	66·8	19th & 26th.
	Pudukkottai	318	29·682	—·018	29·939	29·714	16th	29·631	27th	73·7	69·1	84·6	—1·2	67·9	—1·0	76·3	—1·1	16·7	88·4	31st	63·1	24th
	Negapatam	31	29·952	—·028	29·912	29·990	31st	29·899	6th	76·2	73·5	83·1	+1·0	71·0	—1·1	77·1	—0·1	12·1	85·2	5th & 10th	67·7	19th
	Trichinopoly	255	29·746	—·025	29·939	29·785	15th & 30th.	29·694	27th	75·3	69·7	86·4	+1·0	68·3	—1·0	77·4	0	18·1	89·9	30th	61·7	20th
	Coimbatore	1,341	28·658	—·015	29·955	28·700	30th	28·607	6th	70·9	65·8	84·0	—1·0	64·2	—1·6	74·1	—1·3	19·8	87·0	31st	55·7	20th
	Salem	913	29·087	—·017	29·951	29·128	15th	29·035	2nd	72·3	67·3	84·3	—2·1	64·8	—0·6	74·6	—1·3	19·5	88·7	31st	59·0	19th
	Cuddalore	37	29·958	—·035	29·925	29·991	16th	29·902	2nd	74·2	70·2	82·8	—0·4	69·7	0	76·3	—0·2	13·1	85·1	3rd	64·6	20th
	Vellore	707																				
	Madras	22	29·989	—·033	29·943	30·033	16th	29·932	27th	74·8	70·7	83·9	+0·6	69·6	—0·1	76·7	+0·3	14·3	85·8	1st & 3rd	63·9	25th
32	Cuddapah	428	29·591	—·033	29·968	29·649	15th	29·541	7th	72·0	67·1	86·3	—0·4	66·8*	+1·2*	76·6*	+0·4	19·5	89·8	5th	57·7	26th
	Bellary	1,475	28·538	—·023	29·878	29·587	14th & 15th.	28·484	27th	69·7	62·3	84·5	—1·4	60·0	—1·3	72·2	—1·3	24·5	88·3	5th	53·7	25th
	Kurnool	923	29·107	—·013	30·001	29·164	15th	29·058	27th	66·2	61·2	84·7	—2·0	59·5	—0·1	72·1	—1·1	25·2	88·8	3rd	50·1	25th
33	Nellore	66	29·954	—·036	29·955	30·006	15th	29·855	27th	72·6	69·6	83·4	—0·8	68·0	—0·1	75·7	—0·5	15·4	85·6	2nd	62·1	25th
	Masulipatam	15	30·029	—·034	29·978	30·069	15th	29·969	27th	71·3	67·3	82·7	—0·4	66·5	0	74·6	—0·2	16·2	85·3	8th	61·2	24th
	Cocanada	26	30·027	—·021	29·990	30·088	14th	29·964	27th	71·4	66·8	80·7	+0·1	66·0	—0·1	73·4	0	14·7	83·4	8th	61·9	17th
	Waltair (Vizagapatam)	*226*	29·813	—·035	29·985	29·868	9th	29·759	27th	72·9	65·4	81·2	+0·5	67·2	—1·0	74·2	—0·3	14·0	84·1	3rd	62·3	17th
	Calingapatam	19	30·036		29·994	30·107	14th	29·972	27th	66·8	63·4	80·9		62·3		71·6		18·6	85·0	3rd, 4th & 20th.	55·9	25th
	Gopalpur	33	30·025	—·032	30·000	30·098	14th	29·965	27th	65·5	61·4	80·0	+0·1	61·4	+0·7	70·7	+0·4	18·3	85·5	4th	55·3	29th
	Bay Islands.																					
1	P. V. Fraser	8	30·034		29·988	30·120	14th	29·965	27th	73·1	65·2											
	Port Blair	58	29·880	—·044	29·868	29·915	4th	29·837	28th	78·7	72·7	84·1	—1·7	75·0	—1·5	79·6	—1·6	9·1	86·6	12th	69·3	31st
	Table Island		29·869	—·036	29·894	29·922	4th	29·799	27th	77·9	72·5	81·[illegible]	—2·0	75·4	—1·0	78·6	—1·5	6·3	83·6	26th	72·5	28th
	Kashmir.																					
13	Muzaffarabad		27·634			27·711	14th	27·569	29th	40·0	37·2	66·4		37·8		52·1		28·6	74·0	1st	33·3	31st
	Srinagar	5,204	24·982	—·055	24·958	25·088	21st	24·867	31st	27·5	33·6†	50·2	+1·9	24·0	—3·9	37·1	—1·0	26·2	57·0	3rd	18·5	27th
	Gulmarg	*8,569*										Closed for the										
	Dras	*10,059*	20·838	0	20·806	20·994	21st	20·713	31st	2·7		24·9	—2·8	—1·2	—1·4	11·9	—2·1	26·1	35·0	12th	—15·8	21st
	Leh	*11,503*	19·708	—·014	19·676	19·850	21st	19·562	31st	17·1		36·9	+0·9	12·3	—0·8	24·6	+0·1	24·6	47·2	1st	4·6	28th
	Skardu	*7,505*	22·999	—·009	22·969	23·210	21st	22·877	31st	22·7		43·0	+1·5	21·1	—1·5	32·0	0	21·9	64·4	6th	12·8	28th
	Gilgit	4,890	25·202	—·121	25·175	25·484	22nd	25·032	6th	36·4‡	33·7§	52·6‡	+3·2	33·6‡	—0·3	43·1‡	+1·5	19·0	62·2	3rd	25·7	28th

N.B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea level, in the case of

* Mean of 23 days. † Mean of 4 days. ‡ Mean of 30 days. § Mean of 19 days.

B—*continued.*

at 214 stations in India, etc., in December, 1916—*continued.*

Wind direction. Number of winds from Calm. (24)	N. (25)	N. E. (26)	E. (27)	S. E. (28)	S. (29)	S. W. (30)	W. (31)	N. W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st to 31st December, 1916. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															XV.—Madras.
0	0	4	26	1	0	0	0	0	N 86° E	S 86° E	4·9	2·1	+2·8	96	+10	68	+ 1	·608	—·021	1·7	—0·8	0	—0·7	0	0·48	— 0·48	0	0·48	— 0·48	0	Mangalore.
4	0	8	16	3	0	0	0	0	N 82° E	N 85° E	3·0	5·1	—2·1	79	— 4	83	+ 5	·688	—·003	3·0	+0·7	1	—0·8	0·60	1·10	— 0·50	0·60	1·10	— 0·50	0·60	Calicut.
1	0	6	23	1	0	0	0	0	N 83° E	N 36° E	3·9	3·1	+0·8	92	+13	72	— 2	·655	—·034	2·2	—0·6	1	—1·4	0·19	1·61	— 1·42	0·19	1·61	— 1·42	0·10	Cochin.
11	3	12	5	0	0	0	0	0	N 50° E	N 49° E	2·7	2·7	0	56	+20	85	+ 6	·726	+·010	4·2	0	2	—1·5	0·47	2·20	— 1·73	0·47	2·20	— 1·73	0·25	Trivandrum.
0	16	2	0	0	0	0	0	13	N 16° W	N 13° E	13·6	9·6	+4·0	96	+13	87	— 1	·816	—·003	4·5	+0·1	11	+1·9	7·87	7·55	+ 0·32	7·87	7·55	+ 0·32	2·70	Pamban.
0	12	12	2	0	0	0	1	4	N 16° E	N 5° E	4·9	3·4	+1·5	79	— 4	73	— 2	·665	—·005	5·4	+1·2	1	—2·3	0·57	1·78	— 1·21	0·57	1·78	— 1·21	0·47	Madura.
2	19	9	0	0	0	0	0	1	N 13° E		5·1			87		78	+ 1	·649	—·005	3·8	—1·5	3	+1·0	1·25	1·05	+ 0·20	1·25	1·05	+ 0·20	0·56	Pudukkottai.
0	1	13	0	0	0	0	2	15	N 9° W	N 6° W	11·0	6·6	+4·4	69	—17	87	+5?	·789	+·037†	7·0	+0·7	7	—2·4	2·32*	11·28	— 8·96	2·32	11·28	— 8·96	0·82	Negapatam.
1	14	6	0	0	0	0	3	7	N 9° W	N 16° E	3·4	3·3	+0·1	79	+29	74	— 3	·651	—·017	3·8	—0·9	4	—0·5	1·49	2·68	— 1·19	1·49	2·68	— 1·19	0·49	Trichinopoly.
7	6	14	4	0	0	0	0	0	N 41° E	N 77° E	2·9	2·2	+0·7	69	—14	75	— 8	·570	—·075	3·8	—1·0	1	—1·6	0·37	1·15	— 0·78	0·37	1·15	— 0·78	0·20	Coimbatore.
24	0	0	7	0	0	0	0	0	E	N 40° E	2·4	2·8	—0·4	23	— 6	76	— 1	·607	—·027	3·5	—0·4	3	+0·6	0·62	1·10	— 0·48	0·62	1·10	— 0·48	0·23	Salem.
2	10	3	0	0	0	1	0	15	N 22° W	N 10° W	6·1*	2·0	+4·1	79	0	81	— 6	·686	—·057	5·1	+0·5	7	+1·0	3·13	7·21	— 4·08	3·13	7·21	— 4·08	1·47	Cuddalore.
																									3·52			3·52			Vellore.
2	4	3	0	0	0	0	3	19	N 36° W	N 8° E	4·7	5·3	—0·6	76	— 7	81	— 2	·699	—·027	4·0	—0·9	5	—0·3	3·84	6·24	— 2·40	3·84	6·24	— 2·40	2·11	Madras.
14	3	0	2	3	5	0	1	3	S 27° E	S 75° E				7	—36	76	— 1	·601	—·015	0·9	—2·5	0	—1·6	0	1·04	— 1·04	0	1·04	— 1·04	0	Cuddapah.
7	0	2	12	7	1	1	0	1	S 75° E	S 59° E	2·5	2·4	+0·1	56	+13	64	— 2	·472	+·003	0·8	—2·5	0	—0·3	0	0·12	— 0·12	0	0·12	— 0·12	0	Bellary.
22	0	0	2	2	1	4	0	0	S 7° E	S 80° E	1·6			17	+16	73	+ 1	·479	—·022	0·3	—1·6	0	—0·5	0	0·30	— 0·30	0	0·30	— 0·30	0	Kurnool.
4	14	11	0	0	0	0	0	2	N 15° E	N 51° W	2·2	3·1	—0·9	79	+ 7	85	0	·682	—·020	4·3	—1·5	1	—2·0	1·62	3·07	— 1·45	1·62	3·07	— 1·45	1·53	Nellore.
1	21	8	0	0	0	0	0	1	N 10° E	N 15° E	3·3	3·8	—0·5	92	+ 6	80	— 1	·612	—·027	1·8	—0·9	0	—1·2	0	1·04	— 1·04	0	1·04	— 1·04	0	Masulipatam.
0	19	12	0	0	0	0	0	0	N 17° E	N 5° E	6·0	6·6	—0·6	96	+ 6	77	+ 4	·599	+·036	2·3	—0·5	0	—1·0	0	1·08	— 1·08	0	1·08	— 1·08	0	Cocanada.
5	6	14	2	0	0	0	0	4	N 26° E	N 31° W	2·7			69	+20	65	+ 3	·530	+·023	1·6	—1·5	0	—1·1	0	1·05	— 1·05	0	1·05	— 1·05	0	Waltair (Vizagapatam).
2	6	0	0	0	0	0	6	16	N 42° W		3·7			81		82		·545		1·1		0	—1·4	0	2·78	— 2·78	0	2·78	— 2·78	0	Calingapatam.
0	16	0	0	0	0	0	0	15	N 21° W	N 23° W	5·6	6·0	—0·4	99	+24	78	+ 1	·496	—·001	0·6	—0·6	0	—1·1	0	0·97	— 0·97	0	0·97	— 0·97	0	Gopalpur.
																															Bay Islands.
4	14	9	2	2	0	0	0	0	N 28° E					71		63		·521		1·1		0		0			0			0	P. V. Fraser.
3	8	12	6	1	0	0	0	1	N 41° E	N 55° E	3·5	5·3	—1·8	69	+11	74	— 7	·727	—·092	4·4	—0·8	7	—0·3	5·26	6·81	— 1·55	5·26	6·81	— 1·55	2·14	Port Blair.
0	7	13	8	1	0	0	0	2	N 44° E					72		76	0	·727	—0·36	5·5	—0·7	2	+0·4	2·77	1·72	+ 1·05	2·77	1·72	+ 1·05	1·74	Table Island.
																															Kashmir.
26	0	1	1	0	0	2	1	0	S 45° W		0·6			3		77		·187		2·1		1		0·62			0·62			0·55	Muzaffarabad.
11	1	2	2	7	3	1	2	2	S 41° E	S 42° E	1·7	1·9	—0·2	23	+ 4	79†		·167†		3·4	—2·1	0	—3·5	0·08	1·41	— 1·33	0·08	1·41	— 1·33	0·08	Srinagar.
									Winter months.																						Gulmarg.
28	1	0	0	0	0	0	1	1	N 45° W		0·2			10						4·2	—0·9	3	—3·1	0·64	1·71	— 1·07	0·64	1·71	— 1·07	0·21	Dras.
21	2	7	1	0	0	0	0	0	N 41° E	S 22° W	2·0	0·9	+1·1	30	+13					4·9	—0·8	1	+0·4	0·19	0·17	+ 0·02	0·19	0·17	+ 0·02	0·10	Leh.
30	0	0	0	1	0	0	0	0	S 45° E		0·5			3						5·0	—1·0	0	—1·0	0·01	0·32	— 0·31	0·01	0·32	— 0·31	0·01	Skardu.
31	0	0	0	0	0	0	0	0	Calm.		0			(a)		61‡		·141‡		4·6	—1·4	0	—0·3	0	0·11	— 0·11	0	0·11	— 0·11	0	Gilgit.

hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) Indeterminate.

* Mean of 21 days.
† " 4 "
‡ " 19 "

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·461		25·430	25·552	9th	25·394	31st	37·0	37·4*	64·4		32·2		48·3		32·2	75·9	5th	24·5	28th
	Quetta	5,502	24·728	—·023	24·688	24·817	1st	24·619	27th, 28th & 29th.	26·8	35·1†	58·1	+1·5	24·4	—5·0	41·2	—1·7	33·7	68·1	5th	18·7	1st
	Chaman	4,311	25·791	—·040	25·753	25·917	1st	25·666	27th	38·6	37·0‡	58·3	+2·8	34·8	—2·1	46·6	+0·3	23·[illegible]	69·3	12th	25·4	1st
	Kalat	6,630	23·792		23·754	23·879	9th	23·678	27th	25·5	34·3§	57·5	+0·8	22·5		40·0		35·0	69·9	5th	13·2	17th
	Dalbandin	2,772	27·259		27·222	27·412	1st	27·106	29th	36·8	37·7‖	65·1		31·1		48·1		34·0	75·7	12th	22·2	1st
	Pasni		30·073		30·033	30·156	18th	29·996	7th	66·0	57·6	78·5		50·2		64·3		28·3	89·9	2nd	41·2	6th & 8th
	Panjgur		26·860		26·818	26·957	1st	26·753	28th	41·1	38·5¶	67·3		37·3		52·3		30·0	78·2	11th	31·2	27th
	Robat		27·027		26·985	27·186	1st	26·866	28th	41·3	36·6**	66·6		38·6		52·6		28·0	72·8	9th	29·8	1st
	Seistan (c)		28·359			28·570	1st	28·190	28th & 29th.	35·4	36·6	66·4		32·3		47·9		31·1	71·6	7th	24·9	1st
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·499	—·032	24·475	24·585	12th	24·419	31st	39·1	††35·1	58·2	+3·7	32·7	—0·1	45·4	+1·8	25·5	66·2	3rd	27·1	26th & 31st.
	Cherat	*4,956*	25·793	—·025	25·761	25·906	14th	25·721	29th	47·2	‡‡37·0	57·3	+2·4	42·1	—0·5	49·7	+0·2	15·2	64·0	1st	35·0	30th
	Drosh (c)		25·210			25·275	7 days	25·125	4 days	38·2	††34·5	53·5	+0·4	36·0	+0·3	44·8	+0·3	17·5	59·9	4th	32·0	14th
	Murree	6,333	23·874	—·038	23·842	23·987	14th	23·788	31st	43·3	§§35·1	51·8	—0·3	40·2	+1·6	46·0	+0·7	11·6	58·9	5th	32·2	17th
	Simla	7,232	23·111	—·043	23·073	23·219	14th	23·009	31st	41·6	††34·1	49·6	—0·3	39·3	0	44·4	—0·1	10·3	55·9	2nd	31·5	20th
	Sarain		23·110	—·095	23·072	23·198	15th	23·024	26th	31·6		51·9	+1·3	29·0	—1·1	40·4	+0·1	22·9	62·4	1st	24·1	28th
	Kalabagh																					
	Chakrata	7,072	P	P	P	P	P	P	P	44·3	‖‖36·2	53·9	—1·5	38·7	—0·6	46·3	—1·1	15·2	62·3	15th	32·5	30th
	Mukteswar	7,592	22·841	—·051	22·800	22·920	15th	22·742	31st	41·9	¶35·0	52·8	—1·6	37·1	—1·1	45·0	—1·3	15·7	61·0	1st	29·6	27th
	Darjiling	7,432	22·962	—·043	22·917	23·045	22nd	22·852	31st	39·5	‡‡30·4	49·7	+0·5	35·7	—1·0	42·7	—0·3	14·0	58·2	23rd	30·9	31st
	Shillong	4,920	25·184	—·036	25·136	25·251	4th	25·080	27th	47·8	45·0	59·2	—2·0	39·3	+0·1	49·2	—1·5	19·9	63·5	24th	35·1	24th
	Cherrapunji	4,309	25·734	—·036	25·685	25·799	4th	25·652	27th	52·7	48·4	60·7	—1·5	45·6	—1·8	53·2	—1·7	15·1	64·9	23rd	41·1	31st
	Netarhat		26·375		26·324	26·456	10th	26·278	26th	53·0	47·0	64·7		45·5		55·1		19·2	69·9	18th	37·0	28th
	Maymyo	3,546	26·507	—·008	26·452	26·568	4th	26·426	31st	49·2	48·9	68·1	—1·5	44·0	+1·4	56·0	—0·1	24·1	71·5	1st	36·8	30th
	Pachmarhi	3,528	26·521	—·064	26·468	26·594	15th	26·412	11th	55·1	50·0	69·5	—1·1	43·2	—2·6	56·3	—1·9	26·3	74·0	8th	37·1	23rd & 28th.
	Mount Abu	3,945	26·121	—·043	26·071	26·201	14th	26·054	26th	60·1	46·7	¶¶69·4	¶¶+0·5	52·2	—0·8	¶¶61·3	—0·1	17·2	75·2	6th	45·9	28th
	Mercara	3,781	26·256	—·028	26·189	26·301	30th	26·225	27th	60·5	57·5	74·2	—1·3	55·0	—2·7	64·6	—2·0	19·2	77·0	2nd	51·0	26th & 27th.
	Ootacamund	*7,397*	23·044	—·036	22·980	23·080	9th	22·976	27th	52·8	46·4	64·3	0	40·9	—3·4	52·6	—1·7	23·4	68·9	18th	31·1	22nd
	Kodaikanal	7,688	22·818	—·042	22·752	22·850	1st & 9th.	22·729	27th	51·1	45·7	61·5	—0·9	45·4	—2·2	53·5	—1·5	16·1	69·6	19th	40·3	23rd
	Extra India.																					
	Singapore (a)	10	29·806	—·124	29·737	29·858	1st	29·750	20th	80·4		86·3	+0·4	73·5	+0·9	79·9	+0·7	12·8	90·0	6th & 26th.	72·0	1st
	Penang (a)	17	29·888	—·042	29·829	29·976	9th & 18th.	29·798	16th & 31st.	81·9		87·9	0	73·1	—0·6	80·5	—0·3	14·8	92·0	7th	72·0	5 days
	Trincomalee	99	29·850	—·029	29·878	29·901	30th & 31st.	29·804	6th	76·9	72·9	81·1	+1·1	74·5	+0·3	79·3	+0·7	9·6	88·2	4th, 9th & 31st.	70·2	26th
	Colombo	24	29·914	—·037	29·864	29·964	31st	29·868	6th & 7th.	71·6	69·6	86·4	—0·5	70·2	—2·7	78·3	—1·6	16·2	91·6	9th	63·1	27th
	Hambantota	62	29·875		29·866	29·948	31st	29·825	6th	72·4	70·4	84·0		71·5		77·8		12·5	87·7	8th	66·5	22nd
	Minicoy	7	29·971	—·003		30·037	30th	29·921	13th													
	Amini Divi	*13*	29·933	—·052	29·874	29·993	30th	29·889	6th & 7th.	80·1	73·8	87·7	+1·9	71·8	—1·8	79·8	+0·1	15·9	89·6	15th	66·3	23rd
	Gyantse	13,110																				
	Phari jong	14,400																				
	Gangtok	5,667	24·505	—0·59	24·460	24·588	19th	24·389	27th	44·5	42·9	59·3	—1·0	41·0	+6·9	50·1	+2·9	18·3	65·6	22rd	36·8	27th

N.B.—Elevations in italics indicate barometrical determinations.

(a) 9 hrs. observations.
(c) Aneroid.

* Mean of 22 days.
† " " 4 "
‡ " " 15 "
§ " " 3 "
‖ " " 10 "
¶ " " 19 "
** " " 17 "
†† " " 16 "
‡‡ " " 30 "
§§ " " 23 "
‖‖ " " 29 "
¶¶ " " 25 "

NOTE.—The barometric readings are not reduced to sea-level, in the case of

B—*continued.*

at 214 stations in India, etc., in December, 1916—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
21	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		0·2			(a)		80*		·196*		0·5		0		0			0			0	Fort Sandeman.
29	1	0	0	0	0	0	1	0	N 45° W	S 7° E	1·4	1·7	−0·3	3	− 6	79†		·180†		2·3	−0·8	0	−2·2	0·08	0·94	−0·86	0·08	0·94	− 0·86	0·07	Quetta.
1	0	1	22	6	0	0	1	0	S 82° E	S 52° E	3·3	4·9	−1·6	86	+14	56‡		·153‡		2·7	−1·1	1	−1·8	0·37	1·12	−0·75	0·37	1·12	− 0·75	0·37	Chaman.
31	0	0	0	0	0	0	0	0	Calm	S 24° W	3·5			(a)		69‖		·158‖		1·7		0	−2·6	0	1·18	−1·18	0	1·18	− 1·18	0	Kalat.
5	5	16	2	1	0	1	0	1	N 39° E		2·9			65		56¶		·155¶		3·2		0		0·09			0·09			0·04	Dalbandin.
4	15	2	1	0	0	0	0	9	N 9° W		4·6			79		58		·367		1·8		0		0·07			0·07			0·07	Pasni.
4	0	15	11	0	0	0	0	1	N 61° E		4·2			76		5:‡		·160§		2·1		0		0			0			0	Panjgur.
2	1	0	0	0	3	16	7	2	S 56° W		3·6			76		49§		·135§		3·9		1		0·18			0·18			0·13	Robat.
29	0	0	0	0	0	0	0	2	N 45° W		1·8			3		76q		·184q		1·8		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		0·5			(a)		48r		·125r		2·2	−1·2	2	−1·3	0·77	1·25	− 0·48	0·77	1·25	− 0·48	0·65	Para Chinar.
5	25	0	0	0	0	0	0	1	N 2° W	N 13° W	6·6	9·6	−3·0	86	+11	31n	−15	·102n	−·041	3·4	−0·1	0	−1·7	0	1·49	− 1·49	0	1·49	− 1·49	0	Cherat.
25	0	1	3	2	0	0	0	0	S 82° E		2·3			17		4r		·133r		2·2	−1·8	2	−0·9	0·72	1·02	− 0·30	0·72	1·02	− 0·30	0·58	Drosh.
11	11	3	0	5	0	1	0	0	N 29° E	S 84° E	4·0	5·2	−1·2	33	+ 4	37p		·104p		2·5	−1·3	1	−1·6	0·63	1·45	− 0·82	0·63	1·45	− 0·	0·63	Murree.
																31r		·090r		1·5	−2·1	0	−2·1	0·06	1·24	− 1·18	0·06	1·24	− 1·18	0·06	Simla.
																58‖		·133‖		0·1	−3·2	0	−2·3	0	2·10	− 2·10	0	2·10	− 2·10	0	Sarain.
																															Kalabagh.
8	2	15	5	0	0	0	0	1	N 48° E	N 28° E	5·7	3·7	+2·0	62	+25	44e	− 5	·127e	−·004	1·1	−1·6	0	−2·3	0	1·39	− 1·39	0	1·39	− 1·39	0	Chakrata.
7	1	1	8	1	1	0	12	0	W		5·3			8		44§		·120§		1·3	−1·5	0	−1·8	0	0·83	− 0·83	0	0·83	− 0·83	0	Mukteswar.
30	0	0	0	1	0	0	0	0	S 45° E	S 89° E	0·1	2·1	−2·0	3	−38	77n	+ 1	·187n	−·008	3·5	+0·4	0	−0·7	0·08	0·22	− 0·14	0·08	0·22	− 0·14	0·02	Darjiling.
21	0	1	4	1	0	1	0	0	S 81° E		1·1			17		81	+11	·267	+·027	1·7	+0·1	0	−0·6	0·08	0·19	− 0·11	0·08	0·19	− 0·11	0·04	Shillong.
7	1	10	7	1	0	1	3	1	N 55° E		2·2			40		72	+ 8	·279	+·012	3·1	+1·5	0	−0·8	0	0·24	− 0·24	0	0·24	− 0·24	0	Cherrapunji.
8	4	1	2	0	0	1	6	9	N 45° W		5·8			45		63		·260		0		0		0			0			0	Netarhat.
31	0	0	0	0	0	0	0	0	Calm		1·0			(a)		98	+ 8	·317	−·025	2·7	+0·1	3	+2·3	1·45	0·46	+ 0·99	1·45	0·46	+ 0·99	0·87	Maymyo.
17	2	2	2	1	1	2	2	2	N 24° W	S 52° E	1·4	2·0	−0·6	7	− 3	71	+ 9	·307	+·002	0	−1·8	0	−0·8	0	0·56	− 0·56	0	0·56	− 0·56	0	Pachmarhi.
27	0	0	1	0	0	1	0	2	N 57° W	N 8° E	1·0	3·0	−2·0	3	−11	32	−10	·166	−·050	1·3	−0·2	0	−0·4	0	0·16	− 0·16	0	0·16	− 0·16	0	Mount Abu.
3	0	15	13	0	0	0	0	0	N 66° E	N 72° E	3·4	4·7	−1·3	82	− 1	82	− 1	·436	−·026	4·5	−0·5	1	−0·2	0·54	0·85	− 0·31	0·54	0·85	− 0·31	0·54	Mercara.
19	0	0	3	6	2	1	0	0	S 43° E		2·4			33		63	+ 4	·251	−·018	4·8	+1·2	1	−3·1	1·01	2·28	− 1·27	1·01	2·28	− 1·27	0·73	Ootacamund.
1	4	4	9	2	1	0	8	2	N 34° E		7·9			23		69	+ 7	·254	0	3·2	−0·7	4	−1·9	1·22	4·09	− 2·87	1·22	4·09	− 2·87	0·67	Kodaikanal.
																															Extra India.
11	8	3	1	0	0	0	0	8	N 9° W					53						7·9	+2·8	12	−2·2	9·10	10·69	− 1·59	9·10	10·69	− 1·59	2·33	Singapore.
0	16	9	0	1	0	0	0	5	N 8° E					82						6·8	+5·1	4	−6·6	1·52	7·15	− 5·63	1·52	7·15	− 5·63	0·50	Penang.
0	7	9	7	1	1	3	2	1	N 42° E	N 23° E	7·0	5·3	+1·7	46	+ 7	82	− 5	·755	−·068	4·5	−0·2	8	−6·0	5·80	14·25	− 8·45	5·80	14·25	− 8·45	1·90	Trincomalee.
13	3	15	0	0	0	0	0	0	N 38° E	N 33° E	3·8	6·1	−2·3	56	−22	90	+ 9	·696	−·089	8·2	+3·8	3	−4·1	3·54	5·42	− 1·88	3·54	5·42	− 1·88	1·60	Colombo.
0	18	13	0	0	0	0	0	0	N 18° E		9·3	5·4	+3·9	96		90		·713		4·7		6		2·36	5·57	− 3·21	2·36	5·57	− 3·21	0·55	Hambantota.
18	2	8	1	1	1	0	0	0	N 49° E	N 42° E	2·5	4·5	−2·0	29	−31					2·2	−1·1	1	−2·5	0·41	3·06	− 2·65	0·41	3·06	− 2·65	0·33	Minicoy.
4	13	12	0	0	0	1	0	1	N 18° E		2·9			71		73	+ 2	·716	−·035	2·2	−1·4	0	−1·7	0·03	0·84	− 0·81	0·03	0·84	− 0·81	0·03	Amini Divi.
																															Gyantse.
																															Pharijong.
30	0	1	0	0	0	0	0	0	N 45° E		0·7			3		89	+14	·261	+·007	1·7	−0·3	4	+2·1	1·25	6·89	+ 0·36	1·25	6·89	+ 0·36	0·47	Gangtok.

hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) Indeterminate.

* Mean of 22 days.
† " " 4 "
‡ " " 15 "
‖ " " 3 "
¶ " " 10 "
§ " " 19 "
n " " 30 "
o " " 15 "
p " " 23 "
r " " 16 "
q " " 17 "
e " " 29 "

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-ometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Gartok *	15,100																				
	Kashgar *	4,255	25·675	—·115		26·250	7th	25·460	11th & 22nd.	16·6		38·7	+0·9	13·4	—3·5	26·0	—1·3	25·3	49·5	23rd	7·3	30th
	Kabul * W		24·251	—·139		24·290	4th & 9th.	24·220	5th & 10th.	31·4		62·1	+8·0	28·8	+2·9	45·4	+5·5	33·3	65·6	5th	24·2	2nd
	Meshed	3,104								30·3		56·1	+6·1	26·1	—4·4	41·1	+0·9	30·0	66·4	21st, 23rd & 24th.	18·0	1st
	Jask	13	30·067	—·052	30·033	30·171	15th	29·956	27th	63·6	58·3	77·5	0	59·8	—4·2	68·7	—2·1	17·7	81·1	12th	54·0	25th
	Muscat	20	30·077	—·037	30·049	30·166	15th	29·964	28th	68·7	62·3	80·9	+4·0	66·7	—3·6	73·8	+0·2	14·2	84·1	11th	64·1	28th
	Bushire	14	30·079	—·044	30·055	30·214	15th	29·887	31st	57·2	53·6	69·0	+0·5	54·1	—1·1	61·5	—0·3	14·9	76·2	10th	47·2	22nd
	Busrah	25	30·124	—·070	30·120	30·262	19th	29·937	27th	54·0	50·5	70·5	+7·2	46·9	—2·7	58·7	+2·3	23·6	80·5	5th	39·4	19th
	Ispahan*	*5,817*	24·314	+·024		24·450	1st	24·100	27th & 31st	32·4	?	55·0	+3·2	29·7	+1·0	42·4	+2·1	25·3	62·4	5th	24·2	18th & 20th.
	Tehran*	*4,002*	25·813	—·117		25·960	1st	25·620	31st	39·6	36·3	53·4	+2·1	36·2	+2·7	44·8	+2·4	17·2	61·1	8th	31·0	17th
	Baghdad	127																				
	Aden	94	29·932	—·060	29·960	30·042	17th	29·844	28th	74·3	69·6	79·8	—1·7	72·3	—0·9	76·0	—1·3	7·5	83·4	29th	69·5	26th
	Zanzibar	72	29·892	—·036	29·889	29·958	19th	29·780	28th	81·6	76·6	86·3	+0·6	78·9	—0·2	82·6	+0·2	7·4	88·7	27th	74·6	14th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,300 ft.

* Aneroid.
W=Mean of 1 days.

B—*concluded.*

at 214 stations in India, etc., in December, 1916—*concluded.*

Wind direction.											Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Number of winds from																															
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st Dec., 1916.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
23	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															Extra India—*concld.*
																															Gartok.
										N 8° W	0·3	0·7	−0·4							1·6	−0·8	0	−0·2	0	0·09	−0·09	0	0·09	−0·09	0	Kashgar.
0	0	2	0	0	0	5	4	0	S 72° W	S 56° W				64	+54					1·8	−1·3	0	−1·5	0	0·51	−0·51	0	0·51	−0·51	0	Kabul.
31	0	0	0	0	0	0	0	0	Calm		0·5			(a)		86*	?	·175*	?	4·6	−0·1	0	−2·1	0·03	0·78	−0·75	0·03	0·78	−0·75	0·03	Meshed.
1	10	14	3	1	0	0	0	2	N 31° E	N 23° E	5·4	7·5	−2·1	76	+ 3	71	− 1	·422	−·030	2·3	−0·5	1	−1·1	0·62	1·27	−0·65	0·62	1·27	−0·65	0·51	Jask.
11	0	3	0	1	0	1	1	14	N 40° W	S 74° W	2·6	2·9	−0·3	46	+ 9	68	0	·478	−·059	3·0	+0·5	0	−1·3	0	0·62	−0·62	0	0·62	−0·62	0	Muscat.
16	6	5	1	1	0	0	0	2	N 21° E	N 63° E	4·5	4·7	−0·2	37	−21	78	− 5	·368	−·030	5·6	+1·1	2	−2·1	1·61	3·25	−1·64	1·61	3·25	−1·64	1·45	Bushire.
4	0	2	1	2	5	9	3	5	S 48° W		3·8			39		77		·325		3·8		0	−2·5	0·14	0·82	−0·68	0·14	0·82	−0·68	0·07	Busrah.
31	0	0	0	0	0	0	0	0	Calm	S 85° W	0·6	1·9	−1·3	(a)		80†		·181†		1·1	−2·3	0	−1·7	0·04	0·79	−0·75	0·04	0·79	−0·75	0·03	Ispahan.
2	9	22	2	0	0	1	0	0	N 42° E	N 11° E	1·5	2·0	−0·5	81	+47	73	− 5	·177	+·014	5·0	+1·0	1	−2·8	0·21	1·28	−1·07	0·21	1·28	−1·07	0·12	Tehran.
										N 3° W		2·2													1·17			1·17			Baghdad.
2	7	20	2	0	0	0	0	0	N 37° E	N 76° E	10·7	9·4	+1·3	86	+14	78	+ 4	·656	−·007	4·1	−0·6	1	+0·5	0·12	0·13	−0·01	0·12	0·13	−0·01	0·12	Aden.
8	8	10	1	2	1	1	0	0	N 37° E	N 85° E	4·3	4·6	−0·3	48	+ 7	79	− 3	·846	−·030	6·5	+0·6	6	+5·5	2·92	5·54	−2·62	2·92	5·54	−2·62	1·30	Zanzibar.

(a) Indeterminate.

* Mean of 9 days.
† „ 18 „

Table C.—Abstract of observations taken at 8 hrs. at 57 fourth and fifth class stations in India, etc., in December, 1916.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	54·6	52·6	73·8	−1·1	47·5	+3·3	60·7	+1·1	26·3	78·7	7th	40·9	23rd & 24th.	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	60·2	56·7	76·9	−1·1	44·3	−0·7	60·6	−0·9	32·6	81·0	9th	37·1	26th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	56·2	55·4	80·7	+0·4	38·7	−11·6	59·7	−5·6	42·0	83·9	12th	35·0	29th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	53·3	51·7	76·8	+8·0	43·5	+1·0	62·7	+4·5	28·3	80·9	12th	41·5	24th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	54·2	52·8	73·8	−1·1	47·1	+1·2	60·5	+0·1	26·7	77·4	11th	38·2	26th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	54·6	53·4	72·1	+1·0	48·1	...	60·1	...	24·0	75·7	2nd	40·2	25th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	57·2	56·4	78·4	−1·2	50·6	−2·0	64·5	−1·6	27·8	81·6	11th	45·8	22nd & 23rd.	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	55·0	54·3	73·5	−1·2	52·7	+2·9	63·1	+0·9	20·8	77·5	18th	45·8	25th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	54·9*	54·4*	73·1*	...	50·1*	...	61·6*	...	23·0	77·9	1st	41·8	25rd	...	...	...	...	...	...	...	...	...	...	...
	Messa	58·4	53·4	80·3	−1·2	46·6	+1·1	63·5	−0·1	33·7	83·4	1st	40·8	26th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	50·4	49·5	75·3	−0·9	47·2	−0·9	61·3	−0·9	28·1	78·9	7th	40·1	28th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	64·3	59·3	78·5	−1·5	54·6	+0·5	66·5	−0·5	23·9	86·0	2nd & 19th	49·3	31st	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	64·3	59·6	77·7	+0·1	51·4	−0·1	64·5	0	26·3	84·1	2nd	41·1	31st	...	...	...	...	...	...	...	...	...	...	...
	Pabna	61·5	58·0	78·9	−2·0	55·7	+2·6	67·3	+0·3	23·2	82·4	3rd	42·2	31st	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	48·2	47·5	83·0	−1·6	42·9	−0·5	62·9	−1·1	40·1	88·9	2nd	35·6	26th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	63·8	57·5	76·3	−1·6	46·0	−1·2	61·1	−1·4	30·3	80·1	15th	41·0	5 days	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	64·1	58·3	76·5	−1·6	50·0	−2·2	63·3	−1·9	26·5	81·1	1st & 2nd.	45·0	29th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 26 days.

C.

and fifth class stations in India, etc., in December, 1916.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December, 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	87	− 5	·375	+ ·010	...	...	0	− 1·2	0·10	0·25	− 0·15	0·10	0·25	− 0·15	0·06	Bishnath.
...	...	...	...	...	79	− 7	·415	+ ·036	...	...	2	+ 2·0	0·34	0·06	+ 0·28	0·34	0·06	+ 0·28	0·23	Borjuli.
...	...	...	...	...	95	− 1	·427	− ·020	...	...	0	− 1·0	0	0·54	− 0·54	0	0·54	− 0·54	0	Chandkhira.
...	...	...	...	...	90	− 5	·369	− ·016	...	...	2	0	0·52	0·41	+ 0·11	0·52	0·41	+ 0·11	0·23	Doom Dooma.
...	...	...	...	...	91	− 2	·386	+ ·023	...	...	2	+ 0·3	1·00	0·55	+ 0·45	1·00	0·55	+ 0·45	0·76	Dikom.
...	...	...	...	...	92	+ 1	·397	− ·032	...	...	0	− 0·7	0·05	0·39	− 0·34	0·05	0·39	− 0·34	0·05	Golaghat.
...	...	...	...	...	94	+ 2	·444	+ ·002	...	...	0	− 1·5	0	0·51	− 0·51	0	0·51	− 0·51	0	Hailakandi.
...	...	...	...	...	95	0	·415	− ·009	...	...	1	− 0·5	0·19	0·42	− 0·23	0·19	0·42	− 0·23	0·11	Jorehat.
...	...	...	...	...	97*	...	·416*	...	...	...	1	+ 0·5	0·10	0·21	− 0·11	0·10	0·21	− 0·11	0·10	Lumding.
...	...	...	...	...	70	− 8	·345	− ·087	...	...	2	+ 0·8	1·14	0·33	+ 0·81	1·14	0·33	+ 0·81	0·82	Messa.
...	...	...	...	...	95	+3	·351	+ ·002	...	...	3	+ 2·3	0·56	0·26	+ 0·30	0·56	0·26	+ 0·30	0·21	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·22	− 0·22	0	0·22	− 0·22	0	Comilla.
...	...	...	...	...	73	−11	·410	− ·064	...	...	0	− 1·2	0	0·50	− 0·50	0	0·50	− 0·50	0	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·08	− 0·08	0	0·08	− 0·08	0	Faridpur.
...	...	...	...	...	75	− 8	·450	+ ·002	...	...	0	− 0·7	0	0·23	− 0·23	0	0·23	− 0·23	0	Goalundo.
...	...	...	...	...	80	0	·439	+ ·005	...	...	0	− 0·8	0	0·19	− 0·19	0	0·19	− 0·19	0	Pabna.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·09	− 0·09	0	0·09	− 0·09	0	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·1	0	0·03	− 0·03	0	0·03	− 0·03	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	0	0	0·02	− 0·02	0	0·02	− 0·02	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·2	0	0·04	− 0·04	0	0·04	− 0·04	0	Rangpur.
...	...	...	...	...	95	0	·223	−·036	...	...	0	− 0·5	0	0·19	− 0·19	0	0·19	− 0·19	0	Dam Dim.
...	...	...	...	...	66	− 7	·398	− ·029	...	...	1	+ 0·2	0·11	0·33	− 0·22	0·11	0·33	− 0·22	0·11	Kalchini.
...	...	...	...	...	69	− 4	·415	+ ·019	...	...	2	+ 1·2	0·41	0·38	+ 0·03	0·41	0·38	+ 0·03	0·21	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·07	− 0·07	0	0·07	− 0·07	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·2	0	0·06	− 0·06	0	0·06	− 0·06	0	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·2	0	0·09	− 0·09	0	0·09	− 0·09	0	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·09	− 0·09	0	0·09	− 0·09	0	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·22	− 0·22	0	0·22	− 0·22	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·1	0	0·04	− 0·04	0	0·04	− 0·04	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·1	0	0·05	− 0·05	0	0·05	− 0·05	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·16	− 0·16	0	0·16	− 0·16	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·13	− 0·13	0	0·13	− 0·13	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·17	− 0·17	0	0·17	− 0·17	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·23	− 0·23	0	0·23	− 0·23	0	Dehri.

* Mean of 28 days.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	52·6	48·9	76·7	...	46·1	...	61·4	...	30·6	82·5	8th	39·1	24th	30	0	1	0	0	0	0	0	0	N 45° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	69·5	61·8	84·5	...	60·3	...	72·4	...	24·2	88·1	8th	50·3	25th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	69·9	66·1	85·5	...	63·9	...	74·7	...	21·6	89·2	3rd	58·0	24th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	49·4	44·2	62·5	...	47·8	...	58·1	...	20·7	74·9	15th	43·8	31st	0	14	15	1	0	0	0	0	1	N 24° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	24·0	...	42·1	...	9·2	...	25·7	...	32·9	50·1	14th	0	28th	0	11	6	2	3	2	1	1	5	N 12° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	59·6	53·2	74·5	−2·1	53·5	−0·7	64·0	−1·4	21·0	78·3	12th	49·8	28th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	53·5	52·5	60·2	−0·3	48·0	+0·4	54·1	+0·1	12·2	64·5	23rd	43·3	30th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorce	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	51·2	+4·8	28·2	+1·5	39·7	+3·1	23·0	62·4	1st	23·4	31st	10	2	1	2	3	0	3	2	8	N 51° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	53·3	+1·3	20·8	−6·3	39·6	−2·5	37·5	67·3	5th & 12th	14·0	1st, 2nd & 23rd	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in December, 1916—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December 1916.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	−1·3	0	0·49	−0·49	0	0·49	−0·49	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	0	−1·6	0	0·87	−0·87	0	0·87	−0·87	0	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·11	−0·11	0	0·11	−0·11	0	Udaipur.
																				XII.—Central Provinces.
0·9	...	...	3	...	76	...	·306	...	0·5	...	0	...	0	...	...	0	...	...	0	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	−0·7	0	0·24	−0·24	0	0·24	−0·24	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	1	−4·1	1·15	3·33	−2·18	1·15	3·33	−2·18	1·02	Tinnevelly.
...	...	...	...	...	77	...	·557	...	4·3	...	0	−0·5	0	0·16	−0·16	0	0·16	−0·16	0	Anantapur.
...	...	...	...	...	81	...	·598	...	0	...	0	−0·7	0	0·52	−0·52	0	0·52	−0·52	0	Guntur.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	2	−5·9	1·05	6·91	−5·86	1·05	6·91	5·86	0·65	Car Nicobar.
																				Kashmir.
...	...	...	80	...	64	...	·228	...	2·3	...	2	+0·3	0·22	1·20	−0·98	0·22	1·20	−0·98	0·12	Jammu.
...	...	...	...	...	...	...	...	...	...	...	2	−4·8	0·57	5·87	−5·30	0·57	5·87	−5·30	0·41	Sonamarg.
...	...	...	45	...	...	...	...	...	5·1	...	0	−2·1	0·04*	0·64	−0·60	0·04	0·64	−0·60	0·03	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	−1·7	0	0·74	−0·74	0	0·74	−0·74	0	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	63	+ 4	·321	−·024	...	...	0	−0·8	0	0·44	−0·44	0	0·44	−0·44	0	Panighatta.
...	...	...	...	...	93	+20	·383	+·116	...	...		−1·2	0	0·62	−0·62	0	0·62	−0·62	0	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	1	...	0·61	...	...	0·61	...	...	0·38	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	0	−1·9	0	1·00	−1·00	0	1·00	−1·00	0	Mussooree.
...	...	...	23	...	...	...	...	...	1·5	−2·5	0	−2·5	0	0·83	−0·83	0	0·83	−0·83	0	Poo.
...	...	...	...	...	...	...	...	...	...	...	0	−2·3	0	1·00	−1·00	0	1·00	−1·00	0	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	1·7	...	1	−1·7	0·24	1·27	−1·03	0·24	1·27	−1·03	0·24	Pishin.

* Snow water.

Table

Abstract of observations taken at 8 hrs. at 57 fourth

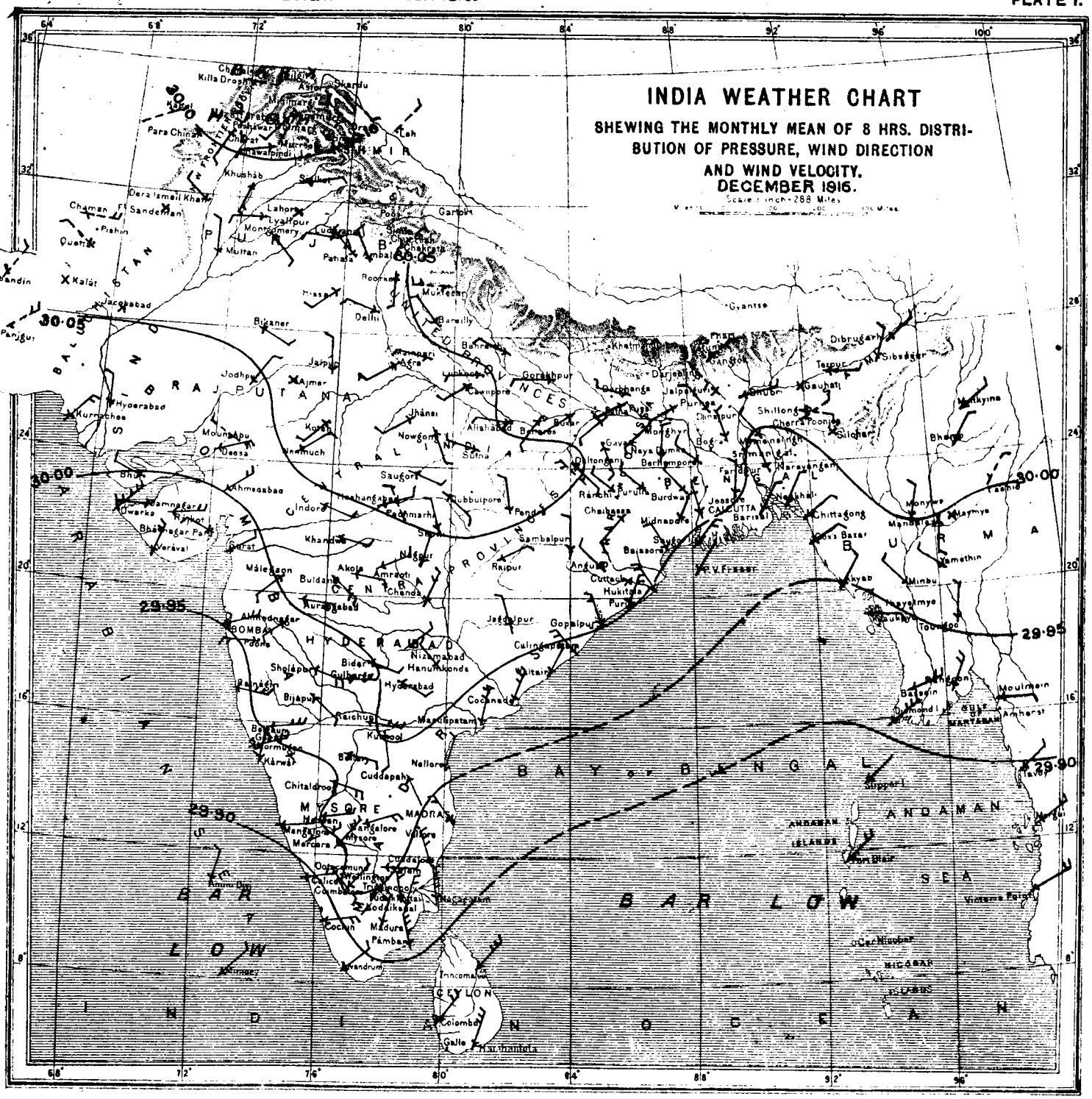
Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Chumbi	21·7	...	47·6	...	18·6	...	33·1	...	29·0	59·0	2nd	10·0	22nd	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	60·4	53·8	70·6	...	50·8	...	60·7	...	19·8	78·0	9th	45·0	13th & 31st	0	12	1	0	0	9	0	3	6	N 39° W	...

SGPI 291 DGO—20-5-19—325.

C—*concluded.*

and fifth class stations in India, etc., in December, 1916—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Heaviest rainfall during month.	Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December, 1916.	Normal rainfall of this period.	Departure from normal of this period.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	0·6	...	1	...	0·24	...	...	0·24	...	...	0·15	**Chumbi.**
...	...	...	...	...	...	...	...	...	...	...	10	−0·4	5·09	7·36	−2·27	5·09	7·36	−2·27	0·97	**Pemba.**
...	...	...	33	...	63	...	·331	...	...	...	1	...	0·19	...	...	0·19	...	...	0·18	**Abadan.**



The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 5·0 as used for this plate up to December 1911 inclusive.

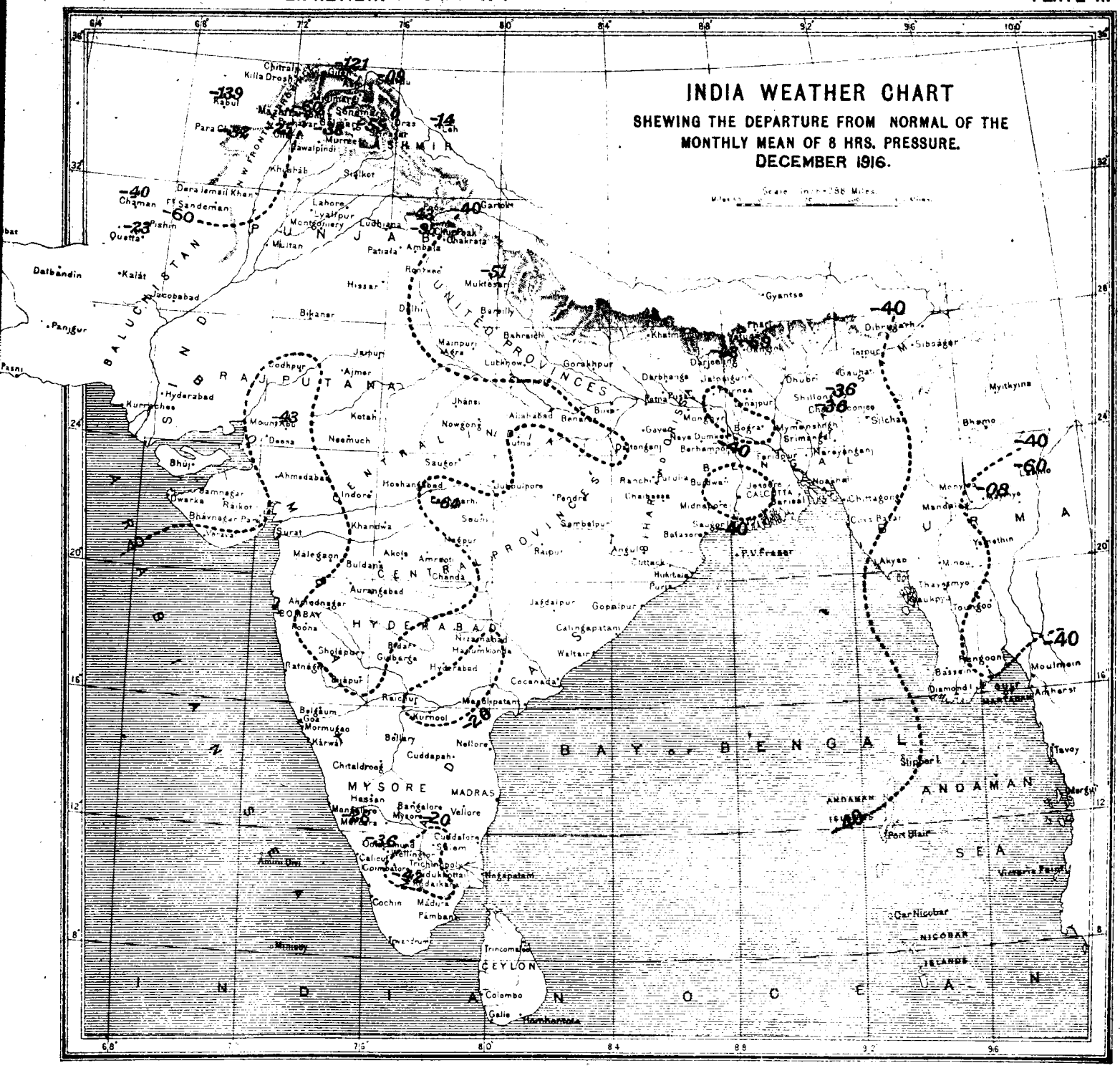

INDIA WEATHER CHART
SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF 8 HRS. PRESSURE.
DECEMBER 1916.
Scale
Miles
BALUCHISTAN
SIND
RAJPUTANA
PUNJAB
KASHMIR
UNITED PROVINCES
CENTRAL PROVINCES
BERAR
BOMBAY
HYDERABAD
MYSORE
MADRAS
BENGAL
ASSAM
BURMA
ANDAMAN
NICOBAR ISLANDS
CEYLON
BAY OF BENGAL
ARABIAN SEA
INDIAN OCEAN
Quetta
Kalat
Jacobabad
Dalbandin
Panjgur
Kurrachee
Hyderabad
Bhuj
Jodhpur
Ajmer
Bikaner
Jaipur
Kotah
Indore
Surat
Bombay
Poona
Sholapur
Bidar
Hyderabad
Raipur
Nagpur
Jubbulpore
Calcutta
Darjeeling
Dibrugarh
Shillong
Rangoon
Akyab
Moulmein
Port Blair
Car Nicobar
Colombo
Galle
Hambantota
Trincomalee
Madras
Bangalore
Mysore
Cuddapah
Bellary
Nellore
Vellore
Salem
Coimbatore
Calicut
Cochin
Madura
Pamban
Mangalore
Goa
Karwar
Belgaum
Kurnool
Masulipatam
Cocanada
Waltair
Calingapatam
Jagdalpur
Gopalpur
Cuttack
Puri
Balasore
Midnapore
Jessore
Chittagong
Cox's Bazar
Tavoy
Mergui
Amherst
Bassein
Diamond I.
Slipper I.
Thayetmyo
Prome
Myitkyina
Bhamo
Mandalay
Lashio
Simla
Lahore
Peshawar
Rawalpindi
Srinagar
Leh
Gyantse
Chitral
Killa Drosh
Kabul
Chaman
Sandeman
Pishin
Dera Ismail Khan
Multan
Montgomery
Lyallpur
Ludhiana
Ambala
Patiala
Rohtak
Hissar
Delhi
Bareilly
Bahraich
Lucknow
Gorakhpur
Allahabad
Benares
Patna
Gaya
Darbhanga
Bogra
Dacca
Berhampore
Faridpur
Barisal
Chittagong
Mandalay
Myitkyina
Bhamo
Lashio
Tezpur
Sibsagar
Silchar
Mount Abu
Deesa
Neemuch
Ahmedabad
Baroda
Rajkot
Bhavnagar
Dwarka
Jhansi
Nowgong
Saugor
Hoshangabad
Khandwa
Akola
Amraoti
Chanda
Aurangabad
Ahmednagar
Raichur
Belgaum
Karwar
Mormugao
Chitaldroog
Hassan
Mangalore
Calicut
Trichinopoly
Madura
Pamban
Trincomalee
Colombo
Galle
Hambantota
Port Blair
Car Nicobar
Tavoy
Mergui
Amherst
Rangoon

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MAXIMUM TEMPERATURE.

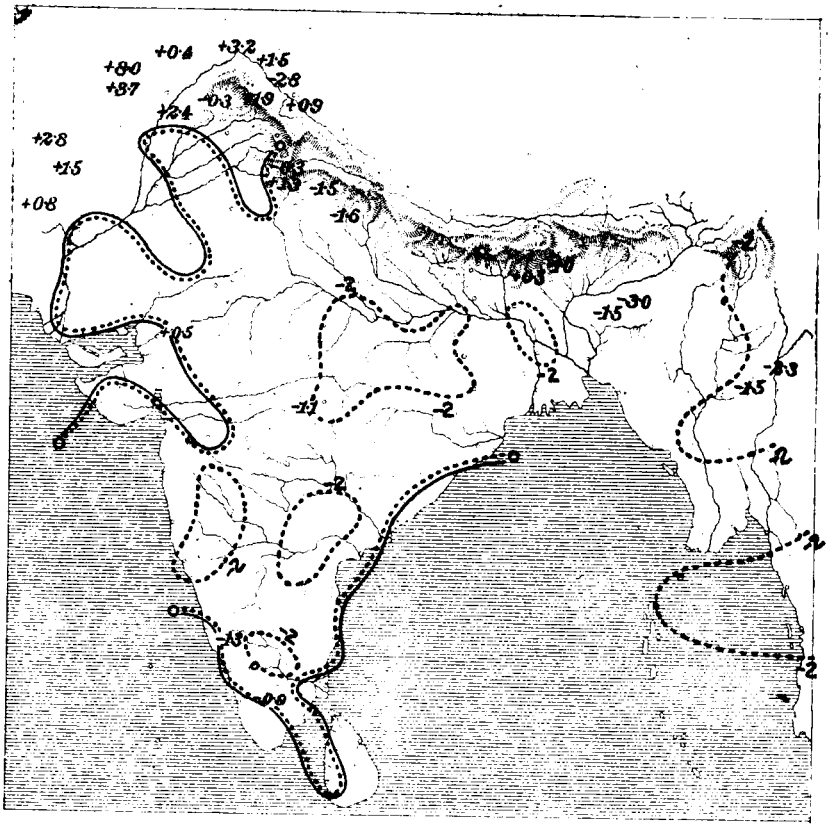


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

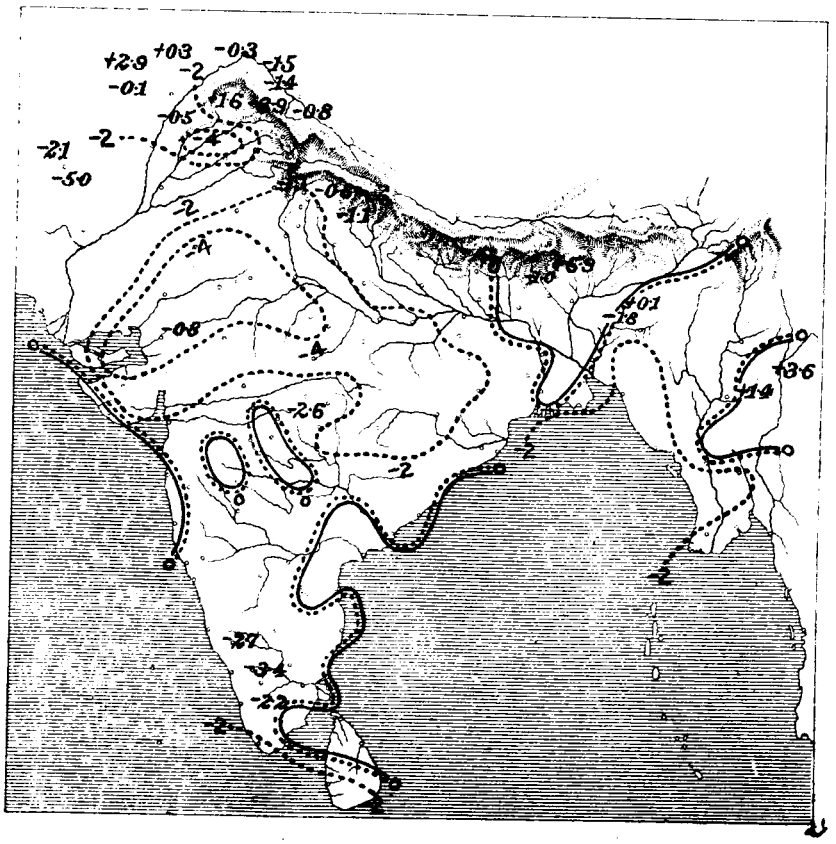


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

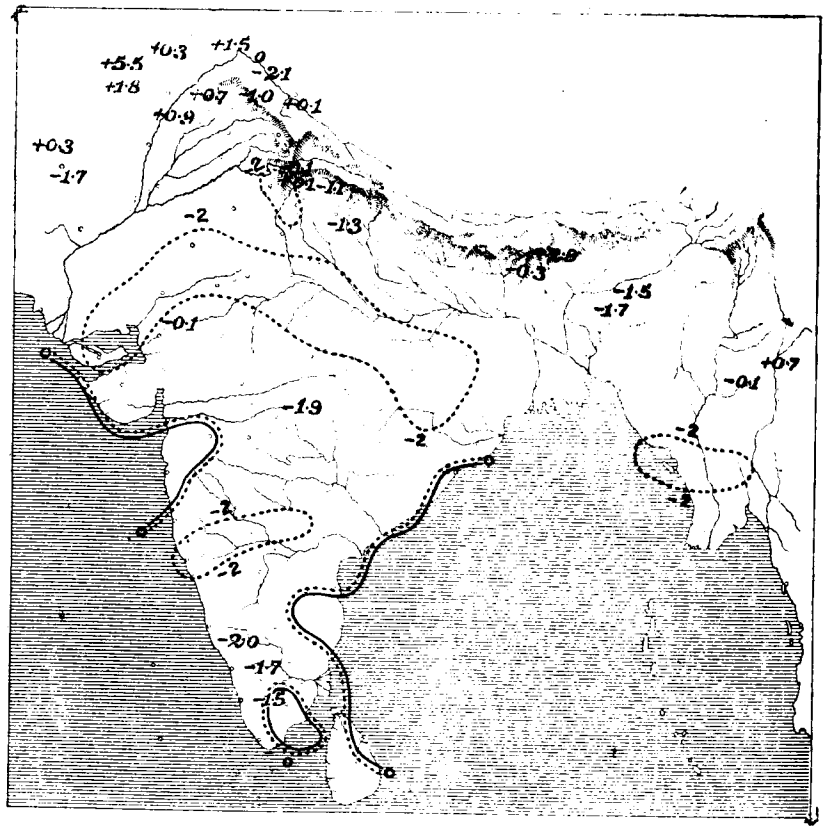


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

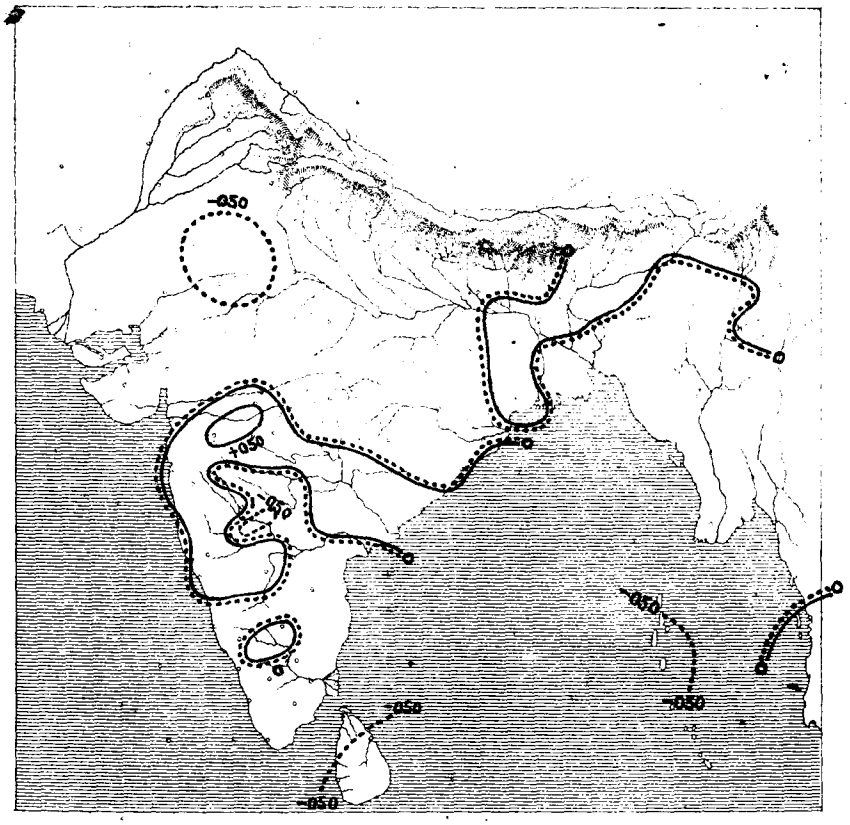


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

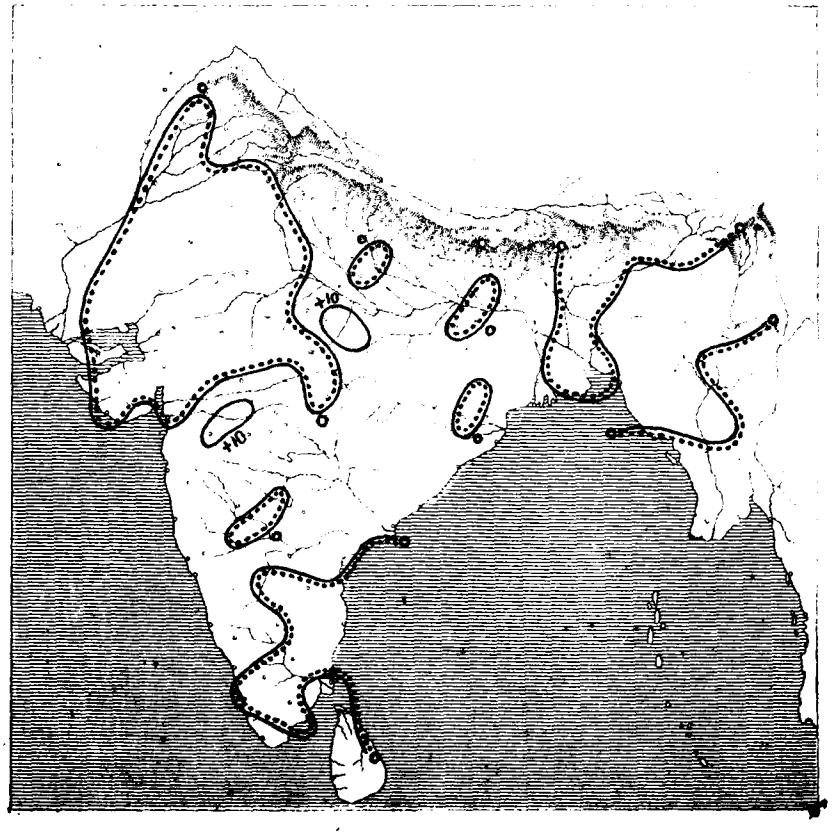


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

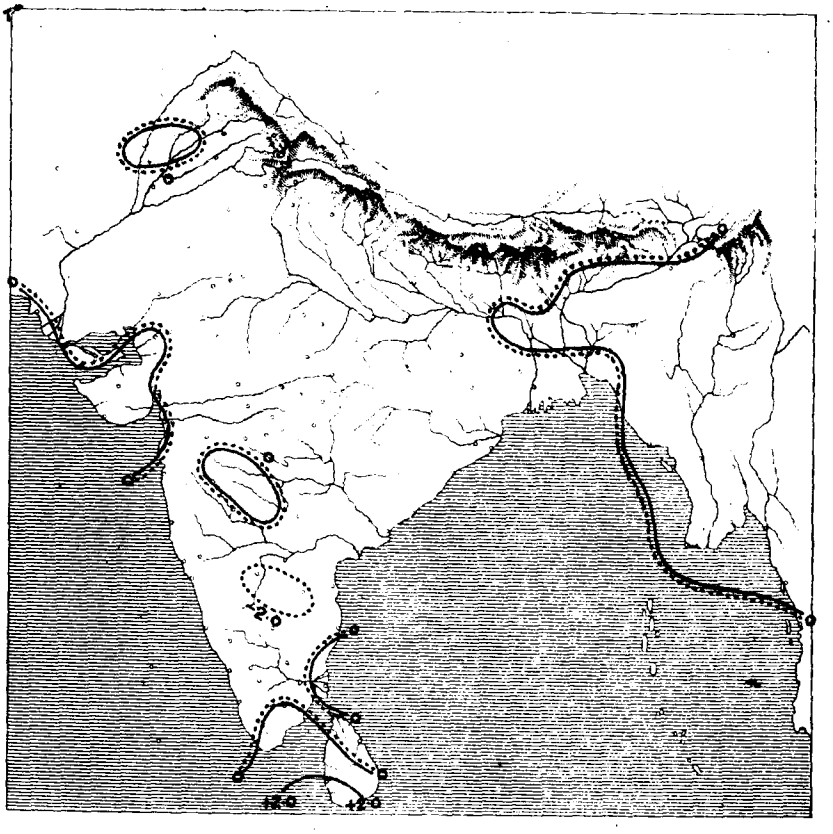
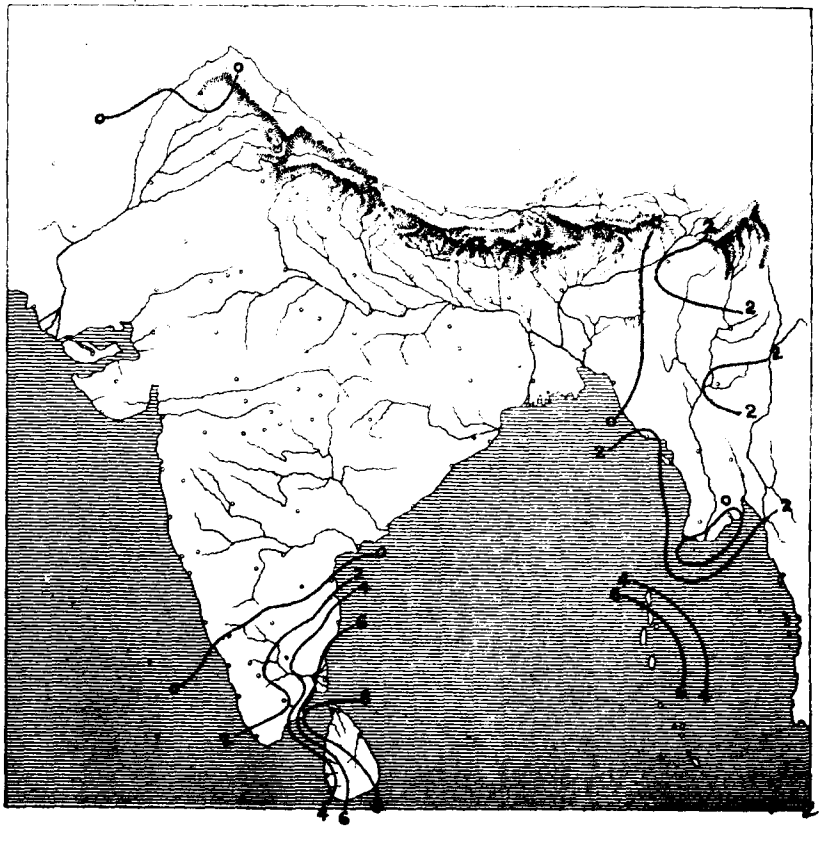
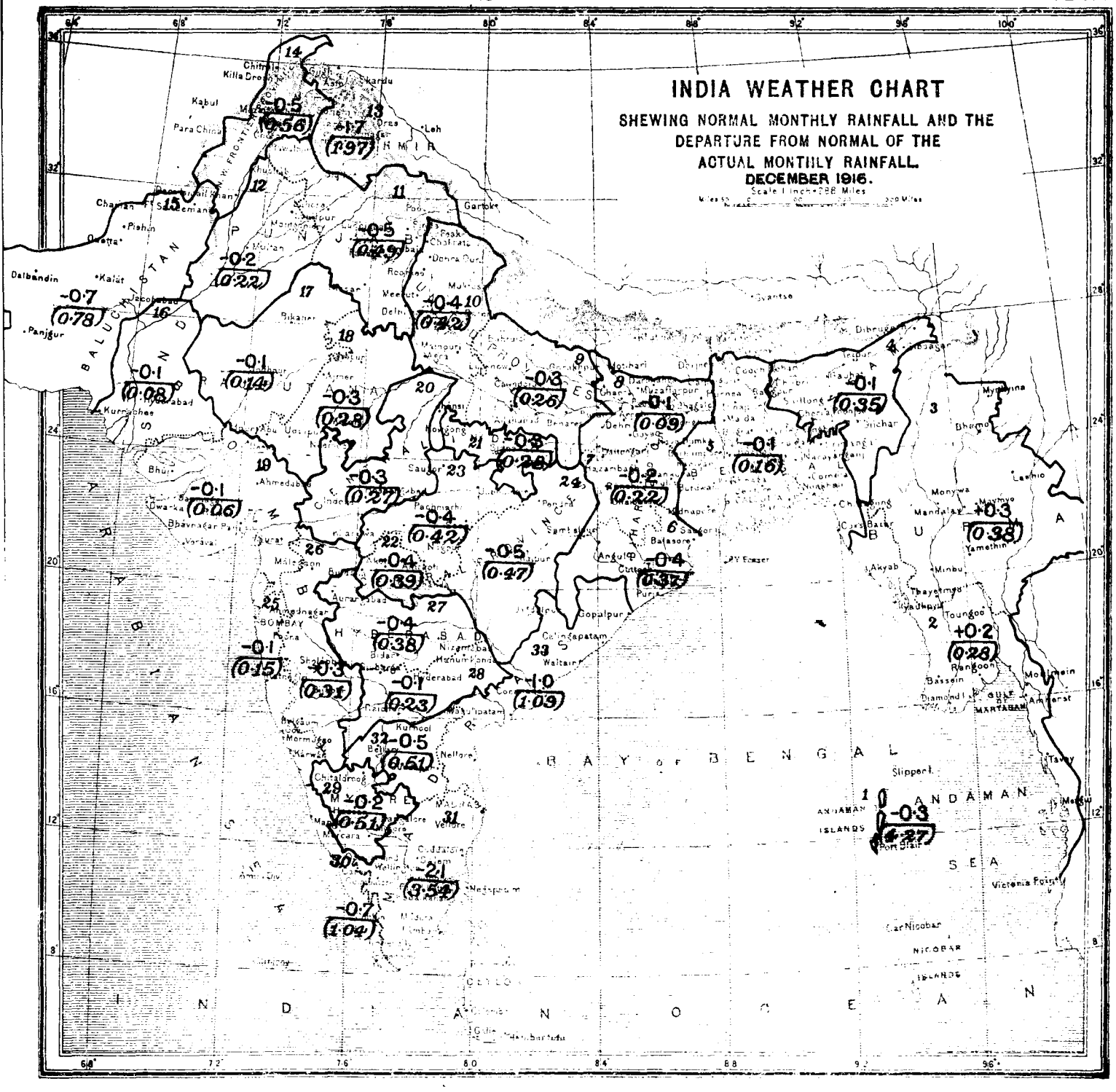


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North