GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART C

## STORMS AND DEPRESSIONS.

CONTENTS


| | Page | | Page |
|---|---|---|---|
| Depressions and Cyclonic Storms | C 1 | Local Storms | C 16 |
| Western Disturbances | C 15 | Winds of force nine or more in Indian Seas | C 18 |



Published by the Authority of the Government of India

UNDER THE DIRECTION OF

C.W.B. NORMAND, M.A., D.Sc.,

*Director General of Observatories*

CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

# National Oceanic and Atmospheric Administration

## Environmental Data Rescue Program

### ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This document has been imaged through the NOAA Environmental Data Rescue Program. To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or www.reference@nodc.noaa.gov.

Information Manufacturing Corporation
Imaging Subcontractor
Rocket Center, West Virginia
September 14, 1999

**Government of India Publications are obtainable from the Government of India Central Publication Branch, 3, Government Place, West, Calcutta, and from the following Agents :—**

**EUROPE.**

OFFICE OF THE HIGH COMMISSIONER FOR INDIA,
42, GROSVENOR GARDENS, LONDON, S. W. 1.

**And at all Booksellers.**

**INDIA AND CEYLON :**

**Provincial Book Depots.**

MADRAS :—Superintendent, Government Press, Mount Road, Madras.
BOMBAY :—Superintendent, Government Book Depot, Town Hall, Bombay.
SIND :—Library attached to the Office of the Commissioner in Sind, Karachi.
BENGAL :—Bengal Secretariat Book Depot, Writers' Buildings, Room No. 1, Ground Floor, Calcutta.
UNITED PROVINCES OF AGRA AND OUDH :—Superintendent of Government Press, United Provinces of Agra and Oudh, Allahabad.
PUNJAB :—Superintendent, Government Printing, Punjab, Lahore.
BURMA :—Superintendent, Government Printing, Burma, Rangoon.
CENTRAL PROVINCES AND BERAR :—Superintendent, Government Printing, Central Provinces, Nagpur.
ASSAM :—Superintendent, Assam Secretariat Press, Shillong.
BIHAR AND ORISSA :—Superintendent, Government Printing, Bihar and Orissa, P. O. Gulzarbagh, Patna.
COORG :—Office of the Chief Commissioner of Coorg, Bangalore.
NORTH-WEST FRONTIER PROVINCE :—Manager, Government Printing and Stationery, Peshawar.

---

Thacker, Spink & Co., Calcutta and Simla.
W. Newman & Co., Ltd., Calcutta.
R. Cambray & Co., Calcutta.
S. K. Lahiri & Co., Calcutta.
The Indian School Supply Depot, 309, Bow Bazar Street, Calcutta.
Butterworth & Co. (India), Ltd., Calcutta.
Rai M. C. Sarcar Bahadur & Sons, 90-2A, Harrison Road, Calcutta.
Standard Literature Company, Limited, Calcutta.
Association Press, Calcutta.
Chukervertty, Chatterjee & Co., Ltd., 13, College Square, Calcutta.
The Book Company, Calcutta.
James Murray & Co., 12, Government Place, Calcutta. (For Meteorological Publications only.)
Ray Choudhury & Co., 68-5, Asutosh Mukherji Road, Calcutta.
Scientific Publishing Co., 9, Taltolla Lane, Calcutta.
Chatterjee & Co., 204, Cornwallis Street, Calcutta.
Standard Law Book Society, 8-2, Hastings Street, Calcutta.
The Hindu Library, 3, Nandalal Mullick Lane, Calcutta.
B. C. Basak, Esq., Proprietor, Albert Library, Dacca.
Mitra Brothers, Rajshahi.
Higginbothams, Madras.
Rochouse and Sons, Madras.
G. A. Nateson & Co., Publishers, George Town, Madras.
Theosophical Publishing House, Adyar, Madras.
P. Varadachary & Co., Madras.
S. Murthy & Co., Madras.
Bright & Co., Trivandrum.
The Booklover's Resort, Taikad, Trivandrum, South India.
E. M. Gopalakrishna Kone, Pudumandapam, Madura.
Central Book Depot, Madura.
Vijapur & Co., Vizagapatam.
Thacker & Co., Ltd., Bombay.
D. B. Taraporevala Sons & Co., Bombay.
Sunder Pandurang, Bombay.
Ram Chandra Govind & Sons, Kalbadevi Road, Bombay.
N. M. Tripathi & Co., Booksellers, Princess Street, Kalbadevi Road, Bombay.
New and Secondhand Bookshop, Kalbadevi Road, Bombay.
Mrs. Radhabai Atmaram Sagoon, Kalbadevi Road, Bombay.
J. M. Pandia & Co., Bombay.
Gatulal & Co., Bombay.
A. H. Wheeler & Co., Allahabad, Calcutta and Bombay.
S. Govind & Co., Sandhurst Road, Girgaum, Bombay.
Proprietor, New Kitabkhana, Poona.
The Manager, Oriental Book Supplying Agency, 15, Shukrawar, Poona City.
Rama Krishna Bros., Opposite Visrambag, Poona City.
S. P. Bookstall, 21, Budhwar, Poona.
Mangaldas & Sons, Booksellers and Publishers, Bhaga Talao, Surat.
The Standard Book and Stationery Co., 32-33, Arbab Road, Peshawar.
R. B. Umadikar & Co., The Bharat Book Depot, Dharwar.
The Standard Bookstall, Karachi, Quetta, Delhi, Murree and Rawalpindi.
The Karachi Book Depot, Elphinstone Street, Camp, Karachi.
The English Bookstall, Karachi.
The Standard Bookstall, Quetta.
U. P. Malhotra & Co., Quetta.
J. Ray & Sons, 43, K. & L., Edwardes Road, Rawalpindi, Murree and Lahore.
The Standard Book Depot, Lahore, Nainital, Mussoorie, Dalhousie, Ambala Cantonment and Delhi.
N. B. Mathur, Supdt., Nazir Kanun Hind Press, Allahabad.
The North India Christian Tract and Book Society, 18, Clive Road, Allahabad.
Ram Dayal Agarwala, 184, Katra, Allahabad.
The Indian Army Book Depot, Juhi, Cawnpore.
The Indian Army Book Depot, Jullundur City.
Manager, Newal Kishore Press, Lucknow.
The Upper India Publishing House, Ltd., Literature Palace, Ammuddaula Park, Lucknow.
Rai Sahib M. Gulab Singh & Sons, Mufid-i-Am Press, Lahore and Allahabad.
Rama Krishna & Sons, Booksellers, Anarkali, Lahore.
Puri Brothers, Booksellers and Publishers, Katcheri Road, Lahore.
The Tilak School Bookshop, Lahore.
The Standard Bookstall, Lahore.
The Proprietor, Punjab Sanskrit Book Depot, Saidmitha Street, Lahore.
The Insurance Publicity Co., Ltd., Lahore.
The Punjab Religious Book Society, Lahore.
Manager of the Imperial Book Depot, 63, Chandney Chawk Street, Delhi.
Fono Book Agency, New Delhi.
Oxford Book and Stationery Company, Delhi and Calcutta.
Supdt., American Baptist Mission Press, Rangoon.
The Modern Publishing House, Ltd., 30, Phayre Street, Rangoon.
Burma Book Club, Ltd., Rangoon.
Manager, the "Hitavada," Nagpur.
Bhisey Brothers, Booksellers and Stationers, Sitabaldi, Nagpur.
S. C. Talukdar, Proprietor, Students & Co., Cooch Behar.
The Manager, Ceylon Observer, Colombo.
The Manager, The Indian Book Shop, Benares City.
Nandkishore & Bros., Chowk, Benares City.
The Srivilliputtur Co-operative Trading Union, Ltd., Srivilliputtur (S. I. R.).
Raghunath Prasad & Sons, Patna City.
The Students' Emporium, Patna.
K. L. Mathur & Bros., Guzri, Patna City.
Dandekar Brothers, Indore City.
Pushtakalaya Sahayak Sahakari, Ltd., Baroda.
The Hyderabad Book Depot, Chaderghat, Hyderabad (Deccan).
Thakur & Co., Amraoti.
S. Krishnaswami & Co., Teppakulam P. O., Trichinopoly Fort.
National College Teachers' Union Book Depot, Trichinopoly.

LIBRARY
FEB 2000
National Oceanic
Atmospheric Administration
U.S. Dept. of Commerce

QC
990
.I39
I52a
pt. C
1928

# ANNUAL SUMMARY, 1928.

## PART C

## STORMS AND DEPRESSIONS.

### DEPRESSIONS AND CYCLONIC STORMS.

During the year, seven storms and six depressions formed in the Bay of Bengal one depression over Bengal and one depression in the Arabian Sea. The dates on which the storms occurred and the greatest barometric depths observed are summarised in the table below. The detailed descriptions of these storms and depressions are, as usual, followed by a list of western disturbances of the year, of the more important local storms and of the localities in which winds of force 9 or more were experienced by ships in the Indian seas.

TABLE.

| Serial No. | Locality. | Month | Date. | Greatest observed barometric depth. |
|---|---|---|---|---|
| 3 | Bay of Bengal . | March | 24—28 | .. |
| 5 | Ditto . | June | 4—8 | .. |
| 8 | Ditto . | July | 16—22 | 0·25″ |
| 9 | Ditto . | Do. | 21—26 | 0·40″ |
| 16 | Ditto . | October | 1—6 | 0·34″ |
| 19 | Ditto . | November | 14—19 | 0·25″ |
| 20 | Ditto . | December | 22—25 | 0·25″ |

1. *Depression of 31st December 1927 to 5th January 1928.*—The shallow depression to the east and north-east of Ceylon which had appeared there towards the close of the previous month persisted during the first few days of January and was responsible for a spell of rainy weather in the south-east of the Peninsula between the 3rd and 7th. Some heavy falls were recorded in the Tanjore and Ramnad districts, Kodavasal registering 4·1″ and Manakudi 5·2″ on the 7th.

2. *Western disturbance of 29th February to 6th March 1928.*—On the 29th February a western disturbance began to affect the frontier where temperature was markedly higher than usual. It lay as a depression over Sind and the south-west Punjab on the 1st March and had moved over to the central Punjab by the next morning, without any development. The depression, however, deepened markedly during the course of the next 24 hours with a rapid fall of pressure along the frontier and the Punjab, where temperatures had risen 10°F to 15°F above normal. The depression had developed into a concentrated storm over the north Punjab by the morning of the 4th when the pressure deficiency at its centre was more than ·700.″ The storm carried at its rear unusually cold winds from the north-west and the thermometer fell by about 30°F over Baluchistan in 24 hours between the mornings of the 3rd and the 4th. This cold front marched rapidly eastwards through the Punjab and Rajputana where the temperatures fell to 15°F or 20°F below normal during the course of the next 48 hours. By the morning of the 5th the storm had weakened into a depression and practically disappeared by the next day.

During the period of development of the storm steep pressure gradients were introduced over the north Arabian Sea where ships experienced strong winds and very rough seas between the afternoons of the 3rd and the 4th.

Associated with the storm there was practically no rain but the onrush of strong cold winds from the north-west caused extensive and severe duststorms over the whole of north-west India between the 3rd and the 5th. These duststorms were reported to have caused serious damage to the Punjab wheat crop.

3. *Storm, March 24th to 28th.*—Unsettled conditions were indicated in the south-east of the Bay by the rainfall at Car Nicobar on the 19th and 20th, and by the rainsqualls experienced by *S. S. Ethiopia* on the latter date near Lat. 6° N and between Longs. 92° E and 97° E. These conditions apparently persisted for the next two days, occasional squalls being reported by steamers on the Colombo-Singapur route; rainfall also continued in the Nicobars and extended into the Andamans. By the morning of the 24th winds at Car Nicobar and Port Blair had become easterly. Light to gentle southerly, breezes were reported by steamers on the Singapore route, between Longs. 94°E and 98°E indicating that there was an incursion of equatorial air and consequent development of unsettled conditions to the south-west of Car Nicobar, where a depression must have formed on this day. For a number of days before 24th, the winds in the free atmosphere upto 4 Km. over Port Blair were from directions between north-east and south-east. On the 24th there was no pilot balloon ascent while on the 25th they were replaced by a fairly solid current upto 2 Km. from a south-easterly direction. They remained south-easterly throughout the period of the storm. No information is available about the strength of winds near the centre on this day, but judging from the experience of *S. S. Maihar* on the 25th, the depression appears to have intensified into a storm during the day and was situated near Lat. 11° N, Long. 88°E at noon of the 25th. The log of *S. S. Maihar* for the 25th is given below.

*S. S. Maihar.*

| Date. | Hour. | Position. | Corr. Bar | Wind. | | Cloud. | | Weather B. Notation. | Sea. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Direction. | Force. | Kind. | Amt. | | | |
| 25th March. | 4 | .. | 29·66 | ESE | 4 | St., Nb. | 10 | O. R. | Mod. sea from ESE with rather rough swell from SE. | 1·0 clocks back 4 min. Passing showers between mid. night and 2·0A. M. 2·0 to 3·30 cont. h. rain 5·0 wind veered SE. cont. rain bet. 4 & 8 A.M. 9·15 wind & sea increasing. Bar. falling rapidly. 10·0 vessel have to. Very heavy sea × swell. Heavy seas breaking aboard continuously. Visibility about ½ mile or less. Frequent heavy squalls. Bar. rose 1/100 only bet. 11·30 and noon and rose ·38 inch. bet. Noon and 1·0 P.M. 1·0 wind veered SW wind and sea moderating and visibility improving. 1·19 full speed Resumed course. 2·0 corr. bar 999·6 very fine rain 3·0 rain ceased, wind and sea continued to moderate between 4·0 and 8·0 P.M., 8·0 lightning at SW. |
| | 8 | .. | 29·60 | SE | 5 | Nb. | 10 | O. R. Q. | Rather rough sea from SE with rough confused swell from SE × S. | |
| | Noon | 10° 54′ N 88° 13′E | 29·09 | SSW | 11 | A. St., St. | 10 | O. R. Q. | Precipitous sea from SSW with very heavy confused swell from S × SSW. | |
| | 4 | .... | 29·65 | SW × W | 4 | St· | 10 | O | Rather rough sea from SW × W with rough swell from north. | |
| | 8 | .... | 29·73 | SW × W | 3 | A. St., St. | 10 | O. 1 | Slight sea from SW × W with moderate swell from north. | |
| | Midt. | .... | 29·80 | SW × W | 2 | A. St. | 4 | bc. 1 | Smooth sea from SW × W with moderate swell from north. | 10·0 clocks back 8 min. stars appearing and clouds dispersing. |

This shows that the storm was of small extent, but that winds of hurricane force were not improbable near the centre. The Captain says that its full weight was felt from 9·30 A.M. to noon during which the wind hauled from SE to SSW and that the squalls were extremely violent and dangerous. The barometer read 29·60″ at 8 hrs., began to fall rapidly thereafter reading only 29·32″ at 9 hrs. 15 mins.; it fell further to 29·08″ at 11 hrs. 30 mins. which was the lowest reading recorded. During the next half hour the barometer was almost steady, the reading at noon being only 29·09.″ After this there was a rapid rise of pressure to 29·46″ at 13 hrs., 29·52″ at 14 hrs. and 29·61″ at 15 hrs. As the vessel was hove to from 10 hrs. to 13 hrs. 19 mins. the changes in pressure and in winds in this interval may be assumed to be practically solely due to the movement of the storm, which appears to have been moving slowly at about 5 miles an hour at this time. The diameter of the circle of violent winds probably did not exceed 20 miles.

At 8 hrs. of the 26th the storm centre was near Lat. 11¾° N, Long. 87½°E. *S.S. Gamaria* about 60 miles to the north reported a strong ENE wind and rough sea with conspicuous swell from NE, while the *S. S. Warina* about the same distance to the east reported a moderate breeze, rough sea and conspicuous southerly swell. *S. S. Howrah* bound to Rangoon reported heavy rainsqualls at 4 hrs. and strong wind, rough sea and moderate swell near Lat. 11½°N, Long. 89½°E at 8 hrs. *S. S. Nawab*, also bound to Rangoon, noon position, Lat. 10¼°N, Long. 87¾°E, had at 16 hrs. a moderate SW wind with continuous heavy rain and moderate to heavy following sea.

The position of the storm centre next day cannot be fixed as there were no steamers within 200 miles of its probable position; but the wind directions reported to the south exhibits some sort of a cyclonic circulation and hence indicate its continued existence probably only as a depression. The upper winds at Madras also do not show anything conclusive. On the 22nd, 23rd and 24th upto 1 Km. they were south-easterly, and between NE to NW higher up to 6 Km.

On the 25th and 26th morning up to 1 Km. the winds showed a backing towards east as well as a weakening; while the higher winds remained more or less the same. On the afternoon of the 26th, the 0·5 Km. and 1Km. winds backed further practically to due N and were of moderate strength. On the 27th morning these veered to SE & E and became feeble; while in the afternoon they were again from a northerly direction. Evidently they were not gripped in the storm circulation.

On the morning of the 28th, the centre of the depression was probably near Lat. 14°N, Long. 84°E. *S. S. Clan Maclean*, passing north to its east, experienced SE-ly winds of force 4 to 5 and moderate to rough sea; *S. S. Wartenfels* and Yselkerk going from Madras to Calcutta along the coast had moderate north-easterly winds in the forenoon and easterly winds in the evening. On this day upper winds at Madras upto 4 Km. were all northerly and moderately strong except at ·5 and 1 Km. A noon flight of a pilot balloon indicated the same character. The 6 Km. wind however was south-east in the morning and south at noon but extremely feeble (not exceeding 2 metres per sec.).

Next day there was only a diffuse depression off the north Coromandel Coast, which disappeared during the day. The humid winds brought by the depression however caused widespread thunderstorms in the south of the Peninsula from the 28th March to 2nd April. Upper winds at Madras continued northerly upto 2 Km. beyond which the balloon was lost. On the 30th morning there was no flight as it was raining but in the afternoon a definite change was observed as winds upto 2 Km. were from a southerly direction.

Storms are rare in this month : the only recorded storms previous to this one are those of 8th to 10th March 1907 and 11th to 16th March 1925. They were also similar in being of small extent, though severe within their small cores.

4. *Depression of 12th, 13th May 1928.*—During the eastward passage of the southern portion of a western disturbance weather became unsettled in the north of the Bay on the 11th. The upper winds at Diamond Harbour which had been from between S and SE on the 9th had backed slightly and weakened next day: on the 11th the wind was SSE at 0·5 Km., but observations were lacking for greater heights. At Akyab winds were very light and from directions between N & NE on the 9th: on the 10th southerly components had replaced the northerly ones, and on the morning of the 11th there was a slight strengthening in the winds which were from directions between S & SW. The upper winds over Port Blair from directions between W & SW had also strengthened on this day.

A depression existed between the Sandheads and the Arakan-Chittagong coast on the morning of the 12th; and had caused widespread rain round the north of the Bay. On this morning upper winds over Akyab were blowing at about 15 m. p. s. from SSW up to 3 Km., beyond which the balloon was lost. Port Blair upper winds were also stronger than on the previous day and from between W & WSW. At Diamond Harbour the morning pilot-balloon was lost just above 0·5 Km., where the wind direction was NNE; an afternoon ascent at 17 hrs. showed that the wind at 0·5 Km. had backed to W, and winds higher up gradually veered, the direction at 4 Km. being NNW. These winds confirm the indication of the evening weather chart of a northward motion of the depression since the morning. Strong monsoon winds prevailed to the south of the depression and caused an extension of rainfall in Tenasserim and a heavy downpour on the north Arakan coast; Akyab receiving 3″ and Kyaukpyu 4″ in the 24 hours ending at 8 hrs. on the 13th.

On the morning of the 13th the depression lay over north Burma and upper winds at Akyab had veered to between west and northwest. Fresh to strong south-westerly winds were reported by steamers off the coast. The depression disappeared during the day after causing widespread rain locally associated with thunderstorms in Burma and east Assam.

The most remarkable of these thunderstorms was that which occurred at Rangoon on the afternoon of the 13th, an account of which is given below.

The sky became heavily overcast at 1·30 P.M. and at 2 P.M. a SW wind of hurricane force swept up the river and over the adjoining portions of the City. Fortunately the severe gale lasted only for ten minutes, but within this short period the Beckley's anemograph in the Port Commissioner's office recorded a total wind movement of 17 miles; the average velocity of the gale is thus some 100 miles an hour, and some individual gusts might have had greater velocity. The wind made a roaring sound like that which precedes an earthquake. With the cessation of this hurricane there was a torrential downpour for three quarters of an hour flooding most of the streets.

The damage caused by the gale was confined to the river and to the portion of the town south of Dalhousie Street: north of this street there was hardly any damage. Brooking Street, Merchant Street and Creek Street suffered most. In the river many sampans were sunk or dashed against the banks, and one cargo boat foundered. Most of the wooden structures on the banks suffered considerable damage. In the suburbs the storm played havoc with the smaller houses and in Dalla four big godowns were blown down.

5. *Storm of 4th to 8th June 1928.*—In front of an advance of the monsoon in the east of the Bay weather became disturbed on the 4th in the neighbourhood of Lat. 17° N, Long 90° E. *S. S. Cocanada* bound west from Rangoon reported from this region variable or northerly moderate to fresh breeze, with moderate sea, heavy swell and continuous heavy rain. The disturbance appears to have moved northwards during the day and developed by the morning of the 5th into a shallow depression with central region near Lat. 18½° N, Long. 89°E. The monsoon had been very active to the east of the depression, Akyab reporting 8″ and Kyaukpyu 4″ of rain that morning. It continued strong to its south during the day and caused heavy rain over most of the south Burma coast. At Port Blair the SW upper winds up to a height of 1 Km. which were 15 to 16 m. p. s. the previous day had strengthened 18 to 20 m. p. s. At Dacca also the balloon was followed up to 1 Km. only; winds were E/N and 5 to 6 m. p. s.; and alto-cumulus was moving from ENE. At Diamond Harbour the wind at 0·5 Km. was from ENE, 5 m. p. s. A flight at 17 hrs. at Diamond Harbour showed that the winds were from south-east up to 1 Km., while higher up, up to 6 Km., they were from directions between N and NE, velocity ranging from 5 to 10 m. p. s.

By the morning of the 6th the depression had moved to the neighbourhood of Lat. 19½° N, Long. 90° E, and become more marked. The upper winds at Port Blair, where the balloon was observed up to 2 Km., continued strong, while the upper winds at Dacca and Diamond Harbour showed a distinct cyclonic circulation; the winds at the former station were weak from E/S up to 1 Km. and strong from SE at 2 Km.; the winds at Diamond Harbour were from NE up to 1 Km., and from the N from 2 to 5 Kms., the velocity increasing with height and reaching 14 m. p. s. at 5 Kms. At the surface slight to gentle breezes prevailed in the area of the depression as well as to the north of it. No reports from steamers are available to the south of the depression as far as Diamond Island, but strong winds were reported off the mouths of the Irrawaddy.

The depression moved further north-eastward during the day and intensified, and was probably a storm with centre near Lat. 20° N, Long. 90½° E at 19 hrs. that evening. Moderate to strong winds were reported to the east and south of the storm, while to the north and north-west the surface winds were but slightly affected. A pilot balloon flight at 17 hrs. at Diamond Harbour indicated a slight veering of the wind at 0·5 Km. but the wind was still from NE at 1 Km.

The storm appears to have moved more slowly during the night and was centred near Lat. 20½° N, Long. 91° E at 8 hrs. on the 7th. *S. S. Dalgoma*, bound from Chittagong to

Rangoon, moving down the coast to the east of the storm had logged the following :—

*S. S. Dalgoma.*

| Date. | Time. | Barometer. | Wind. | REMARKS |
|---|---|---|---|---|
| 6 | Noon | .. | .. | Left Chittagong. |
| | 16 | 29·40 | N/E | Light breeze, slight sea and swell, overcast and occasional light rain. |
| | 20 | 29·38 | ESE | Squally weather with occasional heavy rain moderate sea and swell. |
| | 24 | 29·32 | S | Heavy wind, moderate sea and swell, overcast with frequent heavy rainsqualls. |
| 7 | 4 | 29·34 | SSW | Moderate gale, heavy sea and swell, overcast with frequent rainsqualls. |
| | 8 | 29·40 | SW | Moderate gale with occasional heavy rainsqualls, rough sea. |
| | 12 | 29·47 | S/W | Strong wind with occasional heavy rainsqualls, moderate sea and swell, dull and cloudy. |
| | 16 | 29·48 | SW/W | Strong monsoon, rough sea, moderate swell, overcast with frequent heavy rainsqualls. |

To the south of the Storm, strong monsoon winds with squally weather were reported as far south as the Andamans. *S. S. Jlona Siemers*, bound from Calcutta to Rangoon, noon position 7th Lat. 17° 43′ N. Long. 91° 47′ E, began experiencing high WSW winds at 20 hrs. 6th ; from 4 hrs. to noon of the 7th she had WSW to SW winds of force 7 to 9 with squalls reaching up to force 11, very rough sea and high south-westerly swell. *S. S. Hathkola* also bound to Rangoon, but further south, noon position Lat. 16° 25′ N, Long. 92° 58′ E, reported strong to high winds, squally weather, rough sea, heavy swell and heavy rain accompanied by thunder and lightning throughout the forenoon. Very heavy rain had fallen on the Arakan coast, Akyab and Kyaukpyu, each recording 7″. At Dacca the upper winds up to 4 Km. were gentle from an easterly direction. At Diamond Harbour also the winds were weak, from SE or E up to 2 Km. and from between N & W from 3 to 6 Km. The upper winds at this station were more definitely gripped by the depression, by evening, the direction being between NNE and NW up to 4 Km.

By 11 hrs. the storm had moved nearer the Cox's Bazar coast, and begun to weaken. Even when so close to the coast it was remarkable for the difference in the strength of the winds on the northern and southern sides. To the south and south-east there was a very strong monsoon blowing, while to the north, winds were only light to moderate. After 11 hrs. the storm weakened rapidly and moved up the coast to the north-east angle of the Bay where it was shown as a shallow depression at 19 hrs. It caused heavy rain on the north Arakan and Chittagong coasts, Chittagong reporting 9″ on the morning of the 8th.

The weather chart at 8 hrs. of the 8th showed that the depression had become a diffuse low over the head of the Bay, which disappeared in the course of the day.

Throughout its life the storm definitely showed that it was in front of the advancing monsoon current, in a region of discontinuity between the monsoon winds in the south and the continental winds to the north. These features were most marked on the 6th and 7th as the storm advanced, first towards the coast and then northwards along the coast; the front of the monsoon current apparently travelled up the coast with the storm. It lay roughly on a line joining Saugor Island and Dacca, on the morning of the 9th ; but it ceased to be marked the next day.

6. *Advance of monsoon, 4th to 9th and 13th to 17th June.*—The permanent advance of the south-west monsoon occurred in the south-east Arabian Sea on the 3rd June wit strong winds and rough seas ; heavy rain fell along the Malabar coast on that day. The rough weather extended northwards into the east and central Arabian Sea by the 6th and into the whole Arabian Sea by the 8th. Gales were experienced by *S. S. "Macedonia"* at 15° N, 57° E on the morning of the 5th and by *S. S. "City of Durban"* at 10·30° N, 52·30° E on the morning of the 7th. Between the 4th and the 8th rainfall extended northwards along the west coast up to Bombay, Karwar having more than 7″ on the 5th. The monsoon strengthened markedly again between the 14th and the 17th, when rough weather prevailed practically over the whole Arabian Sea ; *S. S. "Warship"* at 21°N, 64°E and *S. S. "Masimpur"* at 22°N, 68·30°E, reported gales on the 16th morning.

7. *Depression of 14th to 19th June 1928.*—A depression developed on the 14th over the northern districts of south-west Bengal and the adjacent districts of Bihar and Chota Nagpur. It gave extensive rain over north-east India on the 14th and 15th, the falls being heaviest in the region from Bankura to Naya Dumka. Upper winds up to 2 Km. at Diamond Harbour were strong from W or WNW, while at Dacca the 0·5 wind was from ESE and Cumulo-Nimbus was from E. The depression shifted south-eastwards and lay over deltaic Bengal on the 16th ; the upper winds at Dacca were SE and had strengthened considerably, while at Patna they were strong from northerly directions. In the next 24 hours there was no appreciable change in the position of the depression, and very heavy rain fell locally in the Midnapore, Burdwan and Bankura districts. The depression began moving slowly westwards on the 17th and lay over the western districts of south-west Bengal on the 18th. The upper winds at Patna were strong from ENE on this day, while those at Dacca and Diamond Harbour were SSE and SSW respectively at 0·5 Km. The depression moved further westwards to Chota Nagpur where it gave locally heavy rain during the day, and disappeared on the 19th.

8. *Storm of 16th to 23rd July 1928.*—Towards the end of June the Arabian Sea monsoon was weak. But about the beginning of July it strengthened and following upon this, a wave of low pressure advanced into the Bay from the Indian Ocean. This wave passed a short distance to the east of Ceylon and was responsible for unusually heavy rain over a large part of the island on the 7th. The wave passed towards the centre of the Bay, within the next few days, as indicated by the upper winds upto 4 Km. at Mardas which backed from direction between N & E to N W or WNW and by the upper winds at Port Blair upto 1 Km. which strengthened greatly. Another pulse of unsettled conditions seemed to travel up from the east of Ceylon from the 12th. Port Blair upper winds upto 3 Km. showed on the 14th a very strong and solid south-westerly current

apparently of fresh monsoon. A wave of low pressure also passed into the Bay from south and central Burma on the 14th and 15th. Subsequent newspaper reports indicate (1) destructive "typhoons" (probably local squalls) in the neighbourhood of Hanoi in French Indo-China on the 17th or 18th, (2) stormy weather in Rangoon on the 17th and (3) a tornado in Moulmein on the 17th night. These were evidently connected with the passage of this disturbance. On the morning of the 16th a trough of low pressure lay across the tract from off the Arakan coast to the United Provinces. At Diamond Harbour near Calcutta upper winds were light and variable even upto the height of 3 Km.; while the monsoon was vigorous to the south of the trough; *S. S. Ahmeli* reported gale from the neighbourhood of Table Island and several steamers off Diamond and Table Islands experienced frequent heavy rain squalls.

The following data from the radio weather messages from *S. S. "Kumsang"* show the state of the weather in the Andaman Sea during the day.

| Date. | Hour. | Approximate. Lat. | Long. | Wind. Force. | Wind. Dir. | Sea. | Swell. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| 16th. | 17 | | | 8 or 9 | SW | | | |
| | 20 | 12½ | 94½ | 12 | SW | Ro. | Conspicuous from SW. | Squally, passing rain squalls of hurricane force. |
| | 21 | | | 8 or 9 | | | | |
| | 24 | 12½ | 94½ | 8 or 9 | SW | Mod. | Mod. from SW. | Squally. |
| 17th. | 7 | 13½ | 93½ | 6 or 7 | SW | Mod. | Heavy from W. | Squally, passing rain squalls of whole gale force. |

By the morning of the 17th a depression had formed with centre near lat. 19° long. 92°. The upper winds at Diamond Harbour though from between south and west, were extremely light, while those at Akyab though light were from direction between N and NE upto 3 Km. and from the east, and stronger at 4 & 6 Km.

During this day *S. S. "Beme"* (Calcutta to Rangoon), *S. S. "Rangoon Maru"* (the Straits to Calcutta) and *S. S. "Shah Jehan"* (Rangoon to Chittagong) were in the central area of the depression. Their logs show that the winds were very light and variable on the side from W through N to the north-east of the centre, while in keeping with the extremely steep gradient to the south, winds of force 7 to 8 and rough seas were encountered in the south and south-east octants to a distance of about 400 miles. The depression moved north-westwards, intensifying at the same time. By 8 hrs. on the 18th it had become a storm with centre near latitude 20°, longitude 90°. The deficiency of pressure at this stage was probably not less than a quarter of an inch. On this day *S. S. "Angora"* (Calcutta to Rangoon) was nearest to the centre. Her observations show that from 4 hrs. to 14 hrs. she had light or gentle breeze, which backed from NNW to WSW, and slight or moderate sea with very heavy south-westerly swell. At 15 hrs. she commenced to encounter stronger winds, 'hove to' at 16 hrs. 48 mins. The storm continued to move north-westwards and by 20 hrs. *S. S. "Angora"* had gone into the gradient of high winds : she had westerly gales of force 9 or 10 from that hour to 23 hrs., of force 8 or 9 at midnight and of force 10 thereafter upto 5 hrs. on the 19th. An extract from her log is given below—

*S. S. Angora.*

| Date. | Hour. | Position. | Wind. Dir. | Wind. Force. | Remarks. |
|---|---|---|---|---|---|
| 18th. | 4 | Course S 46 E speed. 12½ knots. | NW | 2 | Slight sea. Mod. SW-ly swell fine, clear. |
| | 6-30 | | WNW | 3—6 | cloudy. Lightning and rain to the E and NE Vessel pitching. |
| | 7 | | W | 2 | |
| | 8 | 19·42N 89·30E . | WSW | 2 | Mod. sea heavy swell. Rain pitching heavily. |
| | 12 | 19·12 90·5 . | WSW | 1—2 | Continuous drizzling rain. Heavy swell. Slight sea. |
| | 14 | Course S 46 E . | WSW | 3 | |
| | 15 | . | W | 5—6 | |
| | 16 | . | W | 6 | Overcast and dull. Continuous rain. Mod. sea. Very heavy SW-ly swell. Frequent heavy wind and rain squalls. Vessel rolling and spraying forward. |
| | 16·48 | Hove to SH S to SW | | | |
| | 20 | | W SW | 9—10 | Whole gale WSW. Very heavy sea and swell SW, heavy rain squalls vessel labouring violently and shipping water forward. |
| | 21 | SH SW & S . . | WNW | 9—10 | Whole gale. Average speed from 20·00 to 24·00=2 knots. |
| | 22 | | WNW | 9—10 | Whole gale. |
| | 23 | | W×N | 9—10 | Whole gale. |
| | 24 | | W×N | 8—9 | Heavy swell and sea. Frequent very heavy squalls. Vessel labouring and shipping sprays fore and aft. |
| 19th. | 1 | SH SW . . | W | 10 | |
| | 2 | | W×N | 10 | |
| | 3 | | W | 10 | 0·00 to 04·00 average speed =0·75 knots. |
| | 4 | Hove to SH SW . | W×S | 10 | Full gale. Overcast. Continuous rain. Frequent heavy wind and rain squalls. Rough high sea and very heavy westerly swell. Vessel pitching and rolling and taking waters on board forward. |
| | 5 | | SW×W | 10 | |
| | 6 | | SW | 9 | |
| | 7 | | SW | 8 | 4·0 to 8·0 average speed 1½ knots. |
| | 8 | 17·56N 90·29E . | SW | 7—8 | Heavy swell rough sea frequent heavy rain squalls but conditions moderating slightly. Vessel labouring and taking water forward. |
| | 9 | | SW | 7—8 | 8·0 to 12 average speed 1 knot. |
| | 10 | | SW | 8 | |
| | 11 | | WSW | 9 | 11·45. The heaviest squall of the gale force 11 direction WSW. |

*S. S. Angora*—contd.

| Date. | Hour. | Position. | Wind. Dir. | Wind. Force. | Remarks. |
|---|---|---|---|---|---|
| 19th | 12 | Noon position by O. R. (Sun observed) 17·46, 90·34. | WSW | 10 | Noon conditions not improved this watch. Continuous rain with heavy squalls. Heavy SW-ly swell. Vessel labouring and shipping water. |
| | 13 | | WSW | 10 | |
| | 14 | Course reset S44 E2 knots. | WSW | 9 | Vessel brought round by use of Engines and course reset for alguada. |
| | 15 | . . . | WSW | 8 | |
| | 16 | . . . . | WSW | 7—8 | Weather moderating slightly. Heavy sea and swell. Continuous rain with very frequent heavy wind and rain squalls. Vessel rolling pitching and spraying forward. |

*S. S. Angora*—contd.

| Date. | Hour. | Position. | Wind Dir. | Wind Force. | Remarks. |
|---|---|---|---|---|---|
| 19th | 18 | | SW | 6 | Heavy confused sea and swell. Occ. squalls W force 8-9. |
| | 20 | | SW | 5 | Heavy confused sea and swell. Overcast light drizzle. Squalls less frequent. Weather improving. |
| | 22 | | SSW | 5—6 | Heavy swell and high sea. Conditions unchanged but sky clearing slightly. |

During the 18th a number of other steamers also experienced high winds and rough weather as indicated in the following table :—

| Steamer. | Approximate. Lat. | Approximate. Long. | Hour. | Wind. Direction. | Wind. Force. | Sea | Swell. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| *Beme* . . . | 16¾ | 92¾ | 10 | WSW | 9-10 | Very rough . | Very heavy SW swell | Frequent violent squalls. |
| *Chakdina* . . | 16 | 94 | 16 | WSW | 6 | Mountainous seas | Large swell . | Ovt. heavy rain. |
| *Chantala* . . | 18¼<br>17½ | 93<br>93 | 16<br>20 | SW to WSW | 7 | Heavy sea . | Heavy swell . | Ovt. heavy rain, Occl. heavy rain and wind squalls. |
| *Chakdara* . . | Off south coast. | Arrakan | 16<br>24 | SW to W | 8 | High sea . | Heavy swell . | Heavy rain and frequent severe rain and wind squalls. |
| *Lok Sun.* . . | 18 | 93½ | 8 | WSW | 7 | Beam sea. . | | Heavy rain. |
| | Between 17<br>16½ | 93½ and<br>93½ | 12h. of 18th to 4h. of 19th. | SW | 9 | High or rough sea. | | At 20h. squalls of hurricane force. |

The storm continued to move north-westwards and was centred at 8hrs. on the 19th about 60 miles south-east of Saugor Island. The progress of the storm during the day can be inferred from the sequence of weather experienced by the light vessel '*Hesperus*' Muttah Station and '*Fame*.' Pilots Ridge station and from the observations reported from the Pilot Vessel at the Sandheads and from the Saugor Island Light House. The logs of the light vessels and the wind directions and force recorded by the Pilot Vessel at the Sandheads and the wind direction and velocity of Saugor Island are given below.

Storm Report from Mr. W. O. Hill, Commander L. V. *Fame*, Pilot Ridge Station.

| Date. | Hour. | Wind. Dir. | Wind. Force. | Weather Remarks. |
|---|---|---|---|---|
| 18th July . . | Noon | NW | 4 | Squally. Overcast squally with cont. rain and heavy N. W. Sea. |
| 18th July . . | 13 | NW | 6 | Squally |
| | 14 | ,, | 6 | Do. |
| | 15 | ,, | 6 | Do. |
| | 16 | ,, | 6 | Do. |
| | 17 | ,, | 7 | Do. |
| | 18 | ,, | 7 | Do. |
| | 19 | ,, | 7-8 | Do. |
| | 20 | ,, | 7-8 | Do. |
| | 21 | ,, | 7-8 | Do. |
| | 22 | ,, | 7-8 | Do. |
| | 23 | ,, | 6 | Squally. Heavy confused sea running. |
| | 24 | North | 5 | Squally. |
| 19th July . . | 1 | North | 5 | Unsettled. Very heavy confused sea apparently the centre of the storm is passing over us. |

| Date. | Hour. | Wind. | | Weather Remarks. |
|---|---|---|---|---|
| | | Dir. | Force. | |
| 19th July . . | 2 | North | 2 | Unsettled. |
| | 3 | ,, | 2 | Do. |
| | 4 | ,, | 2 | Do. |
| | 5 | ,, | 2 | Do. |
| | 6 | ,, | 2 | Do. |
| | 7 | ,, | 2 | Do. |
| | 8 | ,, | 4 | Do. |
| | 9 | ,, | 4 | Do. |
| | 10 | West | 7-8 | Squally. Heavy gale. |
| | 11 | ,, | 8 | Ditto. |
| | 12 | S. W. | 8 | Ditto. |
| | 13 | ,, | 8 | Ditto. |
| | 14 | ,, | 8 | Ditto. |
| | 15 | ,, | 7 | Squally. Gale moderating. |
| | 16 | ,, | 7 | Do. |
| | 17 | ,, | 6 | Do. |
| | 18 | ,, | 4-5 | Squally. Settled into the usual S. W. monsoon weather. Wind and sea decreasing. |

Storm Report from Mr. J. G. Fox, Officer-in-Charge, F.L.V. *Hesperus*, Mutlah Station.

| Date. | Hour. | Wind. | | Weather Remarks. |
|---|---|---|---|---|
| | | Dir. | Force. | |
| 18th July . . | 2 | SW | 3 | Unsettled. |
| | 4 | NW | 4 | Do. |
| | 6 | ,, | 5 | Do. |
| | 8 | ,, | 5 | Do. |
| | 10 | ,, | 6 | Do. |
| | 12 | NNW | 6-8 | Do. |
| | 14 | ,, | 8-10 | Cyclonic. |
| | 16 | NW | 8-10 | Do. |
| | 18 | WNW | 8-10 | Do. |
| | 20 | ,, | 8-10 | Do. |
| | 22 | ,, | 8-10 | Do. |
| | 24 | ,, | 8-10 | Do. |
| 19th July . . | 1 | NW | 8 | Cyclonic and squally. |
| | 2 | ,, | 8 | Ditto. |
| | 3 | ,, | 6 | Ditto. |
| | 4 | North | 4 | Ditto. |
| | 5 | ,, | 4 | Ditto. |
| | 6 | NNE | 4 | Ditto. |
| | 7 | ,, | 5 | Ditto. |
| | 8 | ,, | 6 | Ditto. |
| | 9 | ,, | 6 | Ditto. |
| | 10 | ,, | 6 | Ditto. |
| | 11 | ,, | 4 | Ditto. |
| | 12 | WNW | 4 | Ditto. |
| | 13 | SW | 6 | Ditto. |

| Date. | Hour. | Winds. | | Weather Remarks. |
|---|---|---|---|---|
| | | Dir. | Force. | |
| 19th July . . | 14 | SW | 10-12 | Cyclonic and squally. |
| | 15 | ,, | 9-10 | Ditto. |
| | 16 | ,, | 8-9 | Ditto. |
| | 17 | ,, | 7-8 | Ditto. |
| | 18 | ,, | 7-8 | Ditto. |
| | 19 | ,, | 7-8 | Ditto. |
| | 20 | ,, | 6-8 | Ditto. |
| | 21 | ,, | 6-8 | Ditto. |
| | 22 | ,, | 6-8 | Ditto. |
| | 23 | ,, | 6-8 | Ditto. |
| | 24 | ,, | 6-8 | Ditto. |

Direction and force of wind at the Sandheads and at Saugor Island on the 19th July 1928 :—

| Hour. | The Sandheads. | | Saugor Island. | |
|---|---|---|---|---|
| | Direction. | Force. | Direction. | Force. |
| 3 | W | 7 | NNE | 3 |
| 7 | WSW | 8 | NE | 4 |
| 8 | WSW | 7 | NNE | 5 |
| 11 | WSW | 7 | NNE | 5 |
| 15 | WSW | 6 | NW | 2 |
| 19 | WSW | 4 | SSW | 5 |
| 23 | WSW | 4 | SSW | 6 |

These show that the storm passed very close to the Light Vessel at Mutlah Station between 12 and 13 hrs. and crossed the coast just east of Saugor Island about 15 hrs. The centre passed a short distance to the west of Calcutta about 19 hrs. the pressure departure from normal at Calcutta at this stage was about ¼″ and the storm was weakening. As a depression it moved in a nearly westerly direction at an accelerated speed. By 8 hrs. on the 20th it had reached the north-east of the Central Provinces and was over Central India West the morning following. It had moved to the neighbourhood of Bahawalpur by 8 hrs. of the 22nd and ceased to be of importance by the morning of the 23rd.

During the career of this storm the activity of the Arabian Sea monsoon also increased. Even before it gave widespread and locally heavy rain in south-west Bengal on the 18th, similar rainfall occurred in the United Provinces and Orissa on the 16th, and in Central India East and the Central Provinces on the 17th. Further, the widespread rainfall was restricted to the region south of its track; the falls were locally heavy in the Central Provinces, Kathiawar and the Konkan. The advance of the depression into south-west Punjab was responsible for a vigorous extension of the monsoon into the Punjab where locally heavy rain fell on the 22nd and 23rd.

Among the heavy falls recorded at individual stations, the most noteworthy are 15·74″ in the 24 hrs. ending at 8

hrs. on the 20th, followed by another 6·24″ in the next 24 hrs. at Porbandar, and 9·51″ in the fortyeight hours ending at 8 hrs. on the 21st at Dwarka.

9. *Storm of 21st to 28th July 1928.*—On the morning of the 21st the seasonal trough of low pressure was extending into the north of the Bay as far as longitude 92°. A wave of low pressure was passing westwards over central Burma. Squally weather prevailed off the Arakan coast and between the Andamans and the Madras coast. At 18 hrs. *S. S.* '*Warialda*' (Colombo to Rangoon) exeprienced near lat. 12½° long. 91½° a fresh to strong gale from WSW with rough sea.

Rain, locally heavy or continuous or attended with squalls, was reported from a large area at sea, off the Arakan and Pegu coasts. On the morning of the 22nd *S. S.* '*Jalapalaka*' (Rangoon to Calcutta) was in the neighbourhood of lat. 17°, long. 91½° and her observations between 20 hrs. of the 21st and 8 hrs. of the 22nd show a veering of wind from WSW through W to N, the force decreasing from 6 to 3. The changes in the winds experienced by this steamer, taken with the circumstance that at 8 hrs. on the 22nd the upper winds at Akyab were from SE even upto 4 km., the limit up to which observation was possible, show that the trough was concentrating near lat. 18½° long. 91°.

By 8 hrs. of the 23rd a depression had formed with centre near lat. 19° long. 89½°, where the deficiency of pressure was probably of the order of ·15.″ A number of steamers in this region experienced winds of force 7 to 9 with rough or high seas and heavy swell. The depression thus continued intensifying and was moving slowly in a north-westerly direction.

By 8 hrs. on the 24th the depression had become a storm with centre near lat. 19½° long. 89°, where the pressure deficiency was apparently about a quarter of an inch. The Pilot Vessel at the Sandheads had a fresh NE wind and moderate or heavy swell from the south, while *S. S.* '*Shunkoh Maru*' (Rangoon to Calcutta, noon position lat. 19 33, long. 89/47) had south-westerly wind of force 6/7 throughout the day, with high seas and swell. *S. S.* '*Sussex*' in the south-east quadrant had at 9 hrs. near lat. 18° long. 91½° a fresh gale from the south-west. In the south-west quadrant steamers '*Cocanada*' and '*Englestan*', the extracts from logs of which are given at the end, experienced fresh or strong gales. The storm then began to move faster in a nearly northerly direction and was apparently centred at 19 hrs. about fifty miles east of the Sandheads. Later on it changed its course roughly to WNW and at 3 hrs. of the 25th the centre was just north of the Sandheads. The light vessel '*Fame*' at the Pilot's Ridge station (lat. 20° 51½′, long. 87° 52½′) experienced a south wind of force 11 with terrible sea but no rain. This light vessel had winds of hurricane force from 4 hrs. to 6 hrs. from the same direction. At 8 hrs., the storm centre was about 20 miles to the west-north-west of the Sandheads, the deficiency of pressure at the centre being about ·4″. It crossed the coast just south of Balasore at about 17 hrs. on the 25th, and continued to move in a west-north-westerly direction. Next morning at 8 hrs. it was midway between Angul and Chaibasa and had moved to the north-east of the Central Provinces on the morning of the 27th. On the 28th morning the storm was over Central India East in a much weakened condition and disappeared during the day.

The storm was responsible for widespread rain from Bengal to Gujarat and Rajputana, and the west of the United Provinces, and on the Aravalli hills, the falls being heavy to the south of its track. The following are some of the very heavy falls recorded at individual stations :—

| Division. | Station. | Amount. | In 24 hrs. ending at 8 hrs. on. |
|---|---|---|---|
| Bengal . . . | Narayanganj . . | 8·12 | 27th |
| Orissa . . . | Hukitala . . | 14·55 | 25th |
| | Binka . . . | 11·12 | 26th |
| | Sonepur . . | 7·48 | 25th |
| | Sambalpur . . | 7·89 | 26th |
| | Bijepur . . | 7·42 | 26th |
| Central Provinces . | Lanji . . . | 7·73 | 27th |
| | Tamia . . . | 2·28 | 26th |
| | | 7·64 | 27th |
| | | 4·86 | 28th |
| | Bicchia . . . | 8·62 | 27th |
| | Chhindwara . . | 8·50 | 27th |
| | Sohagpur . . | 6·54 | 27th |
| | | 5·64 | 28th |
| | Pachmarhi . . | 3·64 | 26th |
| | | 7·32 | 27th |
| | | 9·54 | 28th |
| Bhopal . . . | Mohamedgurh . | 4·45 | 27th |
| | | 4·27 | 28th |
| | Nasrullaganj . . | 8·07 | 27th |
| | Doraha . . . | 7·60 | 27th |
| Gwalior . . . | Pachar . . . | 8·00 | 27th |
| | Susnere . . | 7·50 | 27th |
| Kotah . . . | Bakani . . . | 9·45 | 28th |
| Jhalwar . . . | Pachpahar . . | 7·31 | 28th |

The heavy rainfall associated with this storm as well as its predecessor was responsible for floods in parts of the Central Provinces and Gujarat, and for several breaches in the railway lines.

*S. S. Cocanada.*

| Date | Hour. | Position. | Wind. Dir. | Wind. Force. | Remarks. |
|---|---|---|---|---|---|
| 23rd July 1928 | 4 | 17° 04′ 90° 29′. | SW | 5 | Frequent heavy rain squalls with wind force 7. Fresh wind, rough sea heavy SW swell, occasional rain. |
| | 8 | 17° 12′ 90° 15′ | WSW | 6-7 | Fresh gale, hard rain squalls, rough sea, heavy SW swell, ovt. rain, vis. mod. |
| | 12 | 17° 34′ 89° 39′. | SW | 7-8 | Fresh to strong gale, heavy sea and swell, occa ional heay rain squalls. |
| | 16 | 17° 42′ 89° 08′. | SW | 7-8 | Fresh gale, rough sea, heavy WSW swell, overcast, occasional rain, vis. mod. |
| | 20 | 17° 55′ 88° 45′. | WSW | 8 | Fresh to strong gale, high sea and WSW swell, overcast, rain squalls, vis. mod. (var.) |
| | 24 | 18° 05′ 88° 13′. | WSW | 8-9 | Strong gale, high sea and swell, overcast, very heavy rain squalls. |
| 2 th July 1928 | 4 | 18° 18′ 87° 35′. | W/S | 9 | Strong gale, high sea and WSW swe , overcast, cont. rain, ightning vis. var. |
| | 8 | 18° 25′ 86° 55′. | WSW | 8 | Fresh gale, rough sea, heavy swell, overcast, cont. rain, vis. poor, weather moderating. |
| | 12 | 18° 43′ 86° 16′. | SW | 7-8 | Mod. to fresh gale, rough sea, heavy swell, frequent heavy rain, squalls. |
| | 16 | 18° 59′ 85° 37′. | W/S | 7 | Mod. gale, rough sea, heavy WSW swell, fine, clear cloudy, occl. rain. |
| | 20 | 19° 08′ 85° 15′. | WSW | 6 | Strong wind, heavy S'ly swell cloudy, vis. good. |

*S. S. Englestan.*

| Date | Hour. | Position. | Wind. Dir. | Wind. Force. | Remarks. |
|---|---|---|---|---|---|
| 23rd July 1928 | 12 | 18° 04′ 86° 51′. | SW | 5 | Rough sea, fine and clear. |
| | 16 | | WSW | 6 | High rough sea, fine and clear. |
| | 20 | | ,, | 6 | Ditto. |
| | 24 | | ,, | 7 | Ditto. |
| 24th July 1928 | 4 | | ,, | 8 | High sea, fine and clear. |
| | 8 | 17° 21′ 86° 03′. | ,, | 8 | Ditto. |
| | 12 | 17° 13′ 85° 53′. | W/S | 9 | Rough sea, fine and clear var. 79. |
| | 16 | | WSW | 9 | High head sea, heavy rain. |
| | 20 | | ,, | 9 | High head sea, occl. rain. |
| | 24 | | ,, | 9 | Ditto. |

*S. S. Englestan*—contd.

| Date. | Hour. | Position. | Wind. Dir. | Wind. Force. | Remarks. |
|---|---|---|---|---|---|
| 25th July 1928 | 4 | .... | WSW | 7 | Rough sea, occl. rain squalls. |
| | 8 | 16° 36′ 84° 50′. | ,, | 7 | Ditto. |
| | 12 | 16° 29′ 84° 37′. | ,, | 8 | Rough sea, occl. rain var. 97. |
| | 16 | | ,, | 6 | Rough sea, rainy. |
| | 20 | | ,, | 6 | Ditto |
| | 24 | | SSW | 6 | Ditto. |

10. *Depression of the 1st to 5th August 1928.*—Conditions became favourable for the formation of a depression off the north Arakan coast on the 30th July; in this region a depression developed on the next day and was centred near Lat. 21° N, Long. 91° E on the morning of the 1st August. A fairly strong monsoon was blowing into the depression in the south-east quadrant, while to its west there was an indraught of westerly winds from the north-west of the Bay and the north of the Peninsula. *S. S. Warina* bound from Calcutta to Rangoon, noon position 19° 39′ N, 89″ 25′ E, reported fresh to high winds from west or west-south-west with rough or high sea, heavy swell and occasional rain-squalls. *S. S. Arankola* bound north to Calcutta, noon position 17°19′ N, 91° 58′ E, reported strong to high WSW-ly winds, high rough sea and heavy WSW-ly swell throughout the day; in the afternoon there were frequent squalls of gale force. The upper winds at Diamond Harbour were from NW/N up to 1 Km., and from N at 2 Km.

The depression moved a NNW-ly direction and was centred about 40 miles west of Barisal on the morning of the 2nd, when the deficiency of pressure at the centre was 0·2″. *S. S. City of Benares* near the Eastern Channel Light Vessel experienced a high WSW wind with fierce squalls and rain. It gave heavy rain in the region from Satkhira to Saugor Island on the night of 1st, and judging from the rainfall records of the Alipore Observatory most of the rain appears to have fallen after midnight. The heaviest amounts were Alipore, Murari and Chanditala each 6″, Uluberia 6·8,″ Budge Budge 8·7″, Arambagh 8·8″ and Amta 10·5″.

It advanced in a more NW-ly direction during the day and was entering south-east Bihar on the morning of the 3rd. By this time it had weakened considerably, and the defect of pressure at the centre had decreased to ·07″. Widespread rain had fallen in north-east India with locally heavy falls in south Bihar and north Bengal, and it was raining from Assam to east Bihar at 8 hrs. of the 3rd.

By the morning of the 4th the depression had advanced to north-west Bihar and became much less marked. It persisted there in the weakened condition in the next two days and gave very heavy rain in the districts of Champaran, Muzaffarpur and Darbhanga. The district averages were :—

| | 4th | 5th | 6th |
|---|---|---|---|
| Champaran | 0·7″ | 1·8″ | 3·9″ |
| Muzaffarpur | 2·7″ | 3·7″ | 1·4″ |
| Darbhanga | 1·3″ | 1·8″ | 1·9″ |

The heaviest falls were Meachapra 21″ in the 48 hours ending 8 hrs. of the 5th, Samastipur 11″ and Muzaffarpur 8·3″ in the 24 hours ending at 8 hrs. of the 5th.

11. *Depression of the 24th August to 1st September 1928.*—Unsettled conditions appeared in the north of the Bay on the 23rd and developed into a shallow depression which was centred near Lat. 18° N, Long. 89° E on the morning of the 24th. It moved slowly west and lay with central area near Lat. 18° N, Long. 88° E at 8 hrs. next day. The upper winds at Akyab and Diamond Harbour on these days indicated a cyclonic circulation round the depression up to a height of at least 3 Kms. The depression continued to move westwards and crossed the Ganjam coast on the 26th. The weather map of that morning showed a line of discontinuity in the surface air currents along Lat. 19° N, from the Ganjam to the Arakan coast along a line roughly from Gopalpur to Kyaukpyu. The upper winds at Port Blair were from WSW up to 1 Km. and from due W from 2 to 4 Kms., while at Akyab and Diamond Harbour winds up to 5 Kms. were respectively from SSE-ly and SE-ly directions.

After crossing the coast the depression advanced in a northwesterly direction over the Central Provinces and lay over Central India West on the 29th. During this period of its existence it induced a strong indraught of the Arabian Sea monsoon and caused widespread and locally heavy rain in the north of the Peninsula and the central parts of the country. The heavy rain in the Konkan is illustrated by the district averages of rainfall given below :—

| | August 1928. | | |
|---|---|---|---|
| | 27th. | 28th. | 29th. |
| Savantvadi . . . . . | 5·2″ | 2·5″ | 2·1″ |
| Ratnagiri . . . . . | 3·4″ | 2·3″ | 2·6″ |
| Kolaba . . . . . | 3·8″ | 6·9″ | 4·4″ |
| Thana . . . . . | 1·4″ | 5·3″ | 4·3″ |

While passing over Central India West on the 29th the depression increased in intensity and was 0·23″ deep on the morning of the 30th when it was entering east Rajputana. It intensified further and the deficiency of pressure in the central region, which lay over east Rajputana on the morning of the 31st, was 0·26″. The depression was responsible for very heavy rain over most of Rajputana during the 48 hours ending at 8 A.M. on the 31st, the most noteworthy amounts being Sojat (Jodhpur State) 11·7″, Ganga Nagar (Bikaner) 10·8″, Danpur (Banswara) 10·3″, Bilara (Jodhpur) 10·3″ and Merta (Jodhpur) 9·9″.

From east Rajputana, the depression advanced rapidly northwards to the Punjab and was centred with almost undiminished intensity between Khushab and Lahore on the morning of the 1st September. It had caused very heavy rain in north and central Punjab by 8 hrs. of the 1st, the district averages being Ferozepore 2·5″, Lahore 4·9″, Amritsar 2·2″, Gurdaspur 1·3″, Sialkot 3·6″, Gujranwala 5·6″, Sheikhupura 3·7″, Gujrat 4·7″, Shahpur 1·5″, Jhelum 3·3″, Rawalpindi 4·8″, Montgomery 6·8″, and Lyallpur 2·8″.

The depression broke up in the hills during the day after giving further heavy rain in the east Punjab hills and the adjacent plains, Kangra district receiving an average of 2·1″, and Gurdaspur 2·3″.

As reported in the newspapers the heavy rain in the Punjab and Kashmir caused serious floods in the Jhelum, Chenab and the Ravi rivers and several breaches on the North-Western Railway. The depression was also reported to have been responsible for floods in the Godavari resulting in washaways in a number of places on the newly opened section of the Kazipet-Bellarshah Railway and also for floods in parts of west Central India and Rajputana.

12. *Depression of 31st August to 4th September 1928.*—A shallow depression appeared over southwest Bengal on the 31st August and gave locally heavy rain in Orissa and southwest Bengal. It moved slightly northwestwards during the day and lay on the morning of the 1st September over Chota Nagpur, where some heavy falls of rain occurred. Continuing on its northwest track it reached the east of the United Provinces on the morning of the 2nd ; there it caused widespread rain in the next two days and disappeared finally on the 4th. The strong monsoon which prevailed in the Bay prior to its formation is indicated by the heavy weather experienced by *S. S. Angora* in her voyage from Rangoon to Calcutta where she arrived on the 31st August, 24 hours later than scheduled time.

13. *Depression of 2nd to 5th September 1928.*—Unsettled conditions moved into the Bay from the east on the 2nd September, and passed across the north of the Bay on the 3rd and 4th in the form of an ill-defined depression, which lay over Orissa on the morning of the 5th and disappeared in the course of the day. The rainfall associated with it was locally heavy on the Orissa-Ganjam coast.

14. *Depression of 11th to 20th September 1928.*—The monsoon trough of low pressure projected into the north of the Bay on the 8th and gave rise to unsettled conditions there. These developed into a shallow depression which lay over the head of the Bay on the morning of the 12th. During the next three days, the depression slowly moved southwards without any appreciable development, and lay off the north Madras coast on the morning of the 15th. The upper winds at Diamond Harbour and Akyab were very weak on these days but still indicated a feeble circulation round the depression. Simultaneously with a strengthening of the Arabian Sea monsoon the depression began to move westwards on the 15th and lay over the southeast of the Central Provinces next day, and was entering the western division of those provinces on the 17th. It travelled slowly northwards over the province in the next two days and caused widespread and locally heavy rainfall in the divisions lying to its south and west, *viz.*, Hyderabad, the Bombay Presidency excluding Sind, Central India West, the southwest of the Central Provinces and Malabar. The depression passed in a very weakened condition into the east United Provinces on the 20th and disappeared.

Even after its disappearance it left a type of pressure distribution in northern India, favourable for the activity of the monsoon in Gujarat and the Central Provinces, where accordingly widespread rainfall continued in the next two days and later extended into east Rajputana.

15. *Depression of 22nd to 23rd September 1928.*—Conditions became unsettled at the head of the Bay on the 21st, and a small depression appeared to the east of the Sandheads on the morning of the 22nd. Squally and rainy weather was reported from its immediate neighbourhood, as well as from

off the north Madras and Orissa coasts. The depression moved to the northwest angle of the Bay where it disappeared on the 23rd. The associated rainfall was generally light to moderate.

16. *Storm of 1st to 6th October 1928.*—Unsettled conditions, probably coming from the east, appeared in the north of the Andaman Sea on the 30th September; in the next twentyfour hours they developed into a depression the centre of which lay to the southwest of Diamond Island on the morning of the 1st October. The depression advanced in a northwesterly direction across the Bay and was centred near Lat. 18° N, Long. 89° E, at 8 hrs. of the 2nd. *S.S. City of Dunkirk*, bound from Rangoon to Calcutta, was steaming almost parallel to its path. At a distance of about hundred miles from the centre she reported only moderate easterly breeze, and moderate to rough sea and swell. *S. S. Chilka*, bound from Gopalpur to Rangoon, appears to have been closest to the central area of the depression at 20 hrs. of the 1st, when she was near Lat. 17°-04′ N, Long. 90°-30′ E; she reported squally weather from noon to midnight, with moderate sea and swell. The pilot balloon observations at Akyab on the 2nd morning indicated a solid current from southeast up to 3 km. (the highest point reached by the balloon), at Diamond Harbour, Nimbus cloud and the 0·5 km. wind were from the east. Flights at 13 hrs. on the 2nd showed that at Akyab the southeasterly stream was prevalent, at least up to 5 km., and that winds were from easterly directions at Diamond Harbour upto 3 km.

No steamer was close enough to the centre either on the 1st or 2nd to indicate when the depression developed into a storm; but that it did develop into a storm of small extent during its passage across the Bay is proved by the observations at Puri. The centre of the storm crossed the coast just to the north of this station at about 3 hrs. on the 3rd. The observations at Puri may be summarised thus :—

| Date. | Time hrs. | Bar. | Wind. | | Rain since last obsn. inches. | Remarks. |
|---|---|---|---|---|---|---|
| | | | Dir. | Force. | | |
| 2nd | 19 | 29·63″ (—0·10) | WNW | 2 | 0·2 | Overcast: drizzling. |
| 3rd | 3 | 29·38″ (—0·34) | N | 9 | 9·7 | Overcast raining. |
| " | 8 | 29·59″ (—0·19) | SW | 6 | 3·0 | Overcast squally. |
| " | 19 | 29·66 (—0·06) | SSW | 2 | 0 | Cloudy. |

The barograph recorded a steady fall of pressure from 21 hrs. of the 2nd (reading 29·67″) to about 2-30 on the 3rd, when the pressure was 29·38; thereafter there was a temporary rise to 29·44″ at 3-30 followed by a fall to 29·38″ just after 4 hrs.; after this the pressure rose steadily a reading of 29·66″ being recorded at 10 hrs.

The following description of the weather experienced at Puri is furnished by the observer there :—

"On the 2nd it was cloudy whole day with occasional passing drizzles with varying winds, and at 6-30 P.M. the rain started with very light winds from NNW. It rained heavily and continuously till 2-30 A.M. of the 3rd with constant lightning flashes. From midnight the NNW wind started blowing harder and at 2-30 A.M. when I came to office to take readings the wind changed to pure NW and began blowing furiously in a gale force which made me quite unable to visit the anemometer with terrific thunder and lightning. The fury of the wind lasted till 3-40 A.M. and became moderate afterwards, but rain continued rather moderately till morning 8 A.M. The NW winds continued till morning 6 A.M.; when it changed to W and shortly afterwards it changed again to WSW. There was no lull at all in the middle.

"The fury of the wind was so great that it caused considerable damage in the town. Branches of trees were broken enormously and all the roads were more or less washed away. The thatched houses, no doubt, fared very badly, roofs blown away and walls collapsed, but some of the pucca buildings also experienced a severe shock. The collapse of one building resulted in the death of one man and injury to several. Several pucca compound walls tumbled down and petty damages to houses and gardens were innumerable. I understand the storm caused some damage to the Railway station at Sakhigopal about 12 miles off Puri."

The storm appears to have been travelling at about 14 miles an hour during its course across the Bay; it slowed down considerably on reaching the laud and appears to have covered about 30 miles in the period from 3 hrs. to 8 hrs. of the 3rd, when it lay between Puri and Cuttack. Winds of gale force and over were experienced at Puri for about an hour and a quarter, and most probably the centre of the storm was never nearer than about 10 miles from Puri and the diameter of the storm was probably about 40 miles.

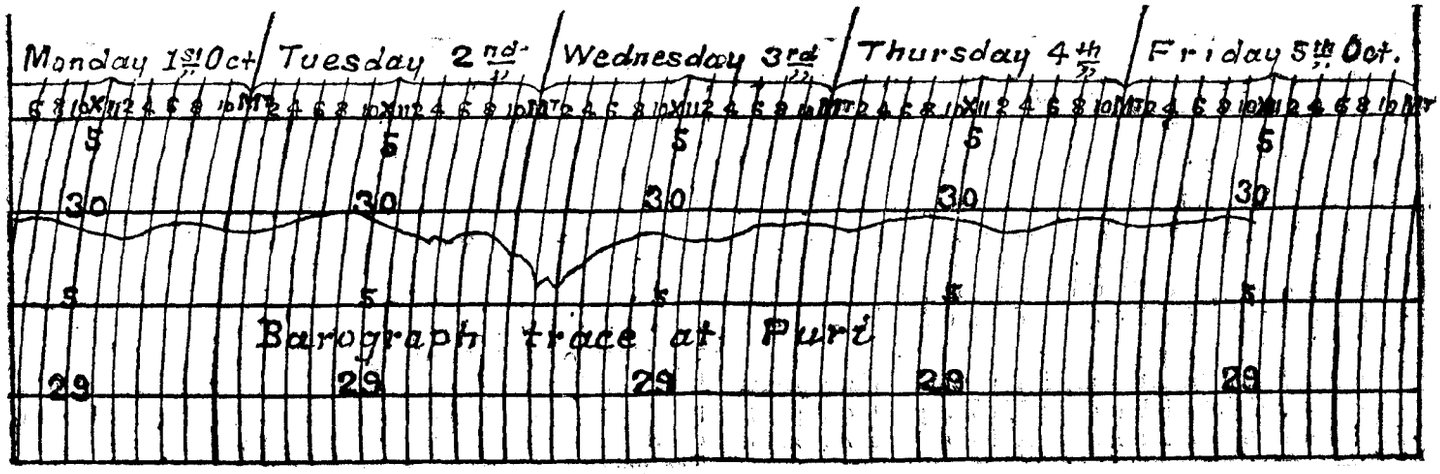



FIG.

The cause of the double minimum at the centre is not clear. Several causes may produce such temporary rise as occurred between 2-30 and 3-30 :—

(*a*) temporary movement of centre eastward away from Puri.

(*b*) excessive rain, which however fell just before the pressure rise in this case.

(*c*) a weakening of the storm on its approach to the coast, the weakening process later becoming suspended or more slow when the storm centre was nearest Puri, *i.e.*, about 4 hrs.

(*d*) a double centre, an unlikely cause in this case, inasmuch as changes in wind direction do not support this hypothesis.

The storm continued to advance in a northwesterly direction on the 3rd and lay as a depression over the east of the Central Provinces on the 4th. In the next two days it curved to the north and northeast and lay over the northeast of the Central Provinces and the adjacent districts of Chota Nagpur on the morning of the 6th, and disappeared during the day. The rainfall associated with it was widespread and locally heavy on the north Madras coast, in north Hyderabad, the Central Provinces, Bihar and Orissa and the east United Provinces.

17. *Depression of 19th to 22nd October 1928.*—In connection with the usual setting in of the northeast monsoon in south Madras a low pressure appeared in the south of the Bay on the 17th and caused an increase of rain on the south Coromandel coast. It moved in a northwesterly direction and developed into a depression which lay to the northeast of Ceylon on the 19th. Rainfall on this day was heavy on the coast from Nellore to Madras, and was moderately so to the south of Madras and on the north Madras coast.

On the morning of the 20th the depression lay off the south Coromandel coast; the monsoon current from the Bay to the east of the depression was apparently being directed towards the Orissa and north Madras coasts, and heavy rain fell during the day on the whole coast from Madras to Saugor Island.

Next morning the depression lay off Madras, and the rain producing current was then bearing on the coast between Masulipatam and Puri. The pressure distribution indicated a strong gradient between Vizagapatam and Cocanada and in this region there resulted a very heavy downpour, causing severe floods in the north Godavari district and the neighbouring Talukas of the Vizagapatam district.

The depression crossed the coast near Madras on the 21st evening. With the crossing of the depression into the Peninsula the monsoon current extended into Hyderabad, the Central Provinces, the United Provinces and Rajputana, where widespread rainfall continued between the 21st and 23rd.

The depression caused some heavy rain in Vizagapatam (Littoral) and Godavari districts and in Vizagapatam Agency. The following stations recorded 10 inches or more on the 22nd :—

| | |
|---|---|
| Vizianagram | 11″ |
| Srungavarapukota | 10″ |
| Chodavaram | 13″ |
| Bimlipatam | 10″ |
| Waltair | 10″ |
| Balacheruvu | 11″ (*a*) and (9″on 23rd) |
| Anakapalli | 14″ (*a*) |
| Polavaram | 12″ |
| Gunupur | 11″ |
| Tuni | 10″ |

(*a*) At these stations the instrument was submerged after recording so far.

A brief summary of the damage caused by the floods in Vizagapatam and Godavari districts is given below. It resulted in very serious breaches in the railways and roads and complete breakdown of telegraphic communication.

For a stretch of a hundred miles of the northeast section of the M. & S. M. Railway including the Cocanada-Samalkot branch there was scarcely a yard of permanent way which had escaped from the raging torrents. Miles of track had been completely obliterated and all that remained to show where it once stood was the debris of bridges and culverts and some stretches of twisted rails and corrugated sheeting. An engine containing 2 railway officials and 2 others fell into a flooded river on the collapse of a bridge and the inmates lost their lives. Another bridge, 120 feet long, near Rajupalam was carried away, and most of the bridges and culverts along the line under water were swept away or badly damaged. A bridge, 3 miles from Samalkot station, was completely washed away and the line sank 30 feet below water level. At Annavaram a goods train was derailed. Gollaprabu station was completely under water. Many other stations in the region disappeared and passenger trains between stations were stranded.

The most of the distressed area appeared like a vast inland sea. The whole of Anakapalli Municipality remained submerged under 5 feet of water for a considerable time and the loss there was estimated at Rs. 30,000. In addition to this currency notes worth two lakhs and other records in the Sub-Treasury were damaged. Heavy damage to Government records and buildings and private property at various other places also occurred. Many low lying hamlets in the tract were inundated and the inhabitants had to take refuge on trees and house tops. 36 lives were reported to be lost and thousands of men were rendered homeless. Loss of cattle was heavy.

The extent of the damage was so great that it recalled the great inundation of 1924 when very nearly three-fourths of the Presidency was swept by floods, in connection with which a conservative estimate indicated the damage to have been of the order of three crores of rupees.

18. *Depression of 22nd to 28th October in the Arabian Sea.*—Following the passage inland of the Bay depression near Madras on the evening of the 21st, conditions became unsettled in the southeast Arabian Sea, and by the next morning a depression had formed with centre near Lat. 13° N and Long. 72° E. Minicoy had a rough sea and Aminidevi a pressure deficiency of ·115″ at 8 hrs. on the 22nd, the latter station recording 2″ of rain on the 21st and 4″ on the 22nd. The upper winds up to 3 Kms. at Mangalore, which had

been between NE and NNW on the 21st morning, changed to S-ly by the afternoon of the 22nd. The depression moved in a northwesterly direction and on the morning of the 23rd was centred near Lat. 14½° N and Long. 70° E. Afternoon flights on the 23rd showed that the upper winds over Poona, which were light NW-ly on the previous afternoon, were replaced by a solid SE-ly current up to 5 Kms. and those over Ahmedabad and Karachi began to be affected. The depression advanced in the same direction and was centred near Lat. 17° N and Long. 67½° E at 8 hrs. on the 24th. It continued its course till the next morning when it began to recurve towards the Sind-Kathiawar coast, where it disappeared by the following day. Several ships in the northeast Arabian Sea reported squally weather on the 25th and 26th. Although the depression was shallow, there was a marked circulation in the free air and widespread rain fell along the west coast and in Gujarat, Sind and Rajputana during its existence.

19. *Storm of 13th to 19th November 1928.*—There was a spell of fairly vigorous northeast monsoon from the 3rd to the 12th which caused widespread rainfall in the south of the Peninsula and Ceylon. On the morning of the 13th winds up to 1 Km. above sea level at Port Blair showed a strong easterly current blowing into the south of the Bay. This was in marked contrast with conditions on previous days. Observations of some steamers on this day as well those of Sabang in Sumatra indicate that a depression was forming with central region near Lat. 9° Long. 91°. On the morning of the 14th winds at Port Blair were between SSE and south up to 5 Kms., while *S. S. Singu* had near Lat. 9¼°, Long. 86°, a moderate N/E breeze with moderate sea and heavy swell. During the day the unsettled conditions moved in a northwesterly direction without appreciable development.

The further progress of the depression is indicated by the weather experienced by *S. S. Jalarashmi* (Madras to Rangoon; noon position Lat. 13·39°, Long. 85·54°). She experienced at 8 hrs. on the 15th a NW wind of force 7/8 rough sea, heavy rain, and strong squalls: her barometer was lowest at 10 hrs., having fallen ·04″ since 8 hrs. By 12 hrs. the wind encountered by her backed to SW/W the force remaining unchanged. Later on, her winds continued to back and also decreased in force. *S. S. Humayun* (Calcutta to Bombay, noon position, Lat. 13·52°, Long. 85·03°) had at 8 hrs. a north wind of force 6/7, high NE sea and moderate swell, and at 12 hrs. a WNW wind of force 8, heavy sea and frequent rain squalls. The weather experienced by these steamers which were very near the central region show that the depression had apparently intensified into a storm, that the centre at 8 hrs. on the 15th was near Lat. 14°, Long. 85½° and that the pressure deficiency at the centre was about ·25″.

During the day, *S. S. Mahout* (Colombo to Calcutta; noon position Lat. 16·38°, Long. 86·17°) came into the area of stormy weather: extracts from her log are given at the end of this account. She had an easterly wind from midnight to 19 hrs., of force 6 between 8 and 11 hrs., 7 between 12 and 16 hrs., 8 between 17 and 18 hrs. and 9 at 19 hrs. Thereafter she experienced SE wind of force 9 till midnight and of force 8 up to 3 hrs. of the 16th. She hove to at 17 hrs. 13 mins. near Lat. 15·44°, Long. 85·53° and resumed her course only at midnight. Her barometer was lowest at 18 hrs. on the 15th, having fallen ·3″ since 8 hrs. The storm centre was at 18 hrs. near Lat. 15°, Long. 85½° and since the morning of the day the storm had been moving in a nearly northerly direction.

On the morning of the 16th, Vizagapatam had at 0·5 Km. above ground a NNE wind with a velocity of 22 m. p. s. and although there are no observations from steamers in the immediate vicinity of the storm centre, it was most probably near Lat. 17°, Long 85½°.

The further progresss of the storm is indicated by the radio weather messages from *S. S. Tairea.* The following are extracts from these:—

| Date. | Hour. | Position. Lat. | Position. Long. | Wind. Dir. | Wind. Force. | Sea. | Swell. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| 16th | 13 | | 85½ | NE | 4/5 | | | |
| | 16 | 19½ | 85½ | NE | 4/5 | Moderate | Moderate S-ly. | Rain. |
| | 19 | | | NE | 8/9 | | | |
| | 22 | 18½ | 86½ | NE | 8/9 | Rough | Inconspicuous. | Squally. |
| 17th | 0 | | | E | 8/9 | | | |
| | 3 | 18½ | 87½ | ESE | 4/5 | Moderate | S1/SE. | Weather getting better. |
| | 4 | | | SE | 4/5 | | | |
| | 7 | 18½ | 88½ | SSE | 1/2 | Smooth or Slight. | S1/Confused. | Do. |

These show that the storm was slowing down and its track was recurving to the northeast. A noteworthy feature of the conditions associated with the storm at this stage was that on the afternoon of the 16th the wind at the height of 1 Km. above ground at Vizagapatam attained a velocity of 37 m. p. s. and was from NNE while at the level of 0·5 Km. the velocity was only 17 m. p. s.

On the morning of the 17th the storm was centred near Lat. 18°, Long. 86°, *S. S. Jalaputra* (Calcutta to Bombay, noon position Lat. 18·16°, Long. 84·36°) had a northeast wind of force 8 with high sea and squally weather. She had similar weather up to 12 hrs., but at 16 hrs. she encountered only a gentle NNW wind and moderate sea. By the morning of the 18th the storm had weakened into a depression, the central region lay near Lat. 18½°, Long. 87°. It weakened further and was a shallow "Low" with central region near Lat. 19°, Long. 88½° on the morning of the 19th. Later this "Low" drifted eastwards, and lay off the Arakan Coast on the morning of the 20th and had disappeared over inland Burma, the next day.

*S. S. Mahout.*

| Date. | Hour. | Position. | Wind. Dir. | Wind. Force. | Remarks. |
|---|---|---|---|---|---|
| November 15th | 1 | | E/S | 4 | |
| | 2 | | ,, | 4 | |
| | 3 | | ,, | 5 | |
| | 4 | | ,, | 5 | Fresh wind, mod. sea, slight SE swell. Cloudy, fine and clear. |
| | 5 | | East | 5 | |
| | 6 | | ,, | 5 | Lat. by stellar observation 17° 40′ N, Long. D R. 86° 45′ E. |
| | 7 | | ,, | 5 | |

*S. S. Mahout*—contd.

| Date. | Hour. | Position. | Wind. Dir. | Wind. Force. | Remarks. |
|---|---|---|---|---|---|
| November 15th | 8 | | E/N | 6 | Fresh wind, mod. sea and swell, overcast and cloudy weather. |
| | 9 | | ,, | 6 | |
| | 10 | | ,, | 6 | |
| | 11 | | ,, | 6 | |
| | 12 | 16° 38 N . 86° 17 E . | ,, | 7 | Strong increasing wind with rough sea and heavy ESE swell Cloudy and overcast with occl. rain squalls. |
| | 13 | | ,, | 7 | |
| | 14 | | ,, | 7 | |
| | 15 | | ENE | 7 | |
| | 16 | | ,, | 7 | Strong increasing wind with rough sea and heavy E-ly swell, Overcast and Cloudy with frequent heavy squalls and rain. Vessel labouring heavily and shipping water fore and aft. |
| | 17 | | E¼N | 8 | Stand by engines 5·12 P.M. slow ahead. 5·13 P.M. Hove to on starboard Tack heading E/N. Wind E¼N. |
| | 18 | | E/S | 8 | |
| | 19 | | E/S¼S | 9 | |
| | 20 | | SE/E¼E | 9 | Vessel hove to on starboard, Tack heading E/N wind E S¼S moderate gale with heavy confused sea and swell |
| | 21 | | SE¼E | 9 | |
| | 22 | | SE¼E | 9 | a/c E. S. E. wind gradually veering to southward. Heavy conf. sea. |
| | 23 | | SE½S | 9 | |
| | 24 | | SE/S¼S | 9 | Moderate gale at SE with rough sea and confused swell. Ovt. and cloudy with frequent force squalls and heavy rain. Steamer labouring heavily and Shipping water fore and aft.. a/c S/W and increased to "Half speed." |

20. *Storm of 22nd to 25th December 1928.*—In the second week of December the northeast monsoon was weak so far as the rainfall associated with it was concerned. From the 16th to 18th rainy and squally weather was reported by several steamers between Ceylon and the Andamans. On the 19th rough seas were reported from off the east and southeast coast of Ceylon. On the 20th the upper winds at Port Blair shewed a tendency to form a solid current from the east. Such a current was blowing at 15 to 20 metres per second up to 2 Kms. on the 21st. The unsettled conditions about midway between the Andamans and Ceylon were thus developing into a depression.

On the next day, *S. S. Begum*, bound to Rangoon, noon position Lat. 9°, Long. 86·03° and *S. S. Warora* also bound to Rangoon, noon position, Lat. 8·57°, Long 86·30°, entered the area under the influence of the "low." These steamers had freash to strong winds at 8 hrs. from NW and WSW respectively. During the course of the day, their winds showed backing. On the other hand, both the surface and upper winds at Port Blair veered to SE. A depression had thus formed with centre at 8 hrs. near Lat. 10° Long. 87½°. It was moving in a northnorthwesterly direction. The next morning it had developed into a storm with centre near Lat. 11° Long. 86½° where the deficiency of pressure was probably at least ¼". The upper winds at Port Blair up to a height of 4 Kms. were at this stage between ESE and SSE.

As the storm advanced further it changed to nearly westerly course. At 8 hrs. on the 24th the centre was near Lat. 10½°, Long. 83½°. *S. S. Nankin* had near Lat. 11½°, Long. 83½° moderate ESE wind with moderate sea and moderate easterly swell and heavy rain. *S. S. Custodian*, bound to Calcutta (noon position Lat. 8·06°, Long. 83·01°) experienced NW wind of force 5/6 between 4 hrs. to 16 hrs., a WNW wind of force 2/4 at 20 hrs., and a SE wind of force 4 at midnight and of force 6 at 4 and 8 hrs. of the 25th and later an easterly wind of force 6 at 12 hrs. and later of force 5. *S. S. Rahmani*, bound to Calcutta from Bombay, had a NW wind of force 4 or 3/4 at 8 and 12 hrs. of the 24th, a W/N wind of force 2/3 at 16 hrs. and later an ESE wind of force 4 to 6. An *en clair* radio message from *S. S. Marcapolo* stated that she had near Lat. 10·31°, Long. 83·38° a strong wind from NW to SE with high to moderate sea. This steamer apparently passed near the centre and the absence of any report of any violent winds in the weather message, taken with weather experienced by the steamers Nankin, Custodian and Rahmani, indicates that there were no violent winds in the neighbourhood of the centre.

There was, however, a belt of gales in the northern quadrant at a distance of 200 to 250 miles from the centre *S. S. Nalgora*, bound to Calcutta (noon position Lat. 14·18° Long. 85·10°) had, according to a radio weather message from her an east wind of force 8 or 9 at 7 hrs. Likewise *S. S. Bovenkerk* bound to Rangoon from Madras, noon position Lat. 13·14°, Long. 83·26°, had a wind of force 8 from ENE at 8 hrs. and from E at 12 hrs.

The storm later weakened into a depression and by the morning of the 25th it had become merged in a trough of low pressure extending from off Negapatam to the eastsoutheast of Ceylon. This trough then persisted during that day and the next 2 days and later receded from the Indian area.

This storm was responsible for a revival of vigorous northeast monsoon conditions between the 24th and 29th. Widespread and locally heavy rain fell in the districts of Chingleput, north and south Arcots, Tanjore, Trichinopoly, Madura, Ramnad, Tinnevelly, Salem, Coimbatore and in some districts of Travancore State.

# WESTERN DISTURBANCES.

The following is a list of the western disturbances which affected the weather in northern India during the year with the dates on which they did so and brief notes on the precipitation that they produced :—

| | | |
|---|---|---|
| | *January.* | |
| 1 | 3—4 . . | No appreciable rain. |
| 2 | 6—7 . . | Local rain in Baluchistan and the extreme north. |
| 3 | 10—13 . . | Local rain in Baluchistan on the 10th and in Kashmir on the 12th and 13th. |
| 4 | 17—20 . . | Widespread rain or snow along and near the frontier and the western Himalayas on the 18th and 19th and light local rain in north Bengal and Assam on the 20th. |
| 5 | 23—25 . . | Nearly general rain in north Baluchistan, the North-West Frontier Province and the west Punjab on the 23rd, and extensive rain along the Himalayas and in the submontane region extending from the frontier to Assam with local rain in Bengal, Bihar and Chota Nagpur between the 23rd and 25th. |
| 6 | 26—27 . . | Extensive rain or snow along the western Himalayas with local rain in the plains of the Punjab and the United Provinces on the 26th and 27th and nearly general rain in Bihar on the 27th. |
| 7 | 28—29 . . | Nearly general rain in Kashmir with a few falls in the north and east Punjab and local rain on the Punjab-Kumaon hills. |
| 8 | Jan. 31—Feb. 4 . | Local rain along the western Himalayas on the 1st and extensive rain with locally heavy falls over the region extending from the United Provinces to the south of the Peninsula between the 2nd and 4th. |
| | *February.* | |
| 9 | 5—7 . . | Local rain and snow in the North-West Frontier Province and along the western Himalayas and local rain in the plains of the United Provinces. |
| 10 | 9—14 . . | Nearly general rain along the frontier from Baluchistan to Kashmir between the 9th and 11th, in the plains of the Punjab and the United Provinces on the 12th and 13th and in Bihar and north Bengal on the 14th. |
| 11 | 19—22 . . | Local rain in Kashmir on the 19th and nearly general rain in the east Central Provinces on the 22nd. |
| 12 | 26—27 . . | No precipitation. |
| 13 | 29th Feb.—6 Mar. | Local rain or snow in the extreme north between the 1st and 3rd and along the western Himalayas on the 4th and in Assam between the 1st and 5th. The disturbance developed into a storm over the Punjab and caused widespread dust-storms in northwest India on the 3rd and 4th. |
| | *March.* | |
| 14 | 8—9 . . | Nearly general rain or snow in Baluchistan on the 8th and in the extreme north on the 9th. |
| 15 | 12—14 . . | Local rain along the frontier and a few falls in Kashmir. |
| 16 | 16—18 . . | No appreciable precipitation. |
| 17 | 21—30 . . | Local rain in the extreme north between the 22nd and 25th and along the western Himalayas between the 26th and 30th with extensive rain over the region extending from the frontier to the west United Provinces on the 28th. |
| | *April.* | |
| 18 | 3—9 . . | Nearly general rain or snow in Kashmir and on the Punjab-Kumaon hills between the 5th and 7th and numerous duststorms over northwest India on the 7th. A low appeared over Central India East and caused widespread rain with hail and thunderstorms in Bengal and Assam on the 6th and 9th, in the whole of northeast India on the 7th and over the region extending from the Southeast Punjab to Orissa on the 8th. |
| 19 | 10—15 . . | No precipitation in northwest India. A low pressure area appeared over the central parts of the country and caused widespread rain in south Bengal on the 12th and scattered falls over the region extending from the north Madras coast to Assam between the 13th and 15th with local rain in Upper Burma on the last day. |
| 20 | 14—20 . . | Widespread rain with hail and thunderstorms along the western Himalayas and local rain along the frontier and in the plains of the Punjab between the 14th and 19th. Also widespread rain in Bengal and Assam between the 16th and 20th. |
| 21 | 23—25 . . | A few falls in the extreme north and on the Punjab hills and numerous duststorms in the Punjab. |
| 22 | 27—29 . . | A few falls in Kashmir on the 27th and 28th and local rain along the western Himalayas on the 29th. |
| | *May.* | |
| 23 | 2—7 . . | A few light falls along and near the frontier hills. |
| 24 | 10—12 . . | Local rain along the frontier and the western Himalayas and a few falls in the Punjab plains. |
| 25 | 22—24 . . | A few falls in Kashmir. |
| 26 | 28—31 . . | Light local rain in Kashmir and a few falls on the Punjab-Kumaon hills. |

| | | |
|---|---|---|
| | *June.* | |
| 27 | 3—9 . . | Local rain along the frontier and the Punjab-Kumaon hills and in the plains of the Punjab. |
| 28 | 10—15 . . | Local rain in Kashmir on the 10th and over the region extending from the frontier to the United Provinces between the 11th and 15th; also numerous dust-storms in the Punjab and the North-West Frontier Province. |
| 29 | 19—26 . . | A few falls along the frontier and the Western Himalayas. |
| | *July—September* . | Ill-definied and not recognisable as definite western disturbances. |
| | *October.* | |
| 30 | 29—30 . . | A few light falls along the frontier. |
| | *November.* | |
| 31 | 11—14 . . | Widespread rain along the frontier and in Kashmir and the west Punjab on the 12th and along and near the western Himalayas on the 13th and 14th. |
| 32 | 21—22 . . | No precipitation. |
| | *November*—contd. | |
| 33 | Nov. 25—Dec. 4 . | Widespread rain over the region extending from Sind and Balushistan to Kashmir and extensive rain from the North-West Frontier Province and Kashmir to the West United Provinces and in Gujarat and Rajputana between the 27th and 3rd with local falls in the central parts of the country between the 30th and 4th. |
| | *December.* | |
| 34 | 4—9 . . | Local rain or snow in Balushistan and the extreme north between the 4th and 6th. Also widespread rain with hail and thunderstorms over the region extending from the north Bombay Deccan to the east United Provinces between the 5th and 7th with a few falls in Chota Nagpur on the 8th and in Assam on the 9th. |
| 35 | 11—14 . . | Light rain or snow in Baluchistan, the North-West Frontier Province and Kashmir. |
| 36 | 26—29 . . | Widespread rain or snow in the extreme north and along the Punjab-Kumaon hills and the adjoining plains with extensive duststorms in northwest India between the 27th and 29th. |
| 37 | 29—31 . . | Light snow in north Baluchistan on the 29th and widespread rain along and near the western Himalayas with local falls in the east United Provinces, Bihar and Chota Nagpur on the 30th and 31st. |

## LOCAL STORMS.

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

*January 27th.*—A severe storm occurred in the Bank sub-division of the Bhagalpur district. It uprooted many trees and blew away the roofs of many houses. The rain and hailstorms, accompanying the storm, did a lot of damage to the rabi crops.

*February 5th.*—A sudden hailstorm, accompanied by strong winds and followed by heavy rains, raged for half an hour at Jamner, a taluka town in the East Khandesh district. Many trees were uprooted. It caused great damage to the mango and orange trees.

*February 7th.*—A severe hailstorm visited Allahabad at 10-30 P.M. Hailstones almost the size of golf balls fell for half an hour. The fall was so heavy that hailstones were found on the ground even on the following morning.

*February, first fortnight.*—There were frequent snowstorms in Baluchistan during the first week. The temperature in Quetta fell down to 24° F and six soldiers died of cold. During the second week heavy rain and snow fell on the northwest frontier and, as a result, the railway lines were breached at several places. In Peshawar city a number of houses collapsed and three causalties were reported.

*April 5th.*—Associated with disturbed weather in the extreme north, a heavy hailstorm occurred in the Torsappor Hills of the Kohat Pass and as a result of it four persons were reported to have been killed, while no news could be had of two others. The storm also killed fifty cattle and did some damage to crops.

*April 7th.*—A severe hailstorm, lasting for several hours, passed over Sylhet and caused many houses to collapse. Fortunately there was no loss of life.

*April 10th.*—A severe storm, with rain falling heavily accompanied by vivid flashes of lightning and loud peals of thunder, suddenly burst near Kottayam, in North Travancore. A flash of lightning struck a church and the whole congregation assembled there for evening prayer are reported to have fallen down. It was found on examination that five men were dead and more than thirty were injured, the latter complaining of severe burns. The church was practically wrecked, all the walls being cracked.

*April 17th.*—A violent storm passed over Lalmonirhat (Rangpur district) at about 11-30 P.M. It lasted only for about a quarter of an hour but during this period several houses were damaged and trees blown down.

*April 18th.*—A violent hailstorm occurred over Krishnagar at abour 3-30 P.M. Hundreds of huts were blown away and some pucca buildings badly damaged. One person was killed and two were injured by the fall of a house.

On the same afternoon a storm passed over Gopalgunj (Faridpur District), doing considerable damage to property.

*April 16th—18th.*—A severe duststorm occurred over upper Sind on the 16th, lasting the whole day. In Pans Akil the roofs of cottages were carried away. Sukkur was enveloped in complete darkness for several hours and several trees were uprooted and most of the gardens and orchards were seriously damaged. The electric supply in Sukkur

failed several times during the storm. A fire also broke out but was put out before it could do much damage.

On the evening of the 18th a violent duststorm passed over Hyderabad (Sind). It lasted for about fifteen minutes, but in that time it caused great damage to fruit trees.

*April 24th.*—A hailstorm, accompanied by thunder and lightning, visited the village of Nungavaram in Trichinopoly and uprooted hundreds of trees. The loss to plantain cultivators alone was estimated at Rs. 25,000. A number of dwellings also suffered damage.

*May 2nd.*—At 7 P.M. a storm of short duration broke over Calcutta. Winds of gale force carrying clouds of dust were followed by a heavy downpour accompanied by vivid lightning discharges. The corrugated iron sheet roof of a small workshop was blown away to a distance of over fifty yards, and many telephone lines were damaged.

*May 6th.*—At 3 P.M. a storm blew over Calcutta from the south and most of the 4″ of rain recorded fell within the short period of 40 minutes, the intensity of rainfall beating all previous records at Alipore. The streets were flooded and great inconvenience was felt by the people, but no appreciable damage was caused. The storm was noteworthy in so far as storms of this type are very unusual in the month of May.

*May 13th.*—Associated with a depression in the Bay of Bengal, a severe storm occurred over Rangoon in the afternoon, and during the two hours of its duration caused several deaths and considerable damage. Numerous trees were uprooted and the roofs of several buildings were blown off, while on the river many sampans were capsized and several of the occupants drowned. Streets were blocked with bricks and branches of trees. Several persons were injured by falling masonry and some damage was caused to shipping in the harbour.

*May 15th.*—A violent storm burst over Serajganj at 4-30 P.M. The air was full of dust, twigs and leaves. Many houses and tin sheds were damaged, and numerous trees were uprooted. Jute godowns and telegraph wires were also seriously damaged.

*May 16th.*—A storm of great intensity passed over Silchar early in the morning. Many big trees were uprooted and the roofs of hundreds of pucca and kutcha buildings blown away.

In the evening a severe hailstorm passed over Dhubri, uprooting a number of trees and blowing away the roofs of some houses.

*May 17th.*—At about 8 O'Clock in the evening, a severe storm, accompanied by torrential rain and thunder, passed over Andipatti, in Madura District. The velocity of the wind was estimated at 50 to 60 miles per hour and rainfall amounted to an inch and a half within twenty minutes. Many trees were damaged and the roofs of kutcha houses were blown away. A corrugated iron sheet about 28 lbs. in weight was carried to a distance of one furlong.

*May 18th.*—A severe storm, accompanied by violent gusts of wind and rain, passed over Hooghly at 5 P.M. Corrugated iron roofs were blown off, high trees were uprooted and a dozen country boats sunk.

*May 21st.*—A severe storm blew over Noakhali between 1 and 2 P.M. Some houses collapsed and big trees were uprooted.

*May 22nd.*—A severe storm accompanied by torrential rain passed over Chandpur in the afternoon. Many trees were uprooted and the roofs of several houses blown away. Several boats sank in the river. Three men were injured by lightning.

*May 25th.*—A storm passed over Dinajpur at night, causing damage to some houses.

*May 29th.*—A fierce duststorm swept over Delhi at about six in the evening, enveloping the city in total darkness. Many trees were uprooted and telegraphic poles and wires were broken. The storm was followed by a fairly good shower of rain.

*June 2nd.*—A severe storm swept over Davangere, in Chitaldroog District, in the evening. A wall of a theatre collapsed causing the death of three people. Numerous dwelling houses and pucca buildings were damaged rendering many people homeless. The storm was considered to be the worst of its kind ever experienced by present inhabitants and the loss caused by it amounted to several lakhs of rupees.

*June first week.*—Saharanpur and many neighbouring places were visited by a severe storm, which caused serious loss of life and property. At Saharanpur many houses collapsed and several persons were struck by lightning. At Lhaksar some labourers were seriously injured. In the town of Rangpur, a dozen persons were burnt to death, some 50 persons were injured, several cattle were destroyed and heavy loss of property was caused. At Sardhana and Amroha the storm completely damaged the mango crop uprooting thousands of trees and destroyed many houses. Some of the neighbouring villages suffered from fire.

*June 7th.*—A tornado is said to have visited a village in central Travancore. It is reported that a cylindrical column of water 20 to 30 feet high was observed to sweep over a paddy field and maintain its form, making a dreadful noise, for several minutes. The people attracted by the noise found deep well-like pits in the ground over which the column had passed. The phenomenon was also said to have been seen in the backwaters of Travancore.

*June 8th.*—A storm with wind and rain broke over Nagpur at night. Sitabaldi and Craddock Town were particularly affected. The tin roofs of several shops and houses were blown off and trees were uprooted.

*June 9th.*—A storm swept through Travancore, causing severe damage and some loss of life. Trees were uprooted and many houses collapsed. Five students were killed and twenty injured when a primary school building situated some six miles from Quilon collapsed. The roof of another was blown off but there were no casualties.

*June 16th.*—In a heavy duststorm, accompanied by torrential rain, at Pakhli, in Hazara District, three persons were killed and one seriously injured when struck by lightning. In the same Ilaqa another death due to lightning was reported on the same day.

*July 3rd.*—An increase of wind at Sukkur was followed by two hours' heavy rain which caused the death of two girls

under the wall of a house which collapsed. The electric supply and telephone lines were also affected in places.

*July 6th.*—A severe storm passed over Durganagor, Newargacha, Ghatnia and other villages in Ullapara Police Station at 4-30 P.M., causing considerable damage. The corrugated iron roofing of some houses at Ghatnia was blown away, there being, however, no casualties. Near the Newargacha ferry ghat three boats sank in the Fulijhore river. In one boat there were ten passengers, of whom no trace was found, only one of the *manjhis* being saved.

*July 15th.*—A severe storm struck Tavoy at midnight. A school building was destroyed. Many were injured by falling trees, a sick man dying of shock when a tree fell over the roof of his house.

*July 17th.*—A severe storm swept over Moulmein at 9 P.M., causing much damage to property and uprooting many trees. The roofs of several buildings were blown off, no loss of life being, however, reported.

A series of particularly violent squalls was experienced at Rangoon which continued till the 18th. Nine casualties were reported, four persons being drowned in the Rangoon river owing to the capsizing of a country craft. Much damage was also done to the buildings and trees.

*October 4th.*—At 23 hrs. a strong squall accompanied by lightning passed over Akyab in which the velocity was estimated to have risen to 50 m. p. h. The squall lasted only for 10 minutes and was followed by heavy rain. The tiled roofs of a few houses were damaged. This squall was apparently connected with the westward passage from beyond central Burma of a wave of low pressure associated with a decaying typhoon which was near lat. 17° long. 107° on the 3rd October.

*October 5th.*—At about 6 O'Clock in the evening Nasik experienced a short but violent thunderstorm. The lightning struck the ancient temple of Rama, with the result that a man was killed and four women were injured.

*November 27th—28th.*—At ten minutes past seven on the evening of the 27th Karachi was visited by a sudden squall, accompanied by blinding flashes of lightning and a torrential downpour of rain. The squall lasted three minutes and for two minutes the velocity of the wind was forty-eight miles per hour. Another squall, which was also severe and of short duration, passed over the town at about half past two in the morning of the 28th. Houses and huts were unroofed, telegraph lines damaged and trees uprooted. Many fishing boats capsized and two lives were lost.

*November 29th.*—A severe thunderstorm passed over Ootacamund and burst with unusual violence on the Ghats. The Nilgiri Railway line was breached at over a score of places. Two girder bridges below Barliar were washed away and thirty to forty breaches occurred between Barliar and Runny Mede. Minor breaches occurred on the Kotagiri Road. The damage to the Ghat Road and the Nilgiri Railway was estimated at two or three lakhs. In addition to the destruction of bridges and piers, a lorry and four bullock carts were engulfed by the earth on the Coonoor-Mettupalayam Road. The whole railway line from Kallar was wrecked. The Nilgiris District as a whole was isolated owing to landslips. Runny Mede Estate received nine inches of rain on the night of the storm. Railway traffic between Mettupapalayam and Coonoor was suspended for three months.

*December 5th—6th.*—A severe storm accompanied by strong winds, hailstones and torrential rain passed over Bhopal, doing considerable damage to property and crops.

*December 6th.*—Heavy rain accompanied by hail fell at Jalgaon and the surrounding district, and caused some damage to the railway lines.

*December 7th.*—Great damage to property and standing crops was reported from Sindkheda, a taluka in the Dhulia District, as a result of a severe hailstorm. The railway station and the ginning factory at Nardana were also damaged.

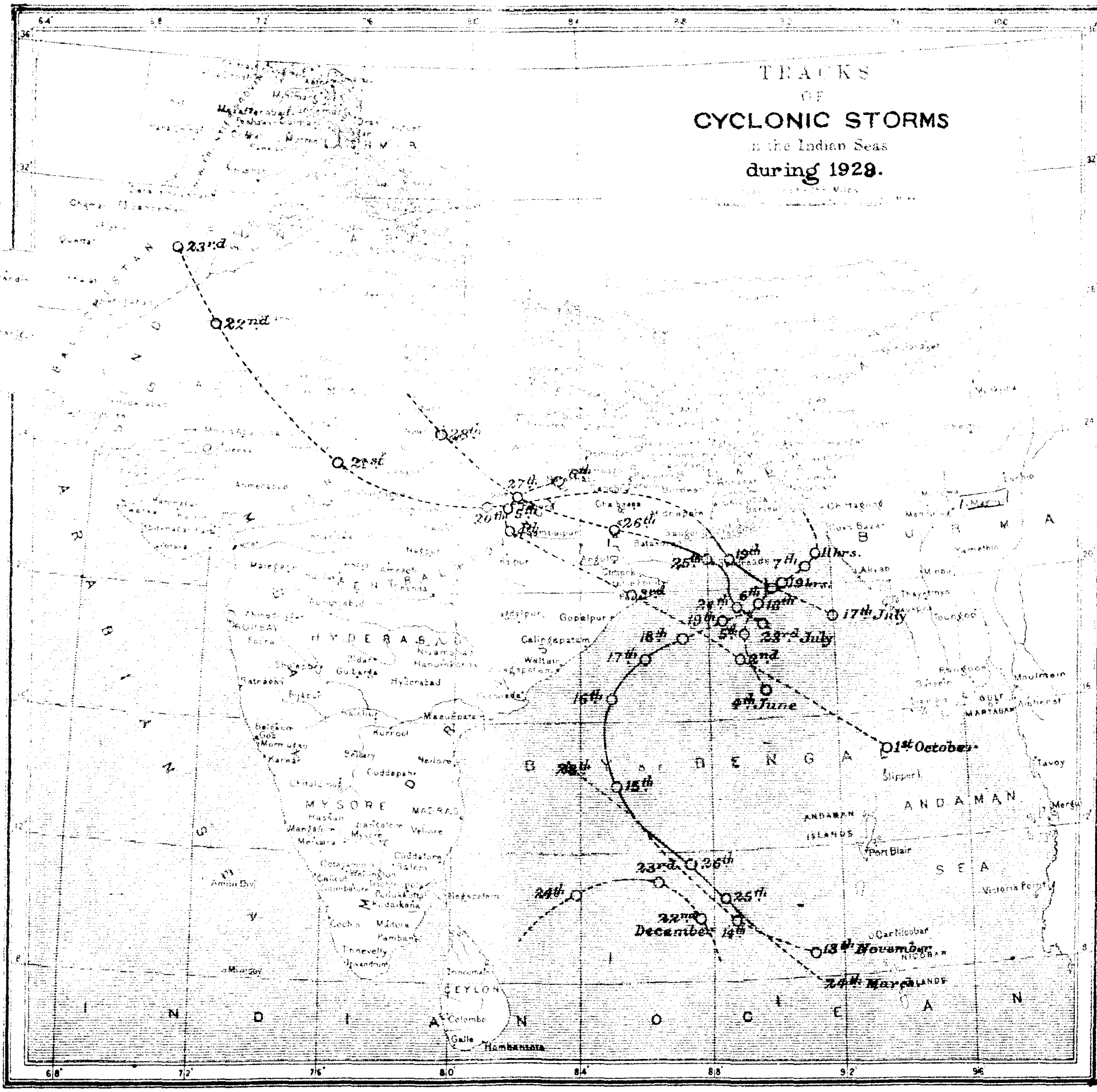
## WINDS OF FORCE NINE OR MORE IN INDIAN SEAS.

Excluding dates of storms and depressions a description of which has been given above, winds of force nine or more were recorded on ships in the Indian seas during the year 1928 on the following occasions:—

| Month and date. | Name of ship. | Approximate position. | | Remarks. |
|---|---|---|---|---|
| | | Latitude. | Longitude. | |
| | | ° N | ° E | |
| 4th March | Algic | 24 | 66 | |
| 27th May | Sutlej | 16 | 93 | |
| 8th June | Sonnenfels | 12 | 57 | |
| 11th June | Malwa | 16 | 62 | |
| 12th June | Do. | 15 | 57 | |
| 16th June | Masimpur | 22 | 69 | |
| 29th June | Clan Macindoe | 13 | 54 | |
| 18th July | Zayani | 17 | 57 | |
| 19th July | Do. | 16 | 56 | |

| Month and date. | Name of ship. | Approximate position. | | Remarks. |
|---|---|---|---|---|
| | | Latitude. | Longitude. | |
| | | ° N | ° E | |
| 21st July | Ranenfels | 16 | 60 | |
| 23rd July | Wochtfels | 12 | 61 | |
| 24th July | Ceylon | 19 | 60 | |
| 25th July | Macedonia | 16 | 62 | |
| 2nd August | Wartenfels | 15 | 58 | |
| 2nd August | Ceylon | 15 | 73 | |
| 3rd August | Wartenfels | 16 | 62 | |
| 3rd August | Massilia | 16 | 61 | |

MGIPC—M—VIII-3-18—22-11 29—340.




----------Depression ———Storm ━━━Severe storm

TRACKS
OF
DEPRESSIONS
in the Indian Seas
during 1928.
Scale 1 inch = 288 Miles
1st September
1st August
12th September
3rd September
24th August
22nd October
19th October
BAY of BENGAL
ARABIAN SEA
INDIAN OCEAN
ANDAMAN SEA
MYSORE
MADRAS
HYDERABAD
BOMBAY
CENTRAL PROVINCES
UNITED PROVINCES
PUNJAB
RAJPUTANA
BALUCHISTAN
BURMA
CEYLON
ANDAMAN ISLANDS
NICOBAR ISLANDS
GULF OF MARTABAN

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART D

# ANNUAL TABLES

CONTENTS


| | Page |
|---|---|
| Table D-1.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations | D1 |
| Table D-2.—Abstract of observations taken at 4 and 14 hrs. (G. M. T.) at 11 stations in Persia and the adjoining areas | D17 |
| Table D-3.—Abstract of observations taken at 8 hrs. at 209 stations | D31 |
| Table D-4.—Abstract of forenoon or afternoon observations taken at 9 stations in Persia, etc. | D53 |
| Table D-5.—Abstract of observations taken at 8 hrs. at 19 fourth class stations | D59 |
| Table D-6.—Abstract of observations taken at 8 hrs. at 34 fifth class stations | D67 |
| Appendix.—Containing Climatic Tables of Kodaikanal and Madras, and tables of extra observations taken at Lahore, Bombay and Trivandrum | D73 |



Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

*Director General of Observatories*

CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1930

**Government of India Publications are obtainable from the Government of India Central Publication Branch, 3, Government Place, West, Calcutta, and from the following Agents :—**

## EUROPE.

OFFICE OF THE HIGH COMMISSIONER FOR INDIA,
42, GROSVENOR GARDENS, LONDON, S. W. 1.

**And at all Booksellers.**

## INDIA AND CEYLON :

### Provincial Book Depôts.

MADRAS :—Superintendent, Government Press, Mount Road, Madras.
BOMBAY :—Superintendent, Government Book Depôt, Town Hall, Bombay.
SIND :—Library attached to the Office of the Commissioner in Sind, Karachi.
BENGAL :—Bengal Secretariat Book Depôt, Writers' Buildings, Room No. 1, Ground Floor, Calcutta.
UNITED PROVINCES OF AGRA AND OUDH :—Superintendent of Government Press, United Provinces of Agra and Oudh, Allahabad.
PUNJAB :—Superintendent, Government Printing, Punjab, Lahore.
BURMA :—Superintendent, Government Printing, Burma, Rangoon.
CENTRAL PROVINCES AND BERAR :—Superintendent, Government Printing, Central Provinces, Nagpur.
ASSAM :—Superintendent, Assam Secretariat Press, Shillong.
BIHAR AND ORISSA :—Superintendent, Government Printing, Bihar and Orissa, P. O. Gulzarbagh, Patna.
COORG :—Office of the Chief Commissioner of Coorg, Bangalore.
NORTH-WEST FRONTIER PROVINCE :—Manager, Government Printing and Stationery, Peshawar.

---

Thacker, Spink & Co., Calcutta and Simla.
W. Newman & Co., Ltd., Calcutta.
R. Cambray & Co., Calcutta.
S. K. Lahiri & Co., Calcutta.
The Indian School Supply Depôt, 309, Bow Bazar Street, Calcutta.
Butterworth & Co. (India), Ltd., Calcutta.
Rai M. C. Sarcar Bahadur & Sons, 90-2A, Harrison Road, Calcutta.
Standard Literature Company, Limited, Calcutta.
Association Press, Calcutta.
Chukervertty, Chatterjee & Co., Ltd., 13, College Square, Calcutta.
The Book Company, Calcutta.
James Murray & Co., 12, Government Place, Calcutta. (For Meteorological Publications only.)
Ray Chaudhury & Co., 68-5, Asutosh Mukherji Road, Calcutta.
Scientific Publishing Co., 9, Taltolla Lane, Calcutta.
Chatterjee & Co., 204, Cornwallis Street, Calcutta.
Standard Law Book Society, 8-2, Hastings Street, Calcutta.
The Hindu Library, 3, Nandalal Mullick Lane, Calcutta.
B. C. Basak, Esq., Proprietor, Albert Library, Dacca.
Mitra Brothers, Rajshahi.
Higginbothams, Madras.
Rochouse and Sons, Madras.
G. A. Nateson & Co., Publishers, George Town, Madras.
Theosophical Publishing House, Adyar, Madras.
P. Varadachary & Co., Madras.
S. Murty & Co., Madras.
Bright & Co., Trivandrum.
The Booklover's Resort, Taikad, Trivandrum, South India.
E. M. Gopalakrishna Kone, Pudumandapam, Madura.
Central Book Depôt, Madura.
Vijapur & Co., Vizagapatam.
Thacker & Co., Ltd., Bombay.
D. B. Taraporevala Sons & Co., Bombay.
Sunder Pandurang, Bombay.
Ram Chandra Govind & Sons, Kalbadevi Road, Bombay.
N. M. Tripathi & Co., Booksellers, Princess Street, Kalbadevi Road, Bombay.
New and Secondhand Bookshop, Kalbadevi Road, Bombay.
Mrs. Radhabai Atmaram Sagoon, Kalbadevi Road, Bombay.
J. M. Pandia & Co., Bombay.
Gatulal & Co., Bombay.
A. H. Wheeler & Co., Allahabad, Calcutta and Bombay.
S. Govind & Co., Sandhurst Road, Girgaon, Bombay.
Proprietor, New Kitabkhana, Poona.
The Manager, Oriental Book Supplying Agency, 15, Shukrawar, Poona City.
Rama Krishna Bros., Opposite Visrambag, Poona City.
S. P. Bookstall, 21, Budhwar, Poona.
Mangaldas & Sons, Booksellers and Publishers, Bhaga Talao, Surat.
The Standard Book and Stationery Co., 32-33, Arbab Road, Peshawar.
R. B. Umadikar & Co., The Bharat Book Depôt, Dharwar.
The Standard Bookstall, Karachi, Quetta, Delhi, Murree and Rawalpindi.
The Karachi Book Depôt, Elphinstone Street, Camp, Karachi.
The English Bookstall, Karachi.
The Standard Bookstall, Quetta.
U. P. Malhotra & Co., Quetta.
J. Ray & Sons, 43, K. & L., Edwardes Road, Rawalpindi, Murree and Lahore.
The Standard Book Depôt, Lahore, Nainital, Mussoorie, Dalhousie, Ambala Cantonment and Delhi.
N. B. Mathur, Supdt., Nazir Kanun Hind Press, Allahabad.
The North India Christian Tract and Book Society, 18, Clive Road, Allahabad.
Ram Dayal Agarwala, 184, Katra, Allahabad.
The Indian Army Book Depôt, Juhi, Cawnpore.
The Indian Army Book Depôt, Jullundur City.
Manager, Newal Kishore Press, Lucknow.
The Upper India Publishing House, Ltd., Literature Palace, Ammuddaula Park, Lucknow.
Rai Sahib M. Gulab Singh & Sons, Mufid-i-Am Press, Lahore and Allahabad.
Rama Krishna & Sons, Booksellers, Anarkali, Lahore.
Puri Brothers, Booksellers and Publishers, Katcheri Road, Lahore.
The Tilak School Bookshop, Lahore.
The Standard Bookstall, Lahore.
The Proprietor, Punjab Sanskrit Book Depôt, Saidmitha Street, Lahore.
The Insurance Publicity Co., Ltd., Lahore.
The Punjab Religious Book Society, Lahore.
Manager of the Imperial Book Depôt, 63, Chandni Chowk Street, Delhi.
Fono Book Agency, New Delhi.
Oxford Book and Stationery Company, Delhi & Calcutta.
Supdt., American Baptist Mission Press, Rangoon.
The Modern Publishing House, Ltd., 30, Phayre Street, Rangoon.
Burma Book Club, Ltd., Rangoon.
Manager, The "Hitavada," Nagpur.
Bhisey Brothers, Booksellers and Stationers, Sitabaldi, Nagpur.
S. C. Talukdar, Proprietor, Students & Co., Cooch Behar.
The Manager, Ceylon Observer, Colombo.
The Manager, The Indian Book Shop, Benares City.
Nandkishore & Bros., Chowk, Benares City.
The Srivilliputtur Co-operative Trading Union, Ltd., Srivilliputtur (S. I. R.).
Raghunath Prasad & Sons, Patna City.
The Students' Emporium, Patna.
K. L. Mathur & Bros., Guzri, Patna City.
Dandekar Brothers, Indore City.
Pushtakalaya Sahayak Sahakari, Ltd., Baroda.
The Hyderabad Book Depôt, Chaderghat, Hyderabad (Deccan).
Thakur & Co., Amraoti.
S. Krishnaswami & Co., Teppakulam P. O., Trichinopoly Fort.
National College Teachers' Union Book Depôt, Trichinopoly.

# Table D-1.--Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in the year 1928.

# MONTHLY AND

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

| Station. | Month. | Height of bar cistern above sea-level in feet. | Pressure (Reduced to 32° F. and standard gravity.) | | | | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | | | Nocturnal radiation temperature | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 10 hrs. | Mean 16 hrs. | Mean daily range. | Mean of daily mean pressures. | Departure from normal. | Mean maximum. | Mean minimum. | Highest maximum. | Lowest minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of daily means. | Departure from normal. | Mean minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of three previous columns. | Mean. | Depression below mean minimum. | Departure from normal. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Calcutta (Bengal). | January | 21 | 30·051 | 29·913 | ·138 | 29·972 | +·009 | 79·4 | 58·2 | 88·3 | 48·6 | 70·6 | 78·3 | 67·8 | —2·6 | 56·1 | 62·2 | 64·4 | 60·9 | 50·1 | 7·7 | +0·4 |
| | February | .. | 29·988 | 29·838 | ·150 | 29·905 | +·003 | 85·9 | 62·2 | 95·0 | 57·3 | 76·5 | 84·6 | 73·2 | +2·9 | 58·7 | 64·5 | 66·4 | 63·2 | 53·7 | 8·3 | +1·3 |
| | March | .. | 29·867 | 29·722 | ·145 | 29·788 | —·013 | 96·1 | 70·7 | 100·5 | 59·9 | 86·1 | 94·2 | 82·5 | +3·2 | 65·5 | 76·6 | 70·7 | 68·9 | 62·9 | 7·6 | +1·5 |
| | April | .. | 29·765 | 29·628 | ·137 | 29·695 | —·001 | 96·0 | 75·7 | 104·7 | 66·7 | 88·3 | 93·4 | 85·2 | +0·2 | 71·0 | 76·7 | 75·9 | 74·5 | 70·4 | 5·3 | +0·8 |
| | May | .. | 29·643 | 29·529 | ·114 | 29·588 | —·018 | 94·5 | 78·4 | 100·4 | 70·1 | 88·8 | 91·5 | 86·2 | +0·5 | 74·9 | 81·5 | 81·5 | 79·3 | 75·1 | 3·4 | +0·2 |
| | June | .. | 29·470 | 29·379 | ·091 | 29·430 | —·064 | 89·6 | 78·6 | 101·3 | 75·6 | 85·4 | 85·0 | 83·8 | —0·7 | 76·5 | 80·7 | 80·1 | 79·1 | 76·6 | 2·3 | +0·1 |
| | July | .. | 29·526 | 29·429 | ·097 | 29·484 | —·001 | 88·8 | 79·0 | 93·2 | 76·3 | 84·2 | 85·9 | 83·6 | +0·6 | 77·3 | 80·5 | 81·[illegible] | 79·6 | 77·4 | 1·7 | —0·2 |
| | August | .. | 29·577 | 29·482 | ·095 | 29·532 | —·004 | 89·5 | 79·0 | 94·2 | 76·1 | 85·2 | 85·4 | 83·9 | +1·5 | 77·1 | 80·8 | 81·0 | 79·7 | 77·0 | 2·0 | 0 |
| | September | .. | 29·688 | 29·573 | ·115 | 29·631 | —·006 | 91·0 | 79·5 | 92·6 | 76·9 | 86·7 | 86·9 | 85·0 | +2·4 | 78·0 | 81·4 | 81·4 | 80·3 | 76·4 | 3·2 | +0·6 |
| | October | .. | 29·844 | 29·735 | ·109 | 29·786 | +·001 | 88·5 | 77·0 | 90·9 | 73·8 | 84·5 | 84·7 | 82·3 | +2·3 | 75·5 | 78·9 | 77·6 | 77·8 | 73·4 | 3·7 | —0·7 |
| | November | .. | 29·987 | 29·869 | ·118 | 29·924 | +·015 | 84·7 | 66·5 | 89·8 | 59·2 | 79·6 | 82·5 | 75·0 | +2·6 | 64·3 | 70·0 | 67·0 | 67·1 | 59·1 | 7·4 | +1·0 |
| | December | .. | 30·028 | 29·901 | ·127 | 29·958 | —·015 | 79·5 | 58·6 | 84·3 | 53·1 | 72·6 | 78·0 | 68·0 | +2·7 | 56·6 | 63·5 | 64·6 | 61·6 | 50·6 | 7·9 | +0·2 |
| | Year | .. | 29·786 | 29·667 | ·120 | 29·724 | —·008 | 88·6 | 71·9 | 104·7 | 48·6 | 82·4 | 85·9 | 79·7 | +1·7 | 69·3 | 74·3 | 74·3 | 72·6 | 66·9 | 5·0 | +0·4 |
| Lahore (Punjab) | January | 702 | 29·373 | 29·287 | ·086 | 29·321 | +·030 | 63·8 | 44·2 | 71·5 | 38·0 | 53·9 | 62·9 | 52·1 | —0·9 | 43·5 | 50·1 | 55·0 | 49·6 | 33·6 | 9·3 | —0·4 |
| | February | .. | 29·277 | 29·179 | ·098 | 29·219 | —·027 | 74·4 | 50·4 | 85·7 | 40·1 | 63·9 | 73·7 | 61·3 | +4·0 | 48·7 | 56·2 | 60·5 | 55·1 | 39·9 | 10·0 | +0·5 |
| | March | .. | 29·187 | 29·083 | ·104 | 29·129 | —·003 | 83·0 | 56·9 | 92·8 | 47·0 | 72·6 | 81·8 | 69·3 | +0·3 | 52·1 | 59·6 | 62·9 | 58·2 | 46·4 | 10·0 | +0·8 |
| | April | .. | 29·043 | 28·940 | ·103 | 28·986 | —·014 | 96·0 | 66·7 | 107·5 | 53·4 | 86·1 | 95·5 | 80·9 | 0 | 60·5 | 68·3 | 70·7 | 66·5 | 56·0 | 10·7 | +1·2 |
| | May | .. | 28·877 | 28·788 | ·089 | 28·826 | —·044 | 109·3 | 78·5 | 115·5 | 71·0 | 99·8 | 108·5 | 93·6 | +4·7 | 66·2 | 73·4 | 75·6 | 71·8 | 67·5 | 11·0 | +1·8 |
| | June | .. | 28·746 | 28·646 | ·100 | 28·688 | —·050 | 106·6 | 83·3 | 112·8 | 75·1 | 97·3 | 105·6 | 94·5 | +1·5 | 73·2 | 77·9 | 79·5 | 76·9 | 77·1 | 6·2 | —0·4 |
| | July | .. | 28·778 | 28·686 | ·092 | 28·728 | —·005 | 101·9 | 82·9 | 110·3 | 73·3 | 93·4 | 100·0 | 91·5 | +2·4 | 77·5 | 81·3 | 82·7 | 80·5 | 78·4 | 4·6 | +0·5 |
| | August | .. | 28·848 | 28·752 | ·096 | 28·792 | —·007 | 97·9 | 81·7 | 108·5 | 69·8 | 90·4 | 96·3 | 86·9 | +1·8 | 76·1 | 78·8 | 81·2 | 78·7 | 77·6 | 4·5 | +0·2 |
| | September | .. | 28·981 | 28·903 | ·078 | 28·934 | —·003 | 96·4 | 73·8 | 101·6 | 65·0 | 87·5 | 96·3 | 84·1 | —0·7 | 70·9 | 75·7 | 77·7 | 74·8 | 65·8 | 7·9 | +1·2 |
| | October | .. | 29·145 | 29·049 | ·096 | 29·086 | —·028 | 94·7 | 63·4 | 99·6 | 57·3 | 83·4 | 83·4 | 77·6 | +1·9 | 60·2 | 68·6 | 72·3 | 67·0 | 52·7 | 10·7 | +0·7 |
| | November | .. | 29·288 | 29·207 | ·081 | 29·240 | —·011 | 77·8 | 53·4 | 90·4 | 45·0 | 67·0 | 76·6 | 63·6 | +0·4 | 52·2 | 59·0 | 64·2 | 58·5 | 43·2 | 10·1 | —0·8 |
| | December | .. | 29·363 | 29·275 | ·088 | 29·309 | —·011 | 67·3 | 44·4 | 74·4 | 39·0 | 55·7 | 66·3 | 53·6 | —1·0 | 44·0 | 51·3 | 57·4 | 50·9 | 33·2 | 10·5 | +0·3 |
| | Year | .. | 29·075 | 28·983 | ·093 | 29·021 | —·015 | 89·1 | 65·0 | 115·5 | 38·0 | 79·3 | 88·1 | 75·9 | +1·2 | 60·4 | 66·7 | 70·0 | 65·7 | 55·9 | 8·8 | +0·5 |

# ANNUAL TABLE D-1.

*at 13 stations in India, etc., in 1928.*

| Vapour tension in inches of mercury. | | | | | Humidity. | | | | | Cloud. | | | | Wind direction. | | | | | | | | | | | Wind velocity. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 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. | Mean velocity in miles per diem. | Departure from normal. |
| 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 |
| ·429 | ·446 | ·426 | ·451 | +·020 | 87 | 60 | 43 | 65 | —5 | 1·4 | 1·9 | 1·7 | +0·2 | 2 | 6 | 6 | 3 | 2 | 1 | 6 | 6 | 30 | N 43° W | N 30° W | 58 | +13 |
| ·449 | ·450 | ·406 | ·461 | —·024 | 80 | 49 | 34 | 57 | —9 | 1·7 | 1·7 | 1·7 | —0·5 | 1 | 10 | 5 | 2 | 1 | 0 | 3 | 12 | 24 | N 42° W | N 73° W | 66 | +8 |
| ·576 | ·551 | ·444 | ·564 | —·079 | 76 | 44 | 28 | 54 | —13 | 1·9 | 1·4 | 1·7 | —0·5 | 1 | 3 | 0 | 1 | 3 | 10 | 17 | 17 | 10 | S 67° W | S 60° W | 87 | +1 |
| ·703 | ·769 | ·664 | ·744 | —·053 | 80 | 58 | 44 | 66 | —4 | 1·8 | 3·5 | 2·7 | +0·1 | 3 | 1 | 1 | 4 | 6 | 16 | 17 | 7 | 5 | S 27° W | S 30° W | 98 | —2 |
| ·830 | ·979 | ·941 | ·925 | +·042 | 84 | 72 | 64 | 76 | +1 | 6·3 | 3·8 | 5·0 | +0·7 | 1 | 0 | 2 | 6 | 16 | 26 | 10 | 1 | 0 | S 14° E | S 9° W | 117 | —6 |
| ·890 | ·987 | ·963 | ·958 | —·013 | 90 | 81 | 81 | 86 | +3 | 9·5 | 9·4 | 9·4 | +1·9 | 3 | 2 | 2 | 3 | 10 | 20 | 12 | 6 | 2 | S 8° W | S 3° W | 87 | —17 |
| ·914 | ·988 | ·990 | ·964 | —·007 | 92 | 84 | 81 | 87 | 0 | 9·2 | 9·2 | 9·2 | +0·6 | 2 | 1 | 4 | 11 | 11 | 18 | 9 | 3 | 3 | S 21° E | S 1° W | 89 | +1 |
| ·909 | ·993 | ·996 | ·968 | +·001 | 91 | 82 | 82 | 86 | —2 | 8·7 | 9·4 | 9·1 | +0·4 | 2 | 0 | 2 | 12 | 10 | 16 | 11 | 5 | 4 | S 10° E | S 2° E | 76 | —6 |
| ·941 | ·999 | ·996 | ·984 | +·032 | 93 | 79 | 78 | 84 | —2 | 7·4 | 8·5 | 7·9 | 0 | 5 | 2 | 1 | 11 | 18 | 14 | 6 | 3 | 0 | S 31° E | S 9° W | 53 | —18 |
| ·870 | ·911 | ·851 | ·897 | +·081 | 93 | 77 | 72 | 84 | +2 | 6·6 | 6·7 | 6·7 | +2·1 | 4 | 1 | 5 | 11 | 11 | 10 | 9 | 6 | 5 | S 22° E | N 18° W | 37 | —12 |
| ·587 | ·607 | ·454 | ·564 | —·014 | 89 | 59 | 41 | 66 | —8 | 1·5 | 2·2 | 1·8 | —0·7 | 9 | 3 | 1 | 2 | 3 | 4 | 6 | 10 | 22 | N 71° W | N 12° W | 43 | —1 |
| ·436 | ·464 | ·430 | ·456 | +·018 | 88 | 58 | 45 | 67 | —4 | 1·5 | 2·4 | 1·9 | +0·1 | 1 | 13 | 3 | 2 | 3 | 0 | 0 | 3 | 37 | N 30° W | N 13° W | 49 | +5 |
| ·711 | ·762 | ·713 | ·745 | +·001 | 87 | 67 | 58 | 73 | —4 | 4·8 | 5·0 | 4·9 | +0·3 | 34 | 42 | 32 | 68 | 94 | 135 | 106 | 79 | 142 | .. | .. | 72 | —5 |
| ·276 | ·314 | ·331 | ·311 | +·042 | 95 | 76 | 58 | 79 | +9 | 4·5 | 6·1 | 5·3 | +1·6 | 34 | 2 | 2 | 0 | 3 | 0 | 0 | 0 | 21 | N 35° W | N 30° W | 22 | —3 |
| ·323 | ·353 | ·352 | ·351 | +·064 | 88 | 60 | 43 | 66 | +4 | 4·5 | 4·6 | 4·6 | +0·7 | 18 | 6 | 4 | 3 | 7 | 0 | 0 | 2 | 18 | N 13° W | N 30° W | 30 | —9 |
| ·331 | ·343 | ·328 | ·345 | —·015 | 72 | 43 | 30 | 50 | —4 | 3·4 | 3·0 | 3·2 | —0·3 | 11 | 1 | 7 | 0 | 11 | 2 | 1 | 2 | 27 | N 32° W | N 12° W | 57 | +6 |
| ·449 | ·457 | ·423 | ·460 | +·065 | 69 | 38 | 27 | 47 | +6 | 2·9 | 1·8 | 2·3 | —0·6 | 20 | 1 | 5 | 0 | 5 | 0 | 1 | 2 | 26 | N 37° W | N 15° W | 44 | —12 |
| ·479 | ·471 | ·443 | ·475 | +·021 | 50 | 25 | 18 | 32 | —4 | 1·0 | 1·0 | 1·0 | —1·2 | 20 | 1 | 11 | 1 | 6 | 0 | 2 | 0 | 21 | N 10° W | N 12° E | 40 | —16 |
| ·681 | ·692 | ·655 | ·694 | +·067 | 60 | 40 | 30 | 44 | 0 | 0·8 | 0·7 | 0·8 | —2·1 | 23 | 1 | 6 | 0 | 14 | 1 | 5 | 1 | 9 | S 50° E | N 18° E | 45 | —18 |
| ·877 | ·903 | ·887 | ·907 | +·044 | 79 | 59 | 48 | 63 | —2 | 3·2 | 2·9 | 3·1 | —1·2 | 18 | 3 | 1 | 3 | 14 | 1 | 8 | 3 | 11 | S 30° W | S 78° E | 45 | —15 |
| ·827 | ·828 | ·859 | ·862 | —·022 | 77 | 60 | 53 | 65 | —6 | 3·8 | 3·0 | 3·4 | —0·6 | 17 | 0 | 3 | 5 | 9 | 3 | 8 | 7 | 10 | S 47° W | S 78° E | 39 | —10 |
| ·722 | ·732 | ·698 | ·728 | +·010 | 86 | 57 | 42 | 65 | +4 | 0·8 | 0·3 | 0·5 | —1·4 | 26 | 3 | 0 | 0 | 2 | 3 | 7 | 11 | 8 | S 88° W | N 46° E | 25 | —12 |
| ·480 | ·502 | ·497 | ·500 | +·055 | 82 | 44 | 31 | 57 | +5 | 0·3 | 0 | 0·1 | —0·7 | 45 | 0 | 0 | 0 | 4 | 0 | 2 | 3 | 8 | N 79° W | N 9° W | 12 | —16 |
| ·377 | ·397 | ·439 | ·401 | +·085 | 92 | 61 | 51 | 72 | +15 | 3·6 | 3·6 | 3·6 | +2·1 | 38 | 1 | 5 | 0 | 4 | 1 | 2 | 1 | 8 | N 19° W | N 42° W | 19 | —4 |
| ·280 | ·322 | ·356 | ·319 | +·048 | 97 | 72 | 56 | 77 | +14 | 4·1 | 3·2 | 3·6 | +0·8 | 35 | 2 | 1 | 2 | 3 | 0 | 1 | 4 | 14 | N 45° W | N 36° W | 20 | —3 |
| ·509 | ·526 | ·522 | ·529 | +·038 | 79 | 53 | 41 | 60 | +4 | 2·7 | 2·5 | 2·6 | —0·3 | 305 | 21 | 45 | 14 | 82 | 11 | 37 | 36 | 181 | .. | .. | 33 | —10 |

# MONTHLY AND

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

| Station. | Month. | Height of bar cistern above sea-level in feet. | Pressure (Reduced to 32° F. and standard gravity.) | | | | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | | | Nocturnal radiation temperature. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 10 hrs. | Mean 16 hrs. | Mean daily range. | Mean of daily mean pressures. | Departure from normal. | Mean maximum. | Mean minimum. | Highest maximum. | Lowest minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of daily means. | Departure from normal. | Mean minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of three previous columns. | Mean. | Depression below mean minimum. | Departure from normal. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Srinagar (Kashmir). | January | 5·204 | 24·981 | 24·898 | ·083 | 24·930 | —·029 | 43·3 | 31·2 | 52·0 | 21·9 | 36·5 | 41·9 | 35·3 | +4·6 | 28·8 | 34·8 | 37·9 | 33·8 | 25·0 | 6·0 | —1·4 |
| | February | .. | 24·991 | 24·901 | ·090 | 24·942 | +·037 | 46·2 | 32·7 | 62·7 | 21·5 | 38·8 | 44·8 | 37·7 | +4·7 | 30·3 | 36·8 | 40·0 | 35·7 | 27·9 | 4·5 | —3·1 |
| | March | .. | 24·897 | 24·817 | ·080 | 24·852 | —·020 | 56·1 | 38·3 | 66·6 | 30·7 | 48·4 | 53·9 | 46·1 | +1·0 | 35·2 | 43·8 | 46·2 | 41·7 | 31·7 | 6·4 | —2·2 |
| | April | .. | 24·901 | 24·807 | ·094 | 24·849 | —·003 | 68·7 | 46·7 | 79·8 | 38·9 | 59·6 | 66·5 | 56·6 | +0·9 | 43·0 | 53·0 | 55·7 | 50·6 | 39·5 | 7·1 | —1·9 |
| | May | .. | 24·822 | 24·744 | ·078 | 24·785 | +·003 | 80·9 | 51·9 | 92·8 | 46·3 | 70·8 | 77·3 | 65·8 | +1·9 | 50·0 | 60·0 | 61·3 | 57·1 | 45·3 | 6·5 | —3·3 |
| | June | .. | 24 652 | 24·570 | ·082 | 24·613 | —·051 | 88·3 | 57·1 | 94·9 | 50·3 | 76·6 | 83·8 | 71·6 | +1·7 | 54·9 | 64·4 | 66·5 | 61·9 | 50·6 | 6·5 | —3·4 |
| | July | .. | 24·640 | 24·554 | ·086 | 24·593 | —·005 | 89·5 | 63·9 | 97·9 | 58·0 | 78·7 | 86·7 | 74·9 | +1·9 | 61·5 | 68·4 | 71·6 | 67·3 | 59·0 | 5·0 | —4·5 |
| | August | .. | 24·695 | 24·605 | ·090 | 24·647 | +·011 | 86·6 | 62·8 | 95·1 | 57·1 | 76·5 | 84·0 | 72·1 | +1·3 | 60·7 | 67·3 | 69·9 | 66·0 | 58·5 | 4·4 | —4·5 |
| | September | .. | 24·828 | 24·732 | ·096 | 24·779 | +·008 | 81·8 | 54·3 | 87·6 | 42·8 | 69·5 | 79·2 | 65·8 | +1·8 | 52·7 | 62·0 | 65·4 | 60·0 | 47·9 | 6·4 | —4·2 |
| | October | .. | 24·939 | 24·829 | ·110 | 24·872 | —·031 | 78·7 | 41·7 | 83·4 | 34·6 | 63·8 | 71·3 | 58·6 | +5·4 | 40·7 | 54·5 | 58·1 | 51·1 | 34·0 | 7·8 | —2·8 |
| | November | .. | 25·000 | 24·910 | ·090 | 24·950 | —·014 | 58·7 | 34·3 | 72·4 | 25·4 | 48·2 | 54·1 | 44·5 | +0·5 | 33·3 | 43·3 | 46·7 | 41·1 | 27·5 | 6·9 | —3·5 |
| | December | .. | 25·041 | 24·969 | ·072 | 24·997 | +·008 | 42·7 | 28·9 | 50·0 | 22·9 | 35·3 | 40·1 | 33·9 | —2·4 | 28·1 | 33·8 | 38·1 | 33·3 | 23·1 | 5·6 | —3·7 |
| | Year | .. | 24·866 | 24·778 | ·088 | 24·817 | —·008 | 68·5 | 45·3 | 97·9 | 21·5 | 58·6 | 65·3 | 55·2 | +1·9 | 43·3 | 51·8 | 54·8 | 50·0 | 39·2 | 6·1 | —3·2 |
| Bombay (Bombay). | January | 37 | 29·947 | 29·831 | ·116 | 29·894 | 0 | 83·5 | 69·5 | 87·3 | 65·0 | 75·3 | 79·4 | 75·7 | +1·2 | 63·1 | 67·5 | 69·7 | 66·8 | .. | .. | .. |
| | February | .. | 29·922 | 29·801 | ·121 | 29·868 | —·004 | 82·4 | 66·6 | 88·6 | 59·9 | 74·7 | 78·3 | 73·6 | —1·2 | (s) 60·3 | 66·1 | 69·5 | 67·0 | .. | .. | .. |
| | March | .. | 29·860 | 29·738 | ·122 | 29·807 | —·009 | 86·9 | 73·6 | 92·2 | 66·4 | 81·2 | 83·1 | 78·6 | +0·6 | 69·4 | 72·9 | 74·1 | 72·1 | .. | .. | .. |
| | April | .. | 29·783 | 29·661 | ·122 | 29·733 | —·018 | 90·9 | 79·3 | 93·8 | 76·6 | 85·5 | 87·2 | 84·1 | +2·0 | 75·4 | 77·7 | 77·8 | 76·9 | .. | .. | .. |
| | May | .. | 29·764 | 29·666 | ·098 | 29·726 | +·013 | 92·1 | 81·8 | 93·4 | 79·8 | 87·4 | 88·9 | 85·9 | +1·3 | 76·4 | 78·4 | 79·0 | 77·9 | .. | .. | .. |
| | June | .. | 29·621 | 29·542 | ·079 | 29·595 | —·017 | 88·4 | 80·2 | 94·1 | 74·4 | 84·5 | 85·3 | 83·1 | +0·7 | 76·5 | 79·1 | 79·0 | 78·2 | .. | .. | .. |
| | July | .. | 29·635 | 29·568 | ·067 | 29·613 | +·002 | 84·7 | 78·1 | 88·5 | 76·2 | 81·6 | 82·3 | 79·9 | +0·4 | 75·7 | 78·0 | 78·1 | 77·3 | .. | .. | .. |
| | August | .. | 29·709 | 29·637 | ·072 | 29·683 | +·015 | 84·6 | 77·6 | 86·8 | 74·8 | 81·5 | 81·6 | 80·0 | +0·6 | 74·7 | 77·3 | 77·0 | 76·3 | .. | .. | .. |
| | September | .. | 29·779 | 29·691 | ·088 | 29·745 | +·015 | 83·8 | 76·3 | 86·4 | 73·5 | 79·8 | 80·9 | 79·0 | —0·4 | 73·9 | 76·3 | 75·9 | 75·3 | .. | .. | .. |
| | October | .. | 29·806 | 29·702 | ·104 | 29·763 | —·023 | 87·5 | 77·7 | 92·8 | 74·4 | 82·8 | 84·5 | 81·3 | +0·6 | 74·1 | 77·5 | 78·2 | 76·6 | .. | .. | .. |
| | November | .. | 29·903 | 29·798 | ·105 | 29·858 | +·006 | 88·0 | 75·3 | 92·7 | 72·6 | 81·0 | 84·0 | 80·9 | +1·6 | 70·0 | 73·3 | 75·1 | 72·8 | .. | .. | .. |
| | December | .. | 29·919 | 29·811 | ·108 | 29·872 | —·020 | 85·0 | 71·0 | 90·6 | 62·1 | 76·9 | 81·1 | 77·2 | +0·8 | 64·2 | 68·1 | 70·3 | 67·5 | .. | .. | .. |
| | Year | .. | 29·804 | 29·704 | ·100 | 29·763 | —·003 | 86·5 | 75·6 | 94·1 | 59·9 | 81·0 | 83·1 | 79·9 | +0·6 | (w) 72·1 | 74·3 | 75·3 | 73·7 | .. | .. | .. |

(s) Mean of 13 days (w) Mean of 11 months.

# ANNUAL TABLE D-1—*contd.*

*at 13 stations in India, etc., in 1928.*

| Vapour tension in inches of mercury. | | | | | Humidity. | | | | | Cloud. | | | | Wind direction. | | | | | | | | | | | Wind velocity. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 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. | Mean velocity in miles per diem. | Departure from normal. |
| 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 |
| ·134 | ·185 | ·184 | ·167 | +·009 | 76 | 85 | 70 | 77 | —7 | 8·0 | 7·1 | 7·5 | +0·3 | 25 | 5 | 0 | 0 | 7 | 3 | 3 | 1 | 18 | N 54° W | S 21° E | 34 | —20 |
| ·145 | ·199 | ·198 | ·177 | +·003 | 78 | 84 | 69 | 77 | —6 | 7·4 | 7·0 | 7·2 | +0·6 | 21 | 1 | 1 | 1 | 13 | 3 | 3 | 6 | 9 | S 30° W | S 9° W | 28 | —33 |
| ·172 | ·235 | ·227 | ·198 | —·057 | 73 | 70 | 57 | 67 | —14 | 6·2 | 6·5 | 6·3 | +0·6 | 10 | 6 | 1 | 1 | 7 | 4 | 1 | 7 | 25 | N 52° W | N 24° W | 88 | +4 |
| ·236 | ·331 | ·326 | ·277 | —·053 | 73 | 66 | 53 | 64 | —14 | 4·7 | 5·7 | 5·2 | +0·2 | 17 | 4 | 9 | 1 | 5 | 3 | 3 | 6 | 12 | N 30° W | N 18° W | 62 | —22 |
| ·340 | ·397 | ·368 | ·339 | —·103 | 87 | 53 | 39 | 60 | —18 | 2·1 | 5·9 | 4·0 | 0 | 26 | 5 | 1 | 1 | 5 | 9 | 0 | 9 | 6 | S 72° W | N 30° E | 50 | —25 |
| ·410 | ·465 | ·452 | ·395 | —·140 | 87 | 51 | 40 | 59 | —20 | 1·4 | 4·5 | 2·9 | —0·7 | 26 | 8 | 4 | 1 | 3 | 1 | 3 | 7 | 7 | N 38° W | N 9° E | 55 | —11 |
| ·526 | ·578 | ·591 | ·511 | —·128 | 88 | 60 | 48 | 66 | —15 | 3·7 | 4·1 | 3·9 | —0·1 | 41 | 1 | 2 | 1 | 1 | 0 | 1 | 4 | 11 | N 47° W | N 48° W | 37 | —32 |
| ·512 | ·569 | ·576 | ·504 | —·109 | 88 | 64 | 51 | 68 | —12 | 4·0 | 4·0 | 4·0 | +0·2 | 33 | 2 | 2 | 1 | 9 | 3 | 1 | 2 | 9 | S 45° W | N 48° W | 37 | —26 |
| ·387 | ·475 | ·486 | ·418 | —·080 | 91 | 66 | 53 | 71 | —9 | 1·0 | 2·2 | 1·6 | —1·7 | 45 | 1 | 1 | 0 | 4 | 1 | 3 | 2 | 2 | S 38° W | N 33° W | 32 | —26 |
| ·244 | ·321 | ·336 | ·255 | —·047 | 91 | 54 | 44 | 63 | —16 | 0·4 | 1·9 | 1·1 | —1·6 | 45 | 4 | 2 | 2 | 7 | 0 | 1 | 0 | 1 | N 85° E | N 23° W | 24 | —29 |
| ·182 | ·229 | ·239 | ·201 | —·032 | 90 | 70 | 60 | 73 | —6 | 4·4 | 4·9 | 4·6 | +1·6 | 24 | 7 | 3 | 1 | 7 | 2 | 2 | 3 | 11 | N 26° W | N 1° E | 45 | 0 |
| ·147 | ·178 | ·210 | ·171 | —·005 | 92 | 86 | 84 | 88 | +7 | 6·8 | 6·8 | 6·5 | +1·4 | 7 | 3 | 3 | 3 | 23 | 13 | 2 | 1 | 7 | S 34° E | S 36° E | 72 | +27 |
| ·286 | ·347 | ·349 | ·301 | —·062 | 85 | 67 | 56 | 69 | —11 | 4·2 | 5·0 | 4·6 | +0·1 | 320 | 47 | 29 | 13 | 91 | 42 | 23 | 48 | 118 | .. | .. | 47 | —16 |
| ·494 | ·569 | ·597 | ·571 | —·020 | 68 | 65 | 59 | 68 | —4 | 1·6 | 2·0 | 1·7 | +0·6 | 0 | 13 | 18 | 6 | 0 | 0 | 0 | 1 | 24 | N 1° E | N 6° E | 159 | —15 |
| (s) ·455 | ·532 | ·610 | ·583 | —·036 | (s) 69 | 61 | 62 | 67 | —4 | 0·9 | 0·5 | 0·7 | —0·5 | 0 | 8 | 18 | 5 | 1 | 0 | 0 | 3 | 23 | N 1° W | N 1° W | 148 | —35 |
| ·667 | ·699 | ·722 | ·723 | —·014 | 80 | 65 | 63 | 73 | —2 | 0·6 | 0·4 | 0·5 | —0·8 | 0 | 4 | 2 | 2 | 6 | 5 | 1 | 16 | 26 | N 64° W | N 36° W | 154 | —37 |
| ·824 | ·841 | ·825 | ·855 | +·014 | 83 | 69 | 64 | 75 | —2 | 1·7 | 0·7 | 1·3 | —0·3 | 0 | 1 | 4 | 2 | 3 | 2 | 6 | 20 | 22 | N 71° W | N 60° W | 147 | —38 |
| ·836 | ·847 | ·853 | ·858 | —·031 | 77 | 65 | 63 | 71 | —5 | 2·7 | 1·7 | 2·1 | —0·5 | 0 | 0 | 0 | 0 | 0 | 6 | 20 | 23 | 13 | S 77° W | N 83° W | 141 | —36 |
| ·861 | ·918 | ·903 | ·910 | —·028 | 84 | 78 | 75 | 81 | —2 | 7·2 | 7·0 | 7·1 | 0 | 0 | 5 | 1 | 0 | 1 | 9 | 12 | 21 | 11 | S 83° W | S 63° W | 171 | —95 |
| ·857 | ·909 | ·903 | ·904 | —·017 | 89 | 85 | 82 | 86 | —1 | 8·0 | 8·5 | 8·3 | —0·4 | 0 | 1 | 1 | 0 | 0 | 0 | 26 | 31 | 3 | S 73° W | S 75° W | 207 | —133 |
| ·819 | ·880 | ·862 | ·862 | —·023 | 87 | 82 | 80 | 84 | —3 | 7·7 | 8·0 | 7·9 | —0·5 | 0 | 0 | 0 | 0 | 0 | 1 | 23 | 30 | 8 | S 77° W | S 81° W | 223 | —47 |
| ·802 | ·856 | ·827 | ·835 | —·037 | 89 | 85 | 79 | 85 | —1 | 7·6 | 6·8 | 7·2 | +0·3 | 0 | 5 | 3 | 2 | 2 | 6 | 8 | 21 | 13 | N 85° W | N 84° W | 125 | —64 |
| ·797 | ·869 | ·880 | ·862 | +·010 | 84 | 78 | 75 | 81 | 0 | 3·5 | 2·4 | 3·1 | 0 | 0 | 6 | 13 | 7 | 4 | 7 | 4 | 4 | 17 | N | N 9° E | 142 | —17 |
| ·661 | ·717 | ·751 | ·735 | +·019 | 75 | 68 | 65 | 73 | 0 | 1·6 | 1·5 | 1·5 | —0·2 | 0 | 3 | 21 | 7 | 2 | 0 | 1 | 11 | 15 | N | N 18° E | 117 | —51 |
| ·516 | ·573 | ·599 | ·588 | —·051 | 67 | 61 | 56 | 65 | —7 | 0·8 | 0·9 | 0·9 | —1·0 | 0 | 9 | 16 | 7 | 1 | 0 | 1 | 4 | 24 | N 3° W | N 15° E | 154 | —16 |
| (w) ·739 | ·767 | ·778 | ·774 | —·018 | (w) 80 | 72 | 69 | 76 | —2 | 3·7 | 3·4 | 3·5 | —0·3 | 0 | 55 | 97 | 38 | 20 | 36 | 102 | 185 | 199 | .. | .. | 157 | —49 |

(s) Mean of 13 days.

(w) Mean of 11 months.

# MONTHLY AND

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

| Station. | Month. | Height of bar cistern above sea-level in feet. | Pressure (Reduced to 32° F. and Standard Gravity.) | | | | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 10 hrs. | Mean 16 hrs. | Mean daily range. | Mean of daily mean pressures. | Departure from normal. | Mean maximum. | Mean minimum. | Highest maximum. | Lowest minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of daily means. | Departure from normal. | 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 |
| Jaipur (Rajputana). | January | 1,431 | 28·628 | 28·523 | ·105 | 28·567 | +·029 | 71·6 | 50·4 | 76·6 | 42·1 | 64·0 | 70·3 | 59·6 | —0·3 | 46·5 | 53·2 | 56·2 | 52·0 |
| | February | .. | 28·561 | 28·448 | ·113 | 28·494 | +·002 | 80·3 | 54·8 | 95·2 | 44·6 | 71·7 | 79·4 | 66·4 | +2·2 | 49·9 | 57·0 | 59·2 | 55·4 |
| | March | .. | 28·486 | 28·366 | ·120 | 28·418 | +·011 | 90·5 | 63·4 | 99·5 | 48·6 | 82·0 | 89·3 | 76·5 | +1·6 | 52·6 | 59·5 | 61·9 | 58·0 |
| | April | .. | 28·373 | 28·254 | ·119 | 28·307 | +·006 | 101·2 | 69·5 | 109·1 | 59·3 | 92·2 | 100·0 | 85·2 | —1·1 | 56·5 | 65·0 | 65·9 | 62·5 |
| | May | .. | 28·254 | 28·150 | ·104 | 28·197 | —·001 | 108·8 | 81·4 | 113·5 | 73·8 | 99·7 | 107·0 | 94·3 | +2·7 | 64·8 | 70·9 | 70·9 | 68·9 |
| | June | .. | 28·111 | 28·002 | ·109 | 28·055 | —·032 | 105·2 | 82·8 | 110·0 | 78·2 | 95·5 | 101·7 | 92·8 | +2·2 | 72·1 | 74·9 | 74·6 | 73·9 |
| | July | .. | 28·127 | 28·033 | ·094 | 28·079 | +·010 | 94·8 | 79·2 | 100·8 | 74·5 | 86·9 | 91·7 | 85·8 | +1·1 | 75·0 | 77·3 | 77·4 | 76·6 |
| | August | .. | 28·210 | 28·108 | ·102 | 28·159 | +·026 | 93·3 | 76·8 | 100·5 | 74·3 | 85·7 | 90·8 | 83·4 | +1·1 | 73·2 | 75·7 | 76·3 | 75·1 |
| | September | .. | 28·335 | 28·239 | ·096 | 28·284 | +·026 | 94·3 | 73·8 | 102·0 | 69·0 | 87·4 | 91·8 | 82·5 | +0·1 | 69·3 | 73·1 | 73·5 | 72·0 |
| | October | .. | 28·456 | 28·354 | ·102 | 28·399 | —·014 | 92·8 | 68·9 | 99·5 | 64·6 | 86·7 | 90·4 | 79·6 | +1·7 | 61·8 | 68·3 | 68·5 | 66·2 |
| | November | .. | 28·582 | 28·484 | ·098 | 28·524 | +·008 | 84·3 | 57·9 | 91·5 | 48·5 | 77·4 | 82·1 | 69·5 | +0·6 | 52·8 | 60·7 | 62·4 | 58·6 |
| | December | .. | 28·629 | 28·531 | ·098 | 28·569 | +·005 | 73·1 | 48·8 | 80·9 | 38·8 | 65·8 | 71·2 | 59·0 | —2·5 | 46·2 | 54·5 | 56·7 | 52·5 |
| | Year | .. | 28·396 | 28·291 | ·105 | 28·338 | +·007 | 90·9 | 67·3 | 113·5 | 38·8 | 82·9 | 88·8 | 77·9 | +0·8 | 60·1 | 65·8 | 67·0 | 64·3 |
| Bangalore (Mysore). | January | 3,021 | 26·995 | 26·872 | ·123 | 26·931 | +·013 | 84·6 | 60·0 | 89·7 | 55·2 | 74·7 | 81·5 | 71·3 | +3·8 | 58·3 | 63·7 | 64·2 | 62·1 |
| | February | .. | 26·980 | 26·850 | ·130 | 26·912 | +·011 | 87·0 | 62·6 | 90·4 | 57·0 | 77·5 | 84·4 | 74·1 | +2·1 | 59·3 | 64·6 | 64·5 | 62·8 |
| | March | .. | 26·932 | 26·797 | ·135 | 26·865 | +·001 | 92·7 | 64·7 | 96·7 | 57·1 | 82·5 | 90·3 | 77·7 | +1·0 | 58·7 | 64·9 | 64·9 | 62·8 |
| | April | .. | 26·871 | 26·735 | ·136 | 26·809 | —·001 | 95·7 | 70·4 | 99·6 | 65·1 | 85·1 | 92·5 | 81·8 | +1·9 | 63·9 | 69·4 | 68·1 | 67·2 |
| | May | .. | 26·850 | 26·731 | ·119 | 26·798 | +·023 | 95·8 | 70·7 | 99·5 | 65·7 | 84·7 | 91·3 | 81·5 | +3·0 | 66·2 | 71·0 | 69·9 | 69·1 |
| | June | .. | 26·768 | 26·671 | ·097 | 26·726 | —·029 | 86·6 | 67·6 | 94·5 | 64·8 | 78·8 | 82·6 | 75·3 | +1·3 | 65·4 | 69·2 | 69·9 | 68·2 |
| | July | .. | 26·806 | 26·720 | ·086 | 26·771 | +·011 | 82·3 | 66·6 | 90·4 | 64·3 | 75·7 | 79·8 | 72·5 | +0·5 | 65·0 | 68·6 | 69·3 | 67·6 |
| | August | .. | 26·853 | 26·745 | ·108 | 26·808 | +·032 | 81·2 | 65·8 | 85·3 | 63·7 | 73·8 | 78·2 | 71·6 | —0·2 | 64·9 | 68·3 | 69·7 | 67·7 |
| | September | .. | 26·862 | 26·742 | ·120 | 26·810 | +·004 | 85·5 | 66·3 | 88·4 | 63·5 | 77·2 | 84·0 | 74·1 | +2·3 | 64·0 | 68·1 | 69·3 | 67·1 |
| | October | .. | 26·885 | 26·770 | ·115 | 26·828 | —·011 | 81·9 | 66·6 | 87·1 | 63·0 | 75·7 | 79·2 | 72·8 | +1·0 | 65·8 | 69·9 | 70·4 | 68·7 |
| | November | .. | 26·970 | 26·862 | ·108 | 26·915 | +·036 | 81·2 | 63·4 | 85·3 | 59·2 | 75·6 | 78·3 | 71·3 | +1·7 | 62·3 | 66·4 | 67·1 | 65·3 |
| | December | .. | 26·958 | 26·852 | ·106 | 26·906 | —·008 | 79·3 | 60·5 | 83·3 | 54·5 | 72·6 | 76·4 | 69·0 | +1·5 | 59·0 | 63·8 | 64·2 | 62·3 |
| | Year | .. | 26·894 | 26·779 | ·115 | 26·840 | +·007 | 86·1 | 65·4 | 99·6 | 54·5 | 77·8 | 83·2 | 74·4 | +1·6 | 62·7 | 67·3 | 67·6 | 66·9 |

# ANNUAL TABLE D-1—*contd.*

*at 13 stations in India, etc., in 1928.*

| Vapour tension in inches of mercury. | | | | | Humidity | | | | | Cloud. | | | | Wind direction. | | | | | | | | | | | Wind velocity. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 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. | Mean velocity in miles per diem. | Departure from normal. |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| ·269 | ·273 | ·281 | ·280 | +·012 | 75 | 46 | 38 | 57 | +1 | 2·5 | 4·2 | 3·3 | 0 | 11 | 8 | 6 | 20 | 6 | 3 | 0 | 4 | 4 | N 70° E | N | 70 | +12 |
| ·296 | ·287 | ·255 | ·286 | +·024 | 69 | 38 | 28 | 49 | +2 | 1·9 | 3·1 | 2·5 | —0·6 | 9 | 6 | 2 | 6 | 8 | 5 | 3 | 8 | 11 | N 63° W | N 20° W | 61 | —5 |
| ·268 | ·234 | ·214 | ·243 | —·062 | 45 | 21 | 15 | 30 | —9 | 1·5 | 2·9 | 2·2 | —0·9 | 3 | 4 | 9 | 10 | 2 | 9 | 9 | 10 | 6 | S 50° W | N 46° W | 80 | +1 |
| ·296 | ·279 | ·212 | ·275 | —·058 | 42 | 19 | 11 | 26 | —4 | 0·5 | 2·3 | 1·4 | —1·1 | 3 | 2 | 2 | 1 | 1 | 3 | 11 | 20 | 17 | N 84° W | N 57° W | 78 | —10 |
| ·408 | ·392 | ·303 | ·375 | —·073 | 39 | 20 | 13 | 26 | —9 | 0·6 | 2·1 | 1·3 | —1·0 | 1 | 1 | 0 | 1 | 1 | 3 | 10 | 31 | 14 | W | N 72° W | 106 | —4 |
| ·651 | ·603 | ·517 | ·597 | —·059 | 59 | 36 | 27 | 43 | —9 | 0·8 | 2·8 | 1·8 | —2·6 | 3 | 3 | 3 | 4 | 2 | 2 | 12 | 23 | 8 | S 88° W | N 70° W | 105 | —14 |
| ·814 | ·812 | ·759 | ·804 | —·030 | 82 | 65 | 52 | 68 | —8 | 6·7 | 7·0 | 6·9 | —0·5 | 2 | 3 | 7 | 7 | 2 | 3 | 7 | 20 | 11 | N 72° W | N 78° W | 88 | —7 |
| ·773 | ·761 | ·722 | ·765 | —·051 | 84 | 63 | 51 | 68 | —10 | 4·9 | 5·4 | 5·1 | —2·5 | 2 | 3 | 5 | 8 | 3 | 1 | 10 | 23 | 7 | N 86° W | N 69° W | 87 | +5 |
| ·659 | ·638 | ·594 | ·648 | —·044 | 79 | 51 | 41 | 62 | —7 | 2·6 | 3·9 | 3·3 | —1·2 | 3 | 9 | 4 | 1 | 0 | 1 | 3 | 21 | 18 | N 56° W | N 42° W | 51 | —23 |
| ·472 | ·467 | ·424 | ·459 | +·057 | 66 | 41 | 34 | 51 | +5 | 2·8 | 2·8 | 2·8 | +1·1 | 2 | 6 | 4 | 8 | 4 | 0 | 2 | 15 | 21 | N 42° W | N 27° W | 56 | +2 |
| ·342 | ·327 | ·323 | ·332 | +·035 | 70 | 35 | 31 | 50 | +3 | 2·1 | 2·3 | 2·2 | +0·7 | 15 | 2 | 3 | 8 | 2 | 7 | 5 | 10 | 8 | S 74° W | N 24° W | 32 | —15 |
| ·288 | ·287 | ·287 | ·287 | +·020 | 81 | 45 | 38 | 60 | +7 | 2·3 | 2·2 | 2·2 | —0·3 | 17 | 11 | 9 | 9 | 2 | 4 | 1 | 1 | 8 | N 29° E | N 27° W | 36 | —15 |
| ·461 | ·447 | ·408 | ·446 | —·019 | 66 | 40 | 32 | 49 | —4 | 2·4 | 3·4 | 2·9 | —0·8 | 71 | 58 | 54 | 83 | 33 | 41 | 73 | 186 | 133 | .. | .. | 71 | —6 |
| ·465 | ·456 | ·386 | ·440 | +·032 | 90 | 53 | 37 | 62 | 0 | 3·1 | 3·4 | 3·2 | .. | 0 | 2 | 15 | 36 | 8 | 0 | 0 | 0 | 1 | N 82° E | N 88° E | 110 | +17 |
| ·465 | ·452 | ·363 | ·432 | +·025 | 82 | 49 | 32 | 56 | +2 | 2·6 | 2·7 | 2·7 | .. | 4 | 2 | 14 | 21 | 13 | 3 | 1 | 0 | 0 | S 89° E | S 69° E | 105 | +17 |
| ·422 | ·400 | ·301 | ·383 | —·064 | 69 | 36 | 21 | 44 | —6 | 1·4 | 2·6 | 2·0 | .. | 1 | 2 | 15 | 14 | 9 | 6 | 4 | 6 | 5 | N 87° E | S 36° E | 93 | +7 |
| ·513 | ·523 | ·381 | ·492 | —·063 | 70 | 44 | 26 | 49 | —6 | 4·0 | 5·9 | 5·0 | .. | 1 | 7 | 10 | 12 | 2 | 4 | 8 | 9 | 7 | N 6° E | S 27° W | 91 | +7 |
| ·587 | ·588 | ·463 | ·560 | —·045 | 79 | 50 | 33 | 56 | —7 | 2·5 | 5·8 | 4·2 | .. | 2 | 3 | 1 | 0 | 3 | 2 | 11 | 29 | 11 | S 89° W | S 81° W | 120 | +10 |
| ·597 | ·589 | ·573 | ·593 | —·030 | 89 | 60 | 53 | 69 | —5 | 7·8 | 8·2 | 8·0 | .. | 0 | 0 | 0 | 0 | 0 | 1 | 16 | 37 | 6 | S 81° W | S 72° W | 186 | +23 |
| ·594 | ·609 | ·584 | ·596 | —·011 | 92 | 69 | 58 | 74 | —3 | 9·0 | 9·0 | 8·9 | .. | 1 | 0 | 0 | 0 | 0 | 0 | 16 | 39 | 6 | S 83° W | S 72° W | 243 | +75 |
| ·603 | ·621 | ·620 | ·619 | +·006 | 95 | 75 | 65 | 80 | +1 | 9·6 | 8·1 | 8·8 | .. | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 43 | 11 | N 88° W | S 81° W | 155 | +10 |
| ·562 | ·571 | ·529 | ·566 | —·057 | 88 | 62 | 46 | 68 | —12 | 6·7 | 6·6 | 6·7 | .. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 40 | 17 | N 80° W | S 84° W | 128 | +5 |
| ·623 | ·654 | ·632 | ·650 | +·042 | 96 | 74 | 64 | 81 | +3 | 7·9 | 8·1 | 8·0 | .. | 1 | 6 | 10 | 12 | 4 | 0 | 4 | 17 | 8 | N 15° W | N | 80 | —2 |
| ·547 | ·533 | ·521 | ·547 | +·008 | 94 | 61 | 55 | 73 | —2 | 6·1 | 6·3 | 6·2 | .. | 1 | 5 | 30 | 29 | 3 | 0 | 0 | 0 | 1 | N 60° E | N 60° E | 95 | +7 |
| ·484 | ·483 | ·448 | ·486 | +·020 | 91 | 61 | 50 | 69 | —1 | 6·2 | 6·6 | 6·4 | .. | 0 | 2 | 38 | 20 | 2 | 0 | 0 | 0 | 0 | N 60° E | N 72° E | 110 | +14 |
| ·539 | ·540 | ·483 | ·530 | —·012 | 86 | 58 | 45 | 65 | —3 | 5·6 | 6·1 | 5·8 | .. | 11 | 29 | 133 | 135 | 44 | 16 | 71 | 220 | 73 | .. | .. | 123 | +16 |

# MONTHLY AND

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

| Station. | Month. | Height of bar cistern above sea-level in feet. | Pressure (Reduced to 32° F. and Standard Gravity.) | | | | | Temperature of Air. | | | | | | | | Temperature wet bulb | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 10 hrs. | Mean 16 hrs. | Mean daily range. | Mean of daily mean pressures. | Departure from normal. | Mean maximum. | Mean minimum. | Highest maximum. | Lowest minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of daily means. | Departure from normal. | 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 |
| Trivandrum (Madras). | January | ·198 | 29·701 | 29·591 | ·110 | 29·649 | —·014 | 84·6 | 74·4 | 87·1 | 70·1 | 80·4 | 83·6 | 78·7 | +1·6 | 71·1 | 73·9 | 75·8 | 73·6 |
| | February | .. | 29·700 | 29·578 | ·122 | 29·641 | —·008 | 86·1 | 75·3 | 88·0 | 72·5 | 82·5 | 85·1 | 79·8 | +1·2 | 71·3 | 73·4 | 75·9 | 73·5 |
| | March | .. | 29·668 | 29·547 | ·121 | 29·611 | —·616 | 88·5 | 77·3 | 90·9 | 71·9 | 85·2 | 86·7 | 81·3 | +1·0 | 73·4 | 75·2 | 77·0 | 75·2 |
| | April | .. | 29·602 | 29·490 | ·112 | 29·550 | —·030 | 88·1 | 78·8 | 89·3 | 74·8 | 85·3 | 86·0 | 82·4 | +0·5 | 76·4 | 79·4 | 80·5 | 78·8 |
| | May | .. | 29·603 | 29·501 | ·102 | 29·557 | —·014 | 88·1 | 80·0 | 90·5 | 76·7 | 85·4 | 86·7 | 82·9 | +1·6 | 77·6 | 79·6 | 80·2 | 79·1 |
| | June | .. | 29·566 | 29·483 | ·083 | 29·530 | —·048 | 83·3 | 76·6 | 87·5 | 74·1 | 84·1 | 81·8 | 78·7 | +0·3 | 74·5 | 76·7 | 77·2 | 76·1 |
| | July | .. | 29·615 | 29·532 | ·083 | 29·580 | —·011 | 82·0 | 75·8 | 85·5 | 73·1 | 80·0 | 80·9 | 77·5 | +0·3 | 73·6 | 75·9 | 76·3 | 75·0 |
| | August | .. | 29·665 | 29·568 | ·097 | 29·624 | +·025 | 81·3 | 74·7 | 83·6 | 71·5 | 78·4 | 80·3 | 76·9 | —0·9 | 72·9 | 75·3 | 75·5 | 74·6 |
| | September | .. | 29·640 | 29·536 | ·104 | 29·594 | —·022 | 83·8 | 75·2 | 85·5 | 74·0 | 81·5 | 82·9 | 78·4 | +0·4 | 73·0 | 75·1 | 75·9 | 74·7 |
| | October | .. | 29·649 | 29·553 | ·096 | 29·606 | —·015 | 82·5 | 75·2 | 85·6 | 71·6 | 80·2 | 80·9 | 77·5 | —2·0 | 73·2 | 75·6 | 76·1 | 74·9 |
| | November | .. | 29·681 | 29·581 | ·100 | 29·636 | —·004 | 82·4 | 75·3 | 85·0 | 73·1 | 80·2 | 81·3 | 77·9 | +0·2 | 73·3 | 76·2 | 77·1 | 75·5 |
| | December | .. | 29·661 | 29·563 | ·098 | 29·616 | —·037 | 83·0 | 74·8 | 84·7 | 72·4 | 79·9 | 81·8 | 78·1 | +0·7 | 72·4 | 74·6 | 76·0 | 74·3 |
| | Year | .. | 29·646 | 29·544 | ·102 | 29·600 | —·016 | 84·5 | 76·1 | 90·9 | 70·1 | 81·9 | 83·2 | 79·2 | +0·6 | 73·6 | 75·9 | 77·0 | 75·4 |
| Madras (Madras). | January | 22 | 29·982 | 29·872 | ·110 | 29·924 | —·002 | 85·0 | 70·0 | 88·2 | 66·2 | 81·3 | 81·5 | 76·7 | +1·4 | 67·9 | 73·1 | 72·8 | 71·2 |
| | February | .. | 29·962 | 29·833 | ·129 | 29·896 | 0 | 86·8 | 70·1 | 90·9 | 64·9 | 82·5 | 83·8 | 77·6 | +1·0 | 68·1 | 73·5 | 73·5 | 71·7 |
| | March | .. | 29·889 | 29·761 | ·128 | 29·825 | —·010 | 90·4 | 70·9 | 95·5 | 63·0 | 85·2 | 86·2 | 79·0 | —0·5 | 68·3 | 73·8 | 74·1 | 72·2 |
| | April | .. | 29·775 | 29·653 | ·122 | 29·721 | —·034 | 94·3 | 78·2 | 105·9 | 73·9 | 90·6 | 88·8 | 85·2 | +1·1 | 75·3 | 78·5 | 78·8 | 77·3 |
| | May | .. | 29·694 | 29·587 | ·107 | 29·657 | —·006 | 101·4 | 83·3 | 110·0 | 77·3 | 96·6 | 92·4 | 91·2 | +2·5 | 75·8 | 78·8 | 79·8 | 78·1 |
| | June | .. | 29·615 | 29·502 | ·113 | 29·568 | —·061 | 100·9 | 82·7 | 105·6 | 76·4 | 94·1 | 93·1 | 90·6 | +2·2 | 72·9 | 76·0 | 78·0 | 75·6 |
| | July | .. | 29·679 | 29·618 | ·061 | 29·635 | —·013 | 96·5 | 79·9 | 103·5 | 74·7 | 88·6 | 91·3 | 86·7 | +1·0 | 73·0 | 75·6 | 77·6 | 75·4 |
| | August | .. | 29·727 | 29·607 | ·120 | 29·676 | 0 | 94·5 | 77·4 | 101·1 | 74·3 | 86·8 | 89·4 | 84·9 | +0·4 | 72·9 | 76·2 | 77·7 | 75·6 |
| | September | .. | 29·735 | 29·614 | ·121 | 29·684 | —·023 | 93·2 | 77·5 | 99·1 | 72·9 | 86·6 | 88·8 | 84·2 | +0·3 | 73·7 | 77·3 | 78·6 | 76·5 |
| | October | .. | 29·797 | 29·689 | ·108 | 29·748 | —·027 | 88·3 | 76·2 | 94·2 | 74·2 | 84·0 | 84·3 | 80·9 | +0·1 | 73·9 | 78·2 | 78·2 | 76·7 |
| | November | .. | 29·916 | 29·822 | ·094 | 29·867 | +·011 | 85·7 | 74·0 | 89·1 | 68·5 | 82·7 | 82·3 | 79·1 | +1·2 | 71·2 | 75·6 | 74·9 | 73·9 |
| | December | .. | 29·918 | 29·822 | ·096 | 29·869 | —·041 | 84·1 | 71·6 | 87·7 | 64·7 | 80·5 | 80·3 | 77·1 | +1·4 | 68·7 | 73·8 | 72·9 | 71·8 |
| | Year | .. | 29·807 | 29·698 | ·109 | 29·756 | —·017 | 91·8 | 76·0 | 110·0 | 63·0 | 86·6 | 86·9 | 82·8 | +1·0 | 71·8 | 75·9 | 76·4 | 74·7 |

# ANNUAL TABLE D-1—*contd.*

*at 13 stations in India, etc., in 1928.*

| Vapour tension in inches of mercury. | | | | | Humidity. | | | | | Cloud. | | | | Wind direction. | | | | | | | | | | | Wind velocity. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | 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. | NE. | E. | SE. | S. | SW. | W. | NW. | Mean wind direction. | Normal mean wind direction. | Mean velocity in miles per diem. | Departure from normal. |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| ·717 | ·750 | ·797 | ·755 | +·089 | 85 | 73 | 70 | 80 | +6 | 5·0 | 4·5 | 4·8 | +1·8 | 15 | 2 | 1 | 1 | 1 | 5 | 28 | 9 | 0 | S 51° W | S 84° W | 72 | +2 |
| ·712 | ·714 | ·781 | ·732 | +·047 | 81 | 65 | 64 | 73 | 0 | 4·0 | 4·0 | 4·0 | +1·4 | 7 | 1 | 1 | 2 | 0 | 3 | 27 | 15 | 2 | S 60° W | S 81° W | 86 | +5 |
| ·773 | ·707 | ·772 | ·751 | —·024 | 82 | 61 | 63 | 73 | —3 | 4·9 | 6·1 | 5·5 | +2·5 | 1 | 12 | 1 | 1 | 0 | 4 | 16 | 20 | 7 | N 86° W | N 87° W | 126 | +30 |
| ·879 | ·925 | ·967 | ·924 | +·096 | 89 | 76 | 78 | 84 | +5 | 9·0 | 8·2 | 8·6 | +3·8 | 3 | 4 | 0 | 3 | 0 | 1 | 3 | 33 | 13 | N 77° W | N 69° W | 140 | +37 |
| ·914 | ·931 | ·945 | ·930 | +·087 | 90 | 76 | 75 | 83 | 0 | 8·5 | 6·8 | 7·7 | +1·6 | 1 | 8 | 1 | 0 | 0 | 0 | 2 | 33 | 22 | N 69° W | N 63° W | 148 | +24 |
| ·826 | ·828 | ·870 | ·852 | +·042 | 87 | 83 | 81 | 86 | 0 | 9·3 | 8·0 | 8·7 | +0·8 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 26 | 27 | N 62° W | N 60° W | 167 | +44 |
| ·800 | ·843 | ·841 | ·828 | +·033 | 90 | 83 | 80 | 87 | 0 | 9·2 | 8·5 | 8·9 | +0·7 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 29 | 24 | N 63° W | N 60° W | 192 | +34 |
| ·753 | ·822 | ·816 | ·797 | +·012 | 91 | 83 | 80 | 88 | +2 | 8·8 | 8·5 | 8·7 | +1·8 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 32 | 17 | N 60° W | N 60° W | 180 | +21 |
| ·781 | ·784 | ·803 | ·789 | +·008 | 89 | 73 | 72 | 81 | —3 | 7·2 | 5·4 | 6·3 | —0·2 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 24 | 24 | N 55° W | N 68° W | 189 | +47 |
| ·788 | ·820 | ·832 | ·814 | +·028 | 90 | 80 | 77 | 85 | 0 | 7·8 | 9·0 | 8·4 | +1·5 | 8 | 7 | 1 | 1 | 0 | 0 | 3 | 29 | 13 | N 69° W | N 69° W | 103 | +15 |
| ·791 | ·848 | ·872 | ·837 | +·056 | 90 | 83 | 83 | 88 | +4 | 7·9 | 9·2 | 8·6 | +2·9 | 20 | 1 | 1 | 0 | 0 | 3 | 21 | 14 | 0 | S 60° W | N 81° W | 47 | —14 |
| ·748 | ·785 | ·818 | ·784 | +·076 | 87 | 77 | 75 | 84 | +6 | 5·7 | 8·7 | 7·2 | +2·9 | 25 | 2 | 0 | 2 | 1 | 1 | 18 | 12 | 1 | S 62° W | N 81° W | 43 | —22 |
| ·790 | ·813 | ·843 | ·816 | +·046 | 88 | 76 | 75 | 83 | +2 | 7·3 | 7·2 | 7·3 | +1·8 | 86 | 66 | 7 | 10 | 2 | 17 | 118 | 276 | 150 | .. | .. | 124 | +19 |
| ·655 | ·703 | ·690 | ·701 | +·016 | 89 | 66 | 65 | 76 | —3 | 5·6 | 4·4 | 5·0 | +0·9 | 4 | 16 | 20 | 12 | 0 | 0 | 1 | 2 | 7 | N 28° E | N 51° E | 113 | +13 |
| ·662 | ·705 | ·687 | ·707 | —·008 | 90 | 64 | 60 | 74 | —4 | 3·6 | 2·4 | 3·0 | —0·2 | 1 | 1 | 6 | 9 | 17 | 13 | 5 | 4 | 2 | S 37° E | S 84° E | 80 | —8 |
| ·659 | ·680 | ·684 | ·697 | —·105 | 87 | 56 | 55 | 70 | —8 | 3·5 | 2·7 | ·1 | +0·9 | 3 | 0 | 8 | 10 | 22 | 9 | 8 | 0 | 2 | S 46° E | S 44° E | 88 | —21 |
| ·838 | ·812 | ·847 | ·854 | —·046 | 87 | 57 | 63 | 72 | —6 | 4·3 | 3·0 | 3·7 | +0·2 | 1 | 0 | 1 | 4 | 28 | 21 | 4 | 1 | 0 | S 26° E | S 36° E | 114 | —19 |
| ·791 | ·741 | ·846 | ·807 | —·089 | 70 | 44 | 56 | 60 | —10 | 2·0 | 3·0 | 2·4 | —1·3 | 1 | 0 | 0 | 1 | 16 | 24 | 12 | 8 | 0 | S 5° W | S 9° E | 259 | +100 |
| ·674 | ·650 | ·753 | ·709 | —·124 | 61 | 41 | 50 | 52 | —14 | 5·3 | 7·1 | 6·2 | 0 | 0 | 0 | 0 | 1 | 10 | 9 | 11 | 27 | 2 | S 51° W | S 37° W | 158 | +4 |
| ·716 | ·710 | ·761 | ·744 | —·068 | 71 | 54 | 53 | 60 | —8 | 7·4 | 8·4 | 7·9 | +0·6 | 2 | 0 | 3 | 2 | 7 | 12 | 9 | 23 | 4 | S 52° W | S 51° W | 130 | —9 |
| ·745 | ·761 | ·788 | ·776 | —·060 | 79 | 60 | 58 | 67 | —6 | 6·4 | 7·4 | 6·9 | 0 | 2 | 0 | 0 | 1 | 3 | 8 | 19 | 27 | 2 | S 60° W | S 36° W | 122 | +1 |
| ·779 | ·808 | ·837 | ·819 | —·029 | 83 | 65 | 62 | 72 | —5 | 6·2 | 6·3 | 6·3 | 0 | 7 | 0 | 0 | 2 | 12 | 9 | 8 | 22 | 0 | S 37° W | S 36° W | 95 | —10 |
| ·805 | ·885 | ·883 | ·873 | +·017 | 89 | 77 | 76 | 83 | 0 | 6·4 | 6·2 | 6·3 | +0·3 | 8 | 1 | 5 | 6 | 4 | 18 | 9 | 6 | 5 | S 10° W | N 54° E | 77 | —7 |
| ·727 | ·792 | ·766 | ·781 | —·015 | 87 | 71 | 70 | 79 | —5 | 6·5 | 6·9 | 6·7 | +0·8 | 4 | 9 | 20 | 12 | 1 | 0 | 0 | 2 | 12 | N 28° E | N 27° E | 118 | +4 |
| ·663 | ·742 | ·711 | ·725 | —·004 | 85 | 71 | 69 | 77 | —5 | 6·5 | 7·4 | 6·9 | +1·4 | 0 | 17 | 21 | 8 | 0 | 0 | 0 | 0 | 16 | N 15° E | N 24° E | 139 | +11 |
| ·726 | ·749 | ·771 | ·766 | —·043 | 81 | 61 | 61 | 70 | —6 | 5·3 | 5·4 | 5·4 | +0·4 | 33 | 44 | 84 | 68 | 120 | 123 | 86 | 122 | 52 | .. | .. | 124 | +5 |

# MONTHLY AND

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

| Station. | Month. | Height of bar-cistern above sea-level in feet. | Pressure. (Reduced to 32°F. and standard gravity.) Mean 10 hrs. | Mean 16 hrs. | Mean daily range. | Mean of daily mean pressure. | Departure from normal. | Temperature of Air. Mean maximum. | Mean minimum. | Highest maximum. | Lowest minimum. | 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. | Vapour inches of. From minimum. | Mean 10 hrs. | Mean 16 hrs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Kodaikanal (Madras). | January | 7,688 | 22·840 | 22·769 | ·071 | 22·805 | .. | 63·2 | 48·1 | 68·3 | 42·9 | 59·4 | 58·8 | 54·6 | .. | 43·0 | 51·5 | 53·4 | 49·1 | ·229 | ·301 | ·353 |
| | February | .. | 22·844 | 22·769 | ·075 | 22·801 | .. | 63·7 | 48·1 | 69·3 | 44·2 | 59·7 | 60·5 | 55·1 | .. | 43·8 | 50·0 | 51·9 | 48·3 | ·247 | ·265 | ·298 |
| | March | .. | 22·832 | 22·761 | ·071 | 22·793 | .. | 69·4 | 47·9 | 74·3 | 45·5 | 64·9 | 63·7 | 58·4 | .. | 43·9 | 51·8 | 53·7 | 49·7 | ·232 | ·256 | ·310 |
| | April | .. | 22·804 | 22·729 | ·075 | 22·769 | .. | 69·8 | 53·1 | 73·1 | 50·0 | 66·4 | 64·3 | 60·4 | .. | 48·3 | 55·8 | 57·7 | 53·8 | ·291 | ·325 | ·407 |
| | May | .. | 22·807 | 22·736 | ·071 | 22·772 | .. | 72·7 | 55·8 | 77·1 | 52·3 | 69·4 | 64·7 | 62·6 | .. | 51·0 | 57·3 | 59·3 | 55·8 | ·325 | ·344 | ·450 |
| | June | .. | 22·714 | 22·653 | ·061 | 22·682 | .. | 65·8 | 53·6 | 72·2 | 50·8 | 62·2 | 60·2 | 58·1 | .. | 49·8 | 56·2 | 57·3 | 54·1 | ·320 | ·390 | ·433 |
| | July | .. | 22·736 | 22·683 | ·053 | 22·712 | .. | 65·2 | 52·4 | 69·7 | 50·2 | 60·3 | 60·2 | 57·1 | .. | 49·2 | 55·1 | 55·8 | 53·1 | ·318 | ·375 | ·404 |
| | August | .. | 22·766 | 22·700 | ·066 | 22·735 | .. | 64·0 | 52·2 | 69·2 | 50·2 | 60·0 | 58·7 | 56·7 | .. | 49·9 | 55·0 | 55·9 | 53·3 | ·335 | ·381 | ·417 |
| | September | .. | 22·773 | 22·703 | ·070 | 22·735 | .. | 66·0 | 52·2 | 71·0 | 50·5 | 62·8 | 60·5 | 57·[illegible] | .. | 48·4 | 56·1 | 56·9 | 53·4 | ·302 | ·380 | ·424 |
| | October | .. | 22·784 | 22·709 | ·075 | 22·746 | .. | 63·7 | 52·3 | 69·2 | 49·5 | 60·6 | 58·5 | 56·7 | .. | 50·4 | 56·8 | 56·7 | 54·4 | ·348 | ·424 | ·440 |
| | November | .. | 22·830 | 22·756 | ·074 | 22·794 | .. | 60·4 | 51·0 | 64·8 | 47·5 | 58·0 | 56·5 | 55·0 | .. | 49·8 | 56·1 | 55·4 | 53·7 | ·348 | ·429 | ·427 |
| | December | .. | 22·799 | 22·732 | ·067 | 22·765 | .. | 61·4 | 48·3 | 68·3 | 42·8 | 58·4 | 56·5 | 53·9 | .. | 45·0 | 52·1 | 53·5 | 50·3 | ·270 | ·322 | ·377 |
| | Year | .. | 22·794 | 22·725 | ·069 | 22·759 | .. | 65·4 | 51·3 | 77·1 | 42·8 | 61·8 | 60·3 | 57·2 | .. | 47·7 | 54·5 | 55·6 | 52·4 | ·297 | ·349 | ·395 |
| Katmandu (Nepal). | January | 4,388 | 25·726 | 25·654 | ·082 | 25·684 | +·042 | 64·5 | 39·1 | 69·4 | 33·1 | 49·1 | 61·3 | 51·0 | +1·4 | (d) 37·4 | 45·6 | 51·9 | 45·0 | (d) ·200 | ·265 | ·281 |
| | February | .. | 25·696 | 25·633 | ·006 | 25·661 | +·058 | 68·1 | 41·6 | 77·6 | 34·9 | 53·6 | 64·1 | 54·7 | +2·2 | ? | 49·6 | 55·2 | ? | ? | ·311 | ·334 |
| | March | .. | 25·647 | 25·569 | ·078 | 25·605 | +·039 | 82·6 | 46·0 | 91·0 | 41·1 | 67·2 | 78·3 | 64·6 | +3·8 | ? | 55·9 | 58·7 | ? | ? | ·320 | ·269 |
| | April | .. | 25·610 | 25·553 | ·057 | 25·580 | +·076 | (e) 86·0 | (c) 54·0 | 94·2 | 45·9 | (c) 74·5 | (c) 81·5 | 70·6 | +3·5 | (f) 51·2 | (e) 60·6 | (c) 62·4 | 58·1 | (f) ·339 | (c) ·372 | (c) ·345 |
| | May | .. | 25·547 | 25·497 | ·050 | 25·518 | +·070 | 86·8 | 61·8 | 93·4 | 55·9 | 76·3 | 82·9 | 74·4 | +3·6 | (u) 58·8 | 66·8 | 67·9 | 64·5 | (u) ·473 | ·549 | ·511 |
| | June | .. | 25·447 | 25·391 | ·056 | 25·415 | +·057 | 84·0 | 67·6 | 91·0 | 61·9 | 78·3 | 79·7 | 75·0 | +1·1 | ? | 70·7 | 71·5 | ? | ? | ·602 | ·679 |
| | July | .. | 25·469 | 25·417 | ·052 | 25·441 | +·096 | (a) 83·6 | (c) 68·4 | 90·2 | 60·9 | (c) 77·6 | (c) 78·8 | (c) 75·6 | +0·5 | ? | (c) 71·3 | (c) 72·4 | ? | ? | (c) ·696 | (c) ·722 |
| | August | .. | 25·492 | 25·437 | ·055 | 25·462 | +·070 | 84·4 | 68·1 | 88·4 | 64·9 | 77·1 | 80·3 | 75·7 | +1·2 | 66·5 | 71·3 | 72·8 | 70·2 | ·631 | ·702 | ·718 |
| | September | .. | 25·542 | 25·483 | ·049 | 25·509 | +·031 | 86·3 | 66·9 | 90·6 | 63·5 | 78·2 | 81·9 | 76·2 | +3·0 | 64·6 | 70·7 | 73·5 | 69·6 | ·589 | ·661 | ·724 |
| | October | .. | 25·641 | 25·577 | ·054 | 25·606 | +·014 | 81·2 | 59·4 | 90·0 | 49·3 | 70·0 | 76·2 | 70·3 | +3·4 | 57·6 | 64·2 | 67·2 | 63·0 | ·457 | ·536 | ·563 |
| | November | .. | 25·707 | 25·640 | ·067 | 25·671 | +·018 | 70·5 | 47·6 | 77·2 | 38·5 | 58·3 | 65·9 | 58·6 | +0·8 | 45·8 | 53·9 | 57·7 | 52·5 | ·293 | ·369 | ·382 |
| | December | .. | 25·709 | 25·646 | ·063 | 25·675 | +·010 | 65·1 | 39·2 | 68·8 | 30·1 | 50·1 | 61·5 | 51·3 | —1·3 | (h) 30·4 | 46·8 | 52·4 | 46·2 | (h) ·222 | ·285 | ·291 |
| | Year | .. | 25·603 | 25·541 | ·061 | 25·569 | +·049 | 78·6 | 55·0 | 94·2 | 30·1 | 67·5 | 74·4 | 66·5 | —0·1 | 51·8* | 60·6 | 63·6 | 58·6† | ·390* | ·477 | ·485 |

(h) Mean of 24 days. (c) Mean of 29 days. (u) Mean of 11 days. (d) Mean of 28 days. * Mean of 7 months. (f) Mean of 26 days. † Mean of 8 months.

# ANNUAL TABLE D-1—*contd.*

*at 13 stations in India, etc., in 1928.*

| Tension in Mercury. | | Humidity. | | | | | Cloud. | | | | Wind direction. | | | | | | | | | | | Wind velocity. | | Rainfall. | | Rainy days. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Total number of 10 hrs. and 16 hrs. winds from | | | | | | | | | | | | | | | |
| 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. | Mean velocity in miles per diem. | Departure from normal. | Rainfall. | Departure from normal. | Actual. |
| 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 |
| ·292 | .. | 66 | 61 | 72 | 68 | .. | 4·1 | 5·6 | 4·9 | .. | 1 | 6 | 12 | 11 | 27 | 3 | 0 | 1 | 1 | S 79° E | .. | 190 | .. | .. | .. | .. |
| ·273 | .. | 73 | 53 | 58 | 64 | .. | 3·4 | 3·8 | 3·6 | .. | 1 | 22 | 7 | 4 | 14 | 1 | 1 | 1 | 7 | N 31° E | .. | 197 | .. | .. | .. | .. |
| ·268 | .. | 63 | 42 | 54 | 55 | .. | 2·4 | 5·0 | 3·7 | .. | 4 | 18 | 17 | 9 | 8 | 1 | 1 | 1 | 3 | N 43° E | .. | 150 | .. | .. | .. | .. |
| ·345 | .. | 72 | 52 | 68 | 66 | .. | 3·9 | 7·0 | 5·4 | .. | 1 | 23 | 21 | 3 | 6 | 2 | 0 | 1 | 3 | N 29° E | .. | 150 | .. | .. | .. | .. |
| ·374 | .. | 73 | 48 | 74 | 66 | .. | 2·8 | 6·8 | 4·8 | .. | 0 | 12 | 17 | 3 | 19 | 4 | 0 | 2 | 5 | N 66° E | .. | 137 | .. | .. | .. | .. |
| ·378 | .. | 78 | 70 | 85 | 78 | .. | 7·4 | 9·2 | 8·3 | .. | 0 | 3 | 1 | 0 | 3 | 3 | 3 | 27 | 20 | N 75° W | .. | 212 | .. | .. | .. | .. |
| ·361 | .. | 81 | 73 | 78 | 77 | .. | 7·1 | 8·6 | 7·8 | .. | 1 | 5 | 1 | 1 | 0 | 0 | 1 | 1 | 22 | N 66° W | .. | 219 | .. | .. | .. | .. |
| ·372 | .. | 86 | 74 | 85 | 81 | .. | 7·7 | 9·1 | 8·4 | .. | 3 | 1 | 0 | 0 | 1 | 0 | 1 | 22 | 34 | N 62° W | .. | 194 | .. | .. | .. | .. |
| ·362 | .. | 77 | 67 | 87 | 76 | .. | 6·5 | 9·2 | 7·9 | .. | 8 | 3 | 6 | 3 | 19 | 1 | 0 | 7 | 13 | N 77° E | .. | 116 | .. | .. | .. | .. |
| ·400 | .. | 88 | 82 | 90 | 87 | .. | 8·0 | 9·4 | 8·7 | .. | 9 | 12 | 5 | 1 | 15 | 9 | 1 | 3 | 7 | N 88° E | .. | 115 | .. | .. | .. | .. |
| ·399 | .. | 94 | 90 | 94 | 93 | .. | 8·5 | 9·4 | 8·9 | .. | 3 | 11 | 16 | 11 | 14 | 2 | 0 | 0 | 3 | N 67° E | .. | 145 | .. | .. | .. | .. |
| ·319 | .. | 78 | 69 | 83 | 77 | .. | 6·5 | 7·4 | 7·0 | .. | 3 | 9 | 13 | 7 | 17 | 3 | 0 | 4 | 6 | N 69° E | .. | 160 | .. | .. | .. | .. |
| ·345 | .. | 77 | 65 | 77 | 74 | .. | 5·7 | 7·5 | 6·6 | .. | 34 | 125 | 116 | 53 | 143 | 29 | 8 | 100 | 124 | .. | .. | 165 | .. | .. | .. | .. |
| ·257 | +·004 | (d) 82 | 76 | 53 | 74 | —3 | 3·4 | 3·2 | 3·3 | —0·1 | 0 | 15 | 3 | 15 | 0 | 6 | 1 | 7 | 15 | N 3° W | N 78° W | 23 | +8 | 0 | —0·99 | 0 |
| ? | ? | ? | 76 | 57 | ? | ? | 3·3 | 4·4 | 3·8 | +0·3 | 0 | 13 | 5 | 9 | 0 | 4 | 1 | 17 | 9 | N 32° W | N 87° W | 23 | +5 | 3·49 | +2·63 | 7 |
| ? | ? | ? | 49 | 28 | ? | ? | 2·4 | 3·4 | 2·9 | —0·4 | 0 | 4 | 0 | 17 | 0 | 4 | 0 | 37 | 0 | W | N 82° W | 8 | +5 | 0·13 | —0·96 | 1 |
| ·345 | —·015 | (f) 79 | (c) 45 | (c) 34 | 53 | —5 | (c) 3·0 | (c) 4·3 | (c) 3·7 | —0·3 | 0 | 7 | 0 | 14 | 2 | 8 | 1 | 26 | 0 | S 74° W | N 87° W | (e) 24 | —2 | 1·47 | —0·47 | 3 |
| ·505 | ? | (a) 89 | 61 | 46 | 65 | —3 | 5·1 | 5·3 | 5·2 | 0 | 0 | 10 | 6 | 15 | 0 | 7 | 2 | 19 | 3 | N 22° W | S 89° W | (b) 25 | —6 | 5·86 | +1·85 | 10 |
| ? | ? | ? | 69 | 68 | ? | ? | 6·5 | 6·8 | 6·7 | +0·5 | 0 | 17 | 5 | 10 | 2 | 5 | 1 | 15 | 5 | N 14° W | N 87° W | 20 | —3 | 9·93 | +0·71 | 19 |
| ? | ? | ? | (c) 74 | (c) 74 | ? | ? | 5·8 | 7·1 | 6·5 | —0·3 | 0 | 13 | 1 | 23 | 3 | 4 | 1 | 13 | 4 | N 43° E | S 63° W | 23 | +8 | 14·83 | —0·08 | 22 |
| ·684 | +·002 | 92 | 76 | 70 | 80 | —2 | 5·8 | 6·1 | 6·0 | —1·1 | 0 | 20 | 1 | 17 | 1 | 5 | 2 | 13 | 3 | N 7° E | N 66° W | 17 | +4 | 19·40 | +4·74 | 23 |
| ·660 | +·027 | 90 | 69 | 67 | 77 | —4 | 5·0 | 5·0 | 5·0 | —1·3 | 0 | 13 | 3 | 12 | 0 | 3 | 4 | 16 | 9 | N 35° W | N 87° W | 44 | +32 | 3·34 | —4·01 | 4 |
| ·517 | +·041 | 90 | 73 | 63 | 63 | +1 | 4·6 | 4·5 | 4·5 | +0·5 | 0 | 13 | 0 | 8 | 2 | 7 | 6 | 18 | 8 | N 72° W | S 86° W | 14 | +2 | 2·78 | +0·49 | 5 |
| ·348 | +·012 | 87 | 75 | 60 | 78 | +3 | 4·0 | 4·7 | 4·3 | +1·7 | 0 | 21 | 1 | 12 | 0 | 2 | 3 | 15 | 6 | N 22° W | N 81° W | 12 | +2 | 0·72 | +0·37 | 4 |
| ·271 | +·003 | (h) 86 | 79 | 54 | 76 | +1 | 3·9 | 3·7 | 3·8 | +1·2 | 0 | 15 | 1 | 14 | 3 | 3 | 7 | 11 | 8 | N 22° W | N 72° W | 17 | +1 | 0·05 | —0·26 | 0 |
| ·448† | +·011* | 87* | 69 | 56 | 72 | —1* | 4·4 | 4·9 | 4·6 | +0·1 | 0 | 161 | 26 | 166 | 13 | 58 | 29 | 207 | 70 | .. | .. | 23 | +4 | 62·00 | +4·22 | 98 |

# MONTHLY AND

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

| Station. | Month. | Height of bar-cistern above sea-level in feet. | Pressure. (Reduced to 32°F. and standard gravity.) Mean 10 hrs. | Mean 16 hrs. | Mean daily range. | Mean of daily mean pressure. | Departure from normal. | Temperature of Air. Mean maximum. | Mean minimum. | Highest maximum. | Lowest minimum. | 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. | Vapour inches of From minimum. | Mean 10 hrs. | Mean 16 hrs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Seychelles (Indian Ocean). | January | 15 | 29·888 | 29·797 | ·091 | 29·853 | +·005 | 84·9 | 75·2 | 88·3 | 72·7 | 81·6 | 81·6 | 78·8 | +0·3 | 72·5 | 76·6 | 76·7 | 75·3 | ·763 | ·853 | ·853 |
| | February | .. | 29·884 | 29·789 | ·095 | 29·844 | —·008 | 84·7 | 76·4 | 88·3 | 74·0 | 82·6 | 82·7 | 79·4 | +0·3 | 73·7 | 77·3 | 77·2 | 76·1 | ·791 | ·871 | ·862 |
| | March | .. | 29·884 | 29·784 | ·100 | 29·839 | +·011 | 85·0 | 74·4 | 89·3 | 70·6 | 82·0 | 82·3 | 78·7 | —0·2 | 72·2 | 77·0 | 77·5 | 75·6 | ·765 | ·859 | ·877 |
| | April | .. | 29·859 | 29·766 | ·093 | 29·815 | —·014 | 88·5 | 75·9 | 90·4 | 73·6 | 85·1 | 83·6 | 80·9 | +1·5 | 73·6 | 78·4 | 78·2 | 76·7 | ·796 | ·882 | ·895 |
| | May | .. | 29·872 | 29·791 | ·081 | 29·833 | —·031 | 86·9 | 75·8 | 89·3 | 73·1 | 83·7 | 83·2 | 79·9 | +0·4 | 73·3 | 78·5 | 78·1 | 76·6 | ·789 | ·907 | ·899 |
| | June | .. | 29·880 | 29·806 | ·074 | 29·845 | —·025 | 83·1 | 75·9 | 85·4 | 71·0 | 81·2 | 82·0 | 78·4 | +0·8 | 71·5 | 76·2 | 75·9 | 74·5 | ·710 | ·840 | ·815 |
| | July | .. | 29·934 | 29·859 | ·075 | 29·897 | —·019 | 80·6 | 74·2 | 82·7 | 70·3 | 78·9 | 79·3 | 76·1 | —0·3 | 70·1 | 74·5 | 74·4 | 73·0 | ·681 | ·795 | ·783 |
| | August | .. | 29·963 | 29·881 | ·082 | 29·925 | +·029 | 80·7 | 74·1 | 83·1 | 70·7 | 79·0 | 79·5 | 75·9 | —0·7 | 68·9 | 73·5 | 73·9 | 72·1 | ·633 | ·753 | ·764 |
| | September | .. | 29·936 | 29·849 | ·087 | 29·900 | —·003 | 81·5 | 75·5 | 86·0 | 72·6 | 79·8 | 80·2 | 77·2 | —0·5 | 69·3 | 74·1 | 74·3 | 72·6 | ·632 | ·766 | ·774 |
| | October | .. | 29·949 | 29·850 | ·099 | 29·911 | +·033 | 82·7 | 74·5 | 85·2 | 71·0 | 80·8 | 81·1 | 77·2 | —0·5 | 69·1 | 74·5 | 74·5 | 72·7 | ·637 | ·772 | ·766 |
| | November | .. | 29·911 | 29·821 | ·090 | 29·879 | +·014 | 83·8 | 74·9 | 86·1 | 72·7 | 81·0 | 81·6 | 78·0 | +0·4 | 70·7 | 76·1 | 76·2 | 74·0 | ·693 | ·837 | ·837 |
| | December | .. | 29·878 | 29·789 | ·089 | 29·844 | —·015 | 82·4 | 74·0 | 87·1 | 72·5 | 79·5 | 79·9 | 77·1 | —0·8 | 70·2 | 75·3 | 75·4 | 73·6 | ·691 | ·821 | ·824 |
| | Year | .. | 29·903 | 29·816 | ·088 | 29·865 | —·002 | 83·7 | 75·1 | 90·4 | 70·3 | 81·3 | 81·4 | 78·1 | 0 | 71·3 | 76·0 | 76·0 | 74·4 | ·715 | ·830 | ·829 |
| Peshawar (N.-W. F. P.). | January | 1,164 | 28·940 | 29·853 | ·087 | 28·888 | +·023 | 61·8 | 42·0 | 72·0 | 35·2 | 53·7 | 59·9 | 50·0 | +0·3 | .. | 45·3 | 48·5 | .. | .. | ·192 | ·191 |
| | February | .. | 28·875 | 29·771 | ·104 | 28·844 | —·004 | 67·7 | 45·6 | 82·8 | 37·0 | 59·5 | 65·5 | 55·5 | +2·2 | .. | 51·4 | 54·6 | .. | .. | ·275 | ·292 |
| | March | .. | 28·777 | 29·682 | ·095 | 28·723 | —·004 | 72·9 | 50·9 | 84·3 | 41·2 | 65·8 | 70·7 | 61·2 | —2·1 | .. | 56·5 | 58·3 | .. | .. | ·338 | ·327 |
| | April | .. | 28·640 | 29·539 | ·101 | 28·582 | —·027 | 89·8 | 61·6 | 98·6 | 50·0 | 81·3 | 87·1 | 75·3 | +1·8 | .. | 65·6 | 68·1 | .. | .. | ·428 | ·438 |
| | May | .. | 28·487 | 29·388 | ·099 | 28·431 | —·030 | 103·2 | 73·7 | 114·0 | 66·0 | 94·6 | 100·2 | 88·2 | +4·2 | .. | 69·3 | 70·9 | .. | .. | ·380 | ·365 |
| | June | .. | 28·305 | 29·199 | ·106 | 28·244 | —·058 | 106·7 | 78·9 | 115·9 | 73·4 | 97·2 | 104·1 | 92·4 | +1·2 | .. | 70·1 | 70·6 | .. | .. | ·373 | ·303 |
| | July | .. | 28·320 | 29·198 | ·122 | 28·255 | —·017 | 104·8 | 82·2 | 114·9 | 76·2 | 95·1 | 102·5 | 92·6 | +2·3 | .. | 74·7 | 76·0 | .. | .. | ·586 | ·543 |
| | August | .. | 28·389 | 28·272 | ·117 | 28·323 | —·019 | 101·8 | 80·7 | 108·1 | 71·0 | 92·8 | 99·7 | 90·3 | +2·7 | .. | 76·5 | 77·6 | .. | .. | ·712 | ·670 |
| | September | .. | 28·542 | 29·440 | ·102 | 28·483 | —·016 | 96·6 | 72·0 | 100·9 | 64·8 | 87·0 | 94·4 | 83·3 | +1·2 | .. | 70·9 | 72·4 | .. | .. | ·546 | ·504 |
| | October | .. | 28·703 | 28·594 | ·109 | 28·638 | —·052 | 92·0 | 61·8 | 97·9 | 57·4 | 82·3 | 89·8 | 75·5 | +4·1 | .. | 63·4 | 66·7 | .. | .. | ·333 | ·347 |
| | November | .. | 28·847 | 28·759 | ·088 | 28·795 | —·020 | 75·5 | 51·3 | 89·3 | 43·9 | 66·1 | 72·3 | 61·4 | +2·3 | .. | 54·3 | 57·6 | .. | .. | ·268 | ·285 |
| | December | .. | 28·929 | 28·842 | ·087 | 28·875 | —·007 | 64·8 | 42·8 | 72·9 | 33·2 | 56·3 | 61·4 | 51·6 | +0·5 | .. | (h) 48·8 | (h) 52·4 | .. | .. | (h) ·246 | (h) ·269 |
| | Year | .. | 28·646 | 28·545 | ·101 | 28·588 | —·019 | 86·5 | 62·0 | 115·9 | 33·2 | 77·8 | 84·0 | 73·1 | +1·7 | .. | 62·2 | 64·5 | .. | .. | ·390 | ·378 |

# ANNUAL TABLE D-1—*contd.*

*at 13 stations in India, etc., in 1928.*

| TENSION IN MERCURY. | | HUMIDITY. | | | | | CLOUD. | | | | WIND DIRECTION. | | | | | | | | | | | WIND VELOCITY. | | RAINFALL. | | RAINY DAYS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Total number of 10 hrs. and 16 hrs. winds from | | | | | | | | | | | | | | | |
| 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. | NE. | E. | SE. | S. | SW. | W. | NW. | Mean wind direction. | Normal mean wind direction. | Mean velocity in miles per diem. | Departure from normal. | Rainfall. | Departure from normal. | Actual. |
| 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 |
| ·841 | +·008 | 87 | 79 | 79 | 85 | +1 | 6·4 | 7·1 | 6·7 | —0·3 | 8 | 8 | 3 | 0 | 1 | 1 | 0 | 6 | 35 | N 40° W | N 39° W | 122 | +15 | 16·72 | —0·37 | 18 |
| ·864 | +·022 | 87 | 78 | 77 | 84 | +1 | 6·9 | 6·9 | 6·9 | +0·4 | 2 | 14 | 10 | 3 | 1 | 1 | 2 | 3 | 22 | N 15° W | N 21° W | 120 | +13 | 14·73 | +2·13 | 11 |
| ·861 | 0 | 89 | 79 | 80 | 87 | +4 | 6·4 | 6·5 | 6·5 | —0·2 | 9 | 15 | 7 | 3 | 3 | 1 | 0 | 8 | 15 | N 17° W | N 17° W | 109 | +23 | 22·77 | +12·36 | 18 |
| ·883 | +·020 | 89 | 73 | 78 | 83 | +3 | 5·3 | 6·4 | 5·9 | +0·8 | 21 | 5 | 10 | 2 | 3 | 4 | 0 | 7 | 7 | N 4° W | N 8° E | 69 | —13 | 14·74 | +7·39 | 13 |
| ·878 | +·032 | 89 | 79 | 79 | 84 | +4 | 6·5 | 7·3 | 6·9 | +1·8 | 13 | 1 | 4 | 19 | 16 | 4 | 1 | 0 | 4 | S 72° E | S 43° E | 123 | +3 | 15·57 | +9·50 | 15 |
| ·804 | +·023 | 80 | 79 | 75 | 80 | +1 | 5·9 | 5·9 | 5·9 | —1·2 | 0 | 1 | 1 | 13 | 22 | 20 | 2 | 0 | 1 | S 38° E | S 27° E | 232 | +44 | 2·76 | —2·04 | 10 |
| ·768 | +·017 | 81 | 80 | 78 | 81 | +3 | 6·5 | 6·5 | 6·5 | +0·9 | 1 | 0 | 0 | 13 | 30 | 15 | 3 | 0 | 0 | S 40° E | S 33° E | 269 | +58 | 4·18 | +1·77 | 8 |
| ·725 | —·022 | 76 | 76 | 75 | 77 | —1 | 5·4 | 5·0 | 5·2 | —1·2 | 0 | 0 | 1 | 25 | 31 | 3 | 2 | 0 | 0 | S 61° E | S 35° E | 291 | +60 | 0·55 | —2·01 | 2 |
| ·731 | —·036 | 72 | 75 | 75 | 76 | —4 | 5·7 | 5·5 | 5·6 | 0 | 0 | 0 | 0 | 19 | 36 | 4 | 1 | 0 | 0 | S 55° E | S 40° E | 294 | +84 | 2·53 | —2·33 | 5 |
| ·738 | —·056 | 75 | 73 | 72 | 75 | —6 | 5·6 | 4·5 | 5·0 | —1·2 | 2 | 0 | 0 | 24 | 24 | 8 | 4 | 0 | 0 | S 54° E | S 39° E | 185 | +46 | 1·83 | —2·95 | 3 |
| ·814 | —·022 | 81 | 79 | 77 | 82 | —1 | 6·8 | 6·6 | 6·7 | —0·2 | 13 | 1 | 1 | 14 | 9 | 10 | 2 | 3 | 7 | S 46° E | S 56° E | 159 | +66 | 10·23 | —0·18 | 15 |
| ·804 | —·028 | 82 | 82 | 81 | 84 | +1 | 7·5 | 7·6 | 7·6 | +0·8 | 10 | 7 | 3 | 2 | 2 | 2 | 1 | 8 | 27 | N 43° W | N 44° W | 177 | +68 | 28·90 | +14·46 | 23 |
| ·809 | —·003 | 82 | 78 | 77 | 81 | 0 | 6·2 | 6·3 | 6·3 | +0·1 | 79 | 52 | 40 | 137 | 178 | 73 | 18 | 35 | 118 | .. | .. | 179 | +39 | 135·51 | +38·23 | 141 |
| .. | .. | .. | 48 | 39 | .. | .. | 7·1 | 7·1 | 7·1 | +2·4 | 32 | 6 | 3 | 4 | 4 | 5 | 3 | 3 | 2 | S 78° E | S 7° W | 36 | —8 | .. | .. | .. |
| .. | .. | .. | 54 | 48 | .. | .. | 5·8 | 6·5 | 6·1 | +1·8 | 19 | 9 | 3 | 7 | 8 | 5 | 2 | 2 | 3 | N 83° E | N 12° W | 44 | —12 | .. | .. | .. |
| .. | .. | .. | 54 | 46 | .. | .. | 5·8 | 6·8 | 6·3 | +1·4 | 13 | 11 | 5 | 7 | 7 | 2 | 3 | 4 | 10 | N 10° E | N 12° E | 53 | —10 | .. | .. | .. |
| .. | .. | .. | 41 | 36 | .. | .. | 3·7 | 5·5 | 4·6 | +0·2 | 23 | 10 | 8 | 6 | 6 | 4 | 0 | 2 | 1 | N 59° E | N 9° E | 66 | —4 | .. | .. | . |
| .. | .. | .. | 25 | 20 | .. | .. | 2·4 | 5·9 | 4·2 | +1·1 | 21 | 6 | 10 | 12 | 6 | 1 | 0 | 2 | 4 | N 60° E | N 16° E | 62 | —18 | .. | .. | .. |
| .. | .. | .. | 21 | 14 | .. | .. | 1·4 | 3·8 | 2·6 | +0·3 | 5 | 5 | 15 | 12 | 7 | 4 | 7 | 1 | 4 | N 77° E | N 36° E | 61 | —16 | .. | .. | .. |
| .. | .. | .. | 36 | 26 | .. | .. | 2·7 | 4·1 | 3·4 | +0·5 | 7 | 8 | 15 | 22 | 4 | 3 | 1 | 0 | 2 | N 68° E | N 48° E | 63 | —9 | .. | .. | .. |
| .. | .. | .. | 46 | 35 | .. | .. | 2·2 | 5·0 | 3·6 | +0·7 | 4 | 6 | 23 | 20 | 5 | 2 | 1 | 1 | 0 | N 67° E | N 39° E | 60 | —3 | .. | .. | .. |
| .. | .. | .. | 43 | 31 | .. | .. | 0·9 | 4·3 | 2·6 | +0·9 | 10 | 8 | 7 | 22 | 3 | 4 | 1 | 1 | 4 | N 70° E | N 36° E | 44 | —5 | .. | .. | .. |
| .. | .. | .. | 30 | 24 | .. | .. | 0·3 | 1·2 | 0·8 | —0·7 | 24 | 12 | 9 | 14 | 2 | 0 | 1 | 0 | 0 | N 53° E | N 54° E | 32 | —8 | .. | .. | .. |
| .. | .. | .. | 45 | 39 | .. | .. | 5·1 | 6·4 | 5·7 | +3·4 | 39 | 0 | 6 | 7 | 0 | 3 | 1 | 0 | 4 | N 65° E | N 72° E | 31 | —4 | .. | .. | .. |
| .. | .. | .. | (h) 55 | (h) 49 | .. | .. | 5·6 | 5·7 | 5·7 | +2·0 | 30 | 2 | 8 | 2 | 7 | 7 | 3 | 0 | 3 | S 63° E | S | 35 | —5 | .. | .. | .. |
| .. | .. | .. | 41 | 34 | .. | .. | 3·6 | 5·2 | 4·4 | +1·2 | 227 | 83 | 112 | 135 | 59 | 40 | 23 | 16 | 37 | .. | .. | 49 | —9 | .. | .. | .. |

(h) Mean of 24 days.

# MONTHLY AND

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

| Station. | Month. | Height of bar-cistern above sea-level in feet. | Pressure. (Reduced to 32°F. and standard gravity.) | | | | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | | | Vapour inches of | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 10 hrs. | Mean 16 hrs. | Mean daily range. | Mean of daily mean pressure. | Departure from normal. | Mean maximum. | Mean minimum. | Highest maximum. | Lowest minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of daily means. | Departure from normal. | Mean minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of three previous columns. | From minimum. | Mean 10 hrs. | Mean 16 hrs. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Quetta (Baluchistan). | January | 5,454 | 24·772 | 24·699 | ·073 | 24·725 | +·054 | 46·2 | 30·2 | 57·2 | 12·5 | 39·7 | 44·0 | 37·5 | −2·1 | .. | (i) 39·6 | (h) 41·8 | .. | .. | (i) ·195 | (h) ·199 |
| | February | .. | 24·750 | 24·671 | ·079 | 24·704 | +·049 | 58·3 | 31·7 | 80·2 | 12·5 | 48·7 | 56·1 | 44·8 | +2·6 | .. | (i) 42·6 | (e) 44·7 | .. | .. | (i) ·152 | (e) ·153 |
| | March | .. | 24·704 | 24·635 | ·069 | 24·662 | +·027 | 62·8 | 38·7 | 73·2 | 19·5 | 54·7 | 59·4 | 51·0 | −1·6 | .. | (d) 45·0 | (b) 46·1 | .. | .. | (d) ·165 | (b) ·154 |
| | April | .. | 24·697 | 24·616 | ·081 | 24·649 | +·042 | 81·3 | 48·7 | 86·5 | 38·5 | 73·9 | 78·7 | 65·6 | +4·7 | .. | 51·1 | 52·4 | .. | .. | ·115 | ·093 |
| | May | .. | 24·640 | 24·573 | ·067 | 24·598 | +·036 | 88·3 | 54·8 | 95·9 | 44·9 | 81·1 | 84·6 | 71·6 | +3·6 | .. | 54·6 | 55·9 | .. | .. | ·152 | ·149 |
| | June | .. | 24·497 | 24·424 | ·073 | 24·454 | +·004 | 95·1 | 60·9 | 99·3 | 53·5 | 87·4 | 93·0 | 77·2 | +3·1 | .. | 58·0 | 58·5 | .. | .. | ·175 | ·133 |
| | July | .. | 24·488 | 24·413 | ·075 | 24·449 | +·050 | 96·0 | 67·3 | 101·5 | 56·5 | 87·0 | 93·0 | 81·3 | +3·0 | .. | 62·3 | 64·1 | .. | .. | ·306 | ·300 |
| | August | .. | 24·543 | 24·453 | ·090 | 24·496 | +·043 | 94·2 | 64·7 | 99·5 | 51·7 | 85·3 | 90·8 | 79·0 | +3·7 | .. | 61·3 | 60·9 | .. | .. | ·332 | ·273 |
| | September | .. | 24·665 | 24·587 | ·078 | 24·618 | +·051 | 86·0 | 49·1 | 92·5 | 37·9 | 76·2 | 83·4 | 67·1 | 0 | .. | 52·2 | 54·7 | .. | .. | ·143 | ·132 |
| | October | .. | 24·771 | 24·687 | ·084 | 24·720 | +·023 | 77·4 | 40·9 | 83·6 | 30·5 | 69·1 | 76·6 | 59·1 | +2·6 | .. | 48·5 | 51·3 | .. | .. | ·105 | ·087 |
| | November | .. | 24·792 | 24·716 | ·086 | 24·744 | +·007 | 63·9 | 35·2 | 74·5 | 24·0 | 55·9 | 62·1 | 49·1 | +1·1 | .. | 42·8 | 45·9 | .. | .. | ·131 | ·127 |
| | December | .. | 24·790 | 24·718 | ·072 | 24·742 | +·020 | 51·5 | 29·2 | 61·7 | 15·9 | 43·4 | 48·6 | 39·5 | −2·8 | .. | (g) 38·4 | (b) 39·8 | .. | .. | (g) ·151 | (b) ·140 |
| | Year | .. | 24·676 | 24·599 | ·077 | 24·630 | +·034 | 75·1 | 45·9 | 101·5 | 12·5 | 66·9 | 72·5 | 60·2 | +1·5 | .. | 49·7 | 51·3 | .. | .. | ·177 | ·162 |

(b) Mean of 30 days. (g) Mean of 25 days. (e) Mean of 27 days. (d) Mean of 28 days. (h) Mean of 24 days. (i) Mean of 23 days.

# ANNUAL TABLE D-1—*concld.*

*at 13 stations in India, etc., in 1928.*

| Tension in mercury. | | Humidity. | | | | | Cloud. | | | | Wind direction. | | | | | | | | | | | Wind velocity. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Total number of 10 hrs. and 16 hrs. winds from | | | | | | | | | | | | |
| 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. | NE. | E. | SE. | S. | SW. | W. | NW. | Mean wind direction. | Normal mean wind direction. | Mean velocity in miles per diem. | Departure from normal. |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| .. | .. | .. | (i) 68 | (h) 61 | .. | .. | 6·5 | 8·0 | 7·3 | +3·2 | 23 | 10 | 1 | 1 | 2 | 5 | 4 | 5 | 11 | N 55° W | N 84° W | 56 | +5 |
| .. | .. | .. | (i) 35 | (e) 36 | .. | .. | 4·1 | 5·8 | 4·9 | +0·7 | 27 | 1 | 0 | 1 | 5 | 4 | 2 | 8 | 10 | S 86° W | N 84° W | 62 | +1 |
| .. | .. | .. | (d) 37 | (b) 32 | .. | .. | 4·8 | 5·9 | 5·3 | +1·2 | 20 | 4 | 1 | 0 | 1 | 8 | 8 | 8 | 12 | S 87° W | S 78° W | 83 | +13 |
| .. | .. | .. | 14 | 10 | .. | .. | 2·8 | 4·0 | 3·4 | +0·1 | 17 | | 2 | 0 | 0 | 8 | 3 | 13 | 15 | N 81° W | N 78° W | 60 | +8 |
| .. | .. | .. | 14 | 14 | .. | .. | 2·7 | 4·7 | 3·7 | +1·8 | 12 | 1 | 0 | 1 | 4 | 9 | 1 | 12 | 22 | N 81° W | N 69° W | 73 | +15 |
| .. | .. | .. | 13 | 9 | .. | .. | 1·1 | 2·3 | 1·7 | +0·6 | 12 | 3 | 1 | 1 | 0 | 2 | 4 | 25 | 12 | N 78° W | N 72° W | 79 | +26 |
| .. | .. | .. | 24 | 20 | .. | .. | 3·4 | 4·9 | 4·1 | +2·4 | 13 | 5 | 3 | 1 | 1 | 4 | 3 | 22 | 10 | N 74° W | S 84° W | 81 | +23 |
| .. | .. | .. | 27 | 19 | .. | .. | 1·3 | 3·0 | 2·1 | +0·6 | 27 | 6 | 0 | 1 | 2 | 4 | 1 | 6 | 15 | N 55° W | N 78° W | 79 | +32 |
| .. | .. | .. | 15 | 11 | .. | .. | 0·3 | 0·8 | 0·5 | 0 | 22 | 7 | 0 | 0 | 1 | 0 | 1 | 13 | 16 | N 55° W | N 60° W | 50 | +11 |
| .. | .. | .. | 15 | 10 | .. | .. | 0·1 | 0·2 | 0·1 | —0·5 | 31 | 5 | 0 | 0 | 0 | 2 | 4 | 8 | 12 | N 66° W | N 60° W | 31 | —3 |
| .. | .. | .. | 31 | 25 | .. | .. | 4·5 | 4·8 | 4·7 | +3·0 | 32 | 4 | 0 | 0 | 0 | 4 | 1 | 5 | 14 | N 60° W | N 51° W | 39 | +4 |
| .. | .. | .. | (g) 49 | (b) 42 | .. | .. | 3·6 | 4·3 | 3·9 | +0·7 | 17 | 8 | 1 | 1 | 8 | 6 | 1 | 7 | 13 | N 60° W | N 63° W | 67 | +27 |
| .. | .. | .. | 29 | 24 | .. | .. | 2·9 | 4·1 | 3·5 | +1·2 | 253 | 56 | 9 | 7 | 24 | 56 | 33 | 132 | 162 | .. | .. | 64 | +13 |

# Table D-2.—Abstract of observations taken at 4 and 14 hrs. (G. M. T.) at 11 Stations in Persia, etc., in the year 1928.

# MONTHLY AND

*Abstract of observations taken at 4 and 14 hrs. (G. M. T.)*

| Station. | Month. | Height of bar-cistern above sea-level in feet. | Pressure. (Reduced to 32° F. and standard gravity.) | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | Vapour-tension in inches of mercury. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean maximum. | Mean minimum. | Highest maximum. | Date. | Lowest minimum. | Date. | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Bahrein | January | .. | 30·094 | 30·053 | 68·4 | (b) 56·6 | 79·1 | 2nd | 48·9 | 29th | 59·6 | 64·1 | 56·8 | 59·4 | ·431 | ·454 |
| | February | .. | ·028 | 29·979 | 71·4 | 55·4 | 83·6 | 24th | 45·4 | 13th | 59·5 | 65·7 | 56·4 | 59·5 | ·422 | ·428 |
| | March | .. | 29·959 | ·899 | 74·9 | 62·0 | 89·7 | 27th | 51·4 | 4th and 5th | 64·8 | 69·8 | 59·7 | 61·8 | ·452 | ·457 |
| | April | .. | ·821 | ·774 | 90·5 | 70·6 | 102·7 | 28th | 62·1 | 19th | 77·1 | 82·6 | 67·9 | 72·2 | ·560 | ·649 |
| | May | .. | ·739 | ·691 | 95·9 | 75·4 | 107·8 | 23rd | 65·9 | 12th | 83·7 | 89·0 | 73·1 | 77·5 | ·679 | ·734 |
| | June | .. | ·518 | ·468 | 98·1 | 81·9 | 105·7 | 19th | 74·7 | 10th | 87·5 | 93·9 | 76·7 | 79·7 | ·788 | ·829 |
| | July | .. | ·475 | ·416 | 101·6 | 84·0 | 110·2 | 21st | 78·0 | 6th | 90·1 | 97·5 | 79·8 | 84·2 | ·888 | 1·447 |
| | August | .. | ·534 | ·488 | 101·5 | 81·4 | 110·9 | 4th | 75·3 | 26th | 87·4 | 96·3 | 79·1 | 81·6 | ·891 | ·849 |
| | September | .. | ·703 | ·643 | 98·3 | 79·0 | 101·8 | 16th | 73·0 | 30th | 86·1 | 93·5 | 78·9 | 81·4 | ·876 | ·901 |
| | October | .. | ·870 | ·811 | 90·9 | 73·4 | 98·7 | 8th and 14th | 67·3 | 24th | 79·9 | 86·9 | 74·4 | 76·4 | ·782 | ·768 |
| | November | .. | 30·020 | ·964 | 79·0 | 68·7 | 93·8 | 2nd | 60·9 | 29th and 30th | 72·2 | 75·3 | 65·8 | 67·9 | ·571 | ·566 |
| | December | .. | ·073 | 30·038 | 71·0 | 57·0 | 81·5 | 8th | 51·1 | 16th | 59·4 | 67·5 | 56·3 | 59·8 | ·407 | ·420 |
| | Year | .. | 29·820 | 29·768 | 86·8 | 70·5 | 110·9 | 4th Aug. | 45·4 | 13th Feb. | 75·6 | 81·8 | 68·4 | 70·9 | ·645 | ·709 |
| Bushire | January | 14 | 30·091 | 30·054 | 62·6 | 52·1 | 73·9 | 4th | 43·8 | 8th | 55·2 | 60·5 | 52·6 | 56·1 | ·366 | ·397 |
| | February | .. | ·019 | 29·973 | 67·2 | 54·0 | 79·9 | 23rd | 44·8 | 12th | 58·4 | 65·0 | 54·3 | 58·8 | ·373 | ·424 |
| | March | .. | 29·953 | ·894 | 71·7 | 57·1 | 87·1 | 16th | 42·2 | 4th | 61·7 | 69·3 | 57·4 | 63·1 | ·428 | ·517 |
| | April | .. | ·806 | ·757 | 85·9 | 71·9 | 100·3 | 28th | 61·8 | 19th | 77·5 | 82·1 | 68·2 | 72·2 | ·571 | ·652 |
| | May | .. | ·721 | ·666 | 89·9 | 77·6 | 101·3 | 22nd | 70·2 | 11th | 83·3 | 87·4 | 72·1 | 76·0 | ·642 | ·745 |
| | June | .. | ·497 | ·446 | 92·1 | 82·0 | 99·5 | 26th | 74·3 | 11th | 86·2 | 90·0 | 76·5 | 80·6 | ·785 | ·890 |
| | July | .. | ·447 | ·399 | 96·4 | 86·5 | 99·5 | 10th | 80·4 | 8th | 90·7 | 94·5 | 82·8 | 86·3 | 1·020 | 1·140 |
| | August | .. | ·511 | ·477 | 94·7 | 83·4 | 101·9 | 10th | 78·2 | 17th | 87·4 | 92·9 | 82·5 | 85·8 | 1·016 | 1·137 |
| | September | .. | ·681 | ·636 | 94·2 | 83·5 | 98·9 | 8th | 80·0 | 29th | 85·1 | 91·6 | 80·2 | 86·0 | ·851 | 1·167 |
| | October | .. | ·855 | ·810 | 88·3 | 77·8 | 96·9 | 31st | 72·0 | 23rd and 24th | 78·4 | 85·2 | 70·8 | 79·6 | ·660 | ·946 |
| | November | .. | 30·025 | 29·998 | 74·3 | 62·7 | 92·5 | 1st | 50·2 | 30th | 66·6 | 71·8 | 62·5 | 66·9 | ·495 | ·581 |
| | December | .. | ·091 | 30·062 | 68·4 | 53·7 | 77·5 | 5th | 46·0 | 13th and 14th | 56·5 | 65·5 | 54·1 | 61·0 | ·382 | ·477 |
| | Year | .. | 29·891 | 29·764 | 82·1 | 70·2 | 101·9 | 10th Aug. | 42·2 | 4th Mar. | 73·9 | 79·7 | 67·8 | 72·7 | ·632 | ·756 |

(b) Mean of 30 days.

# ANNUAL TABLE D-2.

*at 11 stations in Persia, etc., in 1928.*

| Humidity. | | Cloud. | | Wind Direction. | | | | | | | | | | Wind Velocity. | Rainfall. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total number of 4 and 14 hrs. (G. M. T.) winds from | | | | | | | | | | | | | | |
| Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Calm. | N | NE | E | SE | S | SW | W | NW | Mean wind direction. | Mean daily velocity in miles per hr. | Total rainfall. | Number of rainy days. | Heaviest rainfall. | Date. |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 83 | 75 | 5·9 | 5·7 | 13 | 14 | 3 | 4 | 5 | 2 | 0 | 7 | 14 | N 20° W | (d)4·2 | 0·15 | 0 | 0·04 | 21st |
| 81 | 68 | 2·9 | 2·8 | 7 | 18 | 2 | 5 | 10 | 2 | 2 | 2 | 10 | N 10° E | 5·4 | 0 | 0 | 0 | .. |
| 71 | 61 | 5·0 | 4·6 | 6 | 15 | 4 | 10 | 8 | 1 | 2 | 1 | 15 | N 15° E | (c)4·8 | 0·15 | 0 | 0·07 | 15th |
| 60 | 57 | 3·3 | 4·4 | 12 | 13 | 3 | 11 | 3 | 0 | 2 | 5 | 11 | N 3° E | (g)3·5 | 0 | 0 | 0 | .. |
| 58 | 59 | 2·6 | 2·9 | 5 | 12 | 5 | 4 | 1 | 1 | 3 | 11 | 20 | N 37° W | 4·0 | 0 | 0 | 0 | .. |
| 60 | 52 | 0·7 | 0·2 | 6 | 19 | 3 | 2 | 0 | 0 | 1 | 8 | 21 | N 29° W | 4·8 | 0 | 0 | 0 | .. |
| 63 | 56 | 0·8 | 0·1 | 13 | 25 | 4 | 2 | 0 | 0 | 1 | 9 | 8 | N 18° W | 2·8 | 0 | 0 | 0 | .. |
| 69 | 50 | 0·1 | 0·1 | 29 | 11 | 6 | 3 | 1 | 0 | 0 | 0 | 12 | N 1° W | 2·5 | 0 | 0 | 0 | .. |
| 72 | 58 | 0·1 | 0·1 | 28 | 10 | 6 | 9 | 0 | 0 | 1 | 3 | 3 | N 26° E | 1·6 | 0 | 0 | 0 | .. |
| 76 | 59 | 1·2 | 0·3 | 35 | 15 | 6 | 2 | 0 | 0 | 0 | 0 | 4 | N 8° E | 1·5 | 0 | 0 | 0 | .. |
| 72 | 64 | 0 | 3·8 | 19 | 15 | 3 | 3 | 2 | 1 | 0 | 2 | 15 | N 13° W | 4·3 | 2·76 | 1 | 2·76 | 4th |
| 77 | 62 | 3·2 | 3·2 | 20 | 3 | 1 | 3 | 8 | 3 | 1 | 8 | 15 | N 62° W | (x)3·7 | 0·78 | 1 | 0·78 | 9th |
| 70 | 61 | 2·1 | 2·3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | (*)3·2 | 3·84 | 2 | 2·76 | 4th Nov |
| 83 | 75 | 4·9 | 5·2 | 12 | 6 | 5 | 8 | 8 | 2 | 0 | 1 | 20 | N 8° E | 5·9 | 4·52 | 9 | 1·13 | 22nd |
| 77 | 69 | 3·4 | 3·3 | 4 | 8 | 3 | 7 | 6 | 10 | 1 | 2 | 17 | N 12° W | 7·8 | 0·11 | 0 | 0·07 | 22nd |
| 74 | 72 | 2·2 | 2·3 | 9 | 10 | 6 | 1 | 4 | 7 | 1 | 5 | 19 | N 33° W | 9·2 | 0·05 | 0 | 0·03 | 21st |
| 61 | 62 | 2·5 | 2·9 | 8 | 5 | 5 | 4 | 2 | 6 | 5 | 10 | 15 | N 61° W | 7·4 | 0 | 0 | 0 | .. |
| 57 | 58 | 0·9 | 1·7 | 8 | 4 | 2 | 7 | 1 | 3 | 4 | 12 | 21 | N 56° W | 8·6 | 0 | 0 | 0 | .. |
| 63 | 63 | 0·9 | 0·6 | 6 | 1 | 4 | 1 | 1 | 1 | 2 | 11 | 33 | N 52° W | 9·9 | 0 | 0 | 0 | .. |
| 71 | 71 | 0·3 | 0·2 | 7 | 9 | 1 | 5 | 0 | 1 | 2 | 21 | 16 | N 56° W | 7·2 | 0 | 0 | 0 | .. |
| 78 | 73 | 0 | 0·1 | 9 | 8 | 0 | 7 | 0 | 7 | 0 | 23 | 8 | N 73° W | 6·0 | 0 | 0 | 0 | .. |
| 73 | 79 | 0·5 | 0 | 9 | 4 | 0 | 16 | 1 | 10 | 2 | 13 | 5 | S 15° W | 5·1 | 0 | 0 | 0 | .. |
| 68 | 77 | 0 | 0 | 14 | 11 | 0 | 8 | 1 | 1 | 1 | 3 | 23 | N 24° W | 5·6 | 0 | 0 | 0 | .. |
| 68 | 73 | 3·9 | 4·2 | 18 | 9 | 4 | 6 | 4 | 1 | 1 | 0 | 17 | N 3° W | 5·8 | 2·63 | 5 | 0·65 | 5th |
| 81 | 74 | 2·0 | 2·5 | 18 | 7 | 6 | 12 | 2 | 4 | 0 | 1 | 12 | N 30° E | 5·5 | 1·23 | 4 | 0·68 | 10th |
| 71 | 71 | 1·8 | 1·9 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7·0 | 8·54 | 18 | 1·13 | 22nd Jan. |

(c) Mean of 29 days. (d) Mean of 28 days. (g) Mean of 25 days. (x) Mean of 8 days. * Mean of 11 months.

# MONTHLY AND

*Abstract of observations taken at 4 and 14 hrs. (G. M. T.)*

| Station. | Month. | Height of barcistern above sea-level in feet. | Pressure. (Reduced to 32° F. and standard gravity.) | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | Vapour-tension in inches of mercury. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean maximum. | Mean minimum. | Highest maximum. | Date. | Lowest minimum. | Date. | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Lingeh | January | .. | 30·043 | 29·996 | 70·8 | 56·5 | 78·5 | 5th | 46·1 | 30th | 60·1 | 65·6 | 57·7 | 61·4 | ·454 | ·499 |
| | February | .. | 29·992 | ·927 | 73·6 | 55·0 | 82·5 | 29th | 46·3 | 13th | 60·2 | 68·7 | 56·8 | 62·3 | ·428 | ·487 |
| | March | .. | ·877 | ·818 | 80·3 | 62·2 | 91·7 | 22nd | 49·1 | 5th | 69·5 | 75·1 | 61·5 | 63·9 | ·468 | ·454 |
| | April | .. | ·751 | ·687 | 91·1 | 70·0 | 104·2 | 8th | 60·2 | 20th | 79·9 | 84·9 | 73·8 | 73·7 | ·754 | ·675 |
| | May | .. | ·659 | ·588 | 93·6 | 73·0 | 104·2 | 18th | 66·7 | 6th | 83·2 | 89·1 | 78·3 | 78·6 | ·907 | ·841 |
| | June | .. | ·441 | ·366 | 97·0 | 80·1 | 105·5 | 26th | 74·3 | 17th | 85·2 | 94·5 | 82·4 | 81·0 | 1·025 | ·878 |
| | July | .. | ·422 | ·337 | 99·8 | 85·5 | 105·4 | 12th | 79·1 | 16th | 91·7 | 97·3 | 85·8 | 83·0 | 1·157 | ·934 |
| | August | .. | ·489 | ·421 | 97·1 | 85·3 | 100·1 | 29th | 79·7 | 10th | 90·6 | 94·3 | 84·8 | 86·5 | 1·118 | 1·023 |
| | September | .. | ·674 | ·642 | 95·2 | 79·5 | 100·0 | 1st | 73·2 | 30th | 88·9 | 92·3 | 82·7 | 83·1 | 1·046 | 1·010 |
| | October | .. | ·811 | ·748 | 91·7 | 73·7 | 101·5 | 6th | 70·2 | 21st | 83·1 | 87·1 | 75·4 | 77·9 | ·789 | ·809 |
| | November | .. | 29·948 | ·893 | 82·9 | 64·2 | 90·0 | 25th | 55·6 | 18th | 71·5 | 77·3 | 65·6 | 71·6 | ·560 | ·715 |
| | December | .. | 30·026 | ·977 | 72·9 | 56·3 | 80·3 | 2nd | 47·2 | 13th | 59·7 | 68·5 | 47·9 | 63·2 | ·418 | ·514 |
| | Year | .. | 29·761 | 29·700 | 87·1 | 70·1 | 105·5 | 26th June | 46·1 | 30th Jan. | 77·9 | 82·9 | 71·1 | 73·9 | ·760 | ·737 |
| Henjam | January | 115 | 29·996 | 29·939 | 70·0 | 60·5 | 76·7 | 17th | 47·6 | 28th | 62·7 | 66·2 | 60·7 | 59·5 | ·417 | ·431 |
| | February | .. | ·938 | ·886 | 73·7 | 60·2 | 84·9 | 28th | 49·5 | 11th | 63·5 | 68·4 | 60·1 | 62·3 | ·488 | ·488 |
| | March | .. | ·829 | ·767 | 79·6 | 65·8 | 89·4 | 18th | 47·0 | 3rd | 70·2 | 73·7 | 64·9 | 65·8 | ·556 | ·536 |
| | April | .. | ·713 | ·641 | 88·3 | 72·0 | 98·7 | 6th | 60·0 | 15th | 77·8 | 81·3 | 74·0 | 73·9 | ·797 | ·744 |
| | May | .. | ·620 | ·542 | 90·9 | 76·3 | 95·2 | 1st | 71·5 | 15th | 82·5 | 84·5 | 78·5 | 78·8 | ·912 | ·912 |
| | June | .. | ·398 | ·323 | 95·6 | 80·3 | 107·2 | 26th | 66·0 | 1st | 87·7 | 89·3 | 84·4 | 84·8 | 1·137 | 1·138 |
| | July | .. | ·385 | ·285 | 99·4 | 85·3 | 107·2 | 11th | 83·0 | 2nd and 15th | 90·5 | 93·2 | 85·3 | 85·0 | 1·147 | 1·104 |
| | August | .. | ·453 | ·376 | 96·5 | 85·2 | 105·2 | 3rd | 82·8 | 11th | 89·7 | 91·3 | 85·6 | 84·9 | 1·121 | 1·121 |
| | September | .. | ·634 | ·553 | 95·3 | 81·6 | 100·7 | 10th | 79·0 | 3rd | 86·9 | 89·3 | 83·5 | 84·5 | 1·099 | 1·124 |
| | October | .. | ·771 | ·703 | 90·9 | 80·2 | 98·2 | 10th | 73·5 | 26th | 83·2 | 85·0 | 80·1 | 81·9 | ·993 | 1·055 |
| | November | .. | ·909 | ·849 | 83·0 | 69·2 | 91·2 | 1st | 60·5 | 17th and 28th | 73·7 | 77·8 | 67·7 | 69·1 | ·612 | ·609 |
| | December | .. | ·983 | ·935 | 74·3 | 60·9 | 80·2 | 8th | 56·5 | 13th | 64·2 | 69·9 | 59·5 | 62·0 | ·449 | ·464 |
| | Year | .. | 29·718 | 29·650 | 86·5 | 73·1 | 107·2 | 26th June and 11th July. | 47·0 | 3rd Mar. | 77·7 | 80·8 | 73·7 | 74·4 | ·810 | ·811 |

# ANNUAL TABLE D-2—*contd.*

*at 11 stations in Persia, etc., in 1928*—contd.

| Humidity. | | Cloud. | | Wind Direction. | | | | | | | | | | Wind velocity. | Rainfall. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total number of 4 and 14 hrs. (G. M. T.) winds from | | | | | | | | | | | | | | |
| Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Calm. | N | NE | E | SE | S | SW | W | NW | Mean wind direction. | Mean daily velocity in miles per hr. | Total rainfall. | Number of rainy days. | Heaviest rainfall. | Date. |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 86 | 78 | 6·6 | 5·5 | 15 | 2 | 4 | 15 | 1 | 0 | 0 | 11 | 14 | N 9° W | 5·4 | 1·63 | 1 | 1·60 | 11th |
| 80 | 68 | 2·2 | 2·8 | 8 | 3 | 3 | 13 | 1 | 3 | 8 | 12 | 7 | N 85° W | 5·6 | 0 | 0 | 0 | .. |
| 63 | 52 | 4·3 | 3·5 | 7 | 3 | 3 | 8 | 5 | 0 | 9 | 21 | 6 | S 88° W | 6·3 | 0·09 | 0 | 0·09 | 12th |
| 74 | 56 | 2·2 | 3·1 | 3 | 1 | 1 | 14 | 7 | 3 | 7 | 21 | 3 | S 43° W | 6·3 | 0 | 0 | 0 | .. |
| 80 | 62 | 1·4 | 1·3 | 1 | 2 | 1 | 10 | 11 | 1 | 4 | 29 | 3 | S 66° W | 6·5 | 0 | 0 | 0 | .. |
| 76 | 56 | 1·2 | 0·4 | 7 | 0 | 1 | 13 | 12 | 6 | 3 | 18 | 0 | S 7° E | 6·3 | 0 | 0 | 0 | .. |
| 78 | 54 | 1·4 | 0·5 | 3 | 0 | 0 | 22 | 7 | 7 | 4 | 19 | 0 | S 19° E | 6·1 | 0 | 0 | 0 | .. |
| 78 | 65 | 2·7 | 1·3 | 7 | 1 | 0 | 21 | 5 | 9 | 5 | 14 | 0 | S 26° E | 6·7 | 0 | 0 | 0 | .. |
| 79 | 67 | 0·8 | 0·3 | 5 | 1 | 0 | 24 | 2 | 3 | 0 | 24 | 1 | S 15° E | 6·0 | 0 | 0 | 0 | .. |
| 69 | 63 | 1·1 | 0·3 | 6 | 4 | 6 | 18 | 0 | 0 | 4 | 22 | 2 | N 31° W | 5·9 | 0 | 0 | 0 | .. |
| 72 | 78 | 2·3 | 2·7 | 13 | 8 | 8 | 5 | 4 | 0 | 3 | 15 | 4 | N 31° W | 6·2 | 0 | 0 | 0 | .. |
| 79 | 73 | 2·3 | 1·0 | 16 | 15 | 4 | 6 | 0 | 1 | 1 | 15 | 4 | N 27° W | 5·5 | 0·86 | 1 | 0·86 | 10th |
| 76 | 64 | 2·4 | 2·0 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6·1 | 2·58 | 2 | 1·60 | 11th Jan. |
| 72 | 68 | 6·7 | 4·3 | 0 | 13 | 20 | 5 | 0 | 1 | 15 | 4 | 4 | N 6° E | 8·6 | 0·61 | 1 | 0·53 | 11th |
| 80 | 69 | 1·5 | 8·7 | 1 | 8 | 17 | 6 | 0 | 0 | 15 | 11 | 0 | N 22° W | 7·7 | 0 | 0 | 0 | .. |
| 74 | 63 | 1·7 | 2·6 | 1 | 8 | 12 | 1 | 1 | 4 | 8 | 25 | 2 | N 71° W | 7·0 | 0 | 0 | 0 | .. |
| 83 | 70 | 2·0 | 2·6 | 6 | 3 | 6 | 3 | 1 | 1 | 8 | 28 | 4 | N 85° W | 6·8 | 0 | 0 | 0 | .. |
| 83 | 77 | 2·0 | 1·5 | 3 | 3 | 4 | 0 | 1 | 0 | 14 | 33 | 4 | S 88° W | 8·4 | 0 | 0 | 0 | .. |
| 87 | 80 | 1·3 | 0·1 | 3 | 1 | 9 | 2 | 3 | 2 | 10 | 23 | 7 | N 88° W | 7·6 | 0 | 0 | 0 | .. |
| 80 | 71 | 1·3 | 1·4 | 5 | 0 | 21 | 7 | 2 | 3 | 4 | 19 | 1 | N 4° E | 6·5 | 0 | 0 | 0 | .. |
| 81 | 77 | 1·6 | 1·1 | 4 | 0 | 13 | 7 | 12 | 1 | 6 | 15 | 4 | S 53° E | 6·5 | 0 | 0 | 0 | .. |
| 86 | 83 | 0·9 | 0·2 | 8 | 0 | 20 | 4 | 4 | 0 | 3 | 16 | 5 | N 4° W | 6·5 | 0 | 0 | 0 | .. |
| 87 | 86 | 0·8 | 0·3 | 7 | 1 | 22 | 2 | 1 | 1 | 4 | 23 | 1 | N 34° W | 6·5 | 0 | 0 | 0 | .. |
| 72 | 64 | 2·1 | 1·5 | 0 | 6 | 20 | 6 | 2 | 1 | 7 | 13 | 5 | N | 5·6 | 0·04 | 0 | 0·04 | 27th |
| 73 | 62 | 2·1 | 1·4 | 3 | 7 | 14 | 2 | 3 | 1 | 10 | 13 | 9 | N 44° W | 6·0 | 1·07 | 1 | 1·07 | 10th |
| 79 | 73 | 2·0 | 2·1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7·0 | 1·72 | 2 | 1·07 | 13th Dec. |

# MONTHLY AND

*Abstract of observations taken at 4 and 14 hrs. (G. M. T.)*

| Station. | Month. | Height of bar-cistern above sea-level in feet. | Pressure. (Reduced to 32° F. and standard gravity.) | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | Vapour-tension in inches of mercury. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean maximum. | Mean minimum. | Highest maximum. | Date. | Lowest minimum. | Date. | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs (G. M. T.) | Mean 14 hrs. G.M.T.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Jask | January | 13 | 30·078 | 30·016 | 74·9 | 62·1 | 80·3 | 18th | 49·8 | 28th | 64·7 | 69·8 | 58·1 | 60·9 | ·407 | ·424 |
| | February | .. | ·020 | 29·949 | 76·8 | 61·5 | 84·6 | 26th | 52·1 | 12th | 65·7 | 72·0 | 59·1 | 64·2 | ·426 | ·499 |
| | March | .. | 29·898 | ·840 | 82·8 | 67·8 | 92·5 | 18th | 55·0 | 5th | 72·3 | 77·9 | 65·0 | 68·2 | ·533 | ·569 |
| | April | .. | ·756 | ·709 | 89·0 | 72·8 | 95·5 | 9th | 67·5 | 21st | 78·9 | 85·1 | 71·2 | 74·9 | ·688 | ·733 |
| | May | .. | ·668 | ·603 | 92·4 | 77·0 | 100·7 | 31st | 72·7 | 16th | 82·3 | 88·8 | 74·5 | 77·7 | 724 | ·799 |
| | June | .. | ·469 | ·393 | 96·2 | 83·1 | 102·0 | 24th | 78·7 | 21st | 87·8 | 92·8 | 81·1 | 83·3 | ·975 | 1·042 |
| | July | .. | ·472 | ·387 | 95·7 | 83·9 | 104·3 | 25th | 80·1 | 29th | 88·0 | 91·8 | 82·2 | 83·5 | 1·001 | 1·036 |
| | August | .. | ·557 | ·484 | 91·7 | 82·0 | 99·9 | 30th | 78·7 | 17th | 84·7 | 88·5 | 78·6 | 80·3 | ·903 | ·931 |
| | September | .. | ·714 | ·645 | 93·2 | 79·4 | 102·6 | 18th | 76·3 | 21st | 83·5 | 88·6 | 74·5 | 79·8 | ·746 | ·898 |
| | October | .. | ·776 | ·774 | 90·5 | 75·9 | 96·8 | 7th | 71·8 | 29th | 80·9 | 85·0 | 74·9 | 77·6 | ·792 | ·860 |
| | November | .. | ·981 | ·921 | 84·5 | 69·5 | 89·5 | 3rd | 61·5 | 30th | 73·6 | 78·3 | 65·0 | 69·7 | ·530 | ·619 |
| | December | .. | 30·058 | 30·010 | 76·6 | 61·9 | 80·4 | 2nd | 53·8 | 13th | 65·5 | 71·2 | 59·5 | 62·4 | ·448 | ·469 |
| | Year | .. | 29·787 | 29·728 | 87·0 | 73·1 | 104·3 | 25th July | 49·8 | 28th Jan. | 77·3 | 83·3 | 70·3 | 73·5 | ·681 | ·740 |
| Muscat | January | 20 | 30·058 | 30·003 | 78·3 | 66·9 | 86·1 | 18th | 57·1 | 29th | 68·6 | 72·3 | 63·1 | 64·8 | ·508 | ·518 |
| | February | .. | ·011 | 29·947 | 78·7 | 64·9 | 89·9 | 26th | 53·0 | 3rd | 66·4 | 73·0 | 61·3 | 63·9 | ·481 | ·478 |
| | March | .. | 29·889 | ·836 | 84·4 | 72·2 | 98·2 | 21st | 63·0 | 6th | 75·5 | 79·3 | 66·4 | 79·0 | ·533 | ·580 |
| | April | .. | ·764 | ·709 | 90·5 | 80·8 | 102·8 | 8th | 74·4 | 3rd | 85·3 | 87·6 | 72·3 | 74·6 | ·621 | ·689 |
| | May | .. | ·670 | ·650 | 98·8 | 84·3 | 106·3 | 31st | 78·0 | 6th | 90·7 | 90·7 | 74·7 | 76·5 | ·648 | ·722 |
| | June | .. | ·476 | ·412 | 96·8 | 84·8 | 109·3 | 15th | 78·0 | 22nd | 89·2 | 89·6 | 80·5 | 81·9 | ·899 | ·987 |
| | July | .. | ·483 | ·421 | 92·6 | 82·1 | 105·2 | 10th | 78·0 | 14th | 84·9 | 86·3 | 80·0 | 81·2 | ·967 | ·989 |
| | August | .. | ·562 | ·515 | 88·0 | 79·6 | 104·7 | 29th | 74·6 | 6th | 81·5 | 83·4 | 77·1 | 78·5 | ·875 | ·910 |
| | September | .. | ·725 | ·676 | 94·4 | 80·5 | 101·0 | 1st | 76·4 | 21st | 82·3 | 88·1 | 75·3 | 78·7 | ·784 | ·852 |
| | October | .. | ·848 | ·809 | 92·8 | 78·8 | 101·7 | 6th | 71·6 | 18th | 80·2 | 86·8 | 71·6 | 76·6 | ·664 | ·795 |
| | November | .. | ·999 | ·935 | 86·0 | 72·6 | 94·4 | 3rd | 66·5 | 30th | 74·8 | 81·0 | 68·3 | 71·6 | ·611 | ·639 |
| | December | .. | 30·069 | 30·026 | 78·6 | 65·9 | 90·8 | 10th | 62·3 | 31st | 66·8 | 72·8 | 60·9 | 64·5 | ·455 | ·500 |
| | Year | .. | 29·796 | 29·745 | 88·3 | 76·1 | 109·3 | 15th June | 53·0 | 3rd Feb. | 78·9 | 82·6 | 70·9 | 73·5 | ·671 | ·721 |

# ANNUAL TABLE D-2—*contd.*

*at 11 stations in Persia, etc., in 1928* —contd.

| Humidity. | | Cloud. | | Wind Direction. | | | | | | | | | | Wind Velocity. | Rainfall. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total number of 4 and 14 hrs. (G. M. T.) winds from | | | | | | | | | | | | | | |
| Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Calm. | N | NE | E | SE | S | SW | W | NW | Mean wind direction. | Mean daily velocity in miles per hr. | Total rainfall. | Number of rainy days. | Heaviest rainfall. | Date. |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 64 | 57 | 5·4 | 2·5 | 6 | 2 | 24 | 5 | 6 | 1 | 2 | 3 | 13 | N 31° E | 7·3 | 0·84 | 1 | 0·84 | 11th |
| 65 | 62 | 1·2 | 0·5 | 9 | 2 | 11 | 5 | 2 | 5 | 1 | 2 | 21 | N 11° W | 9·4 | 0 | 0 | 0 | .. |
| 65 | 59 | 1·5 | 2·3 | 14 | 5 | 0 | 4 | 1 | 3 | 8 | 7 | 20 | N 65° W | 8·4 | 0·10 | 1 | 0·10 | 8th |
| 68 | 61 | 0·2 | 1·7 | 4 | 4 | 0 | 6 | 5 | 3 | 1 | 7 | 30 | N 47° W | 7·6 | 0 | 0 | 0 | .. |
| 68 | 60 | 1·1 | 1·6 | 1 | 3 | 1 | 8 | 2 | 5 | 12 | 12 | 18 | N 87° W | 8·0 | 0 | 0 | 0 | .. |
| 74 | 67 | 0·9 | 0·5 | 4 | 1 | 0 | 17 | 6 | 8 | 11 | 7 | 6 | S 9° E | 9·2 | 0 | 0 | 0 | .. |
| 75 | 70 | 0·8 | 0·2 | 2 | 0 | 0 | 21 | 18 | 7 | 6 | 1 | 7 | S 51° W | 10·8 | 0 | 0 | 0 | .. |
| 75 | 70 | 3·3 | 0·2 | 1 | 0 | 1 | 24 | 18 | 5 | 7 | 1 | 5 | S 56° E | 4·7 | 0 | 0 | 0 | .. |
| 66 | 67 | 0·3 | 0·1 | 1 | 7 | 0 | 19 | 5 | 7 | 5 | 8 | 8 | S 75° E | 8·3 | 0 | 0 | 0 | .. |
| 75 | 70 | 0 | 0 | 3 | 1 | 4 | 19 | 10 | 4 | 5 | 4 | 12 | S 81° E | 7·8 | 0 | 0 | 0 | .. |
| 62 | 63 | 2·4 | 1·3 | 2 | 6 | 11 | 6 | 1 | 3 | 10 | 4 | 17 | N 30° W | 8·2 | 0 | 0 | 0 | .. |
| 66 | 61 | 1·3 | 0·8 | 3 | 4 | 14 | 5 | 5 | 3 | 4 | 4 | 20 | N 8° W | 8·8 | 1·21 | 2 | 1·05 | 10th |
| 68 | 64 | 1·5 | 1·0 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 8·4 | 2·15 | 4 | 1·05 | 10th Dec. |
| 72 | 65 | 4·5 | 4·8 | 21 | 0 | 0 | 3 | 22 | 1 | 0 | 0 | 15 | S 52° E | 4·4 | 1·84 | 3 | 0·88 | 28th |
| 74 | 59 | 1·4 | 1·2 | 15 | 0 | 0 | 2 | 19 | 1 | 0 | 0 | 21 | N 56° E | 3·9 | 2·21 | 1 | 2·17 | 2nd |
| 60 | 58 | 1·7 | 2·3 | 12 | 2 | 1 | 1 | 16 | 0 | 0 | 0 | 30 | N 33° W | 5·6 | 0 | 0 | 0 | .. |
| 53 | 56 | 1·4 | 2·0 | 11 | 0 | 0 | 1 | 19 | 1 | 0 | 0 | 28 | N 45° W | 4·5 | 0 | 0 | 0 | .. |
| 47 | 51 | 0·8 | 2·0 | 20 | 0 | 0 | 0 | 22 | 0 | 2 | 0 | 18 | S 18° E | 4·1 | 0 | 0 | 0 | .. |
| 68 | 72 | 1·2 | 1·2 | 8 | 3 | 0 | 5 | 31 | 0 | 1 | 1 | 11 | S 56° E | 4·5 | 0 | 0 | 0 | .. |
| 83 | 79 | 2·4 | 2·2 | 3 | 2 | 3 | 22 | 24 | 0 | 0 | 0 | 8 | S 79° E | 3·9 | 0 | 0 | 0 | .. |
| 82 | 80 | 2·9 | 1·4 | 6 | 1 | 13 | 13 | 26 | 1 | 0 | 0 | 2 | S 78° E | 4·3 | 0 | 0 | 0 | .. |
| 71 | 65 | 0·4 | 0·2 | 15 | 1 | 3 | 27 | 2 | 0 | 0 | 0 | 12 | N 66° E | 3·6 | 0 | 0 | 0 | .. |
| 65 | 63 | 0·6 | 0·4 | 15 | 2 | 5 | 23 | 0 | 0 | 1 | 0 | 16 | N 42° E | 3·8 | 0 | 0 | 0 | .. |
| 70 | 61 | 4·3 | 4·6 | 22 | 1 | 1 | 20 | 0 | 0 | 0 | 1 | 15 | N 37° E | 3·3 | 2·10 | 1 | 2·10 | 13th |
| 69 | 61 | 3·7 | 3·2 | 24 | 0 | 0 | 11 | 1 | 0 | 0 | 1 | 25 | N 22° W | 4·3 | 0·75 | 1 | 0·70 | 10th |
| 68 | 64 | 2·1 | 2·1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4·2 | 6·90 | 6 | 2·17 | 2nd Feb. |

# MONTHLY AND

*Abstract of observations taken at 4 and 14 hrs. (G. M. T.)*

| Station. | Month. | Height of bar-cistern above sea-level in feet. | Pressure. (Reduced to 32° F. and standard gravity.) Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Temperature of Air. Mean maximum. | Mean minimum. | Highest maximum. | Date. | Lowest minimum. | Date. | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Temperature wet bulb. Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Vapour tension in inches of mercury. Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Chabar | January | .. | 30·037 | 30·010 | 73·2 | 59·5 | 79·5 | 20th | 41·6 | 30th | 61·8 | 68·0 | 57·7 | 62·4 | ·435 | ·496 |
| | February | .. | ·011 | 29·938 | 75·5 | 60·3 | 82·1 | 27th | 44·7 | 3rd | 65·1 | 70·8 | 61·9 | 66·9 | ·526 | ·614 |
| | March | .. | 29·891 | ·821 | 81·8 | 67·9 | 88·2 | 26th | 51·4 | 5th | 73·9 | 76·2 | 69·2 | 71·4 | ·661 | ·716 |
| | April | .. | ·800 | ·727 | 87·9 | 73·3 | 93·5 | 7th | 67·0 | 19th | 80·5 | 83·0 | 75·7 | 78·9 | ·830 | ·935 |
| | May | .. | ·708 | ·644 | 90·7 | 76·7 | 97·1 | 3rd | 70·9 | 17th | 84·7 | 85·6 | 78·6 | 82·4 | ·867 | 1·063 |
| | June | .. | ·533 | ·456 | 91·2 | 80·5 | 96·0 | 1st | 76·8 | 19th | 87·1 | 87·6 | 82·6 | 84·8 | 1·046 | 1·160 |
| | July | .. | ·537 | ·454 | 89·3 | 80·3 | 98·1 | 22nd | 76·6 | 26th | 85·3 | 84·9 | 80·4 | 81·6 | ·978 | 1·035 |
| | August | .. | ·645 | ·565 | 86·8 | 78·8 | 102·2 | 31st | 76·0 | 24th | 82·3 | 82·2 | 79·1 | 80·1 | ·934 | ·993 |
| | September | .. | ·798 | ·721 | 87·1 | 74·4 | 101·2 | 24th | 70·4 | 23rd | 82·3 | 82·6 | 78·1 | 81·4 | ·913 | 1·019 |
| | October | .. | 29·925 | ·856 | 87·8 | 73·7 | 95·2 | 24th | 67·0 | 28th | 81·2 | 82·8 | 76·0 | 79·1 | ·844 | ·955 |
| | November | .. | 30·050 | 29·978 | 82·6 | 67·9 | 92·0 | 3rd | 57·0 | 30th | 75·9 | 77·5 | 70·1 | 74·1 | ·671 | ·810 |
| | December | .. | ·118 | 30·039 | 75·2 | 60·7 | 78·5 | 9th | 53·0 | 31st | 66·5 | 70·8 | 61·7 | 65·5 | ·490 | ·569 |
| | Year | .. | 29·838 | 29·767 | 84·1 | 71·2 | 102·2 | 31st Aug. | 41·6 | 30th Jan. | 77·2 | 79·3 | 72·6 | 75·7 | ·766 | ·865 |
| Gwadur | January | .. | 30·055 | 29·989 | 73·5 | 58·3 | 79·7 | 18th | 41·4 | 30th | 64·8 | 69·0 | 57·6 | 59·5 | ·405 | ·401 |
| | February | .. | ·001 | ·920 | 77·6 | 59·7 | 87·9 | 28th | 41·0 | 3rd | 67·0 | 71·4 | 61·0 | 63·4 | ·484 | ·495 |
| | March | .. | 29·879 | ·802 | 84·9 | 67·1 | 93·0 | 23rd | 51·6 | 5th | 74·5 | 77·2 | 68·6 | 68·9 | ·636 | ·610 |
| | April | .. | ·767 | ·678 | 92·0 | 73·5 | 103·8 | 24th | 64·2 | 2nd | 81·2 | 83·4 | 75·5 | 75·9 | ·804 | ·789 |
| | May | .. | ·670 | ·594 | 97·3 | 77·5 | 103·8 | 9th | 72·1 | 13th | 84·7 | 86·0 | 78·6 | 78·7 | ·895 | ·837 |
| | June | .. | ·501 | ·418 | 90·4 | 79·2 | 97·3 | 12th | 75·4 | 15th | 84·2 | 85·2 | 80·0 | 81·3 | ·965 | 1·013 |
| | July | .. | ·502 | ·420 | 89·2 | 78·6 | 93·9 | 9th | 75·4 | 18th | 83·1 | 83·9 | 77·4 | 78·0 | ·860 | ·880 |
| | August (*m*) | .. | ·590 | ·507 | 87·9 | (*e*)77·1 | 100·5 | 29th | 72·0 | 28th | 81·5 | 82·2 | 75·0 | 75·2 | ·782 | ·783 |
| | September (*k*) | .. | ·730 | ·651 | 87·9 | (*d*)72·8 | 98·2 | 24th | 68·0 | 26th | 79·4 | 81·0 | 74·6 | 75·9 | ·792 | ·826 |
| | October (*b*) | .. | ·845 | ·765 | (*d*)88·7 | 72·2 | 96·0 | 26th | 66·8 | 31st | 78·6 | 82·4 | 75·2 | 75·9 | ·824 | ·818 |
| | November (*m*) | .. | ·973 | ·902 | 77·0 | 64·0 | 95·0 | 2nd and 3rd | 56·8 | 30th | 74·8 | 71·2 | 68·8 | 64·8 | ·637 | ·596 |
| | December | .. | 30·057 | ·995 | 74·4 | 58·9 | 78·8 | 3rd | 50·3 | 29th | 65·3 | 69·7 | 58·8 | 61·3 | ·419 | ·438 |
| | Year | .. | 29·798 | 29·720 | 84·2 | 68·3 | 103·8 | 24th Apl. 9th May | 41·0 | 3rd Feb. | 76·6 | 78·5 | 70·9 | 71·6 | ·709 | ·707 |

(*d*) Mean of 28 days. (*e*) Mean of 27 days.

# ANNUAL TABLE D-2—*contd.*

*at 11 stations in Persia, etc., in 1928*—contd.

| Humidity. | | Cloud. | | Wind Direction. | | | | | | | | | | Wind velocity. | Rainfall. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total number of 4 and 14 hrs. (G. M. T.) winds from | | | | | | | | | | | | | | |
| Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Calm. | N | NE | E | SE | S | SW | W | NW | Mean wind direction. | Mean daily velocity in miles per hr. | Total rainfall | Number of rainy days. | Heaviest rainfall. | Date. |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 77 | 71 | 6·1 | 4·8 | 7 | 3 | 5 | 22 | 2 | 3 | 9 | 3 | 8 | N 83° E | 5·8 | 2·86 | 3 | 1·60 | 11th |
| 82 | 80 | 2·6 | 1·9 | 10 | 2 | 3 | 12 | 2 | 1 | 12 | 7 | 9 | S 86° W | 6·2 | 0 | 0 | 0 | .. |
| 78 | 78 | 3·2 | 2·6 | 9 | 2 | 0 | 4 | 2 | 4 | 12 | 10 | 19 | N 87° W | 6·2 | 0·13 | 1 | 0·13 | 8th |
| 79 | 81 | 2·1 | 1·4 | 9 | 3 | 0 | 3 | 3 | 6 | 15 | 2 | 19 | S 84° W | 5·3 | 0 | 0 | 0 | .. |
| 76 | 87 | 2·5 | 1·8 | 8 | 1 | 1 | 6 | 3 | 6 | 13 | 2 | 22 | S 89° W | 5·5 | 0 | 0 | 0 | .. |
| 81 | 85 | 1·6 | 1·2 | 4 | 0 | 0 | 13 | 16 | 6 | 15 | 4 | 2 | S 17° E | 7·1 | 0 | 0 | 0 | .. |
| 79 | 77 | 3·8 | 3·1 | 2 | 0 | 0 | 19 | 16 | 11 | 14 | 0 | 0 | S 32° E | 8·0 | 0 | 0 | 0 | .. |
| 85 | 91 | 5·9 | 2·5 | 2 | 0 | 0 | 19 | 21 | 9 | 9 | 1 | 1 | S 41° E | 7·7 | 0 | 0 | 0 | .. |
| 83 | 84 | 2·5 | 0·8 | 8 | 0 | 1 | 10 | 16 | 4 | 19 | 1 | 1 | S 14° E | 6·2 | 0 | 0 | 0 | .. |
| 79 | 81 | 1·5 | 0·2 | 14 | 0 | 1 | 9 | 3 | 0 | 16 | 6 | 13 | S 77° W | 5·3 | 0 | 0 | 0 | . |
| 74 | 85 | 2·2 | 1·6 | 10 | 1 | 3 | 9 | 1 | 5 | 11 | 10 | 10 | S 5° W | 5·3 | 0·11 | 1 | 0.11 | 12th |
| 73 | 75 | 1·1 | 1·6 | 7 | 3 | 7 | 15 | 3 | 4 | 4 | 12 | 7 | N 31° E | 5·9 | 0·47 | 1 | 0·43 | 10th |
| 79 | 81 | 2·9 | 2·0 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6·2 | 3·57 | 6 | 1·60 | 11th Jan. |
| 61 | 53 | 5·5 | 4·9 | 23 | 11 | 4 | 2 | 1 | 3 | 4 | 8 | 6 | N 40° W | 4·4 | 1·54 | 3 | 0·93 | 7th |
| 61 | 61 | 2·4 | 1·7 | 11 | 5 | 2 | 3 | 0 | 4 | 3 | 27 | 3 | N 85° W | 5·5 | 0·05 | 0 | 0·05 | 11th |
| 73 | 66 | 3·0 | 2·7 | 3 | 2 | 0 | 4 | 3 | 4 | 8 | 32 | 6 | S 82° W | 6·6 | 0·24 | 1 | 0·24 | 8th |
| 76 | 70 | 2·8 | 0·9 | 1 | 1 | 1 | 8 | 2 | 2 | 18 | 23 | 4 | S 68° W | 5·9 | 0 | 0 | 0 | .. |
| 74 | 60 | 3·7 | 3·5 | 3 | 0 | 0 | 7 | 2 | 5 | 13 | 31 | 1 | S 65° W | 6·1 | 0 | 0 | 0 | .. |
| 83 | 83 | 5·3 | 4·3 | 3 | 0 | 0 | 15 | 4 | 9 | 16 | 13 | 0 | S 16° N | 4·9 | 0 | 0 | 0 | .. |
| 76 | 76 | 7·8 | 6·3 | 7 | 0 | 0 | 8 | 9 | 10 | 19 | 9 | 0 | S 15° W | 4·5 | 0 | 0 | 0 | .. |
| 77 | 71 | 7·6 | 5·5 | 1 | 0 | 0 | 8 | 11 | 11 | 12 | 13 | 0 | S 12° W | (e)5·0 | 0 | 0 | 0 | .. |
| 79 | 78 | 5·2 | 3·2 | 7 | 0 | 0 | 4 | 2 | 6 | 6 | 21 | 0 | S 69° W | (f)5·6 | 0 | 0 | 0 | .. |
| 85 | 76 | 1·7 | 0·3 | 9 | 0 | 2 | 6 | 4 | 1 | 10 | 24 | 2 | S 70° W | (d)5·6 | 0 | 0 | 0 | .. |
| 73 | 72 | 3·3 | 1·7 | 9 | 3 | 3 | 10 | 1 | 2 | 10 | 15 | 4 | S 81° W | (e)4·7 | 0·65 | 1 | 0·65 | 12th |
| 65 | 60 | 2·8 | 1·7 | 12 | 4 | 5 | 3 | 7 | 2 | 6 | 12 | 11 | N 72° W | 5·6 | 4·98 | 3 | 2·67 | 11th |
| 74 | 69 | 4·3 | 1·4 | .. | .. | .. | .. | .. | .. | .. | | .. | .. | 5·4 | 7·46 | 8 | 2·67 | 11th Dec. |

(*f*) Mean of 26 days.

# MONTHLY AND

*Abstract of observations taken at 4 and 14 hrs. (G. M. T.)*

| Station. | Month. | Height of bar-cistern above sea-level in feet. | Pressure. (Reduced to 32° F. and standard gravity.) | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | Vapour-tension in inches of mercury. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean maximum. | Mean minimum. | Highest maximum. | Date. | Lowest minimum. | Date. | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Pasni | January | 10 | 30·082 | 30·009 | 72·9 | 57·8 | 80·0 | 19th | 44·7 | 29th | 62·5 | 66·7 | 56·9 | 60·3 | ·407 | ·454 |
| | February | .. | ·015 | 29·938 | 78·3 | 56·5 | 93·0 | 27th | 43·3 | 4th | 64·0 | 69·6 | 57·8 | 63·9 | ·410 | ·531 |
| | March | .. | 29·907 | ·831 | 84·5 | 64·5 | 92·8 | 28th | 54·9 | 6th | 73·8 | 75·2 | 65·0 | 68·5 | ·517 | ·622 |
| | April | .. | ·784 | ·710 | 92·5 | 70·0 | 104·0 | 7th | 62·0 | 2nd | 81·9 | 81·4 | 73·1 | 76·8 | ·712 | ·865 |
| | May | .. | ·699 | ·623 | 93·8 | 74·8 | 104·0 | 14th | 70·4 | 11th | 86·0 | 84·1 | 76·0 | 79·1 | ·766 | ·893 |
| | June | .. | ·527 | ·449 | 90·3 | 78·9 | 96·9 | 12th | 74·1 | 24th | 85·7 | 84·4 | 78·4 | 79·4 | ·870 | ·955 |
| | July | .. | ·530 | ·453 | 90·0 | 78·4 | 94·0 | 23rd | 76·0 | 12th | 84·1 | 83·3 | 77·5 | 78·4 | ·846 | ·906 |
| | August | .. | ·621 | ·535 | 85·8 | 76·8 | 105·1 | 30th | 73·0 | 28th | 82·0 | 81·4 | 74·8 | 76·1 | ·781 | ·830 |
| | September | .. | ·749 | ·673 | 89·2 | 70·5 | 103·9 | 1st | 66·3 | 21st | 80·5 | 79·2 | 72·4 | 75·9 | ·696 | ·852 |
| | October | .. | ·868 | ·789 | 90·2 | 69·0 | 97·4 | 4th | 64·0 | 28th | 78·5 | 79·2 | 73·2 | 76·0 | ·748 | ·858 |
| | November | .. | ·994 | ·928 | 83·2 | 63·9 | 95·8 | 3rd | 55·5 | 29th | 73·2 | 73·8 | 67·2 | 70·4 | ·602 | ·708 |
| | December | .. | 30·069 | 30·015 | 74·9 | 57·7 | 80·0 | 17th | 47·2 | 29th | 62·6 | 67·0 | 58·6 | 62·9 | ·446 | ·514 |
| | Year | .. | 29·820 | 29·746 | 85·5 | 68·2 | 105·1 | 30th Aug. | 43·3 | 4th Feb. | 76·2 | 77·1 | 69·2 | 71·5 | ·651 | ·749 |
| Panjgur | January | 3,177 | 26·857 | 26·788 | 59·4 | 40·1 | 71·8 | 18th | 24·4 | 29th | 45·0 | 54·9 | 41·2 | 47·0 | ·226 | ·240 |
| | February | .. | ·802 | ·736 | 71·9 | 41·6 | 89·8 | 26th | 22·4 | 1st | 46·3 | 66·5 | 41·5 | 52·4 | ·200 | ·218 |
| | March | .. | ·730 | ·647 | 79·3 | 51·1 | 89·8 | 23rd | 34·4 | 6th | 55·8 | 73·9 | 49·7 | 60·1 | ·285 | ·356 |
| | April | .. | ·674 | ·616 | 94·0 | 61·7 | 100·8 | 13th and 14th | 51·4 | 2nd | 71·7 | 88·1 | 62·5 | 72·0 | ·461 | ·586 |
| | May | .. | ·610 | ·535 | 99·7 | 68·4 | 107·8 | 29th | 62·0 | 15th | 78·7 | 93·1 | 66·3 | 70·7 | ·483 | ·464 |
| | June | .. | ·459 | ·370 | 105·1 | 75·3 | 111·0 | 8th | 66·4 | 1st and 2nd | 85·5 | 98·6 | 65·6 | 66·5 | ·375 | ·241 |
| | July | .. | ·454 | ·361 | 103·3 | 76·0 | 107·8 | 18th | 69·4 | 25th | 84·5 | 98·2 | 73·7 | 77·6 | ·686 | ·686 |
| | August | .. | ·498 | ·420 | 100·2 | 73·1 | 107·8 | 4th | 66·4 | 17th | 80·5 | 94·4 | 72·4 | 81·1 | ·684 | ·885 |
| | September | .. | ·643 | ·563 | 93·6 | 63·8 | 99·2 | 2nd | 54·4 | 28th | 76·5 | 88·4 | 67·5 | 74·1 | ·573 | ·687 |
| | October | .. | ·751 | ·669 | 89·9 | 56·1 | 96·0 | 1st and 2nd | 49·4 | 28th | 67·5 | 83·6 | 58·4 | 61·5 | ·271 | ·280 |
| | November | .. | ·826 | ·750 | 76·7 | 43·7 | 87·8 | 4th | 48·4 | 3rd | 57·5 | 70·3 | 46·4 | 52·0 | ·186 | ·174 |
| | December | .. | ·849 | ·785 | 65·7 | 39·2 | 75·6 | 24th | 27·4 | 29th | 46·4 | 58·6 | 40·4 | 46·5 | ·181 | ·191 |
| | Year | .. | 26·679 | 26·603 | 86·6 | 57·5 | 111·0 | 8th June | 22·4 | 1st Feb. | 66·3 | 80·6 | 57·1 | 63·5 | ·384 | ·417 |

# ANNUAL TABLE D-2—*contd.*

*at 11 stations in Persia, etc., in 1928*—contd.

| Humidity. | | Cloud. | | Wind Direction. | | | | | | | | | | Wind velocity. | Rainfall. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total number of 4 and 14 hrs. (G. M. T.) winds from | | | | | | | | | Mean wind direction. | Mean daily velocity in miles per hr. | Total rainfall. | Number of rainy days. | Heaviest rainfall. | Date. |
| Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Calm. | N | NE | E | SE | S | SW | W | NW | | | | | | |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 68 | 67 | 4·3 | 3·3 | 6 | 7 | 17 | 6 | 1 | 3 | 4 | 12 | 6 | N 1° W | 6·1 | 1·51 | 2 | 1·09 | 7th |
| 64 | 71 | 1·5 | 0·8 | 4 | 10 | 3 | 0 | 1 | 1 | 5 | 19 | 15 | N 60° W | 7·1 | 0·07 | 0 | 0·07 | 11th |
| 60 | 70 | 2·1 | 1·9 | 2 | 6 | 3 | 4 | 2 | 3 | 3 | 28 | 11 | N 73° W | 8·5 | 1·00 | 1 | 1·00 | 8th |
| 66 | 81 | 1·5 | 0·9 | 0 | 5 | 0 | 0 | 5 | 1 | 0 | 32 | 17 | N 73° W | 7·5 | 0 | 0 | 0 | .. |
| 63 | 79 | 2·2 | 2·5 | 1 | 1 | 1 | 1 | 3 | 0 | 5 | 34 | 16 | N 81° W | 9·3 | 0 | 0 | 0 | .. |
| 71 | 80 | 3·0 | 3·3 | 0 | 0 | 0 | 1 | 8 | 0 | 12 | 27 | 12 | S 82° W | 8·7 | 0 | 0 | 0 | .. |
| 72 | 79 | 6·1 | 4·0 | 0 | 0 | 6 | 2 | 6 | 1 | 11 | 33 | 9 | S 81° W | 7·1 | 0 | 0 | 0 | .. |
| 72 | 77 | 6·6 | 2·3 | 1 | 1 | 1 | 4 | 10 | 4 | 18 | 20 | 3 | S 49° W | 7·1 | 0·01 | 0 | 0·01 | 16th |
| 69 | 85 | 2·6 | 0·3 | 2 | 2 | 2 | 3 | 5 | 0 | 7 | 24 | 15 | N 81° W | 7·6 | 0 | 0 | 0 | .. |
| 77 | 87 | 2·1 | 0·4 | 2 | 5 | 3 | 3 | 2 | 1 | 4 | 28 | 14 | N 71° W | 6·8 | 0 | 0 | 0 | .. |
| 73 | 84 | 3·1 | 1·2 | 7 | 8 | 8 | 3 | 1 | 0 | 5 | 13 | 15 | N 42° W | 6·0 | 2·00 | 1 | 2·00 | 27th |
| 76 | 76 | 2·4 | 1·4 | 6 | 12 | 6 | 6 | 3 | 1 | 2 | 17 | 9 | N 35° W | 5·9 | 2·81 | 2 | 1·47 | 11th |
| 69 | 78 | 3·1 | 1·9 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7·3 | 7·40 | 6 | 2·00 | 27th Nov. |
| 73 | 58 | 4·3 | 5·0 | 9 | 6 | 19 | 18 | 0 | 0 | 8 | 2 | 0 | N 60° E | 5·3 | 0·74 | 2 | 0·30 | 11th |
| 62 | 38 | 1·7 | 1·0 | 4 | 3 | 12 | 19 | 1 | 1 | 8 | 10 | 0 | N 72° E | 5·2 | 0·52 | 1 | 0·50 | 11th |
| 61 | 42 | 2·1 | 3·7 | 7 | 4 | 13 | 19 | 0 | 1 | 7 | 10 | 1 | N 58° E | 5·8 | 0·11 | 0 | 0·05 | 13th |
| 63 | 46 | 1·3 | 2·2 | 6 | 21 | 1 | 19 | 0 | 1 | 6 | 4 | 2 | N 30° E | 5·2 | 0 | 0 | 0 | .. |
| 49 | 30 | 1·4 | 1·4 | 13 | 13 | 5 | 12 | 0 | 2 | 16 | 1 | 0 | N 45° E | 5·4 | 0 | 0 | 0 | .. |
| 32 | 13 | 0·6 | 1·4 | 7 | 20 | 4 | 4 | 2 | 3 | 11 | 6 | 3 | N 31° W | 5·3 | 0 | 0 | 0 | .. |
| 58 | 38 | 2·5 | 2·4 | 14 | 24 | 4 | 1 | 0 | 1 | 3 | 6 | 9 | N 19° W | 4·5 | 0 | 0 | 0 | .. |
| 67 | 55 | 1·0 | 1·9 | 8 | 18 | 4 | 2 | 0 | 0 | 14 | 10 | 6 | N 51° W | 5·4 | 0 | 0 | 0 | .. |
| 62 | 52 | 0 | 0 | 5 | 21 | 9 | 9 | 0 | 2 | 1 | 5 | 8 | N 8° E | 4·3 | 0 | 0 | 0 | .. |
| 41 | 24 | 0 | 0·2 | 4 | 11 | 14 | 24 | 0 | 1 | 2 | 4 | 2 | N 53° E | 3·3 | 0 | 0 | 0 | .. |
| 38 | 22 | 2·6 | 3·9 | 2 | 12 | 14 | 16 | 1 | 0 | 3 | 9 | 3 | N 38° E | 3·9 | 0·24 | 1 | 0·24 | 27th |
| 54 | 36 | 2·6 | 2·6 | 4 | 8 | 14 | 24 | 0 | 0 | 7 | 4 | 1 | N 61° E | 4·1 | 0·17 | 1 | 0·14 | 11th |
| 55 | 36 | 1·7 | 2·1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4·8 | 1·78 | 5 | 0·50 | 11th Feb. |

# MONTHLY AND

*Abstract of observations taken at 4 and 14 hrs. (G. M. T.)*

| Station. | Month. | Height of barcistern above sea-level in feet. | Pressure. (Reduced to 32° F. and standard gravity.) | | Temperature of Air. | | | | | | | | Temperature wet bulb. | | Vapour-tension in inches of mercury. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean maximum. | Mean minimum. | Highest maximum. | Date. | Lowest minimum. | Date. | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| Ormara | January | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | February (p) | .. | 29·982 | 29·904 | (k) 77·5 | 61·8 | 85·5 | 28th | 49·5 | 13th | 69·3 | 73·9 | 63·7 | 66·0 | ·521 | ·540 |
| | March | .. | ·886 | ·807 | (l)83·5 | 67·9 | 94·8 | 28th | 52·9 | 6th | 74·4 | 78·0 | 67·5 | 65·5 | ·595 | ·469 |
| | April | .. | ·771 | ·691 | 91·1 | 74·6 | 102·9 | 25th | 63·6 | 1st | 81·6 | 83·0 | 73·9 | 72·7 | ·735 | ·669 |
| | May | .. | ·675 | ·612 | 93·1 | 79·8 | 102·4 | 14th | 75·1 | 13th | 84·6 | 85·2 | 77·7 | 77·1 | ·859 | ·824 |
| | June | .. | ·527 | ·451 | 90·7 | 81·2 | 94·3 | 12th | 78·8 | 26th | 84·5 | 83·9 | 80·2 | 80·8 | ·970 | ·971 |
| | July | .. | ·524 | ·460 | 89·1 | 79·9 | 93·7 | 23rd | 76·7 | 11th | 83·2 | 83·0 | 79·0 | 78·9 | ·933 | ·934 |
| | August | .. | ·613 | ·533 | 88·1 | 78·3 | 100·6 | 31st | 77·0 | 4th | 81·8 | 81·7 | 78·0 | 76·8 | ·864 | ·845 |
| | September | .. | ·739 | ·670 | 88·0 | 74·5 | 100·8 | 24th | 67·1 | 26th | 80·0 | 79·8 | 73·3 | 74·2 | ·735 | ·777 |
| | October | .. | ·861 | ·784 | 88·3 | 72·5 | 97·7 | 23rd | 64·4 | 2nd | 79·4 | 80·5 | 73·4 | 74·9 | ·746 | ·788 |
| | November | .. | 29·985 | ·915 | 83·3 | 64·6 | 93·0 | 2nd | 53·3 | 29th | 73·3 | 75·6 | 68·0 | 69·7 | ·621 | ·655 |
| | December | .. | 30·065 | ·997 | 76·2 | 56·5 | 79·5 | 24th | 48·0 | 29th | 65·2 | 70·1 | 59·7 | 62·7 | ·435 | ·479 |
| | Year* | .. | 29·784 | 29·711 | 87·1(†) | 71·9 | 102·9 | 25th Apl. | 48·0 | 29th Dec. | 77·9 | 79·5 | 72·2 | 72·7 | ·729 | ·723 |

(l) Mean of 27 days.
(k) Mean of 11 days.
(p) Mean of 19 days.
* Mean of 11 months.
(†) Mean of 10 months.

# ANNUAL TABLE D-2—*concld.*

*at 11 stations in Persia, etc., in 1928*—concld.

| Humidity. | | Cloud. | | Wind Direction. | | | | | | | | | Mean wind direction. | Wind Velocity. | Rainfall. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total number of 4 and 14 hrs. (G. M. T.) winds from | | | | | | | | | | | | | | |
| Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Mean 4 hrs. (G. M. T.) | Mean 14 hrs. (G. M. T.) | Calm. | N | NE | E | SE | S | SW | W | NW | | Mean daily velocity in miles per hr. | Total rainfall. | Number of rainy days. | Heaviest rainfall. | Date. |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 73 | 65 | 1·2 | 0·7 | 6 | 2 | 2 | 3 | 0 | 1 | 0 | 22 | 2 | N 78° W | (c)6·9 | 0·23 | 1 | 0 | 11th |
| 69 | 50 | 2·0 | 1·7 | 9 | 3 | 2 | 2 | 3 | 5 | 2 | 33 | 3 | S 86° W | 8·3 | 0·87 | 1 | 0·87 | 8th |
| 69 | 61 | 1·5 | 1·3 | 6 | 1 | 0 | 3 | 2 | 1 | 3 | 42 | 2 | S 87° W | 6·3 | 0 | 0 | 0 | .. |
| 74 | 69 | 2·8 | 2·7 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 58 | 0 | N 88° W | 8·3 | 0 | 0 | 0 | .. |
| 82 | 84 | 3·1 | 3·2 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 52 | 2 | S 88° W | 7·6 | 0 | 0 | 0 | .. |
| 82 | 83 | 4·8 | 4·4 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 55 | 1 | S 88° W | 9·3 | 0 | 0 | 0 | .. |
| 81 | 79 | 7·6 | 3·9 | 1 | 0 | 0 | 0 | 0 | 3 | 11 | 44 | 3 | S 81° W | 5·8 | 0 | 0 | 0 | .. |
| 74 | 76 | 3·9 | 1·6 | 6 | 0 | 0 | 2 | 0 | 2 | 1 | 45 | 3 | S 89° W | 9·3 | 0 | 0 | 0 | .. |
| 75 | 76 | 1·8 | 1·0 | 17 | 0 | 0 | 3 | 1 | 1 | 0 | 38 | 2 | W | 7·7 | 0 | 0 | 0 | .. |
| 75 | 73 | 2·6 | 1·5 | 24 | 0 | 1 | 7 | 4 | 2 | 4 | 17 | 1 | S 58° W | 4·0 | 0·06 | 0 | 0·06 | 27th |
| 67 | 66 | 1·8 | 1·1 | 34 | 0 | 2 | 7 | 3 | 4 | 3 | 9 | 0 | S 5° W | 3·6 | 0·15 | 1 | 0·10 | 12th |
| 75 | 71 | 3·1 | 2·1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7·0 | 1·31 | 3 | 0·87 | 8th Mar. |

(c) Mean of 18 days.

# Table D-3.—Abstract of Observations taken at 8 hrs. at 202 Stations in the year 1928.

# ANNUAL TABLE D-3 FOR 1928.

*Abstract of 8 hrs. observations.*

| Station and height of bar-cistern above sea-level in feet. | Pressure. | | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Mean 8 h. | | Maximum. | | | Minimum. | | | | | | | | | | |
| | Mean 8 h. reduced to 32° and standard gravity. | Departure from normal. | Mean direction at 8 h. | Mean velocity in miles per hour. | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest during year. | Mean. | Departure from normal. | Lowest during year. | Mean 8 h. | Departure from normal. | Mean amount 8 h. | Total of the year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall during year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| **Bay Islands.** | | | | | | | | | | | | | | | | | | | | |
| Port Blair (59) | 29·773 | —·008 | .. | 4·1 | 80·6 | 76·5 | 85·9 | —1·2 | 90·8 | 77·3 | +0·3 | 70·5 | 82 | —2 | 5·9 | 118·04 | +1·62 | 135 | —3·6 | 4·35 |
| **Lower Burma.** | | | | | | | | | | | | | | | | | | | | |
| Victoria Point (113) | 29·709 | —·004 | .. | 5·7 | 79·3 | 75·9 | 85·5 | —0·4 | 93·6 | 75·5 | +0·7 | 70·2 | 85 | +2 | 6·4 | 135·02 | —23·85 | 142 | —9·5 | 5·25 |
| Mergui (66) | 29·793 | —·004 | .. | .. | 77·2 | 75·2 | 87·3 | —0·1 | 95·3 | 72·2 | +0·3 | 62·0 | 91 | +4 | 6·9 | 178·03 | +16·79 | 179 | +25·2 | 6·76 |
| Tavoy (19) | 29·842 | —·008 | .. | 2·0 | 77·0 | 73·9 | 89·3 | +1·4 | 98·5 | 70·9 | —0·8 | 57·4 | 87 | —1 | 6·1 | 217·41 | +2·67 | 157 | +12·6 | 6·77 |
| Ahmerst (71) | 29·783 | .. | .. | 5·0 | 78·3 | 75·0 | 87·2 | .. | 95·2 | 74·3 | .. | 66·6 | 85 | .. | 5·8 | 212·44 | .. | 144 | .. | 10·40 |
| Rangoon (18) | 29·826 | —·005 | .. | 2·7 | 77·5 | 74·2 | 90·0 | +0·7 | 101·0 | 73·6 | +0·6 | 63·4 | 85 | —2 | 7·3 | 114·34 | +15·31 | 138 | +15·7 | 4·72 |
| Bassein (27) | 29·814 | —·002 | .. | 2·6 | 78·9 | 74·7 | 89·5 | +1·3 | 102·8 | 72·6 | 0 | 58·0 | 81 | —7 | 5·4 | 101·49 | —7·64 | 114 | —10·8 | 6·89 |
| Diamond Island (41) | 29·789 | —·008 | .. | 7·0 | 80·5 | 76·2 | 85·7 | +0·4 | 92·8 | 77·0 | +1·3 | 69·0 | 81 | +1 | 5·0 | 123·17 | +5·27 | 111 | —2·8 | 7·02 |
| Toungo (159) | 29·660 | —·025 | .. | .. | 76·6 | 72·3 | 90·1 | +0·2 | 102·6 | 70·9 | +0·5 | 53·4 | 81 | —5 | 4·9 | 72·36 | —10·60 | 101 | —13·7 | 2·90 |
| Kyaukpyu (18) | 29·793 | —·014 | .. | 1·5 | 79·1 | 75·7 | 85·6 | +1·0 | 95·3 | 73·2 | +0·6 | 56·6 | 85 | 0 | 6·1 | 179·52 | —0·28 | 122 | —8·2 | 8·56 |
| Akyab (20) | 29·796 | —·011 | .. | 7·6 | 76·1 | 73·0 | 85·3 | —0·5 | 97·2 | 71·0 | —0·7 | 51·9 | 86 | —3 | 5·6 | 207·51 | +4·14 | 132 | +6·5 | 7·92 |
| **Upper Burma.** | | | | | | | | | | | | | | | | | | | | |
| Minbu (*168*) | 29·653 | —·011 | .. | 3·2 | 76·9 | 71·0 | 91·0 | —0·4 | 106·3 | 71·3 | —0·1 | 45·0 | 75 | 0 | 3·6 | 27·97 | —7·41 | 46 | —11·2 | 2·40 |
| Yamethin (644) | 29·191 | +·008 | .. | .. | 75·1 | 70·3 | 90·3 | —0·8 | 102·2 | 69·3 | —0·5 | 50·0 | 78 | —1 | 4·4 | 37·77 | —0·25 | 56 | —7·3 | 4·82 |
| Mandalay (250) | 29·582 | 0 | .. | 2·7 | 75·8 | 70·8 | 92·4 | —0·4 | 105·0 | 71·5 | +0·2 | 53·5 | 78 | +4 | 3·8 | 46·96 | +13·80 | 58 | +7·2 | 5·15 |
| Monywa (*280*) | 29·559 | —·003 | .. | 2·3 | 76·3 | 70·9 | 91·4 | +0·8 | 106·8 | 70·7 | —0·5 | 51·4 | 76 | +6 | 4·8 | 40·39 | +9·34 | 54 | +9·9 | 3·37 |
| Lashio (*2,820*) | 27·062 | +·008* | .. | 1·8 | 66·1 | 63·0 | 80·4 | —1·2 | 93·7 | 60·3 | —0·2 | 42·9 | 84 | —2 | 5·4 | 63·15 | +1·28 | 97 | —3·7 | 5·13 |
| Bhamo (*361*)† | 29·449 | +·045 | .. | 1·3 | 70·7 | 68·4 | 86·3 | +0·4 | 102·1 | 66·1 | +1·2 | 45·3 | 89 | 0 | 6·9 | 67·70 | —4·31 | 100 | —0·5 | 3·50 |
| Myitkyina (463) | 29·365 | +·006 | .. | 1·2 | 70·0 | 67·5 | * 84·6 | +0·5 | 98·5 | 65·3 | —0·2 | 46·0 | 87 | 0 | 6·1 | 105·23 | +26·24 | 106 | +0·5 | 7·46 |
| **Assam.** | | | | | | | | | | | | | | | | | | | | |
| Dibrugarh (353)‡ | 29·489 | —·005 | .. | 0·9 | 69·7 | 67·7 | 82·3 | +1·5 | 99·6 | 64·9 | —0·3 | 42·9 | 90 | —2 | 5·6 | 123·67 | +15·25 | 139 | +4·5 | 5·25 |
| Sibsagar (333) | 29·513 | —·003 | .. | 1·3 | 70·0 | 67·9 | 83·0 | +1·7 | 97·2 | 66·1 | +0·4 | 44·2 | 90 | —4 | 9·5 | 109·72 | +13·73 | 124 | —4·5 | 7·12 |
| Tezpur (258) | 29·585 | +·003 | .. | 0·8 | 71·5 | 68·4 | 85·2 | +2·0 | 97·0 | 66·5 | —0·5 | 45·4 | 85 | —4 | 4·9 | 60·52 | —13·72 | 106 | +0·9 | 2·65 |
| Gauhati (196) | 29·649 | +·004 | .. | 1·0 | 72·7 | 69·4 | 84·9 | +0·4 | 98·7 | 66·5 | +0·2 | 45·7 | 85 | —3 | 5·9 | 54·91 | —10·38 | 82 | —10·8 | 3·71 |
| Dhubri (115) | 29·700 | —·004 | .. | 4·2 | 73·2 | 69·7 | 83·3 | +0·5 | 99·4 | 68·5 | +0·5 | 49·5 | 83 | —4 | 4·3 | 114·87 | +18·37 | 111 | +16·7 | 4·54 |
| Silchar (104) | 29·746 | +·007 | .. | 1·6 | 72·8 | 69·8 | 86·4 | +0·3 | 98·6 | 67·7 | +0·2 | 49·0 | 85 | —2 | 5·2 | 129·14 | +4·46 | 143 | +6·9 | 5·08 |
| **Bengal.** | | | | | | | | | | | | | | | | | | | | |
| Cox's Bazar (35) | 29·775 | —·004 | .. | 1·5 | 76·3 | 73·6 | 84·9 | —0·1 | 95·9 | 70·2 | +0·8 | 52·0 | 88 | +1 | 3·7 | 103·84 | —41·93 | 103 | —7·5 | 5·71 |
| Chittagong (87) | 29·730 | —·005 | .. | 6·7 | 74·1 | 70·6 | 86·2 | +1·3 | 98·4 | 69·6 | +0·3 | 49·8 | 83 | —3 | 4·9 | 109·84 | +7·11 | 96 | +1·0 | 8·99 |
| Narayanganj (26) | 29·779 | —·005 | .. | 2·8 | 75·5 | 71·9 | 88·0 | +1·8 | 102·1 | 70·5 | 0 | 44·8 | 83 | —2 | 5·0 | 73·68 | —0·14 | 95 | +1·7 | 4·46 |
| Barisal (12) | 29·790 | +·001 | .. | 1·1 | 76·8 | 73·2 | 87·2 | +1·4 | 100·5 | 71·0 | +0·7 | 48·2 | 83 | —2 | 4·1 | 67·28 | —15·03 | 101 | —2·2 | 2·97 |
| Jessore (33) | 29·775 | +·003 | .. | 1·8 | 76·1 | 73·0 | 89·2 | +1·9 | 106·1 | 69·4 | —0·3 | 41·6 | 86 | +2 | 4·9 | 61·54 | —4·49 | 83 | —5·0 | 4·14 |
| Calcutta (21) | 29·774 | —·001 | .. | 3·1 | 75·6 | 72·3 | 88·6 | +1·7 | 104·7 | 71·9 | +1·2 | 48·6 | 84 | +1 | 5·0 | 78·66 | +16·12 | 83 | —2·2 | 6·05 |
| Saugor Island (10) | 29·779 | —·002 | .. | 10·0 | 78·8 | 74·3 | 85·1 | —0·3 | 97·7 | 72·8 | —0·6 | 48·5 | 79 | —6 | 5·5 | 91·31 | +21·90 | 90 | +10·4 | 10·38 |
| Burdwan (99) | 29·695 | —·001 | .. | 1·9 | 74·9 | 70·3 | 90·2 | +1·4 | 110·5 | 69·8 | —0·6 | 46·0 | 79 | 0 | 5·1 | 73·21 | +14·58 | 75 | —1·9 | 9·60 |
| Berhampore (67) | 29·736 | +·003 | .. | 2·4 | 76·1 | 71·3 | 89·9 | +2·3 | 109·6 | 69·3 | —0·3 | 40·2 | 78 | —5 | 4·9 | 51·97 | —5·14 | 84 | +6·8 | 2·60 |
| Mymensingh (63) | 29·765 | +·010 | .. | 1·4 | 73·4 | 70·3 | 85·8 | +1·0 | 100·6 | 68·6 | —0·3 | 46·9 | 85 | —2 | 5·7 | 105·35 | +12·40 | 113 | +7·6 | 7·65 |
| Bogra (75) | 29·742 | +·009 | .. | 1·4 | 74·3 | 70·8 | 88·2 | +2·0 | 105·7 | 68·6 | +0·5 | 43·8 | 83 | 0 | 5·1 | 96·22 | +25·25 | 104 | +18·7 | 5·58 |
| Dinajpur (123) | 29·677 | —·001 | .. | 2·2 | 73·5 | 69·9 | 85·5 | —0·5 | 103·8 | 68·6 | +1·7 | 42·1 | 83 | 0 | 4·8 | 93·77 | +22·67 | 97 | +17·5 | 8·85 |
| Jalpaiguri (274)‖ | 29·525 | —·015 | .. | 0·8 | 71·5 | 68·7 | 85·4 | +1·1 | 98·8 | 66·7 | +0·5 | 44·9 | 86 | 0 | 5·3 | 140·83 | +18·51 | 126 | +22·8 | 7·95 |

* Mean of 11 months. † Height changed to 414 feet from 5th June 1928. ‡ Height changed to 344 feet from 26th February 1928.
§ Height changed to 65 feet from 25th February 1928. ‖ Height changed to 271 feet from 5th December 1928.
*N.B.*—Elevation in *italics* indicate barometrical determination.

# ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of bar-cistern above sea-level in feet. | Pressure. | | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Mean 8 h. | | Maximum. | | | Minimum. | | | | | | | | | | |
| | Mean 8 h. reduced to 32° and standard gravity. | Departure from normal. | Mean direction at 8 h. | Mean velocity in miles per hour. | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest during year. | Mean. | Departure from normal. | Lowest during year. | Mean 8 h. | Departure from normal. | Mean amount 8 h. | Total of the year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall during year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| **Orissa.** | | | | | | | | | | | | | | | | | | | | |
| Balasore (64) | 29·730 | +·001 | .. | 2·5 | 78·1 | 72·4 | 88·8 | +0·2 | 107·4 | 71·6 | +1·1 | 48·3 | 75 | —6 | 4·5 | 65·97 | +3·24 | 81 | +3·0 | 4·50 |
| Hukitala (False Point) (29) | 29·766 | —·003 | .. | 7·7 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4·8 | 81·55 | +18·02 | 82 | +10·3 | 14·55 |
| Cuttack (80)* | 29·720 | +·005 | .. | 1·2 | 76·8 | 72·9 | 91·3 | +0·4 | 109·4 | 72·0 | —0·5 | 52·1 | 83 | +4 | 4·9 | 67·22 | +7·95 | 84 | +9·1 | 3·43 |
| Sambalpur (486) | 29·309 | —·002 | .. | 2·0 | 77·6 | 70·3 | 91·2 | +0·7 | 116·0 | 69·7 | —0·1 | 43·8 | 70 | —1 | 4·1 | 59·18 | —6·55 | 74 | +0·1 | 7·89 |
| **Chota-Nagpur.** | | | | | | | | | | | | | | | | | | | | |
| Chaibasa (733) | 29·045 | +·002 | .. | 2·1 | 74·6 | 69·7 | 89·9 | +0·3 | 115·2 | 68·7 | +0·7 | 44·4 | 79 | +2 | 4·5 | 47·70 | —4·09 | 68 | —6·4 | 5·74 |
| Ranchi (2,152) | 27·649 | +·015 | .. | 2·7 | 72·0 | 64·7 | 84·1 | —0·1 | 107·8 | 65·8 | +0·3 | 42·5 | 68 | +2 | 4·5 | 54·60 | —2·61 | 82 | +1·[illegible] | 5·00 |
| **Bihar.** | | | | | | | | | | | | | | | | | | | | |
| Purnea (124) | 29·677 | —·003 | .. | 2·1 | 73·3 | 69·0 | 87·2 | +0·7 | 107·2 | 66·7 | +0·4 | 38·8 | 81 | —4 | 4·4 | 69·52 | +7·24 | 76 | +5·2 | 4·85 |
| Darbhanga (177) | 29·619 | —·010 | .. | 1·8 | 74·5 | 69·0 | 87·3 | +1·3 | 106·4 | 67·3 | —0·5 | 37·9 | 76 | —4 | 4·5 | 48·33 | —1·94 | 55 | —4·0 | 3·66 |
| Patna (179) | 29·609 | +·007 | .. | 3·8 | 75·0 | 68·4 | 88·5 | +1·2 | 108·0 | 70·1 | +1·5 | 38·4 | 71 | —1 | 4·1 | 33·27 | —15·26 | 55 | —1·0 | 3·38 |
| Gaya (372) | 29·408 | —·005 | .. | 1·5 | 77·2 | 69·0 | 90·8 | +1·1 | 114·7 | 70·3 | +1·4 | 42·0 | 66 | —4 | 2·5 | 42·27 | —5·21 | 54 | —4·0 | 4·02 |
| Naya Dumka (489) | 29·300 | +·002 | .. | 2·0 | 75·3 | 69·7 | 88·1 | +0·4 | 110·1 | 69·3 | +1·5 | 42·8 | 75 | +2 | 4·9 | 66·45 | +9·36 | 84 | +6·1 | 4·50 |
| **United Provinces, East.** | | | | | | | | | | | | | | | | | | | | |
| Gorakhpur (257) | 29·537 | +·011 | .. | 2·2 | 74·2 | 68·4 | 88·6 | +0·9 | 108·5 | 67·1 | +0·4 | 40·9 | 75 | 0 | 1·9 | 40·92 | —9·27 | 57 | +0·4 | 3·98 |
| Benares (250) | 29·526 | —·008 | .. | 3·5 | 75·0 | 68·1 | 89·4 | —0·1 | 114·1 | 68·0 | +1·4 | 40·0 | 71 | 0 | 3·7 | 33·45 | —7·10 | 51 | —1·7 | 2·91 |
| Allahabad (309) | 29·463 | —·011 | .. | 4·3 | 76·0 | 67·5 | 91·3 | +1·2 | 116·8 | 68·7 | +1·9 | 40·6 | 66 | +1 | 3·6 | 25·18 | —13·88 | 44 | —5·6 | 3·22 |
| Cawnpore (416) | 29·354 | —·010 | .. | 2·3 | 75·9 | 67·6 | 91·0 | +1·1 | 115·0 | 68·2 | +1·8 | 40·8 | 66 | 0 | 2·2 | 22·10 | —13·82 | 39 | —5·5 | 2·35 |
| Lucknow (368) | 29·399 | —·014 | .. | 1·2 | 73·8 | 67·0 | 89·5 | —0·2 | 113·9 | 67·2 | +1·5 | 40·3 | 71 | +3 | 2·8 | 26·72 | —11·85 | 46 | —2·3 | 2·42 |
| Bahraich (407) | 29·355 | —·012 | .. | †2·3 | 73·6 | 67·5 | 88·1 | 0 | 108·8 | 67·1 | +1·4 | 42·1 | 73 | 0 | 1·8 | 34·52 | —10·78 | 43 | —6·7 | 4·20 |
| **United Provinces, West.** | | | | | | | | | | | | | | | | | | | | |
| Jhansi (824) | 28·956 | —·017 | .. | 4·1 | 76·9 | 65·3 | 92·0 | +0·8 | 117·3 | 68·5 | —0·5 | 40·9 | 55 | —3 | 2·2 | 24·40 | —11·77 | 33 | —13·6 | 3·26 |
| Agra (554) | 29·216 | —·015 | .. | 4·9 | 74·6 | 64·4 | 90·9 | —0·2 | 114·6 | 66·0 | +2·2 | 37·2 | 59 | 0 | 3·3 | 20·38 | —6·52 | 29 | —9·0 | 3·55 |
| Mainpuri (516) | 29·260 | 0 | .. | 2·3 | 75·3 | 66·2 | 91·1 | +1·0 | 115·0 | 65·4 | —0·2 | 38·6 | 63 | —2 | 3·1 | 16·59 | —10·48 | 32 | —6·6 | 1·82 |
| Bareilly (568) | 29·214 | +·011 | .. | 1·8 | 71·6 | 66·7 | 88·4 | +0·9 | 112·2 | 66·2 | +1·5 | 39·5 | 78 | +5 | 3·9 | 36·30 | —7·37 | 41 | —5·3 | 4·87 |
| Roorkee (899) | 28·865 | —·010 | .. | 2·6 | 70·2 | 63·8 | 86·3 | —0·1 | 112·2 | 63·2 | +1·0 | 36·8 | 73 | +2 | 3·4 | 36·17 | —5·81 | 47 | —0·7 | 6·22 |
| **Punjab, East and North.** | | | | | | | | | | | | | | | | | | | | |
| Delhi (718) | 29·064 | +·004 | .. | 3·1 | 73·2 | 63·8 | 88·2 | —0·4 | 112·3 | 69·7 | +2·2 | 42·5 | 59 | 0 | 2·8 | 11·78 | —15·06 | 31 | —5·0 | 1·66 |
| Hissar (725) | 29·034 | —·018 | .. | 3·9 | 71·4 | 62·1 | 91·1 | —0·2 | 115·2 | 64·9 | +0·8 | 36·4 | 62 | +2 | 1·4 | 15·88 | +1·41 | 23 | —0·8 | 3·96 |
| Ambala (892) | 28·867 | —·009 | .. | 3·3 | 71·8 | 62·9 | 89·3 | +1·4 | 115·7 | 64·7 | +2·0 | 37·0 | 64 | —6 | 3·2 | 28·33 | —2·16 | 36 | —6·4 | 4·29 |
| Ludhiana (812) | 28·952 | —·007 | .. | 2·1 | 71·3 | 62·3 | 89·4 | +1·6 | 115·5 | 64·0 | 0 | 38·0 | 63 | —2 | 2·5 | 17·65 | —11·06 | 33 | —3·3 | 3·41 |
| Lahore (702) | 29·058 | —·009 | .. | 1·4 | 70·9 | 63·2 | 89·1 | —0·7 | 115·5 | 64·7 | +2·7 | 38·0 | 68 | +1 | 3·0 | 18·59 | —1·03 | 27 | —1·1 | 4·18 |
| Sialkot (830) | 28·937 | —·005 | .. | 1·5 | 70·6 | 62·3 | 87·5 | +0·4 | 115·1 | 62·1 | —0·3 | 33·5 | 66 | —2 | 2·1 | 32·80 | +1·78 | 38 | —2·5 | 4·26 |
| Rawalpindi (1,674) | 28·110 | —·004 | .. | 2·6 | 68·4 | 58·4 | 84·6 | +0·5 | 109·4 | 59·4 | +1·7 | 32·3 | 61 | —4 | 2·7 | 27·60 | —7·17 | 49 | +0·8 | 5·82 |

* Height changed to 131 feet from 9th August 1928.
*N. B.*—Elevation in italics indicate barometrical determination.

† Mean of 11 months.

# ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs.* observations.*

| Station and height of bar cistern above sea-level in feet. | Pressure. | | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Mean 8 h. | | Maximum. | | | Minimum. | | | | | | | | | | |
| | Mean 8 h. reduced to 32° and standard gravity. | Departure from normal. | Mean direction at 8 h. | Mean velocity in miles per hour. | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest during year. | Mean. | Departure from normal. | Lowest during year. | Mean 8 h. | Departure from normal. | Mean amount 8h. | Total of the year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall during year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| **Punjab, South-West.** | | | | | | | | | | | | | | | | | | | | |
| Khushab (612) | 29·168 | —·003 | .. | 4·0 | 72·4 | 61·5 | 89·5 | 0 | 114·5 | 64·4 | +0·7 | 34·2 | 54 | —1 | 2·6 | 12·84 | —2·05 | 23 | —0·9 | 3·25 |
| Lyallpur (605) | 29·157 | —·007 | .. | 2·0 | 70·9 | 61·9 | 88·7 | 0 | 113·7 | 64·0 | +2·3 | 34·1 | 62 | —3 | 3·8 | 19·31 | +4·90 | 18 | —5·1 | 5·88 |
| Montgomery (558) | 29·201 | —·012 | .. | 3·1 | 72·6 | 63·8 | 90·0 | —1·1 | 113·8 | 65·4 | +1·2 | 36·1 | 63 | +10 | 2·1 | 10·11 | —0·45 | 18 | —0·1 | 4·03 |
| Multan (426) | 29·348 | +·002 | .. | 2·3 | 72·8 | 63·4 | 92·7 | +1·0 | 116·7 | 67·1 | +1·2 | 36·3 | 61 | +1 | 1·7 | 3·33 | —3·87 | 10 | —2·8 | 0·92 |
| Khanpur (297) | 29·473 | .. | .. | 1·5 | 73·5 | 66·1 | 95·3 | .. | 117·3 | 60·3 | .. | 30·1 | 66 | .. | 1·8 | 10·33 | .. | 4 | .. | 6·50 |
| **Kashmir.** | | | | | | | | | | | | | | | | | | | | |
| Srinagar (5,204) | 24·860 | +·005 | .. | 2·3 | 52·6 | (s)52·4 | 68·5 | +2·4 | 97·8 | 45·3 | +1·1 | 21·5 | (s)77 | (s)—6 | 4·4 | 33·26 | +7·39 | 57 | —1·6 | 4·03 |
| Gulmarg (*8,569*) (o) | 21·787 | +·014 | .. | 2·9 | 61·1 | 54·6 | 68·9 | +1·4 | 79·0 | 47·4 | +0·1 | 34·9 | 69 | —7 | 3·5 | 11·05 | —2·09 | 26 | —1·7 | 3·04 |
| Dras (*10,059*) | 20·794 | +·023 | .. | 2·9 | 31·3 | .. | 47·2 | —2·2 | 84·7 | 23·4 | +2·4 | —27·7 | ‡64 | 0 | 4·1 | 38·08 | +16·56 | 69 | +13·9 | 4·15 |
| Leh (*11,503*) | 19·684 | +·011 | .. | 1·5 | 36·5 | .. | 55·3 | —0·1 | 84·3 | 30·7 | +1·1 | 1·3 | ‡53 | ‡+5 | 5·1 | 3·81 | +0·63 | 12 | +2·4 | 0·25 |
| Skardu (*7,505*) | 22·855 | +·010 | .. | 1·4 | 47·3 | .. | 62·5 | —0·1 | 97·9 | 41·7 | +1·2 | 11·0 | §70 | §+11 | 4·9 | 8·66 | +1·70 | 23 | +4·6 | 0·86 |
| Gilgit (4,890) | 25·027 | —·081 | .. | 0·7 | 56·1 | 50·2 | 71·6 | —1·4 | 100·4 | 51·7 | —0·6 | 28·2 | 66 | +14 | 4·7 | 10·02 | +5·21 | 14 | —1·2 | 2·08 |
| **North-West Frontier Province.** | | | | | | | | | | | | | | | | | | | | |
| Peshawar (1,113) | 28·684 | —·010 | .. | 0·2 | 67·4 | 60·5 | 86·1 | +0·6 | 116·0 | 61·3 | +2·0 | 33·0 | 70 | +6 | 2·7 | 15·40 | +1·89 | 27 | +1·1 | 1·50 |
| Dera Ismail Khan (590) | 29·201 | —·001 | .. | 1·4 | 71·9 | 63·1 | 89·6 | —0·1 | 114·9 | 63·0 | +0·4 | 34·8 | 62 | —3 | 2·1 | 7·95 | —1·14 | 12 | —4·3 | 1·75 |
| **Baluchistan.** | | | | | | | | | | | | | | | | | | | | |
| Fort Sandeman (4,614) | 25·348 | +·011 | .. | 1·9 | 58·9 | (x)51·5 | 81·2 | +0·5 | 107·7 | 54·2 | +1·4 | 20·1 | (x) 50 | —4 | 1·9 | 9·82 | —1·47 | 24 | —2·3 | 1·30 |
| Quetta (5,502) | 24·615 | +·028 | .. | 2·0 | 51·1 | †50·9 | 75·0 | +1·3 | 101·1 | 43·0 | —1·1 | 7·8 | †51 | †—1 | 2·2 | 9·21 | —0·54 | 22 | —2·2 | 1·66 |
| Chaman (4,311) | 25·602 | —·030 | .. | 4·7 | 61·2 | 48·0 | 79·3 | +1·3 | 109·5 | 56·3 | +2·5 | 18·3 | 36 | —12 | 2·5 | 5·65 | —1·57 | 14 | —5·4 | 1·27 |
| Kalat (6,623) | 23·690 | —·011 | .. | 3·2 | 46·6 | .. | 71·4 | —1·5 | 94·8 | 40·0 | +2·8 | 6·7 | †65 | †+17 | 1·5 | 4·50 | —2·14 | 12 | —6·1 | 0·64 |
| Dalbandin (2,772) | 27·023 | —·021 | .. | 4·0 | 62·3 | 50·3 | 88·6 | +1·2 | 114·9 | (x)56·7 | +2·5 | 12·1 | 43 | —3 | 2·1 | 4·85 | +1·02 | 8 | —1·9 | 1·71 |
| **Sind.** | | | | | | | | | | | | | | | | | | | | |
| Jacobabad (186) | 29·598 | +·009 | .. | 2·2 | 75·2 | 63·9 | 96·3 | +0·6 | 119·9 | 66·9 | +1·2 | 30·3 | 51 | —7 | 1·3 | 0·99 | —2·78 | 3 | —4·5 | 0·40 |
| Hyderabad (96) | 29·704 | +·009 | .. | 6·0 | 75·8 | 66·1 | 94·4 | +1·1 | 116·2 | (x) 71·0 | +2·8 | 41·4 | 58 | —2 | 2·2 | 2·14 | —4·98 | 5 | —4·6 | 0·73 |
| Karachi (13) | 29·803 | —·004 | .. | 8·9 | 75·0 | 69·5 | 83·6 | —0·6 | 97·2 | 71·8 | +0·4 | 48·2 | 74 | +1 | 4·2 | 2·39 | —5·17 | 5 | —4·3 | 0·78 |
| **Rajputana, West.** | | | | | | | | | | | | | | | | | | | | |
| Bikaner (*771*) | 29·011 | +·004 | .. | 5·9 | 74·0 | 62·6 | 91·6 | —0·5 | 115·7 | (x) 70·4 | +1·5 | 39·4 | 52 | —1 | 2·5 | 11·96 | +0·17 | 16 | —3·5 | 2·77 |
| Jodhpur (780) | 29·015 | —·003 | .. | 3·1 | 74·0 | 63·1 | 92·7 | +0·3 | 113·3 | 69·0 | +1·2 | 40·9 | 52 | +4 | 3·1 | 14·22 | +0·60 | 19 | +0·1 | 2·63 |
| **Rajputana, East.** | | | | | | | | | | | | | | | | | | | | |
| Jaipur (1,431) | 28·380 | +·008 | .. | 3·0 | 75·2 | 63·3 | 90·9 | +0·2 | 113·5 | 67·2 | +1·5 | 38·8 | 53 | —1 | 2·6 | 16·74 | —7·47 | 31 | —4·7 | 4·39 |
| Ajmer (1,611) | 28·211 | +·011 | .. | 4·3 | 72·8 | 62·3 | 88·6 | +0·1 | 108·5 | 65·3 | +0·1 | 34·4 | 56 | —6 | 3·0 | 24·22 | +3·57 | 31 | +1·0 | 6·48 |
| Kotah (834) | 28·939 | —·021 | .. | 2·9 | 77·3 | 65·4 | 91·6 | —0·5 | 114·6 | 69·7 | —0·3 | 44·2 | 54 | +4 | 2·5 | 25·81 | —2·42 | 38 | +2·2 | 3·50 |

* Observations at Baluchistan stations refer to 7 hours local time.

(o) Mean of 4 months. ‡ Mean of 6 months. † Mean of 8 months. § Mean of 9 months. (s) Mean of 10 months. (x) Mean of 11 months.

*N. B.*—Elevation in italics indicate barometrical determination.

# ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of bar-cistern above sea-level in feet. | Pressure. | | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Mean 8 h. | | Maximum. | | | Minimum. | | | | | | | | | | |
| | Mean 8 h. reduced to 32° and standard gravity. | Departure from normal. | Mean direction at 8 h. | Mean velocity in miles per hour. | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest during year. | Mean. | Departure from normal. | Lowest during year. | Mean 8 h. | Departure from normal. | Mean amount 8h. | Total of the year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall during year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| **Gujarat.** | | | | | | | | | | | | | | | | | | | | |
| Deesa (466) | 29·368 | +·016 | .. | 7·1 | 76·3 | 66·4 | 94·8 | +0·6 | 112·3 | 66·2 | —0·7 | 41·9 | 57 | 0 | 3·9 | 15·91 | —8·79 | 26 | —2·7 | 1·65 |
| Bhuj (334) | 29·478 | —·004 | .. | 5·9 | 76·0 | 67·1 | 90·3 | —0·8 | 110·4 | (s) 68·4 | 0 | 36·5 | 61 | —6 | 2·1 | 11·31 | —3·08 | 16 | —0·3 | 2·00 |
| Dwarka (37) | 29·797 | —·005 | .. | 9·2 | 76·9 | 71·2 | 83·6 | —0·8 | 98·9 | 73·0 | +0·1 | 51·1 | 75 | —2 | 3·8 | 21·39 | +7·87 | 19 | +2·4 | 5·16 |
| Rajkot (434) | 29·381 | —·010 | .. | 7·3 | 74·6 | 66·7 | 93·0 | +0·1 | 110·0 | 67·2 | +1·1 | 38·0 | 65 | 0 | 4·3 | 23·76 | —2·53 | 34 | +2·8 | 5·45 |
| Veraval (*18*) | 29·826 | +·011 | .. | 8·0 | 75·9 | 69·7 | 84·6 | —0·2 | 98·8 | 72·6 | +1·3 | 51·6 | 72 | +1 | 3·3 | 12·79 | —6·01 | 21 | —4·3 | 2·88 |
| Surat (39) | 29·805 | +·006 | .. | 3·3 | 77·2 | 70·9 | 90·6 | —0·9 | 108·5 | 71·3 | +1·4 | 48·2 | 72 | +2 | 4·1 | 30·44 | —10·53 | 48 | +1·3 | 2·68 |
| Bhavnagar (55) | 29·786 | +·003 | .. | 4·4 | 76·4 | 67·9 | 94·0 | +0·4 | 111·6 | 69·3 | +0·1 | 45·1 | 63 | —1 | 3·5 | 19·61 | —1·59 | 33 | +3·3 | 3·11 |
| Ahmadabad (163) | 29·693 | +·024 | .. | 5·8 | 76·4 | 67·7 | 93·9 | —0·7 | 111·8 | 69·8 | —0·8 | 46·0 | 63 | +4 | 2·6 | 35·00 | +6·17 | 44 | +9·0 | 2·60 |
| **Central India, West.** | | | | | | | | | | | | | | | | | | | | |
| Neemuch (1,626) | 28·179 | —·015 | .. | 4·9 | 73·5 | 63·6 | 88·1 | —0·7 | 111·1 | 65·2 | +0·7 | 40·2 | 59 | +1 | 2·5 | 34·27 | +5·08 | 34 | —2·2 | 5·65 |
| Indore (1,821) | 27·983 | —·019 | .. | 4·3 | 73·4 | 64·0 | 87·5 | —0·7 | 107·6 | 63·8 | —0·1 | 39·0 | 61 | —1 | 4·0 | 43·09 | +9·97 | 53 | +7·2 | 8·26 |
| **Central India, East.** | | | | | | | | | | | | | | | | | | | | |
| Nowgong (754) | 29·040 | +·008 | .. | 1·7 | 72·7 | 66·8 | 91·5 | +2·2 | 115·0 | 65·8 | +0·2 | 39·0 | 77 | +12 | 2·8 | 45·12 | +2·38 | 46 | —2·0 | 6·82 |
| Sutna (1,041) | 28·735 | —·001 | .. | 2·2 | 76·8 | 66·6 | 89·8 | +1·8 | 114·8 | 68·0 | +2·1 | 37·4 | 60 | —2 | 3·2 | 28·30 | —16·47 | 49 | —5·9 | 3·12 |
| **Berar.** | | | | | | | | | | | | | | | | | | | | |
| Akola (925) | 28·876 | —·015 | .. | 4·2 | 76·4 | 65·9 | 94·1 | +0·9 | 114·9 | 69·1 | +1·7 | 44·5 | 57 | +1 | 3·8 | 31·92 | +0·57 | 47 | +1·6 | 3·70 |
| Amraoti (1,215) | 28·593 | —·003 | .. | 5·9 | 78·0 | 67·0 | 91·9 | —0·2 | 113·8 | 70·1 | +0·9 | 50·2 | 57 | 0 | 2·9 | 31·41 | —1·64 | 50 | +2·4 | 2·41 |
| **Central Provinces, West.** | | | | | | | | | | | | | | | | | | | | |
| Khandwa (1,044) | 28·757 | —·014 | .. | 5·2 | 74·8 | 66·3 | 93·0 | +0·9 | 113·2 | 67·0 | —0·1 | 41·8 | 64 | +6 | 2·4 | 32·52 | +2·89 | 44 | +2·6 | 3·00 |
| Hoshangabad (1,006) | 28·812 | +·004 | .. | 2·6 | 74·8 | 65·3 | 91·5 | +1·2 | 114·7 | 67·4 | +0·6 | 43·4 | 61 | —3 | 3·7 | 60·74 | +11·91 | 53 | —2·3 | 8·75 |
| Saugor (1,808) | 27·980 | —·011 | .. | 4·0 | 74·7 | 63·4 | 87·8 | —0·1 | 110·2 | 66·6 | +0·1 | 43·4 | 56 | +1 | 3·8 | 43·81 | —1·14 | 55 | —0·9 | 4·50 |
| Jubbulpore (1,327) | 28·446 | —·015 | .. | 1·7 | 72·9 | 65·0 | 88·9 | +0·6 | 111·9 | 65·7 | +1·1 | 39·5 | 67 | +1 | 3·3 | 44·57 | —10·54 | 57 | —6·7 | 4·35 |
| Seoni (2,033) | 27·765 | —·014 | .. | 2·9 | 75·0 | 64·8 | 87·5 | —0·1 | 110·5 | 65·5 | +0·9 | 42·5 | 59 | —2 | 3·1 | 57·56 | +4·34 | 62 | —8·2 | 6·35 |
| Nagpur (1,017) | 28·790 | +·006 | .. | 3·5 | 76·8 | 65·6 | 92·6 | +0·6 | 115·6 | 69·3 | +0·5 | 44·8 | 55 | —4 | 3·4 | 37·30 | —11·58 | 48 | —14·8 | 2·86 |
| **Central Provinces, East.** | | | | | | | | | | | | | | | | | | | | |
| Pendra (2,040) | 27·748 | —·014 | .. | 3·4 | 73·0 | 65·4 | 86·2 | +0·7 | 111·0 | 65·9 | +0·8 | 42·2 | 68 | +7 | 4·5 | 52·86 | +2·80 | 82 | +8·5 | 5·75 |
| Raipur (970) | 28·813 | —·007 | .. | 2·3 | 77·3 | 68·7 | 91·4 | +1·2 | 116·6 | 69·7 | +0·6 | 45·1 | 67 | +3 | 3·9 | 40·43 | —10·40 | 64 | +0·7 | 2·88 |
| Kanker (1,800) | 28·490 | .. | .. | 3·4 | 76·6 | 67·8 | 90·0 | .. | 112·5 | 67·1 | .. | 38·4 | 65 | .. | 3·6 | 41·16 | .. | 60 | .. | 3·36 |
| Chanda (*634*) | 29·163 | —·013 | .. | 2·0 | 78·1 | 69·0 | 93·7 | +0·9 | 117·0 | 69·5 | +0·9 | 42·6 | 65 | 0 | 2·4 | 41·48 | —10·42 | 56 | —6·5 | 3·76 |
| Jagdalpur (1,813) | 27·990 | —·010 | .. | 1·7 | 73·1 | 68·6 | 88·0 | +0·7 | 110·7 | 66·2 | +0·5 | 41·3 | 80 | +4 | 4·6 | 67·58 | +7·01 | 86 | +2·9 | 5·20 |

(s) Mean of 11 months.

*N. B.*—Elevation in italics indicate barometrical determination.

# ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of bar-cistern above sea-level in feet. | Pressure. | | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Mean 8 h. | | Maximum. | | | Minimum. | | | | | | | | | | |
| | Mean 8 h. reduced to 32°, and standard gravity. | Departure from normal. | Mean direction at 8 h. | Mean velocity in miles per hour. | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest during year. | Mean. | Departure from normal. | Lowest during year. | Mean 8 h. | Departure from normal. | Mean amount 8 h. | Total of the year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall during year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| **Konkan.** | | | | | | | | | | | | | | | | | | | | |
| Bombay (37) | 29·806 | —·004 | .. | 6·6 | 78·1 | 73·2 | 87·2 | +0·6 | 95·2 | 74·6 | +1·0 | 59·9 | 78 | 0 | 3·9 | 85·73 | +15·10 | 74 | +1·5 | 9·87 |
| Ratnagiri (207) | 29·632 | —·007 | .. | 6·1 | 79·0 | 72·5 | 86·3 | —0·9 | 94·8 | 73·3 | +0·1 | 59·7 | 72 | 0 | 2·6 | 116·37 | +16·39 | 105 | +12·3 | 6·93 |
| Marmagao (*53*) | 29·788 | —·007 | .. | 1·3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 5·3 | 107·25 | +12·30 | 89 | —7·3 | 6·11 |
| Karwar (44) | 29·814 | 0 | .. | 2·6 | 76·2 | 72·7 | 87·0 | +0·9 | 94·9 | 73·1 | +0·4 | 62·0 | 84 | 0 | 3·9 | 151·17 | +31·05 | 107 | +2·8 | 13·03 |
| **Bombay Deccan.** | | | | | | | | | | | | | | | | | | | | |
| Malegaon (1,430) | 28·398 | 0 | .. | (s) 4·5 | 75·0 | 64·7 | 92·0 | —0·2 | 110·8 | 64·8 | —0·5 | 40·2 | 57 | 0 | 4·2 | 30·30 | +8·07 | 32 | —2·5 | 3·48 |
| Ahmadnagar (2,154) | 27·702 | +·003 | .. | 4·7 | 75·0 | 63·6 | 88·8 | —0·8 | 106·3 | 63·7 | —0·3 | 41·9 | 53 | —7 | 2·1 | 36·03 | +13·70 | 39 | +2·9 | 4·53 |
| Poona (1,846) | 27·999 | —·002 | .. | 3·7 | 72·4 | 64·7 | 89·4 | —0·1 | 106·1 | 64·7 | +0·1 | 42·4 | 66 | +1 | 3·5 | 19·56 | —7·55 | 39 | —8·4 | 1·85 |
| Sholapur (1,570) | 28·259 | —·005 | .. | 5·7 | 76·8 | 66·6 | 92·3 | +0·9 | 110·2 | 70·1 | +0·3 | 48·0 | 58 | +3 | 3·1 | 33·15 | +4·70 | 46 | +4·7 | 3·95 |
| Bijapur (*1,948*) | 27·905 | +·010 | .. | 5·0 | 75·3 | 66·4 | 89·9 | —0·7 | 107·6 | 68·1 | +0·3 | 46·2 | 62 | —3 | 4·0 | 27·12 | +6·22 | 37 | +0·9 | 2·37 |
| Belgaum (2,562) | 27·313 | +·008 | .. | 3·1 | 70·9 | 65·1 | 85·4 | +0·8 | 101·2 | 65·3 | +1·2 | 52·7 | 73 | +2 | 4·6 | 45·86 | —4·27 | 74 | —6·9 | 2·68 |
| **Hyderabad, North.** | | | | | | | | | | | | | | | | | | | | |
| Aurangabad (1,905) | 27·936 | —·015 | .. | 7·7 | 74·9 | 63·5 | 89·9 | —0·7 | 108·1 | 66·8 | +0·7 | 47·0 | 54 | —1 | 4·5 | 29·62 | +2·09 | 39 | —4·6 | 2·67 |
| Nizamabad (1,248) | 28·551 | —·017 | .. | 2·1 | 76·1 | 67·4 | 92·3 | +0·3 | 112·2 | 69·7 | +1·1 | 45·7 | 65 | +1 | 2·3 | 62·21 | +22·13 | 64 | +8·3 | 4·70 |
| **Hyderabad, South.** | | | | | | | | | | | | | | | | | | | | |
| Gulbarga (1,503) | 28·337 | +·008 | .. | 7·0 | 77·3 | 67·1 | (s)93·5 | +0·7 | 112·8 | 69·5 | +0·4 | 50·4 | 59 | —4 | 3·1 | 37·46 | +6·38 | 42 | —6·3 | 5·80 |
| Raichur (*1,311*) | 28·517 | —·003 | .. | 6·4 | 77·9 | 70·1 | 92·4 | 0 | 114·4 | 70·7 | —1·1 | 53·8 | 68 | +4 | 1·5 | 32·52 | +4·52 | 47 | +2·3 | 2·75 |
| Hyderabad (*1,719*) | 28·116 | +·006 | .. | 3·9 | 75·9 | 68·3 | 91·4 | +1·0 | 110·7 | 70·3 | +0·7 | 52·2 | 68 | —1 | 4·7 | 29·95 | —2·32 | 53 | +2·9 | 4·06 |
| Hanamkonda (877) | 28·929 | —·009 | .. | 5·3 | 78·2 | 71·1 | 92·3 | +0·5 | 115·7 | 73·1 | +1·1 | 51·5 | 71 | +5 | 5·2 | 42·51 | +8·09 | 59 | +8·5 | 3·05 |
| **Mysore.** | | | | | | | | | | | | | | | | | | | | |
| Chitaldrug (2,405) | 27·465 | +·007 | .. | 5·3 | 73·2 | 67·4 | 88·0 | +1·0 | 103·6 | 68·5 | +1·0 | 56·1 | 74 | +4 | 5·5 | 32·69 | +7·79 | 53 | +5·9 | 3·71 |
| Bangalore (3,021) | 26·887 | +·009 | .. | 6·6 | 71·2 | 66·0 | 86·1 | +1·5 | 99·6 | 65·4 | +1·1 | 54·4 | 76 | —2 | 6·1 | 38·32 | +2·95 | 52 | —6·9 | 2·62 |
| Mysore (2,518) | 27·366 | —·004 | .. | 4·6 | 72·1 | 67·3 | 87·1 | +0·8 | 100·2 | 67·0 | +1·1 | 57·2 | 78 | +2 | 5·3 | 25·35 | —6·05 | 52 | —2·8 | 1·76 |
| **Malabar.** | | | | | | | | | | | | | | | | | | | | |
| Mangalore (72) | 29·789 | —·001 | .. | 4·4 | 79·8 | 74·9 | 87·5 | 0 | 95·1 | 74·8 | +0·7 | 66·8 | 79 | +1 | 5·2 | 127·39 | +1·71 | 132 | +15·5 | 5·65 |
| Calicut (27) | 29·829 | —·006 | .. | 4·4 | 79·9 | 75·0 | 89·0 | +2·6 | 95·1 | 74·9 | +0·4 | 63·1 | 79 | —5 | 6·8 | 93·65 | —23·51 | 111 | —2·9 | 3·33 |
| Cochin (9) | 29·860 | +·002 | .. | 4·6 | 80·5 | 75·8 | (s)85·2 | —2·6 | 92·4 | 76·0 | +1·0 | 70·6 | 80 | 0 | 5·6 | 98·15 | —16·41 | 125 | —4·5 | 5·89 |
| Trivandrum (198) | 29·643 | —·017 | .. | 5·2 | 78·7 | 75·2 | 84·5 | +0·2 | 90·9 | 76·1 | +1·0 | 70·0 | 84 | +2 | 6·5 | 53·18 | —11·33 | 84 | —10·8 | 3·56 |

(s) Mean of 11 months.

*N. B.*—Elevation in italics indicate barometrical determination.

# ANNUAL TABLE D-3 FOR 1928—*concld.*

*Abstract of 8 hrs.* observations.*

| Station and height of bar-cistern above sea-level in feet. | Pressure. | | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Mean 8 h. | | Maximum. | | | Minimum. | | | | | | | | | | |
| | Mean 8 h. reduced to 32° and standard gravity. | Departure from normal. | Mean direction at 8 h. | Mean velocity in miles per hour. | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest during year. | Mean. | Departure from normal. | Lowest during year. | Mean 8 h. | Departure from normal. | Mean amount 8 h. | Total of the year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall during year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| **Madras, Southeast.** | | | | | | | | | | | | | | | | | | | | |
| Pamban (37) | 29·796 | —·007 | .. | 7·9 | 81·8 | 77·0 | 87·0 | —0·7 | 93·8 | 78·6 | +1·1 | 71·9 | 81 | +1 | 4·0 | 40·46 | +3·46 | 46 | —0·5 | 3·45 |
| Madura (463) | 29·384 | +·003 | .. | 3·5 | 81·3 | 73·3 | 94·3 | +0·6 | 105·9 | 76·0 | +1·8 | 64·2 | 67 | —4 | 6·6 | 24·44 | —9·14 | 45 | —4·1 | 2·10 |
| Negapatam (31) | 29·811 | +·004 | .. | 6·6 | 81·1 | 75·2 | 90·1 | —0·1 | 104·8 | 77·6 | +1·4 | 68·3 | 75 | —1 | 6·0 | 71·20 | +16·22 | 60 | +4·2 | 4·22 |
| Trichinopoly (255) | 29·590 | —·004 | .. | 4·6 | 82·1 | 73·6 | 94·0 | —0·3 | 106·5 | 75·0 | +0·7 | 62·0 | 66 | —6 | 4·9 | 34·40 | +1·22 | 48 | +1·1 | 2·98 |
| Coimbatore (1,341) | 28·506 | —·006 | .. | 3·8 | 76·5 | 72·6 | 88·8 | —1·1 | 98·3 | 70·7 | +1·0 | 59·8 | 83 | +2 | 3·7 | 15·32 | —6·97 | 39 | —5·4 | 1·89 |
| Salem (913) | 28·941 | +·009 | .. | 4·7 | 78·5 | 72·1 | 93·3 | +0·3 | 106·1 | 72·7 | +1·5 | 61·0 | 73 | —4 | 4·3 | 32·93 | —6·37 | 68 | +4·6 | 2·12 |
| Cuddalore (42) | 29·806 | +·007 | .. | 5·6 | 80·9 | 75·6 | 90·2 | —0·3 | 108·1 | 75·7 | +0·9 | 62·5 | 78 | —2 | 5·7 | 63·67 | +15·73 | 68 | +11·6 | 4·54 |
| Madras (22) | 29·801 | —·013 | .. | 6·6 | 81·5 | 75·0 | 91·8 | +0·7 | 110·0 | 76·0 | +1·0 | 63·0 | 74 | —8 | 5·1 | 51·47 | +0·73 | 62 | +4·7 | 5·73 |
| **Madras Deccan.** | | | | | | | | | | | | | | | | | | | | |
| Cuddapah (428) | 29·413 | +·006 | .. | .. | 81·7 | 72·7 | 94·5 | —1·1 | 109·3 | 75·0 | +0·5 | 57·2 | 64 | —3 | 4·8 | 25·08 | —6·15 | 45 | —1·1 | 2·25 |
| Bellary (1,475)† | 28·356 | —·008 | .. | 4·6 | 77·5 | 67·4 | 91·6 | —1·7 | 1 06·8 | 71·5 | +0·6 | 55·6 | 59 | —2 | 4·0 | 16·01 | —4·50 | 21 | —14·3 | 2·77 |
| Kurnool (923) | 28·904 | —·002 | .. | 5·6 | 77·6 | 69·6 | 92·8 | —1·0 | 110·9 | 71·8 | +0·6 | 50·6 | 66 | —2 | 4·7 | 26·15 | +0·14 | 48 | +1·3 | 2·90 |
| **Madras Coast, North.** | | | | | | | | | | | | | | | | | | | | |
| Nellore (66) | 29·764 | +·005 | .. | 4·1 | 81·4 | 74·5 | 93·4 | —0·3 | 111·9 | 76·4 | +1·2 | 63·9 | 73 | —3 | 5·4 | 32·08 | —5·90 | 41 | —3·0 | 4·60 |
| Masulipatam (15) | 29·810 | —·009 | .. | 5·0 | 80·7 | 75·0 | 89·9 | —0·6 | 11[illegible]·0 | 75·4 | +0·9 | 60·8 | 76 | —5 | 4·9 | 35·36 | —6·23 | 52 | —2·5 | 6·31 |
| Cocanada (26) | 29·789 | —·008 | .. | 5·0 | 80·5 | 75·0 | 89·9 | +0·6 | 115·1 | 75·0 | 0 | 58·7 | 77 | —1 | 5·8 | 33·70 | —5·59 | 54 | +0·1 | 6·30 |
| Vizagapatam (38) | 29·765 | —·005 | .. | 6·8 | 80·6 | 75·5 | 86·8 | —0·2 | 106·2 | 76·2 | +0·8 | 61·9 | 78 | +5 | 5·2 | 53·48 | +16·39 | 58 | +7·1 | 10·27 |
| Calingapatam (19) | 29·786 | —·002 | .. | 6·1 | 79·0 | 74·7 | 87·9 | —0·8 | 102·2 | 74·4 | +0·6 | 57·0 | 83 | +2 | 4·1 | 40·69 | —3·52 | 57 | +3·9 | 3·84 |
| Gopalpur (56) | 29·742 | +·002 | .. | 6·6 | 79·0 | 75·3 | 87·3 | +1·2 | 99·0 | 73·2 | —0·1 | 52·6 | 83 | +2 | 3·7 | 44·07 | —0·89 | 69 | +12·8 | 3·24 |
| **Hill Stations, excluding Kashmir and Baluchistan.** | | | | | | | | | | | | | | | | | | | | |
| Maymyo (3,546) | 26·362 | —·009 | .. | 1·2 | 64·7 | 61·9 | 77·4 | +0·8 | 87·0 | 56·8 | +0·4 | 37·0 | 88 | +2 | 5·0 | 67·64 | +9·02 | 95 | +4·2 | 3·28 |
| Shillong (4,920) | 25·066 | —·006 | .. | 2·3 | 61·0 | 56·8 | 70·5 | +0·6 | 83·5 | 53·6 | +0·2 | 33·5 | 78 | +4 | 4·0 | 83·19 | —0·73 | 131 | +7·4 | 2·72 |
| Cherrapunji (4,309) | 25·646 | +·015 | .. | 4·9 | 63·9 | 59·0 | 69·2 | +0·5 | 82·0 | 58·2 | +1·1 | 42·3 | 75 | —6 | 6·1 | 394·47 | —29·60 | 171 | +11·8 | 18·32 |
| Darjilling (7,432) | 22·911 | +·006 | .. | 1·8 | 54·0 | 51·0 | 60·5 | +1·2 | 75·7 | 49·5 | +1·8 | 32·8 | 81 | —4 | 6·4 | 105·48 | —17·19 | 131 | +7·8 | 5·68 |
| Mukteswar (7,592) | 22·812 | +·020 | .. | †† 6·7 | 54·0 | 47·3 | 63·3 | —0·3 | 81·2 | 50·0 | +2·1 | 29·2 | 61 | 0 | 4·7 | 41·79 | —10·49 | 70 | —11·3 | 2·44 |
| Chakrata (6,922) | 23·362 | +·049 | .. | 6·7 | 56·8 | 49·8 | 64·8 | +0·5 | 87·3 | 50·4 | +0·9 | 27·4 | 61 | —3 | 4·9 | 56·95 | —14·73 | 88 | —0·5 | 2·43 |
| Simla (7,232) ✓ | 23·066 | +·015 | .. | 2·6 | 55·6 | ‡48·0 | 62·6 | +1·9 | 83·8 | 50·6 | +0·9 | 25·2 | † 52 | —5 | 4·8 | 53·75 | —9·82 | 94 | +6·8 | 2·60 |
| Murree (6,181) | 23·945 | +·019 | .. | 4·7 | 58·4 | ‡49·0 | 64·4 | —0·3 | 88·0 | 52·8 | +2·4 | 20·7 | 51 | —5 | 3·3 | 46·81 | —13·04 | 87 | +9·9 | 4·95 |
| Cherat (*4,256*) | 25·674 | +·027 | .. | 7·1 | 62·8 | 54·1 | 72·1 | —0·5 | 110·3 | † 60·0 | +3·5 | 28·0 | 59 | +7 | 2·5 | 27·48 | —0·03 | 37 | —5·0 | 2·50 |
| Parachinar (6,000) | ‡24·395 | +·004 | .. | 1·3 | 58·3 | ††52·2 | 71·1 | +0·8 | 97·3 | 47·3 | —0·6 | 8·0 | †† 49 | —5 | 2·3 | 27·32 | —2·20 | 61 | —3·8 | 2·30 |
| Drosh (4,500) | §25·025 | —·059 | .. | 2·7 | 56·8 | 49·8 | 72·3 | —0·4 | 110·2 | 53·1 | +1·2 | 25·6 | 64 | +6 | 3·5 | 21·03 | +4·28 | 50 | +10·0 | 2·05 |
| Mount Abu (3,945) | 25·980 | +·002 | .. | 4·9 | 68·0 | 57·7 | 75·2 | —0·6 | 94·4 | 62·2 | +0·2 | 41·4 | 56 | +2 | 3·8 | 55·10 | —5·66 | 53 | —0·7 | 6·25 |
| Pachmarhi (3,528) | 26·381 | +·004 | .. | 3·3 | 69·4 | 61·0 | 80·5 | +0·3 | 101·2 | 60·7 | —0·3 | 33·2 | 64 | +2 | 5·5 | 81·97 | +5·45 | 71 | —6·5 | 9·54 |
| Mercara (3,781) | 26·164 | +·002 | .. | 5·0 | 66·1 | 63·4 | 75·7 | —0·6 | 89·0 | 61·7 | +0·6 | 53·6 | 87 | +2 | 6·9 | 103·71 | —21·75 | 138 | +5·6 | 4·87 |
| Kodaikanal (7,688) ✓ | 22·780 | +·013 | .. | 6·9 | 57·7 | 52·0 | 65·4 | +0·3 | 75·8 | 51·4 | +0·4 | 42·8 | 70 | 0 | 5·3 | 67·46 | +5·28 | 108 | +1·4 | 3·19 |
| Coonoor (5,730) ** | 24·4 18 | .. | .. | 3·7 | 64·8 | 59·1 | 70·3 | .. | 79·0 | §56·7 | .. | 41·4 | 73 | .. | 6·5 | 55·44 | .. | 67 | .. | 3·24 |
| **Ceylon.** | | | | | | | | | | | | | | | | | | | | |
| Colombo (24)* | 29·837 | —·002 | .. | 3·4 | 76·4 | 73·9 | 86·3 | —0·8 | 92·0 | 75·3 | +0·1 | 65·9 | 89 | +4 | 7·3 | 99·08 | +14·92 | 125 | +14·0 | 3·86 |

* Observations at Colombo refer to 7 hours local time. †† Mean of 10 months. † Mean of 11 months. ** Mean of 8 months. § Mean of 6 months.
† Height changed to 1,473 feet from 15th December 1928.
*N. B.*—Elevation in italics indicate barometrical determination.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and standard gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in a month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Srimangal (Assam) (69). | January | 29·973 | —·008 | .. | .. | 57·6 | 55·7 | 77·5 | —3·1 | 84·8 | 49·4 | +1·6 | 44·2 | 88 | —4 | 1·5 | 0·42 | —0·07 | 1 | 0 | 0·42 |
| | February | ·911 | +·013 | .. | .. | 63·1 | 59·0 | 84·6 | +1·4 | 89·2 | 52·3 | +0·6 | 46·5 | 77 | —11 | 2·0 | 1·62 | +0·07 | 1 | —1·8 | 1·53 |
| | March | ·825 | —·010 | .. | .. | 72·8 | 67·2 | 91·3 | +2·2 | 96·4 | 62·6 | +1·7 | 50·0 | 73 | —11 | 2·7 | 1·07 | —3·18 | 3 | —2·5 | 0·40 |
| | April | ·744 | —·004 | .. | .. | 78·3 | 74·0 | 94·1 | +3·4 | 102·4 | 69·4 | +0·9 | 62·8 | 81 | —4 | 3·7 | 4·61 | —6·11 | 5 | —6·6 | 2·35 |
| | May | ·660 | +·006 | .. | .. | 77·4 | 74·3 | 90·5 | —0·7 | 97·7 | 71·6 | —0·4 | 67·3 | 86 | +1 | 6·5 | 30·43 | +15·47 | 20 | +5·9 | 6·55 |
| | June | ·503 | —·033 | .. | .. | 79·8 | 77·4 | 89·1 | —1·1 | 94·0 | 76·2 | +0·9 | 73·3 | 90 | +3 | 7·0 | 9·85 | —7·20 | 19 | —1·1 | 1·70 |
| | July | ·553 | +·016 | .. | .. | 80·7 | 78·5 | 89·7 | —0·6 | 96·2 | 76·9 | +0·7 | 73·4 | 90 | +2 | 7·3 | 12·41 | —4·06 | 24 | +2·3 | 1·80 |
| | August | ·593 | +·016 | .. | .. | 80·0 | 78·2 | 89·5 | —0·8 | 94·1 | 76·3 | +0·3 | 70·0 | 92 | +3 | 8·1 | 14·31 | +1·07 | 24 | +3·4 | 2·80 |
| | September | ·690 | +·026 | .. | .. | 80·3 | 78·5 | 89·7 | —1·1 | 93·7 | 76·7 | +1·7 | 71·0 | 92 | +4 | 6·8 | 10·62 | —1·22 | 20 | +3·8 | 1·80 |
| | October | ·825 | +·042 | .. | .. | 77·0 | 75·4 | 86·2 | —3·4 | 92·7 | 71·9 | +1·8 | 65·5 | 93 | +5 | 5·3 | 19·71 | +12·89 | 16 | +7·6 | 3·50 |
| | November | ·952 | +·078 | .. | .. | 69·4 | 66·2 | 84·4 | —2·2 | 87·2 | 57·9 | —1·5 | 50·4 | 84 | —6 | 1·4 | 0·18 | —0·73 | 1 | —0·1 | 0·13 |
| | December | ·964 | +·025 | .. | .. | 61·4 | 58·8 | 80·9 | 0 | 84·4 | 49·9 | +1·2 | 44·7 | 85 | —7 | 0·9 | 0 | —0·23 | 0 | —0·6 | 0 |
| | Year | 29·766 | +·014 | .. | .. | 73·1 | 70·3 | 87·3 | —0·5 | 102·4 | 65·9 | +0·8 | 44·2 | 86 | —2 | 4·4 | 105·23 | +6·70 | 134 | + 10·3 | 6·55 |
| Noakhali (Bengal) (43). | January | 29·980 | +·006 | N 2° E | 0·6 | 61·5 | 59·5 | 79·6 | +1·7 | 87·4 | 58·2 | +4·7 | 51·8 | 89 | +1 | 2·2 | 0 | —0·27 | 0 | —0·6 | 0 |
| | February | ·930 | —·005 | N 28° E | 1·4 | 66·9 | 62·3 | 84·4 | +3·6 | 89·4 | 61·7 | +3·8 | 54·8 | 77 | —8 | 2·3 | 0 | —1·13 | 0 | —1·8 | 0 |
| | March | ·863 | —·006 | S 18° E | 3·6 | 75·7 | 72·3 | 88·2 | +1·8 | 93·8 | 71·4 | +3·7 | 61·8 | 85 | +1 | 3·1 | 1·68 | —0·97 | 1 | —2·4 | 1·68 |
| | April | ·785 | —·005 | S 13° E | 3·8 | 80·6 | 75·8 | 90·7 | +2·2 | 97·3 | 75·8 | +2·1 | 66·8 | 80 | —1 | 3·9 | 0·22 | —6·18 | 1 | —5·3 | 0·10 |
| | May | ·682 | —·019 | S 51° E | 6·2 | 83·2 | 79·0 | 89·0 | —0·1 | 92·8 | 76·3 | +0·4 | 68·2 | 83 | +1 | 4·9 | 13·40 | +2·00 | 11 | +0·4 | 2·56 |
| | June | ·518 | —·066 | S 42° E | 6·9 | 81·1 | 78·7 | 86·5 | —0·4 | 94·2 | 78·2 | +0·9 | 74·8 | 90 | +2 | 6·8 | 25·86 | +3·87 | 21 | +2·4 | 3·78 |
| | July | ·563 | —·003 | S 45° E | 6·0 | 81·8 | 79·0 | 86·1 | +0·3 | 90·0 | 78·2 | +0·5 | 74·8 | 89 | —1 | 6·1 | 22·99 | —1·36 | 21 | —1·6 | 3·75 |
| | August | ·605 | —·009 | S 47° E | 4·9 | 80·8 | 78·5 | 86·9 | +1·3 | 91·3 | 78·3 | +0·9 | 74·8 | 90 | 0 | 6·8 | 22·15 | —4·06 | 23 | —0·4 | 3·02 |
| | September | ·711 | —·002 | S 56° E | 4·1 | 81·2 | 79·0 | 87·3 | +0·7 | 90·2 | 78·9 | +1·4 | 70·2 | 90 | 0 | 6·4 | 6·55 | —10·08 | 18 | +2·1 | 0·70 |
| | October | ·847 | +·010 | S 81° E | 2·9 | 78·7 | 76·8 | 86·4 | +0·1 | 90·2 | 76·2 | +2·3 | 74·6 | 91 | +3 | 6·2 | 17·63 | +9·27 | 16 | +8·4 | 3·35 |
| | November | ·967 | + ·037 | N 27° E | 1·4 | 70·5 | 67·4 | 83·6 | +0·6 | 87·4 | 65·8 | +1·5 | 59·2 | 85 | —2 | 1·5 | 0 | —1·74 | 0 | —1·8 | 0 |
| | December | ·974 | —·017 | N 6° E | 2·2 | 63·5 | 61·1 | 80·5 | +2·5 | 83·4 | 59·6 | +4·7 | 54·8 | 87 | 0 | 1·8 | 0 | —0·28 | 0 | —0·4 | 0 |
| | Year | 29·785 | —·010 | .. | 3·7 | 75·5 | 72·5 | 85·8 | +1·2 | 97·3 | 71·5 | +2·2 | 51·8 | 86 | —1 | 4·3 | 109·98 | —10·93 | 112 | —1·0 | 3·78 |

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea-level in feet. | Month. | Pressure. | | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | At 8 h. reduced to 32° and standard gravity. | Departure from normal. | Mean direction at 8 h. | Mean velocity in miles per hour. | Mean 8 h. | | Maximum. | | | Minimum. | | | Mean 8 h. | Departure from normal. | Mean amount 8 h. | Total of the month or year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall in month or year. |
| | | | | | | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest in month or year. | Mean. | Departure from normal. | Lowest in month or year. | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Midnapore (Bengal) (149). | January | 29·889 | +·012 | N | 1·8 | 62·1 | 57·1 | 81·8 | +1·0 | 90·3 | 58·2 | +2·2 | 48·6 | 72 | +1 | 3·2 | 0·89 | +0·43 | 2 | + 1·1 | 0·57 |
| | February | ·831 | +·015 | N 16° W | 1·9 | 68·5 | 61·4 | 86·7 | +1·2 | 96·6 | 62·2 | + 1·1 | 56·6 | 65 | —3 | 1·5 | 0 | —1·20 | 0 | —1·8 | 0 |
| | March | ·716 | —·005 | N 79° W | 2·6 | 78·7 | 66·0 | 99·1 | +4·4 | 104·7 | 70·3 | +1·0 | 61·3 | 49 | —18 | 2·3 | 0·49 | —0·94 | 1 | —1·5 | 0·40 |
| | April | ·629 | +·014 | S | 3·4 | 82·4 | 74·5 | 99·0 | —1·6 | 107·9 | 75·9 | 0 | 64·5 | 69 | —1 | 1·7 | 3·87 | +2·00 | 3 | —0·5 | 2·14 |
| | May | ·502 | —·015 | S 27° E | 4·5 | 85·3 | 79·7 | 99·0 | —0·5 | 107·6 | 78·8 | +0·6 | 71·6 | 77 | +3 | 4·7 | 4·97 | —0·35 | 10 | +2·7 | 1·25 |
| | June | ·348 | —·045 | S 22° W | 2·5 | 82·5 | 79·1 | 91·0 | —2·4 | 105·6 | 78·3 | —0·5 | 72·6 | 86 | +4 | 8·1 | 16·18 | +5·68 | 17 | +4·0 | 4·12 |
| | July | ·386 | +·008 | S 21° E | 2·5 | 82·2 | 79·5 | 88·8 | —1·3 | 92·4 | 78·5 | —0·3 | 74·4 | 88 | +3 | 9·2 | 17·89 | +5·36 | 14 | —1·9 | 4·50 |
| | August | ·445 | +·018 | S 11° E | 1·4 | 82·8 | 80·0 | 90·1 | +0·7 | 96·0 | 79·0 | +0·7 | 72·5 | 88 | +1 | 9·0 | 14·21 | +1·99 | 17 | +0·6 | 2·40 |
| | September | ·551 | +·008 | S 30° E | 1·2 | 83·3 | 80·2 | 90·3 | +0·6 | 93·2 | 79·5 | +1·6 | 75·2 | 87 | +1 | 6·2 | 5·84 | —2·91 | 9 | —3·2 | 1·46 |
| | October | ·708 | +·009 | N 74° E | 1·5 | 80·7 | 78·0 | 88·5 | —0·9 | 91·8 | (c) 76·6 | +3·2 | 73·0 | 88 | +8 | 5·7 | 4·27 | +0·63 | 9 | +3·6 | 0·81 |
| | November | ·857 | +·042 | N 11° W | 1·1 | 72·4 | 66·8 | 86·0 | +1·4 | 91·2 | (c) 64·6 | +1·1 | 56·5 | 73 | +2 | 2·0 | 0 | —0·88 | 0 | —1·1 | 0 |
| | December | ·894 | +·010 | N 15° W | 1·9 | 66·1 | 59·9 | 80·7 | +1·0 | 84·6 | (c) 57·7 | +2·5 | 53·5 | 68 | 0 | 2·5 | 0 | —0·25 | 0 | —0·3 | 0 |
| | Year | 29·646 | +·006 | .. | 2·2 | 77·3 | 71·9 | 90·1 | +0·3 | 107·9 | 71·6 | +1·1 | 48·6 | 76 | 0 | 4·7 | 68·61 | +9·56 | 82 | +1·7 | 4·50 |
| Khulna (Bengal) (16). | January | 30·019 | .. | N 31° E | 2·0 | 63·7 | 59·5 | 79·6 | .. | 89·2 | 56·0 | .. | 46·8 | 76 | .. | 1·7 | 0 | .. | 0 | .. | 0 |
| | February | 29·958 | .. | N 17° E | 2·3 | 69·6 | 62·1 | 84·9 | .. | 89·9 | 59·3 | .. | 53·9 | 63 | .. | 1·0 | 0·02 | .. | 0 | .. | 0·02 |
| | March | ·855 | .. | S 83° W | 3·5 | 77·5 | 71·2 | 94·1 | .. | 97·6 | 68·7 | .. | 55·4 | 72 | .. | 3·7 | 0·05 | .. | 0 | .. | 0·05 |
| | April | ·776 | .. | S 62° W | 4·0 | 82·1 | 76·3 | 94·4 | .. | 101·7 | 75·0 | .. | 65·8 | 76 | .. | 4·7 | 0·82 | .. | 3 | .. | 0·50 |
| | May | ·660 | .. | S 13° W | 4·9 | 85·1 | 79·8 | 93·2 | .. | 96·2 | 76·8 | .. | 67·9 | 78 | .. | 5·4 | 7·74 | .. | 10 | .. | 2·91 |
| | June | ·483 | .. | S 15° W | 3·7 | 82·9 | 79·3 | 88·3 | .. | 95·1 | 78·0 | .. | 74·7 | 85 | .. | 8·6 | 15·20 | .. | 22 | .. | 3·80 |
| | July | 536 | .. | S 18° W | 3·9 | 83·1 | 79·5 | 88·4 | .. | 93·9 | 78·6 | .. | 74·0 | 85 | .. | 8·3 | 10·90 | .. | 16 | .. | 1·49 |
| | August | ·585 | .. | S 4° W | 2·7 | 82·9 | 79·5 | 88·9 | .. | 92·2 | 78·7 | .. | 75·2 | 86 | .. | 8·9 | 13·17 | .. | 19 | .. | 2·55 |
| | September | ·699 | .. | S 10° E | 2·2 | 84·3 | 80·1 | 90·0 | .. | 92·4 | 78·9 | .. | 73·9 | 83 | .. | 6·8 | 5·56 | .. | 9 | .. | 1·85 |
| | October | ·848 | .. | S 16° E | 2·0 | 81·7 | 77·9 | 87·6 | .. | 92·4 | 76·1 | .. | 71·9 | 84 | .. | 5·7 | 4·46 | .. | 11 | .. | 1·08 |
| | November | ·981 | .. | N 31° E | 1·2 | 74·1 | 68·9 | 84·7 | .. | 91·2 | 65·1 | .. | 56·4 | 76 | .. | 1·5 | 0 | .. | 0 | .. | 0 |
| | December | 30·005 | .. | N 18° E | 1·9 | 65·4 | 60·8 | 79·4 | .. | 83·3 | 57·3 | .. | 51·9 | 76 | .. | 1·4 | 0 | .. | 0 | .. | 0 |
| | Year | 29·784 | .. | .. | 2·9 | 77·7 | 72·9 | 87·8 | .. | 101·7 | 70·7 | .. | 46·8 | 78 | .. | 4·8 | 57·92 | .. | 90 | .. | 3·80 |

(c) Mean of 29 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of bar-cistern above sea-level in feet. | Month. | Pressure. At 8 h. reduced to 32° and standard gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Satkhira (Bengal). | January | 30·032 | .. | N 24° E | 0·8 | 59·1 | 57·3 | 81·9 | .. | 89·5 | 54·1 | .. | 44·3 | 89 | .. | 0·8 | 0·06 | .. | 0 | .. | 0·06 |
| | February | 29·970 | .. | N 8° E | 0·8 | 64·8 | 60·4 | 86·8 | .. | 92·0 | 58·3 | .. | 52·1 | 77 | .. | 1·6 | 0 | .. | 0 | .. | 0 |
| | March | ·865 | .. | S 53° W | 1·8 | 76·5 | 70·8 | 96·5 | .. | 101·2 | 68·6 | .. | 54·3 | 74 | .. | 2·0 | 0 | .. | 0 | .. | 0 |
| | April | ·783 | .. | S 28° W | 2·1 | 82·4 | 77·2 | 96·6 | .. | 104·1 | 74·8 | .. | 65·4 | 79 | .. | 2·4 | 4·36 | .. | 5 | .. | 1·35 |
| | May | ·672 | .. | S 11° E | 3·3 | 85·8 | 81·3 | 95·2 | .. | 98·7 | 80·1 | .. | 69·9 | 82 | .. | 4·1 | 8·13 | .. | 13 | .. | 1·69 |
| | June | ·501 | .. | S | 2·0 | 83·0 | 80·3 | 89·4 | .. | 98·5 | 78·3 | .. | 75·4 | 89 | .. | 6·0 | 14·01 | .. | 19 | .. | 3·18 |
| | July | ·552 | .. | S 36° E | 1·3 | 82·2 | 79·8 | 88·8 | .. | 92·3 | (b) 78·9 | .. | 74·4 | 90 | .. | 6·3 | 26·29 | .. | 21 | .. | 7·21 |
| | August | ·597 | .. | S 50° E | 0·4 | 82·4 | 80·1 | 89·8 | .. | 93·5 | 78·3 | .. | 73·5 | 90 | .. | 5·7 | 15·53 | .. | 22 | .. | 3·81 |
| | September | ·711 | .. | S 68° E | 0 | 84·7 | 81·0 | 91·3 | .. | 94·0 | 79·3 | .. | 76·2 | 85 | .. | 2·8 | 4·19 | .. | 11 | .. | 1·02 |
| | October | ·863 | .. | S 9° E | 0 | 81·1 | 78·9 | 89·6 | .. | 93·8 | 76·3 | .. | 72·9 | 90 | .. | 2·8 | 3·92 | .. | 5 | .. | 1·19 |
| | November | ·986 | .. | S 45° W | 0 | 70·3 | 68·2 | 87·3 | .. | 91·2 | 64·4 | .. | 54·3 | 89 | .. | 6·7 | 0 | .. | 0 | .. | 0 |
| | December | 30·018 | .. | N | 0·4 | 61·2 | 59·2 | 82·3 | .. | 86·0 | 55·1 | .. | 49·4 | 88 | .. | 2·2 | 0 | .. | 0 | .. | 0 |
| | Year | 29·796 | .. | .. | 1·1 | 76·1 | 72·9 | 89·6 | .. | 104·1 | 70·5 | .. | 44·3 | 85 | .. | 3·6 | 76·49 | .. | 96 | .. | 7·21 |
| Asansol (Bengal) (414). | January | 29·606 | .. | .. | .. | 59·2 | 56·3 | 76·9 | —1·2 | 87·7 | 53·5 | —0·4 | 42·6 | 82 | +7 | 3·2 | 1·87 | +1·37 | 5 | +3·8 | 0·92 |
| | February | ·544 | .. | .. | .. | 64·6 | 60·5 | 82·9 | +0·5 | 91·0 | 58·3 | +0·8 | 51·6 | 77 | +9 | 2·5 | 0 | —0·90 | 0 | —1·7 | 0 |
| | March | ·431 | .. | .. | .. | 76·8 | 66·1 | 95·5 | +2·2 | 105·2 | 66·5 | —0·1 | 54·7 | 54 | —4 | 2·6 | 0 | —1·20 | 0 | —2·2 | 0 |
| | April | ·326 | .. | .. | .. | 83·0 | 73·7 | 101·5 | —0·3 | 110·7 | 72·9 | —2·1 | 64·1 | 65 | +3 | 4·7 | 0·88 | —0·49 | 2 | —0·6 | 0·50 |
| | May | ·215 | .. | .. | .. | 84·4 | 78·0 | 102·9 (n) | +1·8 | 112·2 | 77·5 | —0·3 | 68·6 | 75 | +3 | 5·3 | 1·36 | —2·68 | 4 | —1·3 | 0·70 |
| | June | ·054 | .. | .. | .. | 82·2 | 78·9 | 102·9 (g) | +7·4 | 107·6 | 77·3 | —1·6 | 72·6 | 86 | +3 | 8·2 | 20·10 | +10·08 | 16 | +3·5 | 4·17 |
| | July | ·097 | .. | .. | .. | 81·5 | 79·3 | 89·6 | —0·6 | 94·6 | 77·3 | —1·0 | 73·6 | 91 | +2 | 8·9 | 17·25 | +5·29 | 17 | +1·0 | 2·92 |
| | August | ·150 | .. | .. | .. | 82·9 | 80·0 | 90·1 | +0·8 | 96·1 | 78·4 | +0·4 | 74·6 | 88 | —3 | 8·3 | 9·78 | —1·56 | 16 | 0 | 2·40 |
| | September | ·255 | .. | .. | .. | 83·3 | 80·1 | 91·2 | +1·4 | 94·1 | 77·9 | +0·6 | 73·6 | 87 | —2 | 7·1 | 4·11 | —4·22 | 4 | —7·5 | 3·00 |
| | October | ·422 | .. | .. | .. | 79·3 | 76·4 | 88·4 | —0·8 | 92·6 | 73·7 | +1·8 | 64·6 | 87 | +4 | 7·8 | 8·40 | +5·68 | 10 | +6·1 | 3·75 |
| | November | ·566 | .. | .. | .. | 69·4 | 64·5 | 85·6 | +1·8 | 91·1 | 59·9 | —1·3 | 51·6 | 75 | —2 | 5·5 | 0 | —0·55 | 0 | —0·8 | 0 |
| | December | ·601 | .. | .. | .. | 61·1 | 56·5 | 79·2 | +1·0 | 85·3 | 54·2 | +0·7 | 49·6 | 74 | 0 | 2·4 | 0·02 | —0·08 | 0 | —0·2 | 0·02 |
| | Year | ·355 | | .. | .. | 75·6 | 70·9 | 90·6 | +1·2 | 112·2 | 68·9 | —0·3 | 42·6 | 78 | +1 | 5·5 | 63·77 | +10·74 | 74 | +0·1 | 4·17 |

(b Mean of 30 days. (c) Mean of 29 days. (g) Mean of 25 days. (n) Mean of 18 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and standard gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Kalimpong (Bengal) (3,933) | January | 26·047 | .. | N 61° W | 6·1 | 51·1 | 47·3 | 59·5 | .. | 65·7 | 46·4 | .. | 43·1 | 76 | .. | 3·6 | 0·15 | .. | 1 | .. | 0·15 |
| | February | ·009 | .. | N 68° W | 6·6 | 54·2 | 49·8 | 64·4 | .. | 69·9 | 49·7 | .. | 42·1 | 74 | .. | 1·7 | 1·24 | .. | 4 | .. | 0·44 |
| | March | 25·946 | .. | N 59° W | 6·7 | 60·9 | 54·3 | 70·3 | .. | 78·1 | 55·5 | .. | 50·1 | 66 | .. | 2·1 | 0·54 | .. | 3 | .. | 0·23 |
| | April | ·921 | .. | N 56° W | 7·5 | 66·4 | 60·1 | 75·1 | .. | 81·9 | 60·5 | .. | 54·1 | 69 | .. | 2·8 | 3·28 | .. | 8 | .. | 0·80 |
| | May | ·857 | .. | N 72° W | 5·9 | 68·1 | 64·9 | 74·6 | .. | 79·1 | 63·3 | .. | 60·1 | 84 | .. | 5·8 | 4·53 | .. | 11 | .. | 0·73 |
| | June | ·734 | .. | S 49° E | 4·1 | 69·8 | 68·7 | 75·4 | .. | 79·3 | 67·0 | .. | 63·3 | 95 | .. | 8·8 | 22·93 | .. | 21 | .. | 5·30 |
| | July | ·761 | .. | S 45° E | 4·7 | 70·7 | 69·5 | 75·9 | .. | 84·1 | 67·8 | .. | 65·1 | 95 | .. | 7·9 | 16·35 | .. | 22 | .. | 1·91 |
| | August | ·803 | .. | S 79° W | 5·5 | 71·7 | 69·8 | 76·2 | .. | 79·9 | 67·6 | .. | 65·1 | 92 | .. | 5·0 | 19·08 | .. | 17 | .. | 4.33 |
| | September | ·877 | .. | S 45° E | 4·7 | 69·8 | 68·8 | 75·1 | .. | 78·1 | 67·1 | .. | 65·1 | 95 | .. | 7·7 | 4·92 | .. | 10 | .. | 1·26 |
| | October | ·988 | .. | N 62° W | 5·3 | 65·9 | 64·0 | 71·0 | .. | 76·4 | 61·8 | .. | 59·1 | 91 | .. | 4·7 | 3·33 | .. | 8 | .. | 0·88 |
| | November | 26·067 | .. | N 61° W | 5·3 | 56·9 | 54·3 | 64·7 | .. | 69·1 | 52·8 | .. | 46·9 | 85 | .. | 4·5 | 0·32 | .. | 2 | .. | 0·12 |
| | December | ·063 | .. | N 61° W | 6·8 | 52·2 | 48·8 | 62·0 | .. | 64·6 | 48·3 | .. | 44·1 | 78 | .. | 1·7 | 0·42 | .. | 1 | .. | 0·42 |
| | Year | 25·923 | .. | .. | 5·8 | 63·1 | 60·0 | 70·3 | .. | 84·1 | 59·0 | .. | 42·1 | 83 | .. | 4·7 | 77·09 | .. | 108 | .. | 5·30 |
| Puri (Orissa) (40). | January | 30·000 | —·002 | N 18° E | 5·5 | 67·3 | 64·5 | (c) 78·7 | —1·6 | 82·0 | 63·1 | —0·4 | 56·6 | 85 | +2 | 2·9 | 0 | —0·30 | 0 | —0·5 | 0 |
| | February | 29·935 | —·006 | N 18° E | 8·4 | 73·1 | 70·4 | 83·2 | 0 | 88·0 | 69·0 | —0·1 | 63·8 | 87 | +6 | 1·5 | 0 | —0·86 | 0 | —1·0 | 0 |
| | March | ·842 | —·017 | S 36° W | 12·9 (j) | 79·7 | 75·3 | 86·9 | +0·4 | 96·5 | 75·7 | +0·4 | 65·8 | 81 | —2 | 2·8 | 0·03 | —0·52 | 0 | —1·1 | 0·03 |
| | April | ·742 | —·026 | S 33° W | 13·9 | 83·1 | 79·5 | 87·4 | —0·4 | 90·0 | 79·4 | +0·8 | 65·8 | 85 | 0 | 5·0 | 3·18 | +2·50 | 2 | +0·7 | 2·63 |
| | May | ·612 | —·048 | S 29° W | 16·3 | 85·2 | 81·7 | 89·5 | —0·4 | 95·1 | 81·4 | +0·6 | 69·7 | 86 | +1 | 4·9 | 2·60 | —0·23 | 2 | —1·4 | 2·39 |
| | June | ·466 | —·071 | S 54° W | 13·3 | 84·3 | 80·1 | 89·3 | +0·3 | 96·0 | 79·2 | —1·4 | 74·0 | 83 | —2 | 6·1 | 5·01 | —2·30 | 8 | —0·1 | 1·26 |
| | July | ·506 | —·021 | S 37° W | 14·3 | 83·3 | 79·9 | 87·5 | —0·2 | 91·0 | 79·4 | —0·4 | 75·8 | 85 | —1 | 6·7 | 10·24 | +0·21 | 13 | +1·1 | 1·80 |
| | August | ·570 | +·008 | S 75° W | 7·3 | 83·7 | 80·1 | 88·8 | +1·0 | 94·3 | 79·5 | 0 | 75·9 | 85 | —1 | 7·1 | 7·63 | —4·68 | 17 | +4·0 | ·157 |
| | September | ·669 | —·002 | N 72° W | 7·0 | 83·5 | 79·7 | 88·8 | —0·1 | 93·2 | 79·3 | —0·4 | 74·5 | 84 | 0 | 6·5 | 8·76 | —0·07 | 16 | +4·5 | 2·42 |
| | October | ·810 | —·013 | N 1° E | 7·0 | 81·6 | 78·2 | 87·2 | —2·0 | 92·1 | 77·7 | +0·6 | 73·0 | 85 | +3 | 5·8 | 23·85 | +17·01 | 11 | +3·9 | 12·45 |
| | November | ·960 | +·027 | N | 5·0 | 73·5 | 68·8 | 85·1 | +0·2 | 88·8 | 69·3 | +0·1 | 61·6 | 77 | —2 | 3·3 | 0·70 | —3·02 | 1 | —1·4 | 0·64 |
| | December | ·993 | —·015 | N 2° E | 6·2 | 66·9 | 62·8 | 80·9 | +0·2 | 85·3 | 63·2 | +1·1 | 57·7 | 78 | 0 | 3·4 | 0 | —0·30 | 0 | —0·4 | 0 |
| | Year | 29·759 | —·015 | .. | 9·7 | 78·8 | 75·1 | 86·1 | —0·2 | 96·5 | 74·7 | +0·1 | 56.6 | 83 | 0 | 4·7 | 62.00 | +7·44 | 70 | +8.3 | 12·4 5 |

(c) Mean of 29 days. (j) Mean of 22 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and standard gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total for the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Angul (Orissa) (455). | January | 29·557 | —·010 | N 56° W | 3·4 | 62·2 | 58·2 | 83·8 | +2·0 | 93·6 | 57·8 | +2·2 | 48·9 | 77 | +1 | 2·1 | 0 | —0·46 | 0 | —0·9 | 0 |
| | February | ·505 | +·012 | N 62° W | 4·0 | 67·8 | 61·9 | 88·5 | +1·9 | 94·6 | 62·8 | +1·5 | 52·2 | 70 | —3 | 2·0 | 0·17 | —1·23 | 1 | —1·3 | 0·17 |
| | March | ·472 | —·011 | N 40° W | 4·6 | 75·6 | 64·6 | 96·7 | +1·7 | 101·2 | 68·8 | +1·2 | 57·4 | 72 | —13 | 0·8 | 0·11 | —0·88 | 0 | —2·2 | 0·08 |
| | April | ·320 | —·003 | N 18° W | 4·3 | 81·1 | 73·2 | 99·8 | —1·6 | 106·4 | 74·0 | —0·4 | 65·4 | 68 | +2 | 2·2 | 3·78 | +2·48 | 4 | +1·3 | 2·58 |
| | May | ·184 | —·027 | N 88° E | 5·3 | 86·2 | 78·8 | 105·3 | +2·3 | 115·2 | 79·7 | +1·3 | 70·4 | 71 | +2 | 5·1 | 2·69 | +0·71 | 5 | +0·3 | 0·88 |
| | June | ·051 | —·040 | N 30° W | 4·8 | 81·2 | 77·6 | 92·9 | —1·0 | 106·6 | 76·4 | —1·6 | 70·4 | 82 | +3 | 8·2 | 13·63 | +4·78 | 19 | +5·9 | 3·05 |
| | July | ·084 | —·004 | N 76° W | 5·5 | 81·1 | 77·3 | 88·5 | 0 | 91·8 | 79·7 | —0·6 | 74·8 | 84 | +1 | 7·8 | 17·81 | +6·82 | 19 | +4·6 | 3·05 |
| | August | ·145 | +·017 | N 63° W | 4·8 | 81·2 | 77·4 | 89·3 | +2·0 | 93·4 | 77·7 | +0·8 | 73·6 | 83 | —2 | 7·3 | 7·12 | —3·68 | 13 | —1·5 | 2·00 |
| | September | ·237 | +·001 | N 63° W | 3·5 | 81·3 | 77·8 | 89·7 | +0·9 | 92·8 | 77·0 | +0·7 | 74·0 | 85 | 0 | 7·3 | 8·68 | +2·60 | 13 | +2·5 | 1·53 |
| | October | ·386 | —·004 | N 72° E | 3·4 | 79·0 | 75·9 | 88·0 | —1·0 | 91·4 | 74·9 | +3·5 | 71·0 | 86 | +6 | 7·5 | 5·41 | +1·75 | 13 | +7·7 | 1·64 |
| | November | ·547 | +·017 | N 66° W | 3·1 | 68·0 | 64·1 | 85·0 | +0·9 | 90·6 | 61·5 | —0·9 | 52·0 | 79 | +3 | 3·2 | 0 | —1·11 | 0 | —1·2 | 0 |
| | December | ·563 | —·004 | N 56° W | 3·1 | 61·4 | 58·3 | 80·6 | +1·0 | 85·7 | 56·3 | +1·9 | 50·0 | 82 | +7 | 2·7 | 0 | —0·21 | 0 | —0·5 | 0 |
| | Year | 29·333 | —·002 | .. | 4·1 | 75·5 | 70·4 | 90·7 | +0·8 | 115·2 | 70·3 | +0·8 | 48·9 | 77 | +1 | 4·7 | 59·40 | +11·57 | 87 | +14·7 | 8·05 |
| Daltonganj (Ch. Nagpur) (725) | January | 29·313 | +·017 | S 82° E | 2·0 | 55·2 | 53·4 | 74·3 | —1·9 | 84·3 | 51·6 | +4·3 | 38·8 | 89 | +5 | 4·4 | 2·75 | +1·89 | 3 | +1·2 | 1·45 |
| | February | ·246 | +·014 | S 53° E | 2·1 | 59·8 | 56·9 | 78·2 | —1·7 | 93·2 | 55·2 | +3·7 | 49·6 | 83 | +5 | 1·8 | 0·82 | —0·37 | 1 | —1·3 | 0·69 |
| | March | ·145 | +·008 | N 87° E | 2·8 | 70·4 | 59·9 | 91·8 | +1·3 | 102·2 | 62·1 | +2·7 | 48·0 | 51 | —9 | 1·5 | 0·02 | —0·67 | 0 | —1·8 | 0·02 |
| | April | ·031 | +·008 | N 63° E | 3·8 | 81·3 | 61·8 | 98·8 | —2·6 | 107·3 | 69·6 | —0·5 | 58·1 | 39 | —7 | 1·0 | 0·78 | +0·37 | 1 | +0·1 | 0·75 |
| | May | 28·883 | —0·29 | N 14° E | 4·1 | 90·4 | 72·2 | 106·5 | +0·2 | 114·1 | 78·8 | +0·1 | 72·9 | 40 | —9 | 1·4 | 0·77 | +0·15 | 1 | —0·4 | 0·72 |
| | June | ·745 | —·043 | N 89° W | 3·7 | 85·3 | 77·3 | 96·0 | —3·8 | 111·9 | 79·7 | —0·9 | 72·3 | 70 | +3 | 5·5 | 5·09 | —1·53 | 8 | —1·0 | 1·52 |
| | July | ·788 | +·009 | S 31° E | 3·7 | 81·9 | 77·5 | 89·3 | —2·2 | 94·0 | 77·4 | —0·8 | 67·3 | 81 | —2 | 6·7 | 17·04 | +5·18 | 12 | —2·7 | 6·30 |
| | August | ·869 | +·039 | S 39° W | 3·9 | 82·2 | 77·0 | 89·5 | +0·4 | 94·3 | 77·7 | +0·8 | 75·3 | 79 | —8 | 4·6 | 6·57 | —6·59 | 12 | —4·5 | 1·39 |
| | September | ·960 | +·004 | S 42° W | 2·2 | 83·2 | 77·2 | 93·0 | +2·8 | 96·7 | 77·7 | +2·6 | 75·3 | 75 | —9 | 3·0 | 4·89 | —1·80 | 7 | —1·9 | 2·84 |
| | October | 29·118 | —·006 | N 87° E | 2·5 | 77·2 | 73·3 | 87·9 | —1·7 | 92·4 | 72·5 | +6·5 | 63·1 | 82 | +2 | 3·5 | 4·63 | +2·65 | 6 | +2·8 | 1·[illegible] |
| | November | ·280 | +·027 | N 49° E | 1·6 | 63·2 | 58·5 | 83·9 | +0·9 | 89·3 | 55·8 | +1·7 | 46·5 | 74 | —6 | 1·0 | 0 | —0·37 | 0 | —0·8 | 0 |
| | December | ·315 | +·007 | N 45° E | 1·6 | 55·8 | 53·2 | 76·3 | —0·3 | 85·1 | 50·2 | +4·6 | 41·3 | 84 | +1 | 1·9 | 0·13 | —0·06 | 0 | —0·4 | 0·06 |
| | Year | 29·058 | +·005 | .. | 2·8 | 72·8 | 66·8 | 88·8 | —0·7 | 114·1 | 67·3 | +2·0 | 38·8 | 71 | —2 | 3·0 | 43·48 | —1·17 | 51 | —10·5 | 6·36 |

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928 —*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Pusa (Bihar) (188). | January | 29·847 | —·005 | S 26° W | 2·0 | 53·0 | 52·2 | 71·9 | —2·9 | 79·0 | 49·7 | +1·9 | 40·3 | 94 | +6 | 4·8 | 1·28 | +1·10 | 5 | +4·4 | 0·30 |
| | February | ·778 | —·006 | S 45° E | 2·3 | 59·0 | 57·1 | 79·2 | 0 | 88·1 | 53·1 | +3·1 | 47·3 | 88 | +7 | 2·1 | 0·52 | —0·26 | 2 | +0·4 | 0·33 |
| | March | ·649 | —·026 | S 25° W | 2·9 | 71·1 | 61·2 | 93·5 | +3·5 | 104·3 | 61·5 | +2·6 | 51·2 | 55 | —6 | 1·1 | 0 | —0·48 | 0 | —1·4 | 0 |
| | April | ·553 | —·014 | N 69° E | 3·5 | 81·8 | 69·5 | 100·0 | +2·0 | 108·1 | 70·6 | +2·1 | 62·0 | 52 | —5 | 1·2 | 0·03 | —0·73 | 0 | —1·6 | 0·03 |
| | May | ·447 | —·034 | N 86° E | 4·3 | 83·8 | 76·1 | 99·7 | +0·4 | 107·7 | 77·2 | +2·7 | 72·0 | 69 | +2 | 3·2 | 1·25 | —0·60 | 2 | —1·1 | 1·06 |
| | June | ·306 | —·047 | N 73° E | 3·0 | 81·1 | 79·5 | 94·3 | +0·3 | 106·3 | 79·8 | +2·4 | 76·7 | 81 | 0 | 7·6 | 3·06 | —5·82 | 8 | —1·2 | 0·79 |
| | July | ·314 | —·024 | E | 2·3 | 82·6 | 80·0 | 90·5 | —0·6 | 96·7 | 79·8 | +1·5 | 76·3 | 89 | +1 | 8·0 | 13·27 | +2·18 | 15 | +0·9 | 2·73 |
| | August | ·363 | —·025 | N 36° E | 2·8 | 82·7 | 80·3 | 90·0 | 0 | 95·6 | 80·4 | +2·4 | 76·9 | 88 | 0 | 7·1 | 26·12 | +11·18 | 18 | +3·9 | 11·11 |
| | September | ·464 | —·035 | N 81° E | 1·7 | 84·1 | 81·3 | 92·4 | +2·0 | 96·1 | 80·8 | +3·7 | 77·6 | 88 | +2 | 5·9 | 2·52 | —5·12 | 5 | —4·4 | 1·21 |
| | October | ·634 | —·032 | S 72° E | 1·7 | 78·3 | 76·0 | 88·0 | —1·6 | 94·1 | 74·9 | +4·5 | 67·8 | 89 | +6 | 3·3 | 6·21 | +4·72 | 5 | +2·6 | 2·58 |
| | November | ·786 | —·005 | S 53 E | 1·0 | 65·1 | 63·2 | 81·8 | —1·6 | 87·1 | 61·1 | +3·2 | 51·8 | 89 | +5 | 0·8 | 0 | —0·36 | 0 | —0·4 | 0 |
| | December | ·824 | —·029 | S 56° W | 1·2 | 56·5 | 55·3 | 75·6 | —0·2 | 79·2 | 53·0 | +4·2 | 46·0 | 92 | +5 | 2·1 | 0·12 | +0·02 | 1 | +0·8 | 0·10 |
| | Year | 29·581 | —·022 | .. | 2·5 | 73·5 | 69·3 | 88·1 | +0·1 | 108·1 | 68·6 | +2·9 | 40·3 | 81 | +2 | 4·0 | 54·58 | +5·83 | 61 | +2·9 | 11·11 |
| Patiala (Punjab) (818). | January | 29·186 | 0 | S 50° E | 1·8 | 48·3 | 46·6 | 64·4 | —3·7 | 70·3 | 45·6 | +1·6 | 41·8 | 88 | +8 | 3·3 | 1·31 | +0·58 | 4 | +1·4 | 0·93 |
| | February | ·096 | —·028 | S 10 E | 2·0 | 55·9 | 52·3 | 73·2 | +1·6 | 82·5 | 51·8 | +3·9 | 44·0 | 79 | +4 | 3·5 | 1·11 | —0·15 | 3 | +0·9 | 0·45 |
| | March (b) | ·024 | —·016 | S 31° E | (c) 2·1 | 64·8 | 58·9 | 78·3 | —4·0 | 92·1 | 57·1 | +0·5 | 47·0 | 70 | +7 | 3·5 | 0·36 | —0·86 | 1 | —1·4 | 0·36 |
| | April | 28·823 | —·102 | N 45° E | 2·4 | 77·5 | 65·4 | 90·0 | —3·8 | 106·5 | 68·1 | +1·5 | 58·2 | 52 | +3 | 3·1 | 0·51 | —0·08 | 2 | +0·5 | 0·25 |
| | May | ·727 | —·085 | N 72° W | 2·5 | 80·3 | 72·9 | 107·5 | +5·4 | 114·3 | 79·5 | +3·5 | 74·2 | 42 | —4 | 4·1 | 0 | —0·69 | 0 | —1·7 | 0 |
| | June (d) | ·538 | —·155 | S 49° E | (f) 3·3 | 82·1 | 78·2 | 103·3 | +1·5 | 109·5 | 84·2 | +0·3 | 70·2 | 64 | +5 | 4·3 | 2·06 | —0·46 | 5 | +1·5 | 0·80 |
| | July (c) | ·705 | +·032 | S 27° E | (c) 2·5 | 85·7 | 78·8 | 99·0 | +2·8 | 110·5 | 80·7 | +0·8 | 75·0 | 73 | —4 | 6·3 | 3·78 | —2·29 | 3 | —5·1 | 2·66 |
| | August (b) | ·786 | +·052 | S 20° E | (e) 2·4 | 84·7 | 79·1 | 97·5 | —4·7 | 103·8 | 80·7 | +1·9 | 75·6 | 73 | —3 | 6·4 | 2·26 | —0·42 | 6 | —2·2 | 2·56 |
| | September (c) | ·885 | +·021 | N 58° W | (d) 2·6 | 80·1 | 71·9 | 96·1 | +3·0 | 101·6 | 74·7 | 0 | 66·4 | 66 | —8 | 1·6 | 2·79 | —1·75 | 2 | —2·5 | 2·55 |
| | October (c) | 29·037 | +·010 | S 38° E | (e) 1·5 | 73·3 | 65·1 | 94·6 | —3·5 | 99·6 | 66·7 | +3·7 | 61·6 | 62 | —4 | 0·6 | 0 | —0·72 | 0 | —0·9 | 0 |
| | November (e) | ·158 | +·006 | N 68° E | (h) 1·7 | 60·9 | 55·7 | 81·5 | +0·3 | 90·2 | 55·6 | +4·0 | 46·8 | 71 | +4 | 3·0 | 0·80 | +0·65 | 3 | +2·7 | 0·43 |
| | December | (b) ·215 | +·014 | N 3° E | 1·6 | 50·2 | 47·9 | 68·1 | —3·3 | 76·2 | 47·2 | +2·9 | 41·3 | 85 | +7 | 2·8 | 1·51 | +1·21 | 3 | +1·9 | 0·83 |
| | Year | 28·932 | —·020 | .. | 2·2 | 71·7 | 64·4 | 87·8 | +0·8 | 114·3 | 65·7 | +2·0 | 41·3 | 69 | +1 | 3·5 | 17·12 | —8·99 | 32 | —4·9 | 2·66 |

(b) Mean of 30 days (c) Mean of 29 days. (d) Mean of 28 days. (e) Mean of 27 days. (f) Mean of 26 days. (h) Mean of 24 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of bar-cistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 21 | 22 |
| Hansi (Punjab) | January | 29·327 | .. | S 45° W | 1·2 | 47·6 | (e) 46·8 | 65·7 | .. | 73·5 | 42·6 | .. | 35·9 | (e) 91 | .. | 1·6 | 0·59 | .. | 2 | .. | 0·25 |
| | February | ·239 | .. | S 27° E | 2·0 | (d) 55·9 | (d) 51·8 | 76·8 | .. | 91·8 | 48·8 | .. | 39·2 | (d) 75 | .. | 1·1 | 0·73 | .. | 1 | .. | 0·70 |
| | March | ·151 | .. | N 45° E | 2·2 | 64·7 | 57·7 | 87·5 | .. | 96·6 | 54·6 | .. | 44·9 | 64 | .. | 1·7 | 0 | .. | 0 | .. | 0 |
| | April (d) | ·019 | .. | S 37° E | (f) 2·3 | 79·3 | 65·7 | 99·2 | .. | 106·9 | 65·5 | ... | 52·5 | 46 | .. | 0·5 | 1·03 | .. | 2 | .. | 0·79 |
| | May | 28·868 | .. | S 77° W | (c) 2·6 | 90·5 | 72·6 | 108·7 | .. | 113·1 | 78·8 | .. | 72·6 | 39 | .. | 0 | 0 | .. | 0 | .. | 0 |
| | June | (f) ·736 | .. | S 18° E | 2·4 | 88·9 | (c) 75·7 | 104·6 | .. | 111·2 | (c) 81·3 | .. | 69·6 | (c) 53 | .. | 0·6 | 0·80 | .. | 3 | .. | 0·46 |
| | July (h) | (k) ·775 | .. | S 34° E | (k) 2·4 | 85·3 | 79·7 | ·98·1 | .. | 108·9 | 80·9 | .. | 74·4 | 79 | .. | 3·4 | 4·22 | .. | 8 | .. | 1·04 |
| | August (c) | ·853 | .. | S 63° W | (c) 2·5 | 85·4 | 78·1 | 98·6 | .. | 105·3 | (n) 82·0 | .. | 74·9 | 72 | .. | 2·7 | 3·42 | .. | 4 | .. | 1·72 |
| | September | ·972 | .. | S 81° W | 1·3 | 80·1 | 73·9 | 96·9 | .. | 102·3 | 71·4 | .. | 62·1 | 74 | .. | 1·6 | 1·34 | .. | 2 | .. | 1·17 |
| | October | 29·134 | .. | S 56° E | 0·6 | 75·5 | 66·2 | 95·3 | .. | 100·2 | 63·6 | .. | 57·1 | 59 | .. | 1·0 | 0·95 | .. | 1 | .. | 0·95 |
| | November | ·256 | .. | S 45° E | 0·7 | 61·5 | 55·3 | 84·1 | .. | 92·8 | 50·9 | .. | 41·1 | 65 | .. | 1·7 | 1·10 | .. | 2 | .. | 0·78 |
| | December | ·327 | .. | N 27° E | 1·1 | 49·2 | 46·5 | 71·1 | .. | 81·2 | 43·7 | .. | 37·7 | 80 | .. | 1·1 | 0·06 | .. | 0 | .. | 0·06 |
| | Year | 29·055 | .. | .. | 1·8 | 72·0 | 64·2 | 90·5 | .. | 113·1 | 63·7 | .. | 35·9 | 66 | .. | 1·4 | 14·24 | .. | 25 | .. | 1·72 |
| Bahawalpur (Punjab). | January | .. | .. | N 45° E | 1·4 | 48·4 | 46·6 | 67·3 | .. | 76·0 | 44·4 | .. | 37·7 | 87 | .. | 5·3 | 0·13 | .. | 1 | .. | 0·13 |
| | February | .. | .. | N 68° E | 2·2 | 54·6 | 49·9 | 77·4 | .. | 92·2 | 47·5 | .. | 31·2 | 71 | .. | 2·7 | 0·02 | .. | 0 | .. | 0·02 |
| | March | .. | .. | N 36° E | 2·9 | 66·1 | 59·8 | 87·0 | .. | 99·0 | 57·1 | .. | 43·4 | 67 | .. | 4·5 | 0 | .. | 0 | .. | 0 |
| | April | .. | .. | N 27° W | 2·6 | 81·7 | 72·2 | 100·1 | .. | 112·0 | 67·0 | .. | 52·5 | 62 | .. | 2·5 | 1·24 | .. | 3 | .. | 0·72 |
| | May | .. | .. | S 55° W | 3·4 | 91·4 | 80·3 | 109·1 | .. | 115·1 | 79·1 | .. | 70·1 | 60 | .. | (l) 0·7 | 0 | .. | 0 | .. | 0 |
| | June | .. | .. | S 49° W | 3·7 | 92·9 | 84·3 | 108·8 | .. | 115·5 | 85·1 | .. | 78·3 | 69 | .. | (q) 2·6 | 0 | .. | 0 | .. | 0 |
| | July | .. | .. | S 28° W | 4·1 | (i) 91·0 | 84·4 | 103·3 | .. | 110·0 | 83·5 | .. | 75·2 | (i) 76 | .. | 4·2 | 6·66 | .. | 2 | .. | 5·80 |
| | August | .. | .. | S 36° W | 5·2 | 87·3 | 81·4 | 101·5 | .. | 106·2 | 81·2 | .. | 76·2 | 77 | .. | 6·0 | 0·17 | .. | 1 | .. | 0·17 |
| | September | .. | .. | S 38° W | 3·6 | 86·2 | 78·1 | 101·6 | .. | 104·9 | 74·2 | .. | 65·3 | 68 | .. | 0·5 | 0 | .. | 0 | .. | 0 |
| | October | .. | .. | S 13° W | 2·0 | 79·0 | 69·8 | 98·9 | .. | 104·9 | 62·7 | .. | 54·4 | 61 | .. | 0·5 | 0 | .. | 0 | .. | 0 |
| | November | .. | .. | S 6° E | 1·8 | 63·3 | 56·6 | 94·8 | .. | 95·3 | 52·1 | .. | 43·0 | 64 | .. | 2·7 | 0·07 | .. | 0 | .. | 0·07 |
| | December | .. | .. | N 60° E | 1·3 | 47·9 | 44·7 | 72· | .. | 82·4 | 41·3 | .. | 32·4 | 76 | .. | 3·3 | 0·09 | .. | 0 | .. | 0·07 |
| | Year | .. | .. | .. | 2·9 | 74·1 | 67·3 | 92·7 | .. | 115·5 | 64·5 | .. | 31·2 | 70 | .. | 3·0 | 8·38 | .. | 7 | .. | 5·80 |

(a) Mean of 11 days. (c) Mean of 29 days. (d) Mean of 28 days (e) Mean of 27 days. (f) Mean of 26 days. (h) Mean of 24 days.
(i) Mean of 23 days. (k) Mean of 21 days. (l) Mean of 20 days. (q) Mean of 15 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and standard gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Jamnagar (Gujarat) (61) | January | 30·019 | +·036 | N 68° E | 6·2 | 63·5 | 55·5 | 77·8 | −1·6 | 82·7 | .. | .. | .. | 58 | −5 | 2·2 | 0 | −0·05 | 0 | −0·2 | 0 |
| | February | 29·970 | +·026 | S 52° E | 6·4 | 65·6 | 59·2 | 82·3 | −0·2 | 93·3 | 57·3 | +1·6 | 46·1 | 66 | +2 | 2·2 | 0 | −0·10 | 0 | −0·2 | 0 |
| | March | ·888 | +·021 | S 22° W | (b) 10·9 | 74·9 | 67·7 | 90·7 | +0·7 | 97·7 | 64·4 | +1·0 | 52·2 | 68 | 0 | 2·2 | 0 | −0·15 | 0 | −0·2 | 0 |
| | April | ·813 | +·036 | S 40° W | 10·1 | 83·0 | 75·7 | 97·4 | +2·4 | 102·5 | 71·5 | +1·2 | 61·6 | 70 | 0 | 2·5 | 0 | −0·04 | 0 | 0 | 0 |
| | May | ·721 | +·012 | S 50° W | 14·6 | 86·7 | 79·8 | 97·0 | −0·7 | 102·9 | 76·2 | −0·5 | 72·5 | 73 | +6 | 3·0 | 0 | −0·09 | 0 | −0·2 | 0 |
| | June | ·562 | +·030 | S 64° W | 16·3 | 87·9 | 81·7 | 94·9 | −1·1 | 99·9 | 80·5 | +0·5 | 77·5 | 76 | +6 | 6·7 | 0 | −2·81 | 0 | −3·0 | 0 |
| | July | ·551 | +·047 | (b) S 63° W | (c) 11·3 | (b) 83·8 | (b) 79·4 | (b) 89·6 | −1·6 | 94·7 | (b) 78·2 | −0·4 | 72·1 | (b) 82 | +5 | 7·1 | 6·40 | −2·09 | 10 | +2·3 | 1·55 |
| | August | ·635 | +·060 | S 64° W | 8·8 | 81·8 | 77·3 | 87·8 | −0·2 | 92·7 | 76·1 | −0·6 | 74·3 | 81 | 0 | 7·0 | 2·04 | −3·61 | 6 | −0·6 | 0·71 |
| | September | ·766 | +·062 | S 60° W | 7·8 | 81·7 | 76·9 | 88·3 | −1·1 | 91·3 | 74·6 | +0·4 | 68·1 | 80 | +2 | 4·8 | 1·05 | −1·12 | 2 | −0·5 | 0·68 |
| | October | ·845 | +·019 | S 71° W | 7·3 | 82·6 | 77·0 | 92·5 | −1·2 | 97·3 | 71·6 | +1·0 | 66·3 | 76 | +8 | 3·8 | 0·37 | −0·09 | 1 | +0·5 | 0·37 |
| | November | ·961 | +·042 | N 22° E | 6·9 | 76·5 | 67·3 | 87·8 | −1·7 | 92·7 | 62·5 | −0·1 | 52·1 | 60 | +1 | 2·3 | 1·30 | +1·29 | 1 | +1·0 | 1·30 |
| | December | 30·002 | +·026 | N 18° E | 6·7 | 64·6 | 55·9 | 78·2 | −3·4 | 84·5 | 52·4 | −2·5 | 41·1 | 55 | −1 | 1·8 | 0 | −0·04 | 0 | −0·1 | 0 |
| | Year | 29·811 | +·037 | .. | 9·4 | 77·7 | 71·1 | 88·7 | −0·8 | 102·9 | 69·6† | +1·5 | 41·1 | 70 | +2 | 3·8 | 11·16 | −8·90 | 20 | −1·2 | 1·55 |
| Hassan (Mysore) (3,149). | January | 26·854 | +·010 | S 80° E | 3·4 | 68·2 | 61·6 | 84·8 | +2·7 | 89·3 | 59·4 | +3·5 | 53·9 | 68 | −6 | 2·6 | | −0·07 | 0 | −0·3 | 0 |
| | February | ·833 | +·005 | S 68° E | 3·0 | 69·4 | 63·5 | 85·7 | −0·8 | 89·1 | 61·9 | +3·4 | 56·8 | 73 | +3 | 2·7 | 3·40 | +3·23 | 4 | +3·6 | 1·46 |
| | March | ·799 | −·002 | S 37° W | 3·9 | 71·9 | 64·9 | 91·9 | +0·7 | 95·6 | 63·1 | +0·7 | 55·3 | 69 | +3 | 1·2 | 0·97 | +0·64 | 2 | +1·4 | 0·77 |
| | April | ·750 | −·009 | N 84° W | 4·7 | 75·6 | 69·0 | 91·8 | −0·5 | 98·1 | 67·7 | +1·0 | 63·7 | 72 | +1 | 2·6 | 2·67 | +0·66 | 4 | +0·2 | 1·41 |
| | May | ·739 | +·014 | S 80° W | 6·7 | 75·2 | 69·4 | 90·9 | +2·0 | 96·6 | 67·5 | +0·4 | 63·0 | 75 | −1 | 2·5 | 5·58 | +0·89 | 7 | −0·2 | 1·95 |
| | June | ·647 | −·022 | S 81° W | 9·0 | 72·6 | 67·9 | 82·8 | +2·3 | 90·8 | 66·7 | +0·6 | 63·0 | 79 | −5 | 7·7 | 1·14 | −2·87 | 4 | −6·1 | 0·26 |
| | July | ·688 | +·017 | S 77° W | 9·1 | 70·3 | 67·2 | 79·1 | +1·5 | 87·4 | 65·9 | +0·6 | 64·4 | 85 | −2 | 8·9 | 4·71 | −0·69 | 12 | −0·3 | 1·22 |
| | August | ·732 | +·029 | S 74° W | 8·2 | 69·8 | 66·7 | 78·5 | 0 | 83·0 | 65·5 | +0·7 | 64·0 | 85 | −1 | 8·4 | 2·67 | −0·99 | 9 | +0·4 | 0·53 |
| | September | ·739 | +·006 | W | 6·9 | 69·8 | 65·7 | 83·0 | +2·3 | 87·0 | 63·4 | −1·1 | 60·4 | 80 | −4 | 5·7 | 1·12 | −3·15 | 3 | −5·5 | 0·44 |
| | October | ·751 | −·018 | N 45° W | 4·2 | 71·3 | 67·8 | 82·3 | +0·6 | 86·1 | 65·9 | +1·6 | 61·5 | 83 | +1 | 6·5 | 8·04 | +1·37 | 13 | +3·6 | 1·67 |
| | November | ·832 | +·028 | S 88° E | 3·5 | 70·7 | 65·7 | 83·1 | +3·1 | 86·5 | 62·9 | +2·1 | 57·9 | 77 | −1 | 4·6 | 0·98 | −2·40 | 2 | −3·1 | 0·48 |
| | December | ·816 | −·021 | S 86° E | 4·2 | 67·8 | 62·9 | 79·4 | −0·5 | 83·4 | 59·5 | +3·1 | 51·3 | 76 | −1 | 4·5 | 0·67 | 0 | 3 | +2·2 | 0·26 |
| | Year | 26·765 | +·002 | .. | 5·6 | 71·0 | 66·0 | 84·4 | +1·1 | 98·1 | 64·1 | +1·4 | 51·3 | 77 | −1 | 4·8 | 31·95 | −3·38 | 63 | −4·1 | 1·95 |
| *Bhavinagar (Gujarat) (55) | January | 29·986 | +·018 | N 48° W | (b) 3·3 | 62·0 | 53·8 | 83·8 | −0·3 | 87·8 | 54·8 | 0 | 46·7 | 55 | +1 | 2·5 | 0 | −0·13 | 0 | −0·1 | 0 |
| | February | 29·942 | +·012 | N 56° W | 3·8 | 65·1 | 54·3 | 88·4 | +1·4 | 100·2 | 57·3 | −0·5 | 45·1 | 45 | −8 | 0·8 | 0 | −0·08 | 0 | −0·2 | 0 |
| | March | 29·858 | −·009 | N 49° W | (b) 4·3 | 75·0 | 62·2 | 97·3 | +2·2 | 104·8 | 66·3 | +0·5 | 53·9 | 45 | −10 | 0·9 | 0 | −0·10 | 0 | −0·2 | 0 |

* April to December *see* Monthly Weather Reports. (c) Mean of 29 days. † Mean of 11 months. (b) Mean of 30 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barometer above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| P. V. Frazer (Bay Islands) (8). | January | 30·009 | —·011 | N 11° E | .. | 72·3 | 66·3 | .. | .. | .. | .. | .. | .. | 71 | —2 | 2·1 | 0 | —0·20 | 0 | —0·7 | 0 |
| | February | 29·953 | —·010 | N 21° W | .. | 75·2 | 69·0 | .. | .. | .. | .. | .. | .. | 71 | —7 | 1·7 | 0·07 | —0·59 | 0 | —1·1 | 0·07 |
| | March | (b) ·856 | —·026 | S 69° W | .. | 80·1 | 75·2 | .. | .. | .. | .. | .. | .. | 79 | —3 | 2·8 | 0 | —0·76 | 0 | —1·2 | 0 |
| | April | ·771 | —·028 | S 45° W | .. | 82·3 | 78·3 | .. | .. | .. | .. | .. | .. | 82 | —3 | 3·1 | 1·31 | +0·51 | 4 | +2·6 | 0·52 |
| | May | (j) ·658 | —·033 | S 31° W | .. | 85·1 | 81·1 | .. | .. | .. | .. | .. | .. | 83 | —2 | 4·3 | 1·08 | —1·13 | 2 | —2·0 | 0·78 |
| | June | ·471 | —·081 | S 51° W | .. | (c) 83·6 | (c) 80·3 | .. | .. | .. | .. | .. | .. | (c) 85 | —1 | 8·2 | 10·90 | +2·98 | 13 | +2·3 | 3·86 |
| | July | ·508 | —·029 | S 42° W | .. | (b) 83·1 | (b) 79·8 | .. | .. | .. | .. | .. | .. | (b) 86 | —2 | 8·2 | 11·23 | +3·46 | 11 | +0·6 | 4·52 |
| | August | ·567 | —·008 | S 43° W | .. | 82·9 | 79·6 | .. | .. | .. | .. | .. | .. | 85 | —3 | 7·9 | 11·61 | +3·82 | 12 | +0·9 | 2·71 |
| | September | ·677 | —·013 | S 13° W | .. | 84·6 | 80·1 | .. | .. | .. | .. | .. | .. | 81 | —5 | 6·1 | 2·92 | —1·89 | 6 | —2·3 | 0·85 |
| | October | ·822 | —·018 | S 13° E | .. | 83·0 | 78·9 | .. | .. | .. | .. | .. | .. | 82 | +2 | 6·3 | 10·50 | +7·01 | 10 | +5·2 | 2·61 |
| | November | ·965 | +·037 | N 29° E | .. | 79·7 | 71·2 | .. | .. | .. | .. | .. | .. | 64 | —6 | 3·6 | 2·01 | —0·24 | 2 | —0·2 | 1·91 |
| | December | ·983 | —·034 | N 35° E | .. | 73·4 | 65·9 | .. | .. | .. | .. | .. | .. | 65 | —1 | 2·9 | 0 | —0·82 | 0 | —0·3 | 0 |
| | Year | 29·770 | —·021 | .. | .. | 80·4 | 75·5 | .. | .. | .. | .. | .. | .. | 78 | —3 | 4·8 | 51·63 | +12·15 | 60 | + 3·8 | 4·52 |
| Table Island (Bay Islands) (105). | January | 29·823 | —·027 | N 2° E | .. | 78·8 | 74·2 | 83·6 | +0·8 | 86·2 | 74·8 | —0·4 | 71·4 | 80 | +6 | 3·5 | 0 | —0·77 | 0 | —0·7 | 0 |
| | February | ·792 | —0·33 | N 5° E | .. | 80·9 | 73·5 | 85·1 | +1·4 | 87·0 | 74·7 | —0·4 | 72·1 | 74 | —2 | 3·4 | 0·71 | +0·59 | 1 | +0·7 | 0·71 |
| | March | ·763 | —·039 | N 29° W | .. | 82·3 | 75·1 | 87·6 | +1·1 | 91·0 | 76·3 | —0·2 | 72·3 | 70 | —8 | 4·9 | 0·81 | +0·64 | 2 | +1·7 | 0·50 |
| | April | ·687 | —·065 | N 84° W | .. | 84·9 | 78·4 | 89·8 | +0·5 | 92·5 | 78·9 | —0·6 | 71·2 | 74 | —1 | 6·6 | 7·78 | +7·15 | 7 | +5·9 | 4·53 |
| | May | ·647 | —·078 | S 41° W | .. | 84·2 | 79·6 | 88·2 | —0·6 | 91·2 | 79·7 | —0·1 | 73·5 | 81 | 0 | 7·3 | 4·65 | —4·10 | 7 | —3·7 | 2·06 |
| | June | ·556 | —·055 | S 28° W | .. | 82·9 | 79·0 | 85·1 | —0·5 | 88·8 | 77·4 | —0·5 | 71·2 | 86 | —3 | 8·9 | 13·89 | —1·21 | 15 | —1·8 | 4·65 |
| | July | ·576 | —·030 | S 26° W | .. | 81·5 | 78·3 | 84·4 | —0·2 | 87·2 | 77·3 | 0 | 71·9 | 86 | —5 | 9·1 | 10·30 | —3·21 | 16 | —1·6 | 1·44 |
| | August | ·607 | —·031 | S 34° W | .. | 80·8 | 78·4 | 83·5 | —0·7 | 85·2 | 76·8 | —0·7 | 74·0 | 89 | —1 | 8·6 | 16·17 | +4·70 | 20 | +3·8 | 2·04 |
| | September | ·659 | —·008 | S 33° W | .. | 80·4 | 77·7 | 84·3 | —0·1 | 86·9 | 75·9 | —1·3 | 72·5 | 88 | 0 | 6·7 | 14·51 | +3·17 | 19 | +3·4 | 2·09 |
| | October | ·730 | —·006 | S 77° E | .. | 80·8 | 76·6 | 84·1 | —1·3 | 86·3 | 77·0 | —0·8 | 74·0 | 82 | —2 | 4·4 | 5·35 | —1·14 | 9 | —1·2 | 1·57 |
| | November | ·810 | +·035 | N 58° E | .. | 82·0 | 75·6 | 85·3 | +0·4 | 87·5 | 77·8 | 0 | 75·0 | 73 | —8 | 2·3 | 1·23 | —4·42 | 2 | —4·8 | 0·81 |
| | December | ·803 | —·011 | N 34° E | .. | 80·8 | 73·7 | 84·4 | +1·1 | 95·0 | 77·0 | +0·4 | 73·0 | 70 | —5 | 3·0 | 0·10 | —2·27 | 1 | —1·3 | 0·10 |
| | Year | 29·704 | —·024 | .. | .. | 81·5 | 76·7 | 85·5 | +0·2 | 92·2 | 77·0 | —0·3 | 71·2 | 79 | —3 | 5·7 | 75·50 | —0·87 | 99 | +0·4 | 4·58 |

(b) Mean of 30 days. (c) Mean of 29 days. (j) Mean of 22 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea-level in feet. | Month. | Pressure. At 8 h. reduced to 32° and gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Muzaffarabad (Kashmir) (2,343). | January | 27·672 | —·098 | S 27° W | 0·8 | 43·5 | 42·1 | 56·3 | —5·0 | 66·6 | 40·2 | +2·5 | 34·1 | 89 | +20 | 5·5 | 3·20 | —0·37 | 9 | +2·7 | 0·53 |
| | February | 27·628 | +·031 | S 18° W | 1·4 | 47·0 | 44·0 | 63·3 | +1·0 | 81·2 | 42·3 | +1·5 | 37·3 | 72 | +16 | 4·1 | 6·23 | +2·20 | 10 | +4·1 | 1·44 |
| | March | 27·550 | +·003 | S 45° E | 2·0 | 52·3 | 48·2 | 67·8 | —0·5 | 81·4 | 47·9 | +1·2 | 41·9 | 74 | +6 | 5·1 | 6·87 | +0·97 | 13 | +4·5 | 1·58 |
| | April | 27·462 | +·007 | S 14° W | 1·4 | 63·8 | 56·9 | 82·7 | +5·4 | 94·0 | 56·7 | +2·4 | 43·3 | 36 | +1 | 3·0 | 3·76 | —1·29 | 5 | —3·6 | 1·20 |
| | May | 27·357 | —·004 | S 23° W | 1·5 | 76·3 | 63·4 | 96·4 | +6·7 | 105·4 | 68·1 | +4·8 | 60·7 | 48 | —6 | 0·5 | 3·87 | +1·62 | 2 | —1·7 | 3·63 |
| | June | 27·181 | —·017 | S 22° W | 1·9 | 81·6 | 67·1 | 100·1 | +2·4 | 106·6 | 71·5 | —0·8 | 65·7 | 45 | —6 | 0·6 | 2·09 | —1·27 | 3 | —3·1 | 1·45 |
| | July | 27·188 | +·027 | S 14° W | 1·8 | 80·6 | 71·9 | 97·3 | +2·5 | 107·8 | 72·6 | —1·0 | 63·2 | 66 | —1 | 2·5 | 6·37 | —3·62 | 9 | —2·9 | 2·68 |
| | August | 27·238 | +·028 | S 27° W | 1·3 | 78·3 | 72·3 | 93·7 | +2·9 | 100·6 | 71·5 | —0·7 | 66·2 | 74 | —4 | 2·8 | 6·10 | —3·91 | 10 | —2·8 | 1·25 |
| | September | 27·387 | +·030 | S 27° W | 0·9 | 71·6 | 65·0 | 90·7 | +0·7 | 94·5 | 64·5 | —1·7 | 56·3 | 69 | —1 | 0·5 | 7·06 | +3·26 | 4 | —1·9 | 3·35 |
| | October | 27·526 | +·006 | S 27° W | 0·8 | 64·7 | 56·2 | 89·1 | +4·7 | 94·4 | 57·1 | +1·6 | 53·3 | 57 | —4 | 0·1 | 0 | —1·54 | 0 | —2·4 | 0 |
| | November | 27·626 | +·006 | S 27° W | 0·5 | 51·4 | 47·0 | 72·3 | —2·7 | 84·0 | 46·2 | +1·4 | 38·7 | 72 | +11 | 3·4 | 2·16 | +1·56 | 5 | +3·5 | 1·00 |
| | December | 27·667 | +·015 | Calm. | 1·1 | 43·1 | 41·1 | 61·5 | —1·5 | 69·4 | 39·2 | +1·2 | 30·5 | 84 | +13 | 4·0 | 4·55 | +2·24 | 5 | +0·6 | 1·81 |
| | Year | 27·457 | +·010 | .. | 1·3 | 62·9 | 56·3 | 80·9 | +1·3 | 107·8 | 56·5 | +1·0 | 30·5 | 69 | +4 | 2·7 | 52·26 | —0·15 | 75 | —3·0 | 3·63 |
| Dki (Baluchistan) (441). | January | 29·616 | .. | N 2° W | 2·5 | 51·8 | 45·3 | 68·6 | .. | 75·8 | 46·0 | .. | 37·3 | 57 | .. | 4·1 | 0·27 | .. | 1 | .. | 0·22 |
| | February | ·538 | .. | N 4° E | 1·0 | 57·0 | 47·6 | 77·1 | .. | 95·4 | 49·0 | .. | 35·3 | 44 | .. | 2·3 | 0·69 | .. | 2 | .. | 0·36 |
| | March | ·427 | .. | N 38° E | 3·5 | 70·6 | 54·9 | 87·1 | .. | 95·4 | 61·4 | .. | 39·7 | 31 | .. | 1·6 | 0·05 | .. | 0 | .. | 0·05 |
| | April | ·279 | .. | N 49° E | 3·4 | 86·0 | 64·6 | 102·0 | .. | 112·0 | 72·5 | .. | 59·5 | 27 | .. | 1·7 | 0·20 | .. | 1 | .. | 0·10 |
| | May | ·134 | .. | N 68° E | 4·1 | 95·3 | 67·1 | 111·9 | .. | 119·8 | 81·5 | .. | 69·1 | 18 | .. | 1·7 | 0 | .. | 0 | .. | 0 |
| | June | 28·966 | .. | S 18° W | 5·1 | 96·1 | 74·0 | 113·1 | .. | 117·8 | 87·7 | .. | 73·3 | 33 | .. | 0·7 | 0·52 | .. | 1 | .. | 0·52 |
| | July | ·990 | .. | S 13° E | 4·9 | 93·1 | 77·9 | 108·1 | .. | 115·0 | 87·4 | .. | 75·3 | 49 | .. | 4·3 | 0·78 | .. | 3 | .. | 0·55 |
| | August | 29·071 | .. | S 25° E | 4·7 | 88·9 | 76·9 | 104·9 | .. | 109·8 | 84·8 | .. | 74·3 | 56 | .. | 3·5 | 0·73 | .. | 2 | .. | 0·59 |
| | September | ·222 | .. | S 14° E | 2·8 | 85·2 | 70·8 | 103·2 | .. | 106·0 | 76·0 | .. | 64·3 | 47 | .. | 0·1 | 0 | .. | 0 | .. | 0 |
| | October | ·368 | .. | N 45° E | 2·0 | 79·4 | 65·0 | 99·6 | .. | 104·8 | 64·8 | .. | 55·3 | 33 | .. | 0 | 0 | .. | 0 | .. | 0 |
| | November | (c) ·583 | .. | N 82° E | (c) 1·7 | 64·9 | 55·1 | 85·1 | .. | 98·0 | 54·3 | .. | 42·3 | 50 | .. | 3·1 | 0·33 | .. | 2 | .. | 0·21 |
| | December | ·687 | .. | N 14° E | 1·8 | 51·3 | (b) 44·7 | 72·4 | .. | 79·3 | 43·1 | .. | 32·7 | (b) 53 | .. | 3·1 | 0 | .. | 0 | .. | 0 |
| | Year | 29·315 | .. | .. | 3·1 | 76·6 | 62·0 | 94·4 | .. | 119·8 | 67·4 | .. | 32·7 | 42 | .. | 2·2 | 3·57 | .. | 12 | .. | 0·59 |

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

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| *Trincomalee (Ceylon) (99). | January | 29·813 | —·019 | N 37° E | 5·6 | 77·2 | 74·5 | 82·6 | —0·3 | 86·8 | 75·9 | +1·6 | 72·4 | 87 | +2 | 5·9 | 5·22 | —0·53 | 8 | +0·5 |
| | February | ·809 | —·008 | N 82° E | 4·0 | 77·3 | 72·3 | 86·5 | +0·6 | 88·3 | 76·0 | +1·3 | 70·7 | 79 | —5 | 3·9 | 6·73 | +4·84 | 7 | +4·6 |
| | March | ·770 | +·027 | S 50° W | 2·4 | 76·6 | 73·8 | 86·1 | —3·1 | 91·5 | 75·5 | —0·4 | 72·2 | 87 | +2 | 3·0 | 0·55 | —1·07 | 2 | —0·4 |
| | April | ·697 | —·008 | S 56° W | 3·3 | 78·9 | 76·1 | 89·9 | —2·8 | 96·3 | 77·7 | +0·1 | 72·3 | 88 | +4 | 5·5 | 3·26 | +1·42 | 4 | +1·1 |
| | May | ·670 | +·032 | S 56° W | 5·7 | 80·2 | 76·3 | 93·0 | —0·9 | 96·7 | 79·0 | +0·6 | 75·3 | 83 | +2 | 3·9 | 0·45 | —2·01 | 1 | —2·4 |
| | June | ·607 | —·009 | S 67° W | 8·3 | 80·4 | 75·3 | 93·5 | +1·1 | 96·0 | 79·3 | +1·0 | 76·9 | 78 | —2 | 5·9 | 0·04 | —1·50 | 0 | —1·8 |
| | July | ·648 | +·023 | S 67° W | 6·8 | 78·1 | 74·0 | 89·2 | —2·8 | 94·8 | 77·0 | —0·4 | 71·1 | 82 | +2 | 7·6 | 2·12 | +0·21 | 5 | +2·6 |
| | August | ·688 | +·042 | S 68° W | 6·8 | 77·9 | 74·5 | 90·3 | —2·3 | 93·7 | 76·7 | —0·2 | 71·9 | 83 | +3 | 7·5 | 7·43 | +3·24 | 8 | +3·0 |
| | September | ·681 | +·010 | S 66° W | 5·6 | 78·6 | 74·4 | 94·3 | +2·6 | 96·5 | 77·3 | +0·8 | 75·3 | 81 | 0 | 3·3 | 1·72 | —2·90 | 3 | —3·1 |
| | October | ·722 | +·012 | S 63° W | 4·3 | 77·1 | 74·2 | 88·4 | —1·0 | 94·7 | 75·7 | +0·3 | 72·1 | 87 | +1 | 6·4 | 9·29 | +1·70 | 10 | —0·7 |
| | November | ·781 | +·042 | S 51° W (c) | 2·9 | 76·8 | 75·2 | 83·1 | —2·6 | 85·7 | 75·2 | +0·6 | 73·3 | 92 | +4 | 7·9 | 23·12 | +8·84 | 18 | +4·2 |
| | December | ·766 | —·003 | N 8° E | 4·5 | 76·8 | 74·5 | 81·6 | —1·4 | 83·8 | 75·0 | +0·8 | 72·3 | 90 | +3 | 7·5 | 9·04 | —4·86 | 13 | —0·9 |
| | Year | 29·721 | +·013 | .. | 5·0 | 78·0 | 74·6 | 88·2 | —1·1 | 96·7 | 76·7 | +0·5 | 70·7 | 85 | +2 | 5·7 | 68·97 | +7·38 | 79 | +6·7 |
| *Hambantota (Ceylon) (61). | January | 29·828 | —·023 | N 19° E | 8·7 | 74·4 | 72·2 | 85·3 | +0·9 | 88·9 | 73·7 | +1·5 | 69·5 | 89 | —1 | 5·5 | 1·48 | —1·64 | 4 | —1·7 |
| | February | ·832 | —·016 | N 12° E | 7·7 | 72·4 | 69·6 | 87·7 | +1·9 | 92·0 | 71·8 | +0·2 | 68·2 | 86 | —3 | 3·7 | 0·69 | —0·46 | 1 | —1·7 |
| | March | ·798 | —·025 | N 16° W | 6·8 | 74·8 | 71·8 | 88·0 | +1·0 | 91·1 | 73·8 | —0·3 | 70·2 | 86 | —4 | 3·5 | 2·00 | —1·62 | 4 | —1·1 |
| | April | ·743 | —·031 | N 46° W | 6·0 | 77· | 75·2 | 87·5 | —0·8 | 91·0 | 76·2 | +0·5 | 73·5 | 90 | 0 | 6·1 | 5·32 | +1·86 | 7 | +1·1 |
| | May | ·744 | +·009 | N 85° W | 8·2 | 79·4 | 77·0 | 87·6 | —0·3 | 91·1 | 78·0 | +0·6 | 75·7 | 90 | +1 | 4·3 | 3·73 | +0·56 | 7 | +1·4 |
| | June | ·698 | —·025 | S 83° W | 9·7 | 78·9 | 76·0 | 88·4 | +0·8 | 94·9 | 77·7 | +0·6 | 76·0 | 87 | —2 | 5·3 | 0·78 | —1·38 | 4 | —1·9 |
| | July | ·718 | —·014 | W | 9·2 | 78·1 | 74·9 | 89·2 | +1·9 | 96·6 | 76·9 | +0·5 | 72·3 | 85 | —4 | 5·8 | 4·49 | +2·05 | 5 | —0·3 |
| | August | ·777 | +·019 | S 80° W | 10·3 | 77·1 | 74·7 | 86·5 | —0·8 | 93·0 | 76·2 | —0·1 | 75·0 | 89 | 0 | 5·5 | 1·00 | —0·31 | 4 | +1·0 |
| | September | ·763 | —·005 | S 89° W | 10·8 | 78·0 | 75·0 | 89·8 | +2·9 | 93·7 | 76·7 | +0·7 | 74·3 | 86 | —3 | 3·9 | 0·57 | —1·36 | 1 | —3·3 |
| | October | ·782 | —·014 | N 83° W | 7·9 | 76·5 | 74·5 | 85·5 | —1·3 | 91·1 | 75·4 | +0·2 | 73·4 | 90 | +1 | 5·5 | 4·37 | +0·46 | 10 | +2·5 |
| | November | ·814 | +·026 | N 12° E | 5·7 | 75·4 | 74·0 | 85·0 | —0·9 | 88·6 | 74·4 | +0·3 | 72·9 | 93 | +3 | 5·4 | 8·67 | +3·48 | 15 | +6·6 |
| | December | ·784 | —·035 | N 10° E | 5·7 | 74·6 | 72·7 | 84·7 | +0·5 | 87·5 | 73·6 | +1·1 | 71·2 | 91 | 0 | 5·0 | 1·94 | —3·86 | 6 | —3·5 |
| | Year | 29·773 | —·012 | .. | 8·1 | 76·4 | 74·0 | 87·1 | +0·5 | 96·6 | 75·4 | +0·5 | 68·2 | 89 | 0 | 5·0 | 35·04 | —2·22 | 68 | —0·9 |

*Observations at Trincomalee and Hambantota refer to 7 hrs. local time.

(c) Mean of 29 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of bar-cistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and standard gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Minicoy (Arabian Sea) (7). | January | 29·915 | —·007 | N 34° E | 3·0 | 82·3 | 75·9 | 86·6 | +0·9 | 87·9 | 75·6 | .. | 70·9 | 73 | —4 | 5·3 | 1·67 | —0·21 | 5 | +2·3 | 0·64 |
| | February | ·914 | —·004 | N 25° E | 2·8 | 82·8 | 76·1 | 86·9 | +0·6 | 88·5 | 75·9 | .. | 72·7 | 72 | —4 | 4·9 | 2·62 | +1·97 | 5 | +3·[illegible] | 0·60 |
| | March | ·886 | —·005 | N 10° W | 3·0 | 85·0 | (b) 76·6 | 89·2 | +1·5 | 92·2 | 78·0 | .. | 73·9 | (b) 67 | —7 | 4·2 | 0·05 | —0·99 | 0 | —1·6 | 0·05 |
| | April | ·834 | —·012 | N 41° W | 3·8 | 85·7 | 77·5 | 90·6 | +1·2 | 92·0 | (c) 78·4 | .. | 72·0 | 68 | —6 | 4·7 | 0·05 | —2·57 | 0 | —3·6 | 0·03 |
| | May | ·824 | —·004 | N 67° W | 5·8 | 86·2 | 79·8 | 90·0 | +1·1 | 92·8 | 79·9 | .. | 72·1 | 75 | —2 | 4·7 | 8·36 | +1·97 | 11 | +2·4 | 1·61 |
| | June | ·784 | —·029 | S 84° W | 8·7 | 83·5 | 78·3 | 87·7 | +1·5 | 91·8 | 78·4 | .. | 72·1 | 79 | —3 | 6·4 | 8·15 | —3·76 | 15 | —2·3 | 1·98 |
| | July | ·835 | +·006 | S 88° W | 9·3 | 82·0 | 77·2 | 86·1 | +0·6 | 88·4 | 77·7 | .. | 73·2 | 79 | —3 | 4·4 | 10·58 | +1·78 | 12 | —1·9 | 4·20 |
| | August | ·889 | +·035 | S 87° W | 7·2 | 81·5 | 76·6 | 85·9 | +0·3 | 88·0 | 77·4 | .. | 72·9 | 80 | —1 | 5·1 | 6·88 | —0·28 | 8 | —3·0 | 2·23 |
| | September | ·880 | +·007 | N 61° W | 4·9 | 82·1 | 76·0 | 86·8 | +1·1 | 88·9 | 77·3 | .. | 74·2 | 75 | —5 | 4·2 | 2·12 | —4·29 | 6 | —4·1 | 0·79 |
| | October | ·860 | —·013 | N 60° W | 5·1 | 82·7 | 76·9 | 86·6 | +0·5 | 89·0 | 77·0 | .. | 74·5 | 76 | —5 | 4·6 | 4·89 | —3·43 | 10 | —1·6 | 1·31 |
| | November | ·859 | —·027 | N 43° E | 2·0 | 82·9 | 77·2 | 86·2 | —0·1 | 88·9 | 76·3 | .. | 74·0 | 77 | —2 | 5·4 | 4·58 | —0·71 | 10 | +2·9 | 0·97 |
| | December | ·824 | —·082 | N 41° E | 2·3 | 82·8 | 76·6 | 85·9 | —0·2 | 87·9 | 75·1 | .. | 71·3 | 74 | —3 | 4·6 | 5·48 | +1·97 | 6 | +1·8 | 3·38 |
| | Year | 29·859 | —·011 | .. | 4·8 | 83·3 | 77·1 | 87·4 | +0·8 | 92·8 | 77·3 | .. | 70·9 | 75 | —3 | 4·9 | 55·43 | —8·55 | 88 | —4·8 | 4·20 |
| Amini Devi (Arabian Sea) (13). | January | 29·908 | —·021 | N 14° E | 4·1 | 83·0 | 76·2 | 89·0 | +2·9 | 90·8 | 76·6 | +2·6 | 70·9 | 72 | 0 | 4·0 | 0 | —0·70 | 0 | —1·1 | 0 |
| | February | ·901 | —·022 | N 7° E | 4·8 | 82·4 | 76·1 | 88·6 | +1·5 | 91·8 | 77·5 | +1·5 | 74·3 | 74 | +2 | 3·6 | 0·90 | +0·82 | 2 | +1·7 | 0·60 |
| | March | ·873 | —·017 | N 18° W | 5·5 | 84·3 | 76·8 | 90·2 | +0·7 | 94·0 | 78·9 | +1·3 | 74·7 | 70 | —2 | 3·3 | 0 | —0·05 | 0 | —0·1 | 0 |
| | April | ·816 | —·018 | N 30° W | 7·7 | 85·7 | 78·4 | 90·2 | —1·5 | 93·4 | 80·9 | +1·1 | 74·1 | 71 | 0 | 4·2 | 1·52 | +0·02 | 2 | +0·3 | 1·16 |
| | May | ·810 | +·002 | N 44° W | 6·2 | 86·8 | 79·4 | 91·4 | —0·1 | 94·6 | 82·0 | +1·4 | 76·7 | 71 | —3 | 4·7 | 1·18 | —2·52 | 2 | —2·7 | 1·03 |
| | June | ·735 | —·032 | N 75° W | 13·8 | 83·8 | 78·8 | 86·7 | —0·6 | 89·2 | 79·3 | +1·2 | 74·5 | 79 | —3 | 7·0 | 9·87 | —4·44 | 13 | —3·5 | 2·55 |
| | July | ·781 | —·007 | N 85° W | 14·8 | 82·2 | 77·5 | 85·0 | —0·7 | 86·8 | 78·2 | +0·8 | 74·9 | 80 | —3 | 7·4 | 7·06 | —4·94 | 15 | —0·7 | 2·18 |
| | August | ·846 | +·023 | N 81° W | 14·5 | 81·4 | 76·6 | 84·3 | —1·4 | 86·2 | 77·4 | 0 | 72·7 | 79 | —3 | 7·0 | 4·31 | —3·34 | 9 | —2·4 | 1·86 |
| | September | ·846 | —·002 | N 52° W | 11·0 | 81·4 | 76·4 | 84·7 | —1·1 | 87·0 | 78·4 | +1·2 | 74·3 | 79 | —2 | 6·2 | 2·77 | —3·58 | 6 | —4·5 | 1·02 |
| | October | ·822 | —·035 | N 47° W | 7·6 | 81·0 | 76·6 | 84·5 | —1·9 | 86·6 | 76·7 | —0·1 | 68·5 | 82 | +2 | 7·3 | 13·53 | +7·73 | 8 | —0·7 | 5·26 |
| | November | ·888 | +·016 | N 12° E | 1·9 | 82·5 | 77·7 | 86·6 | +0·1 | 89·4 | 76·0 | +0·5 | 73·3 | 80 | +4 | 6·0 | 2·62 | +0·04 | 7 | +2·8 | 0·70 |
| | December | ·855 | —·053 | N 32° E | (b) 2·8 | 83·2 | 77·2 | 88·1 | +1·8 | 92·6 | 75·7 | +1·9 | 70·1 | 75 | +3 | 4·4 | 0·93 | —0·34 | 3 | +1·0 | 0·31 |
| | Year | 29·840 | —·014 | .. | 7·9 | 83·1 | 77·3 | 87·4 | —0·1 | 94·6 | 78·1 | +1·1 | 68·5 | 76 | 0 | 5·4 | 44·69 | —11·30 | 67 | —9·9 | 5·26 |

(b) Mean of 30 days.

(c) Mean of 29 days.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Cyantse (Tibet) (13,110). | January | 18·375 | .. | S 59° E | .. | 19·3 | .. | 41·9 | —0·3 | 51·6 | 10·0 | +6·7 | 1·2 | .. | .. | 1·9 | 0 | —0·01 | 0 | —0·1 | 0 |
| | February | ·385 | .. | S 27° E | .. | 21·2 | .. | 41·3 | —3·5 | 54·6 | 11·8 | +2·9 | 2·4 | .. | .. | 1·1 | 0 | —0·04 | 0 | —0·2 | 0 |
| | March | ·304 | .. | S 80° E | .. | 31·4 | .. | 49·5 | —1·2 | 56·6 | 19·3 | +3·1 | 13·4 | .. | .. | 0·6 | 0 | —0·06 | 0 | —0·3 | 0 |
| | April | ·412 | .. | S 45° E | .. | 40·3 | (e) 38·5 | 55·9 | —1·9 | 66·1 | 27·1 | +1·7 | 15·4 | (e) 82 | +21 | 1·2 | 0 | —0·15 | 0 | —0·8 | 0 |
| | May | ·468 | .. | N 72° E | (l) 4·9 | 48·7 | 48·0 | 62·7 | —3·1 | 71·6 | 35·8 | +3·5 | 36·4 | 69 | +2 | 2·8 | 0·40 | —0·07 | 2 | +0·3 | 0·18 |
| | June | ·402 | .. | N 63° W | 4·2 | 53·7 | 46·0 | 67·8 | —4·8 | 74·6 | 43·4 | +2·3 | 36·4 | 61 | —4 | 4·9 | 1·77 | +0·78 | 4 | 0 | 0·57 |
| | July | ·462 | .. | S 45° E | 3·0 | 53·7 | 47·4 | 69·0 | —3·5 | 75·6 | 45·1 | +1·4 | 41·4 | 67 | —2 | 6·0 | 3·81 | +1·30 | 12 | +4·7 | 0·89 |
| | August | ·460 | .. | N 27° E | 3·2 | 51·9 | 45·4 | 67·1 | —3·1 | 71·6 | 43·5 | +1·4 | 36·4 | 65 | —7 | 4·6 | 3·27 | +0·05 | 8 | —0·7 | 1·00 |
| | September | ·441 | .. | S 72° E | 3·4 | 52·2 | 48·9 | 68·6 | —1·5 | 72·6 | 41·8 | +3·1 | 35·9 | 56 | —11 | 2·9 | 0·78 | —0·26 | 3 | —0·6 | 0·34 |
| | October | ·499 | .. | S 53° E | 3·8 | 45·5 | (g) 36·0 | 59·4 | —3·6 | 65·8 | 31·5 | +2·6 | 21·4 | (g) 38 | —23 | 2·4 | 0·11 | —0·02 | 1 | +0·6 | 0·11 |
| | November | ·461 | .. | S 52° E | 4·3 | 29·1 | .. | 46·6 | —3·7 | 56·6 | 18·0 | +3·9 | 6·9 | .. | .. | 1·9 | 0·16 | +0·08 | 1 | +0·8 | 0·11 |
| | December | ·428 | .. | S 41° E | 4·8 | 23·4 | .. | 44·5 | +0·9 | 52·1 | 11·5 | +7·3 | 1·9 | .. | .. | 1·3 | 0 | 0 | 0 | 0 | 0 |
| | Year | 18·425 | .. | .. | † 3·9 | 39·2 | .. | 56·2 | —2·4 | 75·6 | 28·2 | +3·3 | 1·2 | 63‡ | —3 | 2·6 | 10·30 | +1·60 | 31 | +3·7 | 1·00 |
| Kashgar (Eastern Turkistan) (4,225). | January | 25·608 | —·092 | N 45° E | 0·2 | 16·9 | .. | 32·5 | —1·6 | 46·4 | 11·0 | —1·2 | 0·8 | .. | .. | 4·8 | 4·00 | +3·83 | 2 | +1·2 | 2·50 |
| | February | ·569 | —·071 | N 45° E | 0·2 | 31·0 | .. | 45·4 | +2·2 | 72·7 | 24·1 | +4·3 | 5·8 | .. | .. | 3·8 | 1·00 | +0·83 | 1 | +0·5 | 1·00 |
| | March | ·435 | —·125 | N 30° W | 1·4 | 46·3 | (c) 39·0 | 57·3 | —0·2 | 73·2 | 36·8 | +1·7 | 28·0 | (c) 50 | —7 | 4·3 | 0·92 | +0·61 | 2 | +1·8 | 0·75 |
| | April | ·437 | —·073 | N 67° W | 2·2 | 63·9 | 49·8 | 77·3 | +5·3 | 91·4 | 49·0 | +0·5 | 37·3 | 34 | —18 | 1·3 | 0 | —0·24 | 0 | —0·9 | 0 |
| | May | ·392 | —·108 | N 18° W | 0·7 | 72·9 | 58·1 | 91·0 | +9·0 | 100·4 | 57·9 | 0 | 46·8 | 40 | —6 | 0·7 | 0·20 | —0·45 | 1 | —0·2 | 0·20 |
| | June | ·308 | —·102 | N 27° W | 1·5 | 77·3 | 64·2 | 93·7 | +3·9 | 106·2 | 64·1 | 0 | 55·1 | 48 | +4 | 0·8 | 0 | —0·27 | 0 | —0·8 | 0 |
| | July | ·284 | —·086 | N | 1·3 | 76·2 | 65·1 | 94·6 | +2·1 | 110·2 | 66·7 | —1·0 | 56·8 | 55 | +6 | 0·7 | 0·67 | +0·43 | 3 | +2·2 | 0·30 |
| | August | ·320 | —·130 | N 27° W | 0·5 | 74·3 | 63·3 | 94·8 | +4·3 | 104·4 | 63·1 | —2·6 | 51·8 | 55 | +1 | 0·8 | 0·32 | —0·21 | 1 | —0·6 | 0·26 |
| | September | ·476 | —·094 | S 45° W | 0·3 | 66·4 | 58·0 | 83·6 | —0·2 | 95·2 | 54·8 | —2·2 | 42·8 | 60 | +5 | 1·1 | 0 | —0·27 | 0 | —0·7 | 0 |
| | October | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | November | ·628 | —·102 | E | (c) 0·1 | 32·8 | .. | 48·2 | —5·1 | 77·2 | 28·6 | +0·1 | 22·8 | .. | .. | 4·3 | 2·50 | +2·35 | 3 | +1·9 | 2·0 |
| | December | ·659 | —·091 | E | 0·1 | 19·6 | .. | 33·0 | —4·3 | 52·7 | 15·6 | —1·1 | 7·8 | .. | .. | 4·7 | 0·77 | +0·63 | 3 | +2·6 | 0·5 |
| | Year* | 25·465 | —·105 | .. | 0·8 | 52·5 | .. | 68·3 | +1·1 | 110·2 | 42·9 | —0·1 | 0·8 | ‡ 49 | —1‡ | 2·5 | 10·38 | +7·22 | 16 | +6·4 | 2·5 |

* Mean of 11 months; ‡ Mean of 7 months (c) Mean of 29 days. (e) Mean of 27 days. (g) Mean of 25 days. (l) Mean of 20 days. † Mean of 8 months.

# MONTHLY AND ANNUAL TABLE D-3 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| Station and height of barcistern above sea level in feet. | Month. | Pressure. At 8 h. reduced to 32° and gravity. | Pressure. Departure from normal. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| Aden (Arabia) (94). | January | 29·900 | —·016 | N 42° E | 14·2 | 75·2 | 69·8 | 82·6 | +2·7 | 84·8 | 73·2 | +0·6 | 69·3 | 75 | —1 | 5·2 | 0 | —0·32 | 0 | —0·8 | 0 |
| | February | ·887 | +·001 | N 44° E | 11·7 | 75·0 | 68·6 | 83·5 | +2·7 | 87·5 | 73·1 | —0·2 | 68·9 | 71 | —6 | 6·4 | 0 | —0·19 | 0 | —0·4 | 0 |
| | March | ·828 | +·001 | N 49° E | 15·3 | 77·0 | 71·8 | 85·6 | +2·2 | 90·5 | 75·3 | 0 | 71·9 | 77 | 0 | 5·3 | 0·01 | —0·47 | 0 | —0·6 | 0·01 |
| | April | ·755 | —·016 | N 45° E | 13·6 | 79·6 | 74·4 | 89·2 | +1·0 | 93·7 | 77·1 | —0·9 | 73·7 | 77 | +1 | 4·0 | 0 | —0·18 | 0 | —0·3 | 0 |
| | May | ·713 | +·010 | N 45° E | 8·9 | 84·7 | 78·6 | 94·5 | +1·8 | 99·9 | 82·0 | +0·5 | 78·3 | 75 | —1 | 3·8 | 0 | —0·13 | 0 | —0·3 | 0 |
| | June | ·563 | —·024 | N 72° E | 7·4 | 88·1 | 80·5 | 96·1 | +1·2 | 99·5 | 85·3 | +1·2 | 82·5 | 71 | —1 | 4·9 | 0 | —0·06 | 0 | —0·1 | 0 |
| | July | ·554 | +·003 | S 45° E | (b) 8·4 | 86·2 | 79·0 | 94·2 | +0·7 | 101·3 | 83·9 | +1·2 | 75·1 | 72 | 0 | 5·4 | 0 | —0·03 | 0 | 0 | 0 |
| | August | ·607 | +·029 | S 26° E | 7·6 | 85·8 | 78·3 | 92·7 | +0·6 | 97·5 | 83·7 | +3·0 | 80·1 | 71 | —3 | 5·4 | 0 | —0·12 | 0 | —0·3 | 0 |
| | September | ·663 | —·002 | N 57° E | 8·5 | 85·4 | 79·7 | 94·5 | +1·3 | 97·1 | 83·3 | +0·9 | 77·9 | 77 | 0 | 3·4 | 0 | —0·15 | 0 | —0·3 | 0 |
| | October | ·775 | —·028 | N 42° E | 10·3 | 81·5 | 75·7 | 91·7 | +2·1 | 94·5 | 78·6 | +0·7 | 74·0 | 75 | +3 | 3·4 | 0 | —0·09 | 0 | —0·2 | 0 |
| | November | ·865 | —·013 | N 45° E | 14·5 | 78·8 | 73·1 | 86·1 | +1·4 | 89·7 | 76·6 | +2·0 | 72·1 | 75 | +2 | 4·2 | 0·15 | +0·07 | 1 | +0·9 | 0·15 |
| | December | ·915 | —·004 | N 45° E | 9·1 | 74·5 | 67·9 | 82·6 | +1·5 | 85·5 | 72·1 | —1·0 | 66·9 | 70 | —4 | 4·0 | 0 | —0·11 | 0 | —0·2 | 0 |
| | Year | 29·752 | —·005 | .. | 10·8 | 81·0 | 74·8 | 89·4 | +1·6 | 101·3 | 78·7 | +0·7 | 66·9 | 74 | —1 | 4·6 | 0·16 | —1·78 | 1 | —2·6 | 0·15 |
| Zanzibar (East Africa, (56). | January | 29·843 | —·002 | N 16° E | (b) 5·3 | 82·6 | 77·6 | 86·7 | +0·5 | 90·2 | 80·1 | +0·6 | 74·6 | 79 | —2 | 6·5 | 4·24 | +1·41 | 5 | +0·1 | 2·45 |
| | February | ·838 | —·005 | N 25° E | 5·5 | 83·7 | 77·7 | 88·6 | +1·7 | 91·8 | 81·2 | +1·3 | 77·8 | 75 | —4 | 6·7 | 1·06 | —1·14 | 1 | —2·6 | 0·97 |
| | March | ·832 | —·006 | S 60° W | 3·6 | 83·2 | 78·4 | 88·0 | +1·2 | 90·5 | 80·1 | +0·7 | 74·4 | 80 | —2 | 6·6 | 5·88 | —0·18 | 8 | —0·4 | 2·16 |
| | April | ·848 | —·015 | S 39° W | 4·8 | 80·3 | 76·8 | 85·0 | +0·5 | 89·2 | 78·1 | +0·7 | 75·5 | 85 | —1 | 8·3 | 10·04 | —4·03 | 12 | —3·1 | 2·08 |
| | May | ·923 | —·005 | S 35° W | 6·9 | 77·9 | 73·9 | (b) 82·6 | —0·2 | 86·0 | 75·8 | 0 | 73·8 | 82 | —4 | 7·5 | 8·16 | —2·38 | 13 | +1·5 | 2·11 |
| | June | ·965 | —·027 | S 27° W | 6·4 | 76·3 | 72·6 | 81·7 | —0·1 | 83·5 | 74·3 | +0·1 | 71·8 | 83 | —1 | 7·3 | 4·01 | +2·10 | 8 | +4·6 | 1·12 |
| | July | 30·046 | +·027 | S 30° W | 7·2 | 74·6 | 70·5 | 80·8 | +0·1 | 82·9 | 72·5 | —0·3 | 71·1 | 80 | —5 | 6·8 | 0 | —2·36 | 0 | —4·9 | 0 |
| | August | ·039 | +·026 | S 32° W | 5·9 | 75·3 | 71·3 | 81·0 | —0·1 | 84·0 | 72·7 | 0 | 69·6 | 81 | —3 | 7·1 | 1·19 | —0·48 | 6 | +1·8 | 0·27 |
| | September | 29·980 | —·013 | S 14° W | 4·8 | 77·5 | 73·0 | 83·0 | +0·6 | 85·3 | 74·1 | +0·5 | 72·8 | 80 | —3 | 7·1 | 1·68 | —0·43 | 3 | —2·0 | 0·96 |
| | October | ·946 | —·002 | S 12° E | 3·5 | 79·3 | 74·1 | 83·6 | +0·2 | 86·2 | 75·5 | +0·3 | 73·7 | 77 | —5 | 6·8 | 1·68 | —1·92 | 4 | —1·8 | 0·80 |
| | November | ·917 | +·026 | S 1° E | 3·7 | 79·9 | 75·9 | 83·5 | —1·0 | 86·0 | 75·7 | —1·6 | 73·0 | 82 | 0 | 7·4 | 18·95 | +11·42 | 18 | +7·4 | 2·70 |
| | December | 29·841 | —·014 | N 43° E | 5·1 | 2·[illegible] | 7·8 | 86·2 | +0·3 | 88·0 | 79·2 | 0 | 75·7 | 73 | —3 | 6·9 | 2·77 | —2·53 | 3 | —5·3 | 1·7 |
| | Year | 29·918 | —·001 | .. | 5·2 | 79·4 | 74·9 | 84·2 | +0·3 | 91·8 | 76·6 | +0·2 | 69·6 | 80 | —3 | 7·1 | 59·66 | —0·52 | 81 | —4·[illegible] | 2·7 |

(b) Mean of 30 days.

## Table D-4.—Abstract of forenoon or afternoon observations at 9 stations in Persia, etc., in the year 1928.

# MONTHLY AND ANNUAL TABLE D-4 FOR 1928.

*Abstract of forenoon or afternoon observations at 9 stations in Persia, etc.*

| Station height of barcistern above sea level in feet and time of observation. | Month. | Pressure. Mean reduced to 32° F. and standard gravity. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Highest. | Temperature. Maximum. Date. | Temperature. Minimum. Mean. | Temperature. Minimum. Lowest. | Temperature. Minimum. Date. | Humidity. Mean 8 h. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Number of rainy days. | Rainfall. Heaviest rainfall. | Rainfall. Date. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 9 hrs. Local time = 6 hrs. (G. M. T) Baghdad 106 ft. | January | 30·104 | N 37° W | .. | 40·7 | 38·5 | 58·2 | 66·6 | 1st | 36·5 | 22·1 | 7th | 82 | 5·8 | 0·89 | 3 | 0·40 | 9th |
| | February | ·002 | N 58° W | .. | 46·0 | 43·3 | 63·4 | 71·2 | 20th and 21st | 41·4 | 29·5 | 1st | 80 | 5·0 | 1·80 | 4 | 0·96 | 7th |
| | March | ·002 | N 25° W | .. | 53·6 | 45·9 | 69·2 | 87·4 | 30th | 42·8 | 26·0 | 2nd and 3rd | 51 | 2·8 | 0·05 | 0 | 0·05 | 31st |
| | April | 29·795 | N 18° W | .. | 78·3 | 62·7 | 93·0 | 109·7 | 24th | 60·9 | 48·8 | 3rd | 39 | 3·3 | 0·09 | 0 | 0·07 | 7th |
| | May | ·774 | N 5° W | .. | 85·4 | 64·3 | 99·4 | 110·0 | 22nd | 67·7 | 58·6 | 6th | 27 | 2·7 | 0 | 0 | 0 | .. |
| | June | ·569 | N 18° W | .. | 93·1 | 68·8 | 108·2 | 117·5 | 24th | 73·0 | 64·7 | 4th | 24 | 0·5 | 0 | 0 | 0 | .. |
| | July | ·489 | N 21° W | .. | 96·2 | 70·2 | 112·1 | 117·8 | 23rd | 79·2 | 71·2 | 17th | 23 | 0·2 | 0 | 0 | 0 | .. |
| | August | ·558 | N 21° W | .. | 92·3 | 65·8 | 109·4 | 114·8 | 3rd | 74·2 | 67·8 | 18th & 19th | 24 | 0 | 0 | 0 | 0 | .. |
| | September | ·728 | N 9° W | .. | 90·6 | 68·5 | 106·0 | 113·0 | 6th | 70·9 | 64·2 | 27th | 28 | 0·6 | 0 | 0 | 0 | .. |
| | October | ·922 | N 11° W | .. | 73·3 | 59·8 | 89·6 | 104·0 | 4th ,8th and 9th | 56·6 | 47·0 | 27th and 28th | 41 | 1·0 | 0 | 0 | 0 | .. |
| | November | 30·040 | N 28° E | .. | 59·9 | 55·8 | 72·3 | 81·0 | 13th and 14th | 51·0 | 38·0 | 27th and 28th | 76 | 4·6 | 2·40 | 4 | 0·93 | 22nd |
| | December | ·077 | N 7° E | .. | 49·5 | 46·6 | 64·0 | 72·0 | 21st | 42·8 | 36·0 | 30th | 80 | 5·2 | 0·07 | 0 | 0·06 | 7th |
| | Year | 29·838 | .. | .. | 71·6 | 57·5 | 87·1 | 117·8 | 23rd July | 58·1 | 22·1 | 7th Jan. | 48 | 2·6 | 5·30 | 11 | 0·96 | 7th Feb. |
| 14 hrs. (G. M. T.) Ispahan (a) 5,817 ft. | January | 24·248 | S 52° W | 1·2 | 42·4 | 36·3 | 45·7 | 63·4 | 2nd | 29·4 | 19·2 | 29th | 54 | 5·3 | 1·18 | 4 | 0·32 | 26th |
| | February | ·183 | S 38° W | 2·9 | 54·1 | 41·0 | 56·8 | 68·6 | 25th | 32·4 | 15·4 | 2nd | 27 | 3·8 | 0·40 | 2 | 0·17 | 18th |
| | March | ·175 | S 57° W | 3·1 | 58·1 | 42·1 | 61·7 | 74·0 | 31st | 37·6 | 18·2 | 4th | 20 | 4·9 | 0·04 | 0 | 0·03 | 16th |
| | April | ·262 | S 81° W | 2·1 | 75·2 | 55·2 | 79·0 | 88·4 | 25th and 26th | 51·8 | 44·2 | 2nd | 24 | 5·3 | 0·29 | 1 | 0·24 | 29th |
| | May | ·220 | N 75° W | 1·7 | 79·1 | 57·4 | 83·8 | 94·4 | 31st | 56·4 | 47·2 | 11th | 29 | 2·4 | 0·06 | 0 | 0·06 | 13th |
| | June | ·120 | N 52° E | 1·7 | 90·2 | 62·8 | 93·8 | 99·3 | 25th | 65·0 | 58·2 | 10th | 22 | 4·0 | 0·08 | 0 | 0·08 | 9th |
| | July | ·013 | N 56° E | 2·4 | 94·7 | 69·4 | 97·4 | 101·7 | 28th | 68·9 | 64·2 | 6th and 7th | 28 | 2·4 | 0 | 0 | | .. |
| | August | ·104 | N 66° E | 2·2 | 91·3 | 65·1 | 94·7 | 100·4 | 10th | 66·6 | 54·7 | 31st | 24 | 2·5 | 0 | 0 | | .. |
| | September | ·261 | Calm | 1·4 | 86·2 | 62·1 | 89·4 | 94·7 | 3rd | 58·4 | 53·5 | 28th | 25 | 1·5 | 0 | 0 | 0 | |
| | October | ·250 | Calm | 1·4 | 74·8 | 55·1 | 79·8 | 87·8 | 1st | 50·3 | 36·6 | 30th | 29 | 1·0 | 0 | 0 | 0 | .. |
| | November | ·320 | S 72° W | 1·2 | 57·7 | 48·1 | 63·1 | 72·1 | 2nd | 38·8 | 25·2 | 27th | 51 | 1·6 | 0·17 | 1 | 0·14 | 20th |
| | December | ·260 | S 57° E | 1·1 | 48·7 | 41·0 | 54·3 | 66·2 | 18th | 31·0 | 23·2 | 28th | 52 | 3·5 | 0·38 | 1 | 0·25 | 8th |
| | Year | 24·201 | .. | 1·9 | 71·0 | 53·1 | 74·9 | 101·7 | 28th July | 48·9 | 15·4 | 2nd Feb. | 32 | 3·2 | 2·60 | 9 | 0·32 | 26th Jan. |

(a) Aneroid.

*N. B.*—Elevation in italics indicate barometrical determination.

# MONTHLY AND ANNUAL TABLE D-4 FOR 1928—*contd.*

*Abstract of forenoon or afternoon observations at 9 stations in Persia etc.*—contd.

| Station and height of barcistern above sea level in feet and time of observations. | Month. | Pressure. Mean reduced to 32° F. and standard gravity. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Highest. | Temperature. Maximum. Date. | Temperature. Minimum. Mean. | Temperature. Minimum. Lowest. | Temperature. Minimum. Date. | Humidity. Mean 8 h. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Number of rainy days. | Rainfall. Heaviest rainfall. | Rainfall. Date. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 14 hrs (G. M. T.) Tehran (a) *4,002 ft.* | January | 25·775 | S 62° W | 1·9 | 37·3 | 34·6 | 42·0 | 56·0 | 2nd | 28·0 | 19·1 | 29th | 78 | 3·2 | 0·65 | 2 | 0·34 | 23rd |
| | February | ·641 | N 5° E | 4·9 | 44·2 | .. | 49·4 | 66·1 | 23rd | 32·3 | 12·1 | 11th | .. | 3·6 | 2·22 | 6 | 0·73 | 8th |
| | March | ·649 | S 53° W | 3·0 | 51·9 | .. | 57·2 | 73·3 | 31st | 35·9 | 20·1 | 9th | .. | 3·7 | 1·17 | 5 | 0·48 | 17th |
| | April | ·648 | S 61° W | 3·6 | 74·2 | .. | 78·7 | 90·7 | 25th | 54·5 | 40·9 | 4th | .. | 3·9 | 1·41 | 4 | 0·46 | 2nd |
| | May | ·600 | S 48° W | 3·9 | 78·3 | .. | 80·6 | 92·9 | 31st | 59·2 | 47·5 | 9th | .. | 3·9 | 0·24 | 2 | 0·14 | 1st |
| | June | ·511 | S 27° W | 3·2 | 90·1 | .. | 94·3 | 100·9 | 30th | 69·0 | 62·1 | 17th | .. | 2·2 | 0·03 | 0 | 0·02 | 11th |
| | July | ·541 | S 32° W | 2·4 | 91·5 | .. | 94·5 | 100·1 | 1st | 70·5 | 61·1 | 3rd | .. | 0·0 | 0·01 | 0 | 0·01 | 16th |
| | August | ·540 | S 38° W | 3·0 | 88·4 | .. | 91·6 | 97·7 | 5th | 68·6 | 57·1 | 18th | .. | 1·7 | 0·02 | 0 | 0·02 | 26th |
| | September | ·680 | S 33° W | 2·5 | 82·8 | (n) 63·2 | 86·3 | 92·4 | 2nd | 62·2 | 53·1 | 18th | 38(n) | 1·9 | 0 | 0 | .. | .. |
| | October | ·726 | S 41° W | 2·3 | 70·8 | 57·3 | 74·7 | 85·4 | 5th | 53·3 | 30·2 | 29th | 43 | 1·9 | 0·03 | 0 | 0·02 | 27th |
| | November | ·778 | S 38° W | 2·7 | 56·4 | 49·5 | 61·6 | 70·3 | 3rd | 42·5 | 32·1 | 29th | 61 | 3·4 | 1·01 | 3 | 0·69 | 24th |
| | December | ·732 | S 45° W | 1·9 | 45·6 | 41·3 | 50·0 | 56·9 | 17th | 33·5 | 21·5 | 28th | 70 | 4·9 | 1·15 | 4 | 0·57 | 8th |
| | Year | 25·653 | .. | 1·3 | 67·6 | .. | 70·9 | 100·9 | 30th June | 50·8 | 12·1 | 11th Feb. | .. | 2·9 | 7·94 | 26 | 0·73 | 8th Feb. |
| 14-30 hrs. Local time 10-30 hrs. (G.M.T.) Meshed *3,104 ft.* | January | 26·090 | N 22° E | 1·4 | 34·7 | .. | 37·8 | 54·4 | 1st | 21·9 | 0 | 7th | 72 | 4·5 | 1·84 | 5 | 0·55 | 3rd |
| | February | 25·926 | S 45° E | 1·6 | 45·6 | 39·6 | 48·7 | 80·4 | 25th | 26·1 | 0 | 10th and 12th | 62 | 3·7 | 1·84 | 3 | 1·05 | 9th |
| | March | ·970 | S 34° E | 2·2 | 48·3 | 40·8 | 50·4 | 77·4 | 31st | 31·9 | 20·0 | 10th | 55 | 3·9 | 1·39 | 5 | 0·32 | 9th |
| | April | ·861 | S 58° E | 2·2 | 72·6 | 56·8 | 73·9 | 88·0 | 24th | 48·6 | 38·5 | 18th | 35 | 3·7 | 0·34 | 1 | 0·11 | 14th |
| | May | ·827 | N 49° E | 1·4 | 81·1 | 61·3 | 82·9 | 97·2 | 30th and 31st | 54·6 | 41·5 | 12th | 32 | 3·9 | 0·62 | 2 | 0·38 | 9th |
| | June | ·758 | N 46° E | 2·2 | 89·7 | 65·0 | 91·5 | 97·2 | 2nd, 3rd 26th, and 27th | 60·0 | 62·0 | 16th and 17th | 24 | 1·4 | 0 | 0 | 0 | .. |
| | July | ·784 | N 52° E | 1·9 | 89·2 | 65·8 | 90·6 | 98·2 | 27th | 60·5 | 55·0 | 8th | 28 | 2·1 | 0·13 | 0 | 0·05 | 16th |
| | August | ·798 | N 56° E | 1·7 | 84·9 | 64·5 | 87·1 | 98·2 | 10th | 57·3 | 45·0 | 26th | 34 | 2·2 | 0 | 0 | 0 | .. |
| | September (c) | ·961 | S 87° E | (d)1·2 | 80·7 | 58·7 | 81·8 | 92·2 | 2nd and 3rd | 46·1 | 35·0 | 19th | 22 | 0·5 | 0 | 0 | 0 | .. |
| | October | ·926 | S 77° E | 1·4 | 69·8 | 53·1 | 70·9 | 88·7 | 6th | 39·7 | 28·0 | 26th and 27th | 32 | 2·1 | 0 | 0 | 0 | .. |
| | November | 26·003 | N 67° E | 0·5 | 62·7 | 47·4 | 62·8 | 75·2 | 4th | 33·8 | 18·5 | 29th | 34 | 3·2 | 0·11 | 0 | 0·09 | 11th |
| | December | 25·994 | S 24° E | 0·3 | 46·0 | 39·9 | 47·5 | 61·7 | 17th | 28·0 | 11·0 | 28th | 59 | 4·8 | 1·34 | 5 | 0·62 | 11th |
| | Year | 25·908 | .. | 1·5 | 67·1 | 53·9* | 68·8 | 98·2 | 27th July and 10th Aug. | 41·5 | 0 | 7th Jan. 10th and 12th Feb. | 41 | 3·0 | 7·61 | 21 | 1·05 | 9th Feb. |

(c) Mean of 29 days. (d) Mean of 28 days. (n) Mean of 13 days. * Mean of 11 months. (a) Aneroid. *N. B.*—Elevation in italics indicate barometrical determination.

# MONTHLY AND ANNUAL TABLE D-4 FOR 1928—*contd.*

*Abstract of forenoon or afternoon observations at 9 stations in Persia, etc.*—contd.

| Station, height of barcistern above sea level in feet and time of observation. | Month. | Pressure. Mean reduced to 32° F. and standard gravity. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Highest. | Temperature. Maximum. Date. | Temperature. Minimum. Mean. | Temperature. Minimum. Lowest. | Temperature. Minimum. Date. | Humidity. Mean 8 h. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Number of rainy days. | Rainfall. Heaviest rainfall. | Rainfall. Date. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 16 hrs. Local time-11-52 hrs. (G. M. T.) Seistan (*a*) | January | 28·383 | N 45° W | 4·2 | 48·3 | 43·2 | 49·1 | 63·8 | 22nd | 34·0 | 17·5 | 30th | 69 | 4·5 | 0·20 | 1 | 0·20 | 23rd |
| | February | ·009 | N 52° W | 2·9 | 60·9 | 48·6 | 66·7 | 87·8 | 29th | 39·0 | 19·6 | 3rd | 34 | 0·5 | 0·12 | 1 | 0·12 | 11th |
| | March | 27·917 | N 45° W | 5·9 | 68·9 | 53·9 | 69·6 | 84·8 | 31st | 46·3 | 31·8 | 6th | 35 | 0 | 0·98 | 2 | 0·80 | 22nd |
| | April | ·797 | N 45° W | 7·8 | 89·1 | 65·8 | 92·5 | 98·8 | 8th | 62·6 | 51·0 | 19th | 26 | 0 | 0 | 0 | 0 | .. |
| | May | ·910 | N 45° W | 5·5 | 94·8 | 70·0 | 95·2 | 109·6 | 25th | 67·6 | 55·4 | 11th | 27 | 0 | 0 | 0 | 0 | .. |
| | June | ·705 | N 45° W | 11·1 | 99·1 | 71·6 | 99·7 | 107·8 | 1st and 2nd | 76·8 | 70·8 | 17th | 23 | 0·1 | 0 | 0 | 0 | .. |
| | July | ·711 | N 45° W | 11·4 | 99·5 | 71·6 | 99·8 | 106·0 | 28th | 76·8 | 69·5 | 6th | 21 | 0 | 0 | 0 | 0 | .. |
| | August | ·770 | N 45° W | 10·9 | 96·8 | 69·6 | 97·0 | 108·5 | 17th | 72·4 | 64·5 | 10th | 22 | 0·3 | 0 | 0 | 0 | .. |
| | September | (*g*) ·960 (*v*) (*k*) 28·185 | N 45° W | 9·7 | 90·7 | 62·6 | 90·9 | 99·8 | 3rd | 66·1 | 54·0 | 20th | 15 | 0 | 0 | 0 | 0 | .. |
| | October | (*k*) ·273 | N 45° W | 5·9 | 84·0 | 60·2 | 84·5 | 96·0 | 14th | 54·4 | 47·6 | 28th | 20 | 0·1 | 0 | 0 | 0 | .. |
| | November | (*k*) ·385 | N 45° W | 3·9 | 73·4 | 55·8 | 74·3 | 84·4 | 7th | 44·1 | 29·3 | 30th | 29 | 1·3 | 0·01 | 0 | 0·01 | 11th |
| | December | (*k*) ·468 | N 42° W | 2·5 | 60·2 | 49·3 | 60·7 | 71·8 | 9th | 35·5 | 28·2 | 2nd | 44 | 1·1 | 0·28 | 1 | 0·18 | 12th |
| | Year | .. | .. | 6·8 | 80·5 | 60·2 | 81·7 | 109·6 | 25th May | 56·3 | 17·5 | 30th Jan. | 34 | 0·7 | 1·59 | 5 | 0·80 | 22nd Mar. |
| 16 hrs. I. S. T., up to 31st May 17 hrs. I. S. T. Mirjawa 2,762 ft. | January | 27·215 | N 49° E | .. | 55·9 | (*d*) 41·5 | 57·2 | 70·9 | 4th | .. | .. | .. | 35(*l*) | 4·0 | .. | .. | .. | .. |
| | February | ·113 | S 36° E | .. | 71·7 | (*f*) 54·6 | 73·7 | 97·0 | 27th | .. | .. | .. | 39(*l*) | 3·0 | .. | .. | .. | .. |
| | March | ·056 | S 69° E | .. | 76·4 | 56·1 | 78·2 | 94·8 | 23rd | .. | .. | .. | 23(*b*) | 2·8 | .. | .. | .. | .. |
| | April | 26·994 | N 37° E | .. | 93·8 | 64·5 | 94·9 | 102·9 | 14th | .. | .. | .. | 15 | 3·0 | .. | .. | .. | .. |
| | May | ·926 | N 45° E | .. | 98·7 | 68·1 | 100·3 | 109·9 | 26th | .. | .. | .. | 17 | 3·7 | .. | .. | .. | .. |
| | June | ·798 | N 20° E | .. | 104·0 | 71·0 | 105·4 | 111·6 | 4th | .. | .. | .. | 16 | 0·8 | .. | .. | .. | .. |
| | July | ·799 | N 18° E | .. | 103·8 | 73·6 | 105·4 | 110·9 | 27th | .. | .. | .. | (*b*)21 | 0·2 | .. | .. | .. | .. |
| | August | ·837 | N 35° E | .. | 102·7 | 69·0 | 104·8 | 112·2 | 11th | .. | .. | .. | (*b*)14 | 1·2 | .. | .. | .. | .. |
| | September | 27·069 | N 30° E | .. | 94·2 | 62·1 | 95·8 | 103·2 | 3rd | .. | .. | .. | 10 | 0·3 | .. | .. | .. | .. |
| | October | ·096 | N 65° E | .. | 88·9 | 62·3 | 91·2 | 99·6 | 1st | .. | .. | .. | 17 | 0·2 | .. | .. | .. | .. |
| | November | ·155 | N 80° E | .. | 76·5 | 54·2 | 78·7 | 90·5 | 6th | .. | .. | .. | 16 | 2·9 | .. | .. | .. | .. |
| | December | ·200 | S 66° E | .. | 63·7 | 48·7 | 64·9 | 72·9 | 23rd | .. | .. | .. | 27 | 2·4 | .. | .. | .. | .. |
| | Year | 27·021 | .. | .. | 85·9 | 60·5 | 87·5 | 112·2 | 11th Aug. | .. | .. | .. | 21 | 2·0 | .. | .. | .. | .. |

(*f*) Mean of 26 days. (*g*) Mean of 25 days. (*v*) Mean of 5 days. (*k*) Mercury barometer. (*d*) Mean of 28 days. (*l*) Mean of 20 days. (*b*) Mean of 30 days. (*a*) Aneroid.

# MONTHLY AND ANNUAL TABLE D-4 FOR 1928—*contd.*

*Abstract of forenoon or afternoon observations at 9 stations in Persia, etc.*—contd.

| Station, height of bar-cistern above sea-level in feet and time of observation. | Month. | Pressure. Mean reduced to 32° F. and standard gravity. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Highest. | Temperature. Maximum. Date. | Temperature. Minimum. Mean. | Temperature. Minimum. Lowest. | Temperature. Minimum. Date. | Humidity. Mean 8 h. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Number of rainy days. | Rainfall. Heaviest rainfall. | Rainfall. Date. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 17 hrs. I. S. T. Chaman 4,311 ft. | January | 25·691 | S 85° W | .. | 46·5 | (e) 42·1 | 48·0 | 61·3 | 2nd | .. | .. | .. | (e)21 | 7·6 | .. | .. | .. | .. |
| | February | ·672 | W | .. | 59·5 | (e)46·0 | 60·8 | 80·4 | 25th and 26th | .. | .. | .. | 30 | 5·0 | .. | .. | .. | .. |
| | March | ·601 | S 74° W | .. | 64·5 | 49·0 | 66·7 | 79·4 | 23rd | .. | .. | .. | 32 | 5·9 | .. | .. | .. | .. |
| | April | ·567 | N 81° W | .. | 85·1 | 58·7 | 87·0 | 94·0 | 14th | .. | .. | .. | 16 | 3·3 | .. | .. | .. | .. |
| | May | ·505 | N 82° W | .. | 91·2 | 63·4 | 94·0 | 100·8 | 27th | .. | .. | .. | 18 | 3·6 | .. | .. | .. | .. |
| | June | ·341 | N 79° W | .. | 98·4 | 69·0 | 100·1 | 105·4 | 4th | .. | .. | .. | (j)14 | 1·3 | .. | .. | .. | .. |
| | July | ·332 | N 81° W | .. | 99·1 | 63·1 | 100·8 | 106·5 | 18th | .. | .. | .. | (e) 9 | 1·7 | .. | .. | .. | .. |
| | August | ·383 | S 87° W | .. | 96·6 | 62·2 | 98·3 | 104·7 | 12th | .. | .. | .. | (b)10 | 1·0 | .. | .. | .. | .. |
| | September | ·536 | S 89° W | .. | 87·7 | 56·2 | 89·5 | 96·8 | 4th | .. | .. | .. | 8 | 0·1 | .. | .. | .. | .. |
| | October | ·646 | N 83° W | .. | 81·2 | 53·9 | 82·9 | 89·4 | 2nd | .. | .. | .. | 10 | 0·2 | .. | .. | .. | .. |
| | November | ·703 | N 75° W | .. | 66·3 | 48·1 | 68·2 | 81·2 | 7th | .. | .. | .. | 24 | 4·7 | .. | .. | .. | .. |
| | December | ·737 | N 75° W | .. | 53·5 | 41·8 | 55·3 | 66·4 | 10th | .. | .. | .. | 34 | 4·4 | .. | .. | .. | .. |
| | Year | 25·559 | .. | .. | 77·5 | 54·5 | 79·3 | 106·5 | 18th July | .. | .. | .. | 19 | 3·2 | .. | .. | .. | .. |
| 15 hrs. 45 mins. I. S. T. up to 31st May, 16 hrs. 45 mins. I. S. T. later Dalbandin 2,772 ft. | January | 27·169 | S 80° E | .. | 57·1 | 46·7 | .. | .. | .. | .. | .. | .. | 43 | 7·4 | .. | .. | .. | .. |
| | February | ·092 | S 12° W | .. | 71·3 | 52·9 | (u)84·6 | 93·4 | 25th | .. | .. | .. | 26 | 3·9 | .. | .. | .. | .. |
| | March | ·031 | S 32° W | .. | 77·6 | 57·1 | 78·5 | 90·5 | 21st | .. | .. | .. | 24 | 5·4 | .. | .. | .. | .. |
| | April | 26·966 | S 30° W | .. | 95·7 | 64·0 | 97·1 | 103·8 | 14th | .. | .. | .. | 12 | 4·3 | .. | .. | .. | .. |
| | May | ·892 | S 47° W | .. | 101·2 | 65·5 | 102·9 | 110·8 | 28th | .. | .. | .. | (f) 10 | 4·6 | .. | .. | .. | .. |
| | June | ·708 | S 78° W | .. | 107·6 | 67·1 | 109·3 | 114·4 | 6th | .. | .. | .. | (u)13 | 2·4 | .. | .. | .. | .. |
| | July | ·697 | S 66° W | .. | 107·5 | 68·6 | 108·8 | 113·7 | 21st | .. | .. | .. | (m) 11 | 3·1 | .. | .. | .. | .. |
| | August | ·745 | S 39° W | .. | 105·4 | 72·8 | 107·1 | 114·0 | 12th | .. | .. | .. | (b)18 | 3·4 | .. | .. | .. | .. |
| | September | ·918 | S 3° W | .. | 96·4 | 68·2 | 98·3 | 105·3 | 4th | .. | .. | .. | 20 | 0·1 | .. | .. | .. | .. |
| | October | 27·025 | S 32° E | .. | 90·1 | 63·6 | 91·9 | 96·6 | 3rd | .. | .. | .. | (b) 16 | 0 | .. | .. | .. | .. |
| | November | ·121 | S 69° E | .. | 75·8 | 54·9 | 78·1 | 91·0 | 6th and 8th | .. | .. | .. | 21 | 2·3 | .. | .. | .. | .. |
| | December | ·161 | S 72° E | .. | 62·0 | 48·9 | 63·3 | 73·7 | 22nd | .. | .. | .. | 35 | 1·7 | .. | .. | .. | .. |
| | Year | 26·960 | .. | .. | 87·3 | 60·9 | 93·5† | 114·4 | 6th June | .. | .. | .. | 21* | 3·2 | .. | .. | .. | .. |

(b) Mean of 30 days. (e) Mean of 27 days. (u) Mean of 11 days. † Mean of 10 months. (j) Mean of 22 days. (f) Mean of 26 days. (m) Mean of 19 days. * Mean of 11 months.

# MONTHLY AND ANNUAL TABLE D-4 FOR 1928—*concld.*

*Abstract of forenoon or afternoon observations at 9 stations in Persia, etc.*—concld.

| Station, height of barcistern above sea-level in feet and time of observation. | Month. | Pressure. Mean reduced to 32° F. and standard gravity. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Highest. | Temperature. Maximum. Date. | Temperature. Minimum. Mean. | Temperature. Minimum. Lowest. | Temperature. Minimum. Date. | Humidity. Mean 8 h. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Number of rainy days. | Rainfall. Heaviest rainfall. | Rainfall. Date. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 14 hrs. (G. M. T.) Manora 13 ft. | January | 30·008 | N 62° W | 5·8 | 69·0 | 60·0 | 74·8 | 80·1 | 13th | .. | .. | .. | 56 | 5·8 | .. | .. | .. | .. |
| | February | 29·927 | N 84° W | 5·9 | 70·4 | 63·5 | 76·5 | 82·7 | 22nd | .. | .. | .. | 66 | 5·9 | .. | .. | .. | .. |
| | March | ·811 | N 89° W | 8·4 | 75·9 | 69·9 | 82·7 | 95·8 | 31st | .. | .. | .. | 73 | 8·4 | .. | .. | .. | .. |
| | April | ·704 | S 80° W | 9·8 | 80·8 | 76·0 | 87·4 | 97·2 | 6th | .. | .. | .. | 79 | 9·8 | .. | .. | .. | .. |
| | May | ·617 | S 82° W | 12·1 | 83·2 | 79·1 | 88·8 | 91·0 | 12th | .. | .. | .. | 83 | 12·1 | .. | .. | .. | .. |
| | June | ·453 | S 82° W | 12·8 | 83·5 | 79·3 | 88·5 | 90·4 | 11th | .. | .. | .. | 82 | 12·8 | .. | .. | .. | .. |
| | July | ·456 | S 79° W | 11·4 | 83·1 | 79·2 | 87·7 | 90·2 | 25th | .. | .. | .. | 83 | 11·4 | .. | .. | .. | .. |
| | August | ·538 | S 70° W | 12·1 | 81·7 | 76·9 | 86·5 | 88·6 | 1st and 16th | .. | .. | .. | 79 | 12·1 | .. | .. | .. | .. |
| | September | ·680 | S 83° W | 11·3 | 80·1 | 75·5 | 85·7 | 90·3 | 30th | .. | .. | .. | 79 | 11·3 | .. | .. | .. | .. |
| | October | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | November | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | December | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | Year * | 29·688 | .. | 9·9 | 78·6 | 73·3 | 84·3 | 97·2 | 6th April | .. | .. | .. | 75 | 9·9 | .. | .. | .. | .. |

* Mean of 9 months.

# Table D-5—Abstract of Observations taken at 8 hrs. at 18 fourth class stations, in the year 1928.

# MONTHLY AND ANNUAL TABLE D-5 FOR 1928.

*Abstract of 8 hrs. observations.*

| STATION. | Month. | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean 8 h. | | Maximum. | | | Minimum. | | | | | | | | | | |
| | | Mean direction at 8 h. | Mean velocity in miles per hour. | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest in month or year. | Mean. | Departure from normal. | Lowest in month or year. | Mean 8 h. | Departure from normal. | Mean amount 8 h. | Total of the month or year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall in month or year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Lumding (Assam) | January | .. | .. | 52·3 | 51·9 | 71·8 | —2·7 | 79·9 | 47·8 | —0·1 | 43·6 | 97 | +2 | .. | 0·27 | —0·15 | 1 | +0·1 | 0·11 |
| | February | .. | .. | 56·2 | 55·2 | 79·3 | +1·3 | 84·8 | 50·4 | +0·1 | 42·3 | 94 | +3 | .. | 0·54 | —1·35 | 2 | —1·7 | 0·22 |
| | March | .. | .. | 66·8 | 62·8 | 86·8 | +1·7 | 93·2 | 58·5 | +1·0 | 49·9 | 79 | —4 | .. | 1·94 | —0·64 | 5 | 0 | 1·04 |
| | April | .. | .. | 73·4 | 68·7 | 92·5 | +5·4 | 101·0 | 66·2 | +1·7 | 60·8 | 78 | —2 | .. | 1·27 | —2·85 | 3 | —6·6 | 0·64 |
| | May | .. | .. | 76·5 | 73·4 | 88·1 | —2·0 | 95·9 | 71·8 | +1·2 | 68·1 | 86 | +4 | .. | 7·87 | +2·13 | 16 | +6·3 | 2·10 |
| | June | .. | .. | 79·8 | 77·0 | 88·0 | —2·8 | 93·0 | 76·2 | +1·8 | 72·6 | 88 | +6 | .. | 9·90 | +1·95 | 18 | +6·0 | 2·10 |
| | July | .. | .. | 81·2 | 78·3 | 89·4 | —1·9 | 98·2 | 76·8 | +1·7 | 73·5 | 87 | +2 | .. | 3·98 | —4·63 | 9 | —4·0 | 1·70 |
| | August | .. | .. | 79·5 | 77·5 | 88·8 | —1·9 | 94·0 | 76·3 | 0 | 73·5 | 91 | +4 | .. | 10·96 | +3·59 | 11 | —0·4 | 3·43 |
| | September | .. | .. | 78·8 | 77·3 | 88·2 | —1·5 | 90·2 | 76·1 | +1·5 | 74·6 | 93 | +4 | .. | 8·16 | +1·23 | 13 | +2·4 | 2·44 |
| | October | .. | .. | 73·3 | 72·1 | 82·2 | —3·6 | 89·3 | 70·8 | +1·1 | 65·5 | 94 | +3 | .. | 6·66 | +2·36 | 16 | +10·2 | 1·15 |
| | November | .. | .. | 60·8 | 60·0 | 76·8 | —3·4 | 83·2 | 57·3 | —2·2 | 47·8 | 94 | —1 | .. | 0·17 | —0·52 | 1 | —0·4 | 0·12 |
| | December | .. | .. | 53·7 | 53·1 | 72·9 | —1·7 | 75·2 | 49·9 | —0·5 | 44·9 | 96 | +1 | .. | 0 | —0·41 | 0 | —1·3 | 0 |
| | Year | .. | .. | 69·3 | 67·3 | 83·7 | —1·1 | 101·0 | 64·8 | +0·6 | 42·3 | 90 | +2 | .. | 51·72 | +0·71 | 95 | +10·6 | 3·43 |
| Mossa Salona (Assam) | January | .. | .. | 57·5 | 54·9 | 75·8 | —3·2 | 82·0 | 48·6 | +2·8 | 40·2 | 85 | +9 | .. | 0·32 | —0·27 | 1 | —0·3 | 0·23 |
| | February | .. | .. | 64·1 | 59·0 | 83·5 | +3·0 | 88·6 | 52·0 | +2·7 | 45·6 | 72 | —5 | .. | 0·38 | —0·91 | 2 | —1·3 | 0·17 |
| | March | .. | .. | 72·2 | 64·0 | 89·0 | +2·1 | 96·8 | 59·9 | +3·6 | 53·5 | 63 | —10 | .. | 1·22 | —1·39 | 4 | —1·3 | 0·41 |
| | April | .. | .. | 77·0 | 69·8 | 92·6 | +3·9 | 100·6 | 64·5 | +1·3 | 60·5 | 68 | —8 | .. | 5·09 | —0·73 | 10 | —1·7 | 1·38 |
| | May | .. | .. | 78·9 | 74·2 | 88·4 | —3·1 | 95·5 | 71·5 | +2·4 | 66·9 | 80 | +3 | .. | 8·32 | +0·26 | 18 | +4·6 | 0·85 |
| | June | .. | .. | 82·1 | 78·2 | 91·5 | —1·3 | 97·0 | 76·3 | +1·9 | 72·8 | 83 | +3 | .. | 13·76 | +0·54 | 19 | +1·3 | 2·16 |
| | July | .. | .. | 84·0 | 79·1 | 92·9 | —0·3 | 100·9 | 76·7 | +1·2 | 74·2 | 80 | —3 | .. | 12·96 | —5·01 | 17 | —3·2 | 2·00 |
| | August | .. | .. | 82·9 | 79·1 | 91·9 | —1·8 | 97·0 | 76·9 | +1·5 | 72·9 | 84 | +1 | .. | 13·98 | —2·86 | 17 | —2·0 | 1·82 |
| | September | .. | .. | 82·7 | 79·1 | 91·8 | —1·6 | 95·3 | 76·7 | +2·6 | 74·6 | 85 | +3 | .. | 8·65 | —2·12 | 17 | +2·6 | 1·23 |
| | October | .. | .. | 77·1 | 73·5 | 86·5 | —4·1 | 93·0 | 70·7 | +2·5 | 64·7 | 84 | +5 | .. | 8·54 | +3·56 | 11 | +3·4 | 1·85 |
| | November | .. | .. | 68·2 | 63·9 | 82·4 | —3·9 | 88·2 | 57·2 | +0·2 | 48·9 | 79 | +2 | .. | 1·11 | +0·80 | 4 | +2·8 | 0·33 |
| | December | .. | .. | 59·8 | 56·3 | 78·8 | —1·7 | 82·6 | 48·6 | +1·7 | 43·6 | 80 | +4 | .. | 0 | —0·44 | 0 | —1·2 | 0 |
| | Year | .. | .. | 73·9 | 69·3 | 87·1 | —1·0 | 100·9 | 65·0 | +2·1 | 40·2 | 79 | +1 | .. | 74·33 | —8·77 | 120 | +3·7 | 2·16 |
| Brahmanbaria (Bengal) | January | .. | .. | 55·0 | 52·0 | 73·4 | —5·8 | 81·4 | 48·8 | —3·8 | 44·9 | 81 | 0 | .. | 0·05 | —0·17 | 0 | —0·7 | 0·05 |
| | February | .. | .. | 68·6 | 62·2 | 88·7 | +6·7 | 93·3 | 58·6 | +3·1 | 54·1 | 68 | —10 | .. | 0·05 | —1·31 | 0 | —2·2 | 0·05 |
| | March | .. | .. | 74·8 | 68·8 | 92·7 | +3·8 | 96·0 | 65·0 | +0·9 | 62·1 | 72 | —5 | .. | 1·12 | —2·60 | 3 | —1·4 | 0·65 |
| | April | .. | .. | 80·3 | 73·7 | 93·7 | +3·0 | 98·6 | 67·4 | —2·2 | 64·7 | 72 | —7 | .. | 2·31 | —5·34 | 3 | —5·4 | 0·87 |
| | May | .. | .. | 80·1 | 75·5 | 92·4 | +1·5 | 99·0 | 69·5 | —4·2 | 67·3 | 82 | +2 | .. | 15·14 | +3·18 | 22 | +10·3 | 1·72 |
| | June | .. | .. | 81·3 | 77·9 | 91·0 | +1·8 | 92·6 | 72·1 | —2·1 | 68·3 | 85 | +2 | .. | 10·62 | —5·91 | 17 | +0·6 | 1·75 |
| | July | .. | .. | 82·5 | 79·2 | 91·1 | +2·2 | 94·6 | 75·5 | —0·8 | 73·9 | 86 | +2 | .. | 8·52 | —3·19 | 18 | +1·7 | 1·25 |
| | August | .. | .. | 81·3 | 79·3 | 91·0 | +2·2 | 93·2 | 76·0 | —0·5 | 73·7 | 91 | +7 | .. | 11·13 | —1·15 | 18 | +0·8 | 1·95 |
| | September | .. | .. | 82·0 | 79·5 | 92·0 | +2·0 | 93·6 | 77·1 | +0·6 | 75·3 | 89 | +6 | .. | 6·82 | —2·92 | 13 | —0·1 | 2·30 |
| | October | .. | .. | 80·9 | 78·3 | 90·1 | +1·4 | 92·6 | 75·6 | +2·3 | 72·3 | 88 | +8 | .. | 10·42 | +10·16 | 14 | +7·1 | 2·82 |
| | November | .. | .. | 78·8 | 74·1 | 87·1 | +1·4 | 90·4 | 70·8 | +6·7 | 65·9 | 79 | +3 | .. | 0·55 | —0·15 | 1 | —0·1 | 0·55 |
| | December | .. | .. | 70·7 | 64·5 | 78·5 | —1·9 | 81·3 | 59·2 | +5·0 | 51·9 | 70 | —7 | .. | 0 | —0·31 | 0 | —0·7 | 0 |
| | Year | .. | .. | 76·4 | 72·1 | 88·5 | +1·6 | 99·0 | 68·0 | +0·4 | 44·9 | 80 | 0 | .. | 72·73 | —0·71 | 109 | +9·9 | 2·82 |

# MONTHLY AND ANNUAL TABLE D-5 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| STATION. | Month. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Goalando (Bengal) | January | .. | .. | 62·5 | 58·3 | 77·1 | +3·7 | 84·1 | 51·6 | +0·7 | 41·0 | 77 | —3 | .. | 0·08 | —0·13 | 0 | —0·7 | 0·08 |
| | February | .. | .. | 65·9 | 60·3 | 84·3 | +2·4 | 96·6 | 54·4 | +1·0 | 47·2 | 71 | —5 | .. | 0 | —1·39 | 0 | —2·4 | 0 |
| | March | .. | .. | 73·6 | 68·1 | 94·9 | +4·1 | 100·5 | 64·0 | +2·1 | 48·5 | 74 | 0 | .. | 0·78 | —1·55 | 1 | —2·8 | 0·70 |
| | April | .. | .. | 80·2 | 74·4 | 95·2 | +0·6 | 105·1 | 71·7 | +0·6 | 63·0 | 76 | —2 | .. | 4·07 | —0·20 | 5 | —1·1 | 1·16 |
| | May | .. | .. | 82·1 | 77·8 | 92·6 | —0·3 | 99·7 | 73·7 | —0·1 | 66·5 | 81 | +1 | .. | 6·46 | —1·83 | 11 | +1·1 | 1·20 |
| | June | .. | .. | 81·4 | 79·1 | 88·7 | —1·2 | 95·1 | 77·0 | +0·7 | 71·0 | 90 | +5 | .. | 11·57 | —1·27 | 16 | —0·4 | 3·31 |
| | July | .. | .. | 82·9 | 80·1 | 87·7 | —0·7 | 92·5 | 77·5 | +0·2 | 72·0 | 88 | +2 | .. | 14·03 | +2·33 | 20 | +3·5 | 1·80 |
| | August | .. | .. | 82·7 | 79·6 | 88·3 | —0·1 | 93·6 | 78·4 | +0·8 | 75·0 | 87 | +2 | .. | 12·90 | +1·03 | 16 | —0·9 | 5·63 |
| | September | .. | .. | 84·7 | 81·0 | 90·9 | +1·4 | 93·3 | 78·9 | +1·4 | 75·0 | 85 | +3 | .. | 3·62 | —5·15 | 5 | —7·0 | 1·67 |
| | October | .. | .. | 83·3 | 78·4 | 89·0 | —0·4 | 93·5 | 75·3 | +2·2 | 71·2 | 81 | +4 | .. | 10·78 | +5·17 | 12 | +5·9 | 2·50 |
| | November | .. | .. | 75·3 | 70·0 | 84·5 | —0·2 | 91·5 | 63·2 | +0·5 | 54·4 | 76 | 0 | .. | 0·08 | —0·49 | 0 | —0·6 | 0·08 |
| | December | .. | .. | 65·3 | 61·6 | (d) 77·2 | —0·8 | 80·9 | 54·4 | +2·4 | 48·8 | 80 | +2 | .. | 0 | —0·23 | 0 | —0·4 | 0 |
| | Year | .. | .. | 76·7 | 72·4 | 87·5 | +0·7 | 105·1 | 68·3 | +1·0 | 41·0 | 81 | +1 | .. | 64·37 | —3·71 | 86 | —5·8 | 5·63 |
| Pabna (Bengal) | January | .. | .. | 58·6 | 56·3 | 79·1 | —0·1 | 85·4 | 49·6 | —3·2 | 40·3 | 87 | +5 | .. | 0·49 | +0·20 | 2 | +1·4 | 0·24 |
| | February | .. | .. | 64·8 | 59·6 | 84·7 | +1·9 | 91·5 | 53·0 | —2·9 | 46·3 | 72 | —5 | .. | 0 | —1·07 | 0 | —1·7 | 0 |
| | March | .. | .. | 76·0 | 68·5 | 95·7 | +4·5 | 102·8 | 62·1 | —1·7 | 51·6 | 67 | —8 | .. | 0·02 | —1·35 | 0 | —2·7 | 0·02 |
| | April | .. | .. | 81·3 | 74·7 | 97·0 | +1·1 | 106·2 | 68·2 | —3·1 | 60·6 | 73 | —6 | .. | 0·91 | —1·97 | 3 | —1·7 | 0·32 |
| | May | .. | .. | 82·3 | 77·4 | 93·9 | —0·7 | 102·6 | 70·8 | —3·8 | 65·6 | 79 | —3 | .. | 7·14 | +0·06 | 12 | +2·9 | 1·56 |
| | June | .. | .. | 82·8 | 79·4 | 90·3 | —1·0 | 96·4 | 72·9 | —2·1 | 68·3 | 86 | 0 | .. | 8·03 | —3·76 | 15 | +0·4 | 1·89 |
| | July | .. | .. | 82·6 | 79·5 | 88·8 | —1·6 | 92·6 | 72·9 | —3·4 | 68·6 | 87 | 0 | .. | 11·08 | —0·70 | 19 | +2·3 | 1·83 |
| | August | .. | .. | 82·6 | 79·7 | 90·2 | +0·1 | 96·0 | 73·3 | —3·0 | 67·5 | 87 | 0 | .. | 11·69 | +1·42 | 15 | —1·0 | 4·27 |
| | September | .. | .. | 85·3 | 81·1 | 92·0 | +0·4 | 94·4 | 74·6 | —1·8 | 71·2 | 83 | —1 | .. | 1·15 | —7·11 | 3 | —8·3 | 0·41 |
| | October | .. | .. | 82·1 | 77·9 | 90·3 | —0·8 | 94·0 | 71·4 | —1·5 | 66·1 | 82 | +2 | .. | 10·38 | +4·95 | 10 | +4·6 | 2·30 |
| | November | .. | .. | 72·4 | 68·4 | 86·2 | —0·3 | 92·3 | 61·9 | —1·9 | 55·6 | 81 | +2 | .. | 0 | —0·55 | 0 | —0·8 | 0 |
| | December | .. | .. | 62·3 | 59·6 | 80·1 | +0·1 | 82·7 | 52·8 | —1·7 | 46·6 | 85 | +5 | .. | 0 | —0·19 | 0 | —0·4 | 0 |
| | Year | .. | .. | 76·1 | 71·8 | 89·0 | +0·3 | 106·2 | 65·3 | —2·5 | 40·3 | 81 | 0 | .. | 50·89 | —10·07 | 79 | —5·0 | 4·27 |
| Jamshedpur (Chota Nagpur) | January | .. | .. | 60·7 | 56·9 | 79·1 | .. | 87·8 | 54·9 | .. | 45·5 | 77 | .. | .. | 1·74 | .. | 2 | .. | 1·45 |
| | February | .. | .. | 65·2 | 59·7 | 83·8 | .. | 92·3 | 59·0 | .. | 52·0 | 71 | .. | .. | 0·86 | .. | 1 | .. | 0·86 |
| | March | .. | .. | 76·5 | 62·8 | 96·2 | .. | 101·7 | 67·2 | .. | 56·0 | 43 | .. | .. | 0·05 | .. | 0 | .. | 0·03 |
| | April | .. | .. | 82·2 | 70·9 | 99·2 | .. | 107·0 | 72·1 | .. | 62·3 | 56 | .. | .. | 2·75 | .. | 4 | .. | 1·62 |
| | May | .. | .. | 87·1 | 79·0 | 03·31 | .. | 113·4 | 78·7 | .. | 72·1 | 68 | .. | .. | 2·38 | .. | 7 | .. | 0·68 |
| | June | .. | .. | 82·9 | 78·0 | 92·5 | .. | 107·7 | 77·3 | .. | 70·4 | 80 | .. | .. | 14·34 | .. | 13 | .. | 3·12 |
| | July | .. | .. | 81·8 | 78·3 | 90·0 | .. | 98·8 | 77·5 | .. | 73·9 | 84 | .. | .. | 12·62 | .. | 19 | .. | 1·56 |
| | August | .. | .. | 82·3 | 78·9 | 90·4 | .. | 96·3 | 77·3 | .. | 74·6 | 85 | .. | .. | 9·84 | .. | 18 | .. | 2·11 |
| | September | .. | .. | 82·7 | 78·6 | 91·5 | .. | 95·1 | 77·0 | .. | 72·6 | 82 | .. | .. | 5·04 | .. | 8 | .. | 1·92 |
| | October | .. | .. | 79·2 | 75·7 | 88·9 | .. | 92·3 | 73·4 | .. | 66·6 | 84 | .. | .. | 4·38 | .. | 9 | .. | 0·84 |
| | November | .. | .. | 67·4 | 63·3 | 85·1 | .. | 90·3 | 59·1 | .. | 51·0 | 79 | .. | .. | 0 | .. | 0 | .. | 0 |
| | December | .. | .. | 59·9 | 56·8 | 79·2 | .. | 85·3 | 53·8 | .. | 47·0 | 82 | .. | .. | 0·05 | .. | 0 | .. | 0·05 |
| | Year | .. | .. | 75·7 | 69·9 | 89·9 | .. | 113·4 | 68·9 | .. | 45·5 | 74 | .. | .. | 54·05 | .. | 81 | .. | 3·12 |

(*d*) Mean of 28 days.

# MONTHLY AND ANNUAL TABLE D-5 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| STATION | Month. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Height in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Gurdaspur (Punjab) | January | .. | .. | 47·1 | 43·5 | 62·5 | .. | 70·4 | 41·3 | .. | 35·3 | 73 | .. | 4·1 | 2·67 | .. | 5 | .. | 1·35 |
| | February | .. | .. | 52·9 | 48·7 | 71·0 | .. | 81·4 | 47·5 | .. | 41·3 | 72 | .. | 2·9 | 1·20 | .. | 3 | .. | 0·66 |
| | March | .. | .. | 60·8 | 51·6 | 80·8 | .. | 88·5 | 51·6 | .. | 42·4 | 50 | .. | 1·9 | 0·39 | .. | 2 | .. | 0·17 |
| | April | .. | .. | 76·4 | 64·5 | 92·5 | .. | 103·4 | 63·8 | .. | 49·4 | 49 | .. | 1·4 | 0·28 | .. | 2 | .. | 0·16 |
| | May | .. | .. | 89·5 | 68·3 | 105·2 | .. | 113·0 | 74·2 | .. | 64·1 | 30 | .. | 1·0 | 0·18 | .. | 1 | .. | 0·18 |
| | June | .. | .. | 89·1 | 73·1 | 103·1 | .. | 108·9 | 77·2 | .. | 64·3 | 45 | .. | 3·3 | 0·90 | .. | 4 | .. | 0·33 |
| | July | .. | .. | 86·0 | 76·1 | 97·2 | .. | 108·3 | 78·6 | .. | 67·6 | 63 | .. | 2·1 | 4·07 | .. | 9 | .. | 1·20 |
| | August | .. | .. | 83·0 | 75·6 | 94·1 | .. | 103·3 | 76·4 | .. | 70·0 | 70 | .. | 2·2 | 9·71 | .. | 10 | .. | 4·65 |
| | September | .. | .. | 80·3 | 71·3 | 94·1 | .. | 99·0 | 71·5 | .. | 62·4 | 62 | .. | 0·6 | 3·50 | .. | 2 | .. | 2·20 |
| | October | .. | .. | 73·4 | 62·4 | 92·8 | .. | 98·2 | 61·8 | .. | 50·3 | 51 | .. | 0·5 | 0·18 | .. | 1 | .. | 0·18 |
| | November | .. | .. | 61·1 | 54·2 | 79·6 | .. | 87·9 | 51·6 | .. | 40·8 | 62 | .. | 2·0 | 2·85 | .. | 4 | .. | 1·61 |
| | December | .. | .. | 49·5 | 45·9 | 65·6 | .. | 73·7 | 44·3 | .. | 37·8 | 74 | .. | 1·8 | 3·01 | .. | 4 | .. | 1·30 |
| | Year | .. | .. | 70·8 | 61·3 | 86·5 | .. | 113·0 | 61·7 | .. | 35·3 | 58 | .. | 2·0 | 28·94 | .. | 47 | .. | 4·65 |
| Sargoda (Punjab) | January | N 45° W | 0·3 | 45·4 | 44·0 | 64·0 | .. | 72·0 | .. | .. | .. | 89 | .. | 2·2 | 0·86 | .. | 3 | .. | 0·35 |
| | February | N 4° E | 0·8 | 53·1 | 48·9 | 72·6 | .. | 91·2 | .. | .. | .. | 73 | .. | 0·9 | 0·09 | .. | 0 | .. | 0·05 |
| | March | N 34° E | 0·8 | 63·1 | 59·6 | 80·7 | .. | 88·6 | (j) 57·0 | .. | 47·8 | 81 | .. | 1·4 | 0·60 | .. | 3 | .. | 0·26 |
| | April | S 45° E | 0·5 | 77·4 | 72·5 | 94·8 | .. | 105·0 | 64·3 | .. | 52·8 | 78 | .. | 0·9 | 0·41 | .. | 1 | .. | 0·18 |
| | May | N 45° E | 0·4 | 91·9 | 74·6 | (g) 104·7 | .. | 111·2 | 76·9 | .. | 67·4 | 43 | .. | 0·1 | 0·27 | .. | 1 | .. | 0·24 |
| | June | N 59° E | 1·1 | 95·0 | 85·3 | .. | .. | .. | 82·2 | .. | 67·0 | 67 | .. | 1·1 | 0·40 | .. | 2 | .. | 0·18 |
| | July | S | 0·9 | 95·5 | 88·1 | .. | .. | .. | 86·0 | .. | 78·0 | 74 | .. | 1·5 | 2·42 | .. | 4 | .. | 1·62 |
| | August | S 45° W | 2·5 | 89·7 | 82·5 | (c) 101·4 | .. | 108·1 | 82·8 | .. | 70·0 | 73 | .. | 1·8 | 0 | .. | 0 | .. | 0 |
| | September | S 56° W | 0·6 | 83·5 | 78·4 | 97·9 | .. | 101·8 | 72·4 | .. | 61·5 | 79 | .. | 0·4 | 2·80 | .. | 1 | .. | 2·80 |
| | October | Calm | .. | 76·0 | 68·6 | 95·1 | .. | 100·9 | 65·0 | .. | 59·0 | 68 | .. | 0 | 0·35 | .. | 1 | .. | 0·35 |
| | November | N 45° E | .. | 60·6 | 55·1 | 71·3 | .. | 90·3 | 52·4 | .. | 44·3 | 69 | .. | 1·2 | 0·66 | .. | 2 | .. | 0·48 |
| | December | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| | Year * | .. | (a) 0·9 | 75·6 | 68·9 | (a) 86·9 | .. | 111·2 | (b) 72·7 | .. | 44·3 | 72 | .. | 1·0 | 8·86 | .. | 18 | .. | 2·80 |
| Sukkur (Sind) | January | N 45° E | 1·5 | 52·2 | 47·9(e) | 71·6 | .. | 80·2 | .. | .. | .. | (e) 68 | .. | .. | .. | .. | .. | .. | .. |
| | February | N 67° E | 1·7 | 58·9 | (d) 49·9 | 80·9 | .. | 98·5 | .. | .. | .. | (d) 49 | .. | .. | .. | .. | .. | .. | .. |
| | March | N 55° E | 3·3 | 69·4 | 60·0 | 89·8 | .. | 99·5 | .. | .. | .. | 56 | .. | .. | .. | .. | .. | .. | .. |
| | April | N 45° E | 3·2 | 80·2 | (i) 63·7 | 102·8 | .. | 111·5 | .. | .. | .. | (i) 46 | .. | .. | .. | .. | .. | .. | .. |
| | May | S 17° E | 4·2 | 88·6 | 81·7 | 109·9 | .. | 116·0 | .. | .. | .. | .. | .. | .. | .. | .. | .. | | |
| | June | S 9° E | 5·9 | 87·8 | (h) 82·8 | 110·1 | .. | 117·8 | .. | .. | .. | (h) 81 | .. | .. | .. | .. | .. | .. | .. |
| | July | S 12° E | 5·5 | 88·2 | 82·5 | 105·8 | .. | 112·0 | .. | .. | .. | 78 | .. | .. | .. | .. | .. | .. | .. |
| | August | S 12° E | 7·8 | 84·8 | 77·8 | 101·9 | .. | 106·8 | .. | .. | .. | 71 | .. | .. | .. | .. | .. | .. | .. |
| | September | S | 4·3 | 81·8 | 75·0 | 100·4 | .. | 103·5 | .. | .. | .. | 73 | .. | .. | .. | .. | .. | .. | .. |
| | October | Calm | 1·9 | 80·4 | 69·2 | 78·9 | .. | 104·2 | .. | .. | .. | 56 | .. | .. | .. | .. | .. | .. | .. |
| | November | Calm | (d) 1·8 | 66·6 | 61·8 | 88·1 | .. | 98·0 | 56·9 | .. | 46·0 | 77 | .. | .. | .. | .. | .. | .. | .. |
| | ecember | N 34° E | 1·4 | 52·5 | 46·4 | 76·0 | .. | 83·0 | 44·5 | .. | 34·0 | 62 | .. | .. | .. | .. | .. | .. | .. |
| | Year | .. | 3·5 | 74·3 | (j) 65·3 | 93·0 | .. | 117·8 | .. | .. | .. | (j) 67 | .. | .. | .. | .. | .. | .. | .. |

(*a*) Mean of 9 months. (*b*) Mean of 8 months. (*c*) Mean of 29 days. (*d*) Mean of 28 days. (*e*) Mean of 30 days. (*f*) Mean of 11 days.
(*g*) Mean of 16 days. (*) Mean of 11 months. (*h*) Mean of 20 days. (*i*) Mean of 12 days. (*j*) Mean of 10 months.

# MONTHLY AND ANNUAL TABLE D-5 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| STATION. | Month. | Wind. | | Temperature. | | | | | | | | Humidity. | | Cloud | Rainfall. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Mean 8 h. | | Maximum. | | | Minimum. | | | | | | | | | | |
| | | Mean direction at 8 h. | Mean velocity in miles per hour. | Dry bulb. | Wet bulb. | Mean. | Departure from normal. | Highest in month or year. | Mean. | Departure from normal. | Lowest in month or year. | Mean 8 h. | Departure from normal. | Mean amount 8 h. | Total of the month or year. | Departure from normal. | Number of rainy days. | Departure from normal. | Heaviest fall in month or year. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Jammu (Kashmir) | January | N 25° E | .. | 50·1 | 47·8 | 62·7 | −3·2 | 70·3 | 48·1 | −0·1 | 42·6 | 85 | +14 | 5·6 | 2·97 | +0·59 | 6 | +2·2 | 1·05 |
| | February | N 21° E | .. | 57·5 | 52·1 | 70·8 | +2·1 | 83·0 | 53·4 | +2·5 | 44·9 | 70 | +3 | 4·6 | 5·51 | +3·15 | 4 | +0·5 | 2·39 |
| | March | N 34° E | .. | 65·1 | 54·6 | 79·3 | +1·6 | 86·3 | 59·5 | +1·4 | 51·3 | 49 | −5 | 5·7 | 1·59 | −1·06 | 4 | −0·5 | 0·75 |
| | April | N 30° E | .. | 77·9 | 62·9 | 91·3 | +3·2 | 102·3 | 69·6 | +2·6 | 57·6 | 42 | −4 | 2·4 | 1·04 | −0·69 | 3 | −0·6 | 0·66 |
| | May | N 18° E | .. | 89·9 | 67·1 | 105·5 | +7·0 | 113·6 | 82·1 | +5·2 | 73·1 | 28 | −12 | 1·2 | 0·04 | −0·75 | 0 | −2·4 | 0·04 |
| | June | N 84° E | .. | 90·4 | 71·5 | 103·5 | +2·5 | 109·3 | 83·8 | +2·1 | 70·7 | 39 | −12 | 2·1 | 2·08 | −1·50 | 3 | −1·4 | 1·70 |
| | July | N 40° E | .. | 84·9 | 77·6 | 96·6 | +1·1 | 110·4 | 79·6 | +0·6 | 68·3 | 72 | +2 | 3·6 | 14·32 | +0·97 | 11 | +0·2 | 3·45 |
| | August | N 40° E | .. | 82·1 | 76·8 | 93·1 | +0·9 | 101·2 | 77·8 | +0·8 | 66·9 | 79 | +2 | 5·5 | 8·84 | −5·55 | 10 | −2·1 | 1·63 |
| | September | N 21° E | .. | 81·4 | 72·0 | 92·9 | +0·8 | 97·7 | 75·7 | +1·1 | 67·3 | 63 | −5 | 0·6 | 4·16 | +1·06 | 3 | −0·6 | 3·05 |
| | October | N 31° E | .. | 76·0 | 63·1 | 91·1 | +2·7 | 96·3 | 69·7 | +3·1 | 63·5 | 46 | −8 | 0·4 | 0·21 | −0·49 | 1 | −0·3 | 0·21 |
| | November | N 41° E | .. | 63·2 | 54·9 | 76·8 | −0·8 | 86·4 | 57·8 | +2·4 | 51·3 | 58 | 0 | 3·5 | 3·60 | +3·34 | 4 | +3·3 | 1·58 |
| | December | N 37° E | .. | 53·2 | 49·1 | 66·0 | −1·4 | 75·1 | 49·2 | +1·2 | 42·7 | 74 | +9 | 3·8 | 3·52 | +2·63 | 4 | +1·5 | 1·25 |
| | Year | .. | .. | 72·6 | 62·5 | 85·8 | +1·4 | 113·6 | 67·2 | +1·9 | 42·6 | 59 | −1 | 3·3 | 47·88 | +1·70 | 53 | −0·2 | 3·45 |
| Kargil (Kashmir) | January | S 45° E | .. | 20·4 | .. | (l) 34·1 | +7·3 | 42·6 | 17·4 | +17·1 | 6·6 | .. | .. | 7·5 | 1·06 | −0·40 | 3 | −0·9 | 0·45 |
| | February | N 50° E | .. | 14·0 | .. | (v) 34·6 | .. | 45·1 | 9·5 | +7·2 | −3·9 | .. | .. | 6·8 | 3·16 | +2·08 | 7 | +4·1 | 1·04 |
| | March | N | .. | 27·0 | .. | (c) 39·8 | −1·8 | 50·6 | 24·2 | +9·4 | 14·6 | .. | .. | 6·5 | 3·56 | +2·38 | 10 | +7·2 | 0·68 |
| | April | S 63° E | .. | 38·1 | (g) 35·4 | 53·6 | −4·5 | 64·6 | 35·6 | +5·1 | 19·6 | (v) 64 | −1 | 4·1 | 4·92 | +3·20 | 6 | +2·2 | 1·88 |
| | May | N 45° W | .. | 54·8 | 45·1 | 72·1 | −0·6 | 78·7 | 49·5 | +7·9 | 40·9 | 47 | −5 | 2·3 | 0·52 | −0·27 | 3 | +1·4 | 0·20 |
| | June | S 63° E | .. | 63·7 | 51·0 | 79·7 | −3·3 | 91·3 | 57·1 | +6·3 | 52·1 | 41 | −1 | 1·8 | 0·08 | −0·04 | 0 | −0·7 | 0·08 |
| | July | N 87° E | .. | 69·6 | 65·1 | 86·0 | −3·1 | 96·1 | 65·4 | +9·3 | 57·5 | 80 | +40 | 3·7 | 0·25 | +0·08 | 1 | +0·4 | 0·21 |
| | August | S 33° E | .. | 68·4 | 56·7 | 84·9 | −3·9 | 96·7 | 62·8 | +6·9 | 55·1 | 49 | +9 | 3·3 | 0·12 | −0·14 | 0 | −1·2 | 0·04 |
| | September | S 11° W | .. | 59·6 | 48·3 | 76·1 | −4·1 | 83·1 | 54·2 | +6·7 | 46·1 | 43 | +1 | 1·2 | 0·55 | +0·38 | 1 | +0·2 | 0·19 |
| | October | S 4° W | .. | 49·6 | 38·1 | 69·3 | +1·8 | 75·1 | 44·5 | +9·7 | 39·1 | 31 | −14 | 0·7 | 0 | −0·37 | 0 | −0·5 | 0 |
| | November | N 16° W | .. | 35·7 | (t) 35·3 | 49·9 | −1·5 | 66·3 | 31·1 | +11·4 | 22·5 | (c) 57 | −4 | 2·9 | 0·17 | +0·05 | 0 | −0·4 | 0·09 |
| | December | N 56° W | .. | 18·5 | .. | (k) 31·8 | −4·2 | 42·9 | 13·9 | +4·4 | 4·1 | .. | .. | 3·7 | 0·45 | −0·28 | 3 | +1·2 | 0·11 |
| | Year | .. | .. | 43·3 | .. | (s) 61·6 | +1·2 | 96·7 | 38·8 | +8·5 | −3·9 | (w) 51 | (w) +4 | 3·7 | 14·84 | +6·67 | 34 | +13·0 | 1·88 |
| Bannu (N.W.F. Province) | January | .. | .. | 46·3 | 42·7 | 64·8 | .. | 73·7 | 41·1 | .. | 31·4 | 72 | .. | 5·3 | 0·20 | .. | 1 | .. | 0·12 |
| | February | .. | .. | 52·9 | 47·6 | 70·1 | .. | 83·5 | 47·0 | .. | 36·6 | 66 | .. | 3·4 | 2·33 | .. | 5 | .. | 1·40 |
| | March | .. | .. | 62·2 | 53·8 | 77·7 | .. | 86·3 | 54·2 | .. | 42·2 | 55 | .. | 3·5 | 0·40 | .. | 2 | .. | 0·22 |
| | April | .. | .. | 77·7 | 64·8 | 91·6 | .. | 102·1 | 64·4 | .. | 53·0 | 48 | .. | 2·2 | 0·69 | .. | 2 | .. | 0·42 |
| | May | .. | .. | 89·3 | 67·5 | 104·2 | .. | 113·1 | 77·2 | .. | 66·4 | 28 | .. | 1·6 | 0·06 | .. | 0 | .. | 0·06 |
| | June | .. | .. | 91·0 | 72·9 | 106·4 | .. | 114·1 | 82·4 | .. | 71·6 | 39 | .. | 1·7 | 0·49 | .. | 3 | .. | 0·23 |
| | July | .. | .. | 88·9 | 77·6 | 103·9 | .. | 113·5 | 82·6 | .. | 75·6 | 59 | .. | 3·5 | 2·83 | .. | 4 | .. | 1·28 |
| | August | .. | .. | (c) 88·9 | (c) 76·7 | (c) 102·6 | .. | 110·3 | (c) 82·3 | .. | 72·2 | (c) 56 | .. | 2·0 | 0·56 | .. | 2 | .. | 0·24 |
| | September | .. | .. | 83·5 | 70·2 | 99·9 | .. | 103·3 | 74·2 | .. | 66·0 | 49 | .. | 0·2 | 0 | .. | 0 | .. | 0 |
| | October | .. | .. | 74·2 | 59·8 | 95·0 | .. | 100·9 | 63·4 | .. | 58·6 | 39 | .. | 0·1 | 0 | .. | 0 | .. | 0 |
| | November | .. | .. | 57·8 | 50·1 | 78·8 | .. | 89·9 | 51·9 | .. | 41·4 | 55 | .. | 4·0 | 2·33 | .. | 3 | .. | 0·84 |
| | December | .. | .. | 46·9 | 42·6 | 68·5 | .. | 75·5 | 43·6 | .. | 33·2 | 68 | .. | 3·5 | 0·88 | .. | 3 | .. | 0·35 |
| | Year | .. | .. | 71·6 | 60·5 | 88·6 | .. | 114·1 | 63·7 | .. | 31·4 | 53 | .. | 2·6 | 10·77 | .. | 25 | .. | 1·40 |

(c) Mean of 29 days.
(k) Mean of 21 days.
(g) Mean of 25 days.
(s) Mean of 11 months
(l) Mean of 20 days.
(w) Mean of 7 months.
(t) Mean of 12 days.
(v) Mean of 10 days.

# MONTHLY AND ANNUAL TABLE D-5 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| STATION. | Month. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Razmak (N. W. F. P.) | January | S 43° W | .. | 30·1 | .. | (b) 42·7 | .. | 58·9 | 28·6 | .. | 18·1 | .. | .. | 2·5 | 0 | .. | 0 | .. | 0 |
| | February | S 45° W | .. | 36·4 | .. | 50·8 | .. | 73·1 | 32·6 | .. | 20·1 | (t) 66 | .. | 2·7 | 1·85 | .. | 4 | .. | 0·69 |
| | March | S 36° W | .. | 41·2 | (h) 40·0 | 55·6 | .. | 65·7 | 37·7 | .. | 26·1 | (h) 73 | .. | 1·5 | 1·54 | .. | 5 | .. | 0·50 |
| | April | S 42° W | .. | 56·6 | 50·3 | 71·7 | .. | 82·9 | 50·9 | .. | 41·1 | 65 | .. | 1·2 | 2·19 | .. | 4 | .. | 1·18 |
| | May | S 45° W | .. | 65·7 | 57·5 | 79·9 | .. | 89·5 | 58·9 | .. | 50·3 | 62 | .. | 1·0 | 1·50 | .. | 5 | .. | 0·33 |
| | June | S 45° W | .. | 70·8 | 62·7 | 82·8 | .. | 89·7 | 63·4 | .. | 55·0 | 65 | .. | 0·5 | 3·66 | .. | 4 | .. | 1·84 |
| | July | N 67° W | .. | 69·8 | 63·1 | 81·7 | .. | 89·4 | 64·0 | .. | 57·0 | 70 | .. | 0·8 | 4·08 | .. | 8 | .. | 0·99 |
| | August | N 8° E | .. | 66·8 | 61·2 | 80·8 | .. | 87·3 | 62·5 | .. | 55·4 | 74 | .. | 0·8 | 3·62 | .. | 8 | .. | 1·25 |
| | September | N 45° E | .. | 66·1 | 56·8 | 78·2 | .. | 83·9 | 56·5 | .. | 52·2 | 57 | .. | 0 | 1·02 | .. | 3 | .. | 0·70 |
| | October | .. | .. | 59·6 | 49·9 | 74·0 | .. | 77·9 | 51·3 | .. | 46·2 | 51 | .. | 0 | 0 | .. | 0 | .. | 0 |
| | November | .. | .. | 47·3 | (c) 41·1 | 60·3 | .. | 70·9 | 41·3 | .. | 32·2 | (c) 61 | .. | 1·3 | 0·54 | .. | 1 | .. | 0·50 |
| | December | .. | .. | 35·2 | (s) 34·6 | 48·3 | .. | 61·9 | (c) 32·0 | .. | 20·0 | (s) 64 | .. | 2·7 | 0·99 | .. | 2 | .. | 0·75 |
| | Year | .. | .. | 53·8 | (x) 53·6 | 67·2 | .. | 89·7 | 48·3 | .. | 18·1 | (x) 64 | .. | 1·3 | 20·99 | .. | 44 | .. | 1·84 |
| Razani (N. W. F. P.) | January | .. | .. | 33·8 | .. | 46·8 | .. | 56·9 | 29·8 | .. | 19·4 | (u) 76 | .. | .. | 0·73 | .. | 2 | .. | 0·40 |
| | February | .. | .. | 38·7 | (l) 37·8 | 52·8 | .. | 76·9 | 33·6 | .. | 21·9 | (l) 71 | .. | .. | 2·37 | .. | 6 | .. | 1·13 |
| | March | .. | .. | 45·0 | (f) 40·5 | 59·2 | .. | 72·3 | 40·3 | .. | 28·9 | (f) 60 | .. | .. | 2·56 | .. | 5 | .. | 0·90 |
| | April | .. | .. | 61·0 | 53·2 | 74·9 | .. | 85·9 | 53·1 | .. | 41·9 | 61 | .. | .. | 1·75 | .. | 5 | .. | 0·60 |
| | May | .. | .. | 74·3 | 59·9 | 85·4 | .. | 96·7 | 61·0 | .. | 48·9 | 45 | .. | .. | 0·97 | .. | 3 | .. | 0·73 |
| | June | .. | .. | 79·8 | 62·7 | 88·2 | .. | 95·3 | 67·7 | .. | 58·3 | 39 | .. | .. | 1·35 | .. | 6 | .. | 0·64 |
| | July | .. | .. | 77·2 | 67·3 | 86·3 | .. | 95·3 | 73·3 | .. | 59·3 | 61 | .. | .. | 3·76 | .. | 8 | .. | 1·00 |
| | August | .. | .. | 75·5 | 65·3 | 85·7 | .. | 92·7 | 69·7 | .. | 61·9 | 59 | .. | .. | 1·73 | .. | 7 | .. | 0·30 |
| | September | .. | .. | 69·[illegible] | 61·6 | 83·5 | .. | 89·1 | 64·3 | .. | 58·1 | 66 | .. | .. | 0·67 | .. | 2 | .. | 0·32 |
| | October | .. | .. | 60·6 | 49·5 | 77·3 | .. | 83·1 | .. | .. | .. | 45 | .. | .. | 0 | .. | 0 | .. | 0 |
| | November | .. | .. | 47·9 | 40·3 | 63·2 | .. | 74·7 | .. | .. | .. | 53 | .. | .. | 1·83 | .. | 3 | .. | 0·93 |
| | December | .. | .. | 36·8 | (k) 35·8 * | 51·5 | .. | 63·7 | (f) 33·8 † | .. | 21·4 | (k) 71 * | .. | .. | 1·14 | .. | 3 | .. | 0·68 |
| | Year | .. | .. | 58·3 | 52·2 | 71·2 | .. | 96·7 | 52·7 | .. | 19·4 | 57 | .. | .. | 18·86 | .. | 50 | .. | 1·13 |
| Duzdap (Balochistan) | January | S 63° W | 6·3 | 31·8 | .. | 50·9 | .. | 66·8 | 27·9 | .. | 9·2 | (q) 74 | .. | 5·8 | 0·50 | .. | 3 | .. | 0·18 |
| | February | S 36° W | 6·7 | 41·9 | .. | 63·7 | .. | 85·7 | 33·7 | .. | 9·2 | (n) 66 | .. | 2·0 | 0·12 | .. | 1 | .. | 0·12 |
| | March | S 60° W | 6·9 | 46·1 | (e) 43·2 | 68·5 | .. | 82·3 | 39·6 | .. | 21·4 | (e) 63 | .. | 1·1 | 0·33 | .. | 1 | .. | 0·33 |
| | April | N 63° W | 7·1 | 61·8 | 50·4 | 84·4 | .. | 93·3 | 53·8 | .. | 44·2 | 44 | .. | 0·4 | 0 | .. | 0 | .. | 0 |
| | May | N 63° W | 6·1 | 69·3 | 53·1 | 89·7 | .. | 101·0 | 59·9 | .. | 47·2 | 31 | .. | 0 | 0 | .. | 0 | .. | 0 |
| | June | N 27° W | 8·5 | 75·3 | 53·5 | 95·2 | .. | 100·8 | 65·0 | .. | 58·6 | 18 | .. | 0·6 | 0 | .. | 0 | .. | 0 |
| | July | N 68° W | 7·7 | 73·0 | 54·5 | 94·6 | .. | 98·5 | 63·4 | .. | 58·2 | 26 | .. | 0·1 | 0 | .. | 0 | .. | 0 |
| | August | N 51° W | 6·9 | 71·2 | 55·6 | 94·8 | .. | 101·2 | 64·1 | .. | 52·2 | 35 | .. | 0 | 0 | .. | 0 | .. | 0 |
| | September | S 40° W | 6·0 | 57·8 | 45·2 | 85·3 | .. | 92·8 | 51·3 | .. | 44·0 | 34 | .. | 0 | 0 | .. | 0 | .. | 0 |
| | October | S 53° W | 5·0 | 51·5 | 49·3 | 82·2 | .. | 88·0 | 46·9 | .. | 40·2 | 86 | .. | 0·2 | 0 | .. | 0 | .. | 0 |
| | November | S 73° W | 4·4 | 41·3 | (k) 39·3 | 69·3 | .. | 82·0 | 37·2 | .. | 25·2 | (k) 55 | .. | 3·1 | 0 | .. | 0 | .. | 0 |
| | December | S 40° W | 4·7 | (b) 32·8 | .. * | 58·0 | .. | 69·8 | 28·4 | .. | 15·1 | .. * | .. | 2·0 | 0·23 | .. | 2 | .. | 0·13 |
| | Year | .. | 6·4 | 54·5 | 49·1 | 78·1 | .. | 101·2 | 47·6 | .. | 9·2 | 46 | .. | 1·3 | 1·18 | .. | 7 | .. | 0·33 |

(b) Mean of 30 days.
(x) Mean of 9 months.
(u) Mean of 11 days.
(c) Mean of 29 days.
(*) Mean of 11 months.
(e) Mean of 27 days.
(h) Mean of 24 days.
(†) Mean of 10 months.
(q) Mean of 15 days.
(f) Mean of 26 days.
(s) Mean of 13 days.
(n) Mean of 18 days.
(k) Mean of 21 days.
(t) Mean of 12 days.
(l) Mean of 26 days.

# MONTHLY AND ANNUAL TABLE D-5 FOR 1928—*contd.*

*Abstract of 8 hrs. observations.*

| STATION. | Month. | Wind. Mean direction at 8 h. | Wind. Mean velocity in miles per hour. | Temperature. Mean 8 h. Dry bulb. | Temperature. Mean 8 h. Wet bulb. | Temperature. Maximum. Mean. | Temperature. Maximum. Departure from normal. | Temperature. Maximum. Highest in month or year. | Temperature. Minimum. Mean. | Temperature. Minimum. Departure from normal. | Temperature. Minimum. Lowest in month or year. | Humidity. Mean 8 h. | Humidity. Departure from normal. | Cloud. Mean amount 8 h. | Rainfall. Total of the month or year. | Rainfall. Departure from normal. | Rainfall. Number of rainy days. | Rainfall. Departure from normal. | Rainfall. Heaviest fall in month or year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Pishin (Baluchistan) | January | .. | .. | 38·4 | .. | 51·3 | —0·6 | 62·3 | 29·5 | +4·3 | 14·2 | .. | .. | 4·2 | 1·97 | +0·12 | 6 | +1·9 | 0·53 |
| | February | .. | .. | 44·5 | .. | 62·6 | +7·2 | 84·9 | 30·1 | +2·2 | 10·2 | .. | .. | 3·0 | 1·93 | +0·19 | 2 | —1·7 | 1·38 |
| | March | .. | .. | 50·8 | .. | 70·4 | +5·6 | 81·9 | 37·7 | +1·8 | 19·2 | .. | .. | 3·1 | 1·70 | —0·40 | 4 | —0·8 | 1·01 |
| | April | .. | .. | 66·0 | .. | 90·5 | +15·3 | 100·3 | 47·5 | +4·0 | 38·2 | .. | .. | 1·2 | 0·04 | —0·78 | 0 | —2·2 | 0·02 |
| | May | .. | .. | 72·5 | .. | 97·4 | +9·5 | 105·7 | 55·1 | +3·5 | 42·2 | .. | .. | 1·2 | 0·07 | —0·12 | 0 | —0·6 | 0·07 |
| | June | .. | .. | 74·4 | .. | 105·3 | +9·6 | 111·3 | 60·0 | +1·7 | 51·2 | .. | .. | 0·1 | 0·02 | —0·01 | 0 | —0·1 | 0·02 |
| | July | .. | .. | 78·5 | .. | 106·7 | +8·9 | 113·1 | 66·3 | +2·5 | 55·6 | .. | .. | 0·3 | 0 | —0·09 | 0 | —0·4 | 0 |
| | August | .. | .. | 76·2 | .. | 105·6 | +10·0 | 109·7 | 64·6 | +4·1 | 52·2 | .. | .. | 0·1 | 0 | —0·20 | 0 | —0·4 | 0 |
| | September | .. | .. | 67·8 | .. | 96·2 | +8·1 | 103·3 | 47·4 | —1·0 | 38·0 | .. | .. | 0 | 0 | —0·02 | 0 | —0·1 | 0 |
| | October | .. | .. | 63·5 | .. | 89·4 | +12·5 | 95·9 | 40·5 | +3·1 | 30·0 | .. | .. | 0 | 0 | —0·17 | 0 | —0·4 | 0 |
| | November | .. | .. | 46·5 | .. | 73·6 | +6·0 | 87·7 | 33·8 | +3·6 | 23·8 | .. | .. | 2·2 | 1·01 | +0·76 | 4 | +3·2 | 0·43 |
| | December | .. | .. | 37·5 | .. | 57·9 | +1·6 | 68·7 | 26·4 | +0·5 | 14·2 | .. | .. | 2·8 | 1·08 | —0·20 | 3 | +0·1 | 0·46 |
| | Year | .. | .. | 59·7 | .. | 83·9 | +7·8 | 113·1 | 44·0 | +2·5 | 10·2 | .. | .. | 1·5 | 7·82 | —0·92 | 19 | —1·5 | 1·38 |
| Extra India Chumbi (Yatung) (Sikkim). | January | .. | .. | 25·8 | .. | 47·1 | +2·6 | 57·8 | 20·5 | +0·4 | 17·0 | .. | .. | 3·6 | 0·36 | —0·30 | 2 | +0·1 | 0·24 |
| | February (*d*) | .. | .. | 30·3 | .. | 53·2 | +9·7 | 62·7 | 23·5 | +1·4 | 13·5 | .. | .. | 2·9 | 1·64 | —0·16 | 4 | +0·6 | 0·52 |
| | March | .. | .. | 34·2 | .. | 56·8 | +6·7 | 62·4 | 27·8 | —0·9 | 20·2 | (*j*) 93 | +12 | 3·5 | 1·59 | —0·75 | 4 | —2·4 | 0·61 |
| | April | .. | .. | 42·5 | 41·5 | 60·4 | +4·6 | 65·6 | 33·8 | —1·5 | 31·0 | 93 | +11 | 3·5 | 3·01 | —1·48 | 7 | —3·9 | 0·86 |
| | May | .. | .. | 51·6 | 50·0 | 63·1 | +3·3 | 67·5 | 40·6 | —2·1 | 33·4 | 91 | +8 | 3·4 | 2·35 | —2·06 | 10 | —1·6 | 0·34 |
| | June | .. | .. | 56·7 | 55·1 | 66·9 | +3·5 | 70·0 | 50·3 | +1·1 | 43·9 | 91 | +3 | 4·9 | 4·07 | —2·70 | 11 | —4·4 | 0·64 |
| | July | .. | .. | 57·6 | 56·2 | 71·1 | +6·6 | 75·4 | 51·5 | —0·1 | 47·0 | 92 | +3 | 4·4 | 4·30 | —3·12 | 11 | —8·4 | 0·70 |
| | August | .. | .. | 55·4 | 54·0 | 68·6 | +4·8 | 72·0 | 49·3 | —1·7 | 45·0 | 92 | +4 | 4.6 | 3·95 | —3·67 | 18 | —1·7 | 0·56 |
| | September | .. | .. | 55·4 | 53·2 | 66·2 | +3·8 | 70·8 | 49·6 | +2·2 | 43·0 | 88 | 0 | 6·0 | 2·74 | —2·33 | 8 | —3·9 | 0·85 |
| | October | .. | .. | 44·2 | 42·3 | 61·8 | +3·9 | 67·5 | 39·3 | +2·0 | 32·5 | 87 | +1 | 3·8 | 4·26 | +2·33 | 9 | +5·2 | 1·31 |
| | November | .. | .. | 33·2 | .. | 49·3 | —2·5 | 54·0 | 27·3 | —1·2 | 23·0 | .. | .. | 3·5 | 0·23 | —0·01 | 2 | +1·4 | 0·12 |
| | December (*b*) | .. | .. | 26·9 | .. | 52·8 | +7·3 | 57·8 | 22·9 | +0·4 | 17·7 | .. | .. | 2·9 | 0·44 | +0·29 | 2 | +1·4 | 0·33 |
| | Year | .. | .. | 42·8 | .. | 59·8 | +4·5 | 75·4 | 36·4 | 0 | 13·5 | † 91 | +8 | 3·9 | 28·94 | —13·96 | 88 | —17·6 | 1·31 |
| Abadan (Persia) | January | N54W | .. | 54·9 | 50·9 | 63·9 | .. | 75·0 | 47·2 | .. | 35·0 | 78 | .. | .. | 1·49 | .. | 4 | .. | 0·74 |
| | February | S | .. | 59·4 | 53·5 | 70·9 | .. | 81·5 | 50·4 | .. | 37·0 | 67 | .. | .. | 0·36 | .. | 2 | .. | 0·15 |
| | March | S | .. | 68·7 | 54·4 | 79·9 | .. | 90·0 | 53·4 | .. | 36·0 | 38 | .. | .. | 0 | .. | 0 | .. | 0 |
| | April | S28°W | .. | 86·5 | 67·9 | 98·3 | .. | 108·5 | 70·3 | .. | 61·5 | 40 | .. | .. | 0·22 | .. | 1 | .. | 0·22 |
| | May | N46°W | .. | 93·1 | 71·5 | 102·1 | .. | 116·0 | 75·0 | .. | 67·0 | 37 | .. | .. | 0 | .. | 0 | .. | 0 |
| | June | N40°W | .. | 99·2 | 73·9 | 111·9 | .. | 117·5 | 80·7 | .. | 76·0 | 32 | .. | .. | 0 | .. | 0 | .. | 0 |
| | July | N85°W | .. | 100·7 | 77·6 | 113·5 | .. | 118·0 | 84·1 | .. | 77·0 | 38 | .. | .. | 0 | .. | 0 | .. | 0 |
| | August | N69°W | .. | 95·9 | 72·8 | 110·0 | .. | 116·5 | 79·7 | .. | 74·5 | 35 | .. | .. | 0 | .. | 0 | .. | 0 |
| | September | N81°W | .. | 92·9 | 72·3 | 108·1 | .. | 115·0 | 77·8 | .. | 71·0 | 40 | .. | .. | 0 | .. | 0 | .. | 0 |
| | October | N40°W | .. | 80·3 | 63·2 | 95·1 | .. | 104·0 | 65·6 | .. | 56·5 | 39 | .. | .. | 0·02 | .. | 0 | .. | 0·02 |
| | November | N41°W | .. | 64·7 | 59·5 | 74·2 | .. | 88·5 | 56·9 | .. | 43·5 | 73 | .. | .. | 4·04 | .. | 6 | .. | 1·34 |
| | December | N49°W | .. | 57·7 | 53·4 | (*b*) 66·3 | .. | 76·0 | 50·5 | .. | 42·0 | 74 | .. | .. | 0·03 | .. | 0 | .. | 0·01 |
| | Year | .. | | 79·5 | 64·2 | 91·4 | .. | 118·0 | 66·0 | .. | 35·0 | 49 | .. | .. | 6·16 | .. | 13 | .. | 1·34 |

(*b*) Mean of 30 days. (†) Mean of 8 months. (*d*) Mean of 28 days. (*j*) Mean of 22 days.

# Table D-6.—Abstract of observations taken at 8 hrs. at 31 fifth class stations in the year 1928.

# Table D-6.—Abstract of observations taken at 8 hrs. at 31 fifth class stations in the year 1928.

# MONTHLY AND ANNUA

*Abstract of 8 h*

| Station. | January. | | | | | February. | | | | | March. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| **Bengal—** | | | | | | | | | | | | | | | |
| Comilla | 0 | −0·8 | 0 | −0·29 | 0 | 0 | −2·0 | 0 | −1·18 | 0 | 3 | −0·7 | 5·28 | +2·33 | 2· |
| Faridpur | 1 | +0·1 | 0·18 | −0·27 | 0·18 | 0 | −2·2 | 0·05 | −1·27 | 0·05 | 2 | −1·2 | 2·06 | −0·27 | 1· |
| Sirajganj | 1 | +0·3 | 0·47 | +0·15 | 0·36 | 0 | −1·6 | 0 | −0·77 | 0 | 2 | −0·3 | 0·69 | −0·64 | 0· |
| Rampur Boalia | 3 | +2·2 | 1·31 | +0·96 | 0·83 | 1 | −0·5 | 1·31 | +0·73 | 1·31 | 0 | −2·0 | 0 | −1·20 | 0 |
| Malda | 2 | +1·1 | 2·64 | +2·09 | 1·47 | 2 | +0·3 | 0·52 | −0·32 | 0·36 | 0 | −1·3 | 0 | −0·71 | 0 |
| Rangpur | 0 | −0·9 | 0·09 | −0·25 | 0·06 | 1 | −0·3 | 0·18 | −0·51 | 0·18 | 0 | −1·8 | 0 | −1·13 | 0 |
| Cooch Behar | 1 | +0·5 | 0·23 | +0·04 | 0·14 | 0 | −1·8 | 0·05 | −0·82 | 0·05 | 0 | −2·7 | 0 | −1·91 | 0 |
| Krishnagar | 2 | +1·1 | 1·66 | +1·22 | 0·91 | 0 | −1·7 | 0 | −1·20 | 0 | 0 | −2·4 | 0 | −1·82 | 0 |
| Bankura | 2 | +0·8 | 0·82 | +0·31 | 0·51 | 0 | −1·9 | 0·02 | −1·02 | 0·02 | 0 | −2·2 | 0 | −1·25 | 0 |
| **Bihar and Orissa—** | | | | | | | | | | | | | | | |
| Hazaribagh | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bhagalpore | 3 | +2·0 | 2·01 | +1·53 | 1·12 | 1 | −0·6 | 0·25 | −0·47 | 0·17 | 0 | −1·4 | 0 | −0·57 | 0 |
| Muzaffarpur | 4 | +2·9 | 1·00 | +0·48 | 0·38 | 2 | +0·4 | 0·60 | +0·06 | 0·47 | 0 | −1·1 | 0 | −0·47 | 0 |
| Motihari | 1 | −0·1 | 0·56 | +0·08 | 0·50 | 3 | +1·7 | 1·26 | +0·71 | 0·77 | 0 | −0·9 | 0 | −0·50 | 0 |
| Chapra | 3 | +1·8 | 1·36 | +0·81 | 0·55 | 2 | +0·4 | 0·98 | +0·35 | 0·72 | 0 | −1·1 | 0 | −0·38 | 0 |
| Arrah | 5 | +3·8 | 1·37 | +0·74 | 0·44 | 2 | +0·5 | 1·17 | +0·43 | 0·85 | 0 | −1·1 | 0 | −0·47 | 0 |
| Dehri | 3 | +1·6 | 1·89 | +1·31 | 0·95 | 2 | +0·2 | 1·21 | +0·43 | 1·00 | 0 | −1·2 | 0 | −0·47 | 0 |
| **United Provinces—** | | | | | | | | | | | | | | | |
| Meerut | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Dehra Dun | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Rajputana—** | | | | | | | | | | | | | | | |
| Udaipur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Hyderabad (Division)—** | | | | | | | | | | | | | | | |
| Parbhani | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Madras—** | | | | | | | | | | | | | | | |
| Tinnevelly | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Bay Island—** | | | | | | | | | | | | | | | |
| Car Nicobar | 5 | +0·8 | 2·32 | −1·79 | 1·13 | 8 | +6·0 | 2·33 | +1·22 | 0·69 | 8 | +6·0 | 7·11 | +5·73 | 2·5 |
| **Kashmir—** | | | | | | | | | | | | | | | |
| Sonamarg | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Baluchistan—** | | | | | | | | | | | | | | | |
| Harnai | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Hill Stations exclusive of Kashmir—** | | | | | | | | | | | | | | | |
| Gnatong | 3 | 0 | 0·50 | −2·30 | 0·30 | 10 | +0·4 | 4·34 | −3·58 | 1·21 | 6 | −5·8 | 1·80 | −6·72 | 0·4 |
| Lachung | 4 | +1·4 | 0·86 | +0·27 | 0·44 | 7 | −0·1 | 3·73 | +0·72 | 1·40 | 10 | −2·8 | 5·28 | −1·00 | 1·4 |
| Dharampore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Mussooree | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Dalhousie | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bakloh | 10 | .. | 7·15 | .. | 2·10 | 11 | .. | 4·00 | .. | 0·85 | 4 | .. | 1·61 | .. | 0·6 |
| Kailang | 7 | −1·4 | 1·81 | −1·05 | 0·32 | 10 | +4·1 | 4·31 | +1·62 | 0·92 | 8 | +0·2 | 2·82 | −1·23 | 0·5 |

# TABLE D-6 FOR 1928.

*observations.*

| APRIL. | | | | | MAY. | | | | | JUNE. | | | | | JULY. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 3 | —4·3 | 2·12 | —4·46 | 1·12 | 21 | +9·5 | 27·67 | +15·90 | 3·38 | 23 | +5·5 | 32·07 | +14·02 | 3·90 | 21 | +2·8 | 20·32 | +9·27 | 3·10 |
| 3 | —3·4 | 2·17 | —2·55 | 1·25 | 13 | +2·0 | 6·70 | —2·34 | 1·86 | 17 | +1·6 | 12·85 | —0·51 | 2·77 | 18 | +0·4 | 13·15 | +0·32 | 2·68 |
| 4 | —0·8 | 3·31 | 0 | 2·63 | 16 | +5·8 | 10·45 | +2·57 | 1·62 | 19 | +4·3 | 18·50 | +6·09 | 3·14 | 17 | +1·4 | 13·87 | +2·38 | 4·85 |
| 2 | —0·8 | 1·09 | —0·69 | 0·73 | 15 | +7·6 | 9·01 | +3·44 | 2·21 | 19 | +5·9 | 15·81 | +4·64 | 2·01 | 17 | +2·0 | 17·41 | +6·60 | 3·22 |
| 2 | —0·1 | 0·54 | —0·59 | 0·32 | 7 | +1·2 | 5·40 | +0·90 | 1·25 | 17 | +5·4 | 17·39 | +7·04 | 5·07 | 15 | +0·4 | 17·99 | +7·02 | 4·96 |
| 3 | —1·5 | 2·56 | —0·53 | 1·45 | 15 | +3·3 | 10·09 | —0·84 | 2·10 | 15 | —1·0 | 10·15 | —7·46 | 3·16 | 16 | +0·9 | 33·66 | +18·40 | 6·55 |
| 7 | —0·3 | 6·71 | +1·28 | 1·53 | 13 | —1·3 | 10·90 | —4·90 | 3·64 | 19 | +0·5 | 22·25 | —10·66 | 3·87 | 20 | +0·4 | 33·52 | +3·18 | 6·48 |
| 4 | —0·1 | 2·91 | +0·36 | 1·00 | 11 | +3·1 | 6·63 | —0·37 | 1·34 | 17 | +4·0 | 18·25 | +7·59 | 4·12 | 18 | +2·1 | 15·12 | +4·04 | 3·77 |
| 3 | +0·2 | 0·74 | —0·58 | 0·32 | 8 | +1·9 | 4·35 | —0·49 | 1·21 | 9 | —2·9 | 12·18 | +1·09 | 3·73 | 18 | +2·6 | 12·96 | —0·15 | 4·21 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 3 | +1·5 | 1·43 | +0·70 | 0·84 | 7 | +2·9 | 2·41 | —0·68 | 0·80 | 13 | +2·6 | 9·47 | +1·22 | 1·50 | 14 | —1·0 | 11·97 | +0·18 | 2·87 |
| 0 | —1·1 | 0·07 | —0·44 | 0·07 | 1 | —2·6 | 0·39 | —1·98 | 0·39 | 13 | +4·7 | 10·19 | +2·04 | 3·90 | 16 | +1·5 | 16·28 | +3·81 | 2·90 |
| 0 | —1·3 | 0·12 | —0·76 | 0·07 | 4 | —0·2 | 1·59 | —1·39 | 0·73 | 8 | —1·8 | 6·60 | —2·59 | 2·86 | 15 | +0·5 | 15·29 | +0·49 | 2·22 |
| 1 | +0·2 | 0·10 | —0·24 | 0·10 | 1 | —1·0 | 0·24 | —1·36 | 0·22 | 7 | —0·6 | 3·56 | —3·29 | 0·82 | 15 | +1·1 | 9·33 | —2·89 | 2·13 |
| 0 | —0·6 | 0 | —0·28 | 0 | 2 | —0·2 | 2·30 | +0·86 | 1·55 | 10 | +2·1 | 3·34 | —3·44 | 0·63 | 16 | +1·7 | 13·96 | +1·26 | 2·24 |
| 1 | +0·4 | 0·18 | —0·06 | 0·12 | 1 | —0·5 | 0·33 | —0·50 | 0·28 | 8 | +0·5 | 5·48 | —0·59 | 1·50 | 13 | —0·6 | 9·80 | —0·79 | 2·75 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 10 | +4·7 | 14·80 | +11·73 | 4·27 | 14 | —0·3 | 20·05 | +7·22 | 6·26 | 16 | +1·4 | 20·12 | +7·59 | 6·96 | 14 | +1·9 | 22·73 | +13·64 | 4·63 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 10 | —8·2 | 7·31 | —4·51 | 2·63 | 22 | —2·1 | 15·93 | —1·70 | 4·35 | 29 | +2·6 | 24·73 | —4·87 | 2·16 | 28 | —1·2 | 25·55 | —11·45 | 2·66 |
| 9 | —6·9 | 5·60 | —1·56 | 1·65 | 17 | +1·8 | 9·19 | +3·28 | 2·85 | 23 | +1·2 | 10·22 | +0·55 | 1·25 | 23 | —1·6 | 9·31 | —0·92 | 0·96 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 6 | .. | 3·20 | .. | 1·80 | 1 | .. | 0·50 | .. | 0·50 | 8 | .. | 3·74 | .. | 1·40 | 16 | .. | 20·69 | .. | 3·70 |
| 7 | +0·6 | 5·48 | +2·09 | 2·38 | 2 | —3·4 | 0·51 | —1·79 | 0·22 | 0 | —2·6 | 0·14 | —0·89 | 0·06 | 3 | —1·2 | 1·72 | +0·33 | 0·85 |

# MONTHLY AND ANNUAL

*Abstract of 8 hrs.*

| Station. | August. | | | | | September. | | | | | October. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. |
| 1 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 |
| **Bengal—** | | | | | | | | | | | | | | | |
| Comilla | 20 | +2·1 | 23·33 | +7·60 | 4·11 | 10 | —3·5 | 8·84 | —2·09 | 3·36 | 12 | +5·9 | 9·47 | +2·95 | 3·44 |
| Faridpur | 18 | +0·6 | 17·53 | +5·11 | 5·08 | 8 | —4·2 | 6·97 | —2·32 | 2·77 | 10 | +4·6 | 9·01 | +4·27 | 3·56 |
| Sirajganj | 15 | —0·4 | 13·28 | +1·78 | 2·86 | 10 | —1·6 | 7·23 | —2·48 | 2·38 | 10 | +5·1 | 17·93 | +12·99 | 6·56 |
| Rampur Boalia | 16 | +1·4 | 17·61 | +7·29 | 3·81 | 6 | —6·2 | 7·46 | —2·58 | 2·09 | 11 | +6·6 | 13·71 | +9·08 | 3·76 |
| Malda | 14 | —0·8 | 9·81 | —1·71 | 2·62 | 11 | —0·2 | 8·67 | —2·12 | 1·63 | 9 | +4·9 | 7·34 | +3·00 | 2·38 |
| Rangpur | 11 | —3·1 | 23·34 | +9·71 | 6·20 | 7 | —6·1 | 7·17 | —6·57 | 3·70 | 11 | +6·8 | 10·36 | +5·00 | 2·35 |
| Cooch Behar | 14 | —4·2 | 26·94 | +1·79 | 10·03 | 18 | +2·2 | 16·59 | —9·81 | 6·17 | 17 | +11·5 | 11·53 | +3·85 | 2·72 |
| Krishnagar | 15 | +0·1 | 8·89 | —1·28 | 2·02 | 8 | —3.1 | 7·48 | —0·55 | 3·52 | 10 | +5·1 | 8·58 | +4·20 | 3·90 |
| Bankura | 13 | —2·8 | 9·66 | —1·81 | 2·51 | 7 | —4·5 | 6·04 | —2·70 | 2·88 | 8 | +3·8 | 4·93 | +2·02 | 1·61 |
| **Bihar and Orissa—** | | | | | | | | | | | | | | | |
| Hazaribagh | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bhagalpore | 13 | 0 | 8·48 | —2·31 | 2·40 | 4 | —5·5 | 1·93 | —7·46 | 0·72 | 7 | +4·4 | 6·80 | +4·58 | 1·99 |
| Muzaffarpur | 12 | —1·7 | 21·76 | +8·34 | 8·32 | 3 | —5·9 | 2·90 | —4·64 | 1·86 | 6 | +3·5 | 5·80 | +3·23 | 3·08 |
| Motihari | 9 | —4·6 | 14·77 | +1·31 | 6·23 | 4 | —5·1 | 7·66 | —1·62 | 5·83 | 6 | +3·5 | 2·18 | —0·22 | 0·71 |
| Chapra | 10 | —3·5 | 5·64 | —6·22 | 1·00 | 4 | —4·8 | 1·38 | —6·05 | 0·62 | 6 | +3·5 | 7·49 | +5·31 | 3·01 |
| Arrah | 12 | —2·1 | 9·63 | —2·02 | 1·78 | 5 | —4·4 | 3·18 | —4·79 | 1·38 | 6 | +2·9 | 11·47 | +8·93 | 4·65 |
| Dehri | 9 | —5·5 | 6·44 | —6·76 | 2·95 | 4 | —4·8 | 0·99 | —5·89 | 0·42 | 5 | +2·1 | 9·46 | +7·31 | 6·05 |
| **United Provinces—** | | | | | | | | | | | | | | | |
| Meerut | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Dehra Dun | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Rajputana—** | | | | | | | | | | | | | | | |
| Udaipur | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Hyderabad (Division)—** | | | | | | | | | | | | | | | |
| Parbhani | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Madras—** | | | | | | | | | | | | | | | |
| Tinnevelly | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Bay Island—** | | | | | | | | | | | | | | | |
| Car Nicobar | 20 | +6·8 | 13·91 | +3·40 | 1·63 | 11 | —3·5 | 13·00 | +0·54 | 4·80 | 15 | +0·7 | 12·74 | +1·48 | 3·33 |
| **Kashmir—** | | | | | | | | | | | | | | | |
| Sonamarg | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Baluchistan—** | | | | | | | | | | | | | | | |
| Harnai | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| **Hill Stations exclusive of Kashmir—** | | | | | | | | | | | | | | | |
| Gnatong | 26 | —1·5 | 21·01 | —7·61 | 2·50 | 24 | +0·4 | 10·64 | —5·89 | 1·60 | 18 | +7·5 | 8·60 | +3·97 | 1·89 |
| Lachung | 23 | —2·1 | 8·36 | —1·40 | 0·98 | 21 | +2·1 | 7·17 | —0·14 | 0·81 | 18 | +9·2 | 8·89 | +5·25 | 1·35 |
| Dharampore | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Mussooree | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Dalhousie | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Bakloh | 16 | .. | 21·36 | .. | 4·50 | 2 | .. | 6·08 | .. | 5·58 | 0 | .. | 0 | .. | 0 |
| Kailang | 3 | —0·9 | 0·67 | —0·79 | 0·18 | 2 | —0·7 | 1·05 | —0·81 | 0·87 | 0 | —1·2 | 0 | —0·71 | 0 |

# TABLE D-6 FOR 1928—*contd.*

*observations.*

| November. | | | | | December. | | | | | Year. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. | Number of rainy days. | Departure from normal. | Rainfall of month. | Departure from normal. | Heaviest rainfall during month. |
| 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 |
| 0 | —1·4 | 0 | —1·03 | 0 | 0 | —0·3 | 0 | —0·23 | 0 | 113 | +12·8 | 129·10 | +38·79 | 4·71 |
| 0 | —1·3 | 0·05 | —1·05 | 0·05 | 0 | —0·3 | 0 | —0·12 | 0 | 90 | —3·3 | 70·72 | —1·00 | 5·08 |
| 0 | —0·7 | 0 | —0·62 | 0 | 0 | — 0·3 | 0 | —0·11 | 0 | 94 | +11·2 | 85·73 | +21·34 | 6·56 |
| 0 | —0·7 | 0 | —0·49 | 0 | 0 | —0·1 | 0·01 | —0·05 | 0·01 | 90 | +15·4 | 84·73 | +28·03 | 3·81 |
| 0 | —0·7 | 0 | —0·35 | 0 | 0 | —0·1 | 0 | —0·05 | 0 | 79 | +10·1 | 70·30 | +14·20 | 5·07 |
| 0 | —0·3 | 0 | —0·21 | 0 | 0 | —0·2 | 0 | —0·04 | 0 | 79 | —4·2 | 97·60 | +15·57 | 6·55 |
| 3 | +2·6 | 0·55 | +0·32 | 0·29 | 0 | —0·3 | 0 | —0·10 | 0 | 112 | +7·1 | 129·27 | —17·74 | 10·03 |
| 0 | —1·2 | 0 | —0·98 | 0 | 0 | —0·2 | 0 | —0·09 | 0 | 85 | +6·8 | 69·52 | +11·12 | 4·12 |
| 0 | —1·1 | 0 | —0·64 | 0 | 0 | —0·2 | 0·01 | —0·07 | 0·01 | 68 | —6·3 | 51·71 | —5·29 | 4·21 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 76 | +0·8 | 52·53 | —6·75 | 6·00 |
| 0 | —0·4 | 0 | —0·27 | 0 | 0 | —0·1 | 0 | —0·08 | 0 | 65 | +4·4 | 44·75 | —3·03 | 2·87 |
| 0 | —0·4 | 0 | —0·23 | 0 | 1 | +0·9 | 0·20 | +0·14 | 0·10 | 58 | +1·1 | 59·19 | +10·34 | 8·32 |
| 0 | —0·2 | 0 | —0·20 | 0 | 0 | —0·4 | 0·11 | —0·03 | 0·06 | 50 | —8·9 | 50·14 | —4·72 | 6·23 |
| 0 | —0·4 | 0 | —0·26 | 0 | 2 | +1·7 | 0·53 | +0·41 | 0·33 | 51 | —2·7 | 30·61 | —13·81 | 3·01 |
| 0 | —0·5 | 0 | —0·27 | 0 | 2 | +1·6 | 0·48 | +0·38 | 0·31 | 60 | +3·7 | 46·90 | +1·28 | 4·05 |
| 0 | —0·6 | 0 | —0·48 | 0 | 2 | +1·6 | 1·06 | +0·84 | 0·85 | 48 | —6·8 | 36·84 | —5·63 | 6·05 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 41 | +2·5 | 19·83 | —12·13 | 2·36 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 78 | —2·3 | 70·09 | —13·07 | 8·04 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 36 | +3·3 | 25·55 | +1·77 | 4·06 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 43 | —6·2 | 31·19 | —5·94 | 2·17 |
| .. | .. | .. | .. | | .. | .. | .. | .. | .. | 37 | —4·3 | 23·05 | —5·29 | 2·35 |
| 7 | —5·0 | 9·16 | —1·46 | 2·89 | | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| .. | .. | .. | .. | | .. | .. | .. | .. | .. | 102 | —3·3 | 71·80 | +0·41 | 3·85 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 19 | —6·7 | 9·25 | —4·92 | 0·79 |
| 7 | +3·4 | 1·56 | —2·51 | 0·98 | 1 | —1·5 | 0·11 | —0·81 | 0·11 | 184 | —5·0 | 122·08 | —47·98 | 4·35 |
| 7 | +4·2 | 2·50 | +1·42 | 0·61 | 1 | —0·6 | 0·50 | —0·05 | 0·50 | 163 | +5·8 | 71·61 | +6·42 | 2·85 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 57 | .. | 54·18 | .. | 5·34 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 94 | —8·2 | 106·57 | —3·12 | 5·92 |
| .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 96 | .. | 83·50 | .. | 4·76 |
| 4 | .. | 2·94 | .. | 1·73 | 7 | .. | 9·65 | .. | 2·46 | 85 | .. | 80·91 | .. | 5·58 |
| 2 | +1·1 | 1·66 | +1·31 | 1·38 | 4 | +1·4 | 1·52 | +0·50 | 0·53 | 48 | —1·2 | 21·69 | —1·42 | 2·38 |

# APPENDIX.

## Climatic Tables of Kodaikanal and Madras for 1928 and tables of extra observations taken during the year at Lahore, Bombay and Trivandrum.

# TABLE I.

## Height of Barometer cistern above mean sea level 7,688 feet.

### *Mean Monthly and Annual Meteorological Results at the Kodaikanal Observatory in 1928.*

Latitude—10° 13′ 50″ N

Longitude—5h 9m 52s E

| — | Barometer. | | Dry Bulb Thermometer. | | | | Wet Bulb. | | Tension of Vapour. | Relative Humidity. | Min. on Grass. | Wind. | | | Rain. | | Clear Sky. | Bright Sunshine. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Reduced to 32°. | Daily Range. | Mean. | Max. | Min. | Range. | Mean. | Min. | By Blanford's Tables. | | | Daily Velocity | Mean Direction. | | Amount. | Days. | | |
| | Inches. | Inches. | ° | ° | ° | ° | ° | ° | Inches. | Per cent. | ° | Miles. | Points. | Points. | Inches. | No. | Cents. | Hours. |
| January | 22·870 | 0·070 | 54·6 | 63·2 | 48·1 | 15·1 | 49·1 | 43·0 | 0·292 | 68 | 40·2 | 243 | 6 | E. N. E. | 3·41 | 4 | 55 | 227·8 |
| February | ·866 | ·075 | 54·9 | 63·7 | 48·1 | 15·6 | 48·3 | 43·8 | ·273 | 64 | 40·7 | 281 | 3 | N. E. by N. | 6·33 | 6 | 67 | 245·5 |
| March | ·858 | ·070 | 58·4 | 69·4 | 49·9 | 19·5 | 49·7 | 43·9 | ·268 | 55 | 40·0 | 194 | 5 | N. E. by E. | 1·76 | 6 | 70 | 252·4 |
| April | ·833 | ·076 | 60·4 | 69·8 | 53·1 | 16·7 | 53·8 | 48·3 | ·345 | 66 | 40·2 | 188 | 4 | N. E. | 7·30 | 9 | 50 | 223·7 |
| May | ·838 | ·071 | 62·6 | 72·7 | 55·8 | 16·9 | 55·8 | 51·0 | ·374 | 66 | 46·0 | 166 | 4 | N. E. | 3·13 | 8 | 59 | 237·7 |
| June | ·748 | ·061 | 58·1 | 65·8 | 53·6 | 12·2 | 54·1 | 49·8 | ·378 | 78 | 47·3 | 285 | 25 | W. by N. | 2·49 | 10 | 22 | 115·9 |
| July | ·778 | ·052 | 57·1 | 65·2 | 52·4 | 12·8 | 53·1 | 49·2 | ·361 | 77 | 46·8 | 294 | 25 | W. by N. | 2·76 | 6 | 23 | 138·4 |
| August | ·801 | ·066 | 56·7 | 64·0 | 52·2 | 11·8 | 53·3 | 49·9 | ·372 | 81 | 46·8 | 219 | 25 | W. by N. | 3·14 | 8 | 16 | 102·6 |
| September | ·801 | ·070 | 57·9 | 66·0 | 52·2 | 13·8 | 53·4 | 48·4 | ·362 | 76 | 44·1 | 135 | 31 | N. by W. | 3·35 | 6 | 34 | 138·3 |
| October | ·811 | ·076 | 56·7 | 63·7 | 52·3 | 11·4 | 54·4 | 50·4 | ·400 | 87 | 47·3 | 133 | 14 | S. S E. | 12·11 | 19 | 19 | 94·8 |
| November | ·860 | ·074 | 55·0 | 60·4 | 51·0 | 9·4 | 53·7 | 49·8 | ·399 | 93 | 47·9 | 194 | 5 | N, E. by E. | 12·05 | 18 | 12 | 70·9 |
| December | ·832 | ·067 | 53·9 | 61·4 | 48·3 | 13·1 | 49·8 | 45·0 | ·319 | 77 | 42·8 | 185 | 1 | N. by E. | 9·64 | 10 | 37 | 168·9 |
| Annual | 22·825 | 0·069 | 57·2 | 65·4 | 51·4 | 14·0 | 52·4 | 47·7 | 0·345 | 74 | 44·2 | 212 | .. | N. N. E. | 67·47 | 107 | 39 | 2016·9 |

### *Extreme Monthly Meteorological Records at the Kodaikanal Observatory in 1928.*

| — | Barometer. | | | | | Dry Bulb Thermometer. | | | | Wet Bulb. | | Humidity. | | Grass Therm. | | Wind. | | | | Rain. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Highest. | | Lowest. | | Range. | Highest. | | Lowest. | | Lowest. | | Lowest. | | Lowest. | | Highest. | | Lowest. | | Greatest Fall. | |
| | Inches. | Day. | Inches. | Day. | Inches. | ° | Day. | ° | Day. | ° | Day. | Per cent. | Day. | ° | Day. | Miles. | Day. | Miles. | Day. | Inches. | Day. |
| January | 22·959 | 12 | 22·782 | 26 | 0·177 | 68·3 | 24,25 | 42·9 | 19 | 35·4 | 20,21 | 11 | 15 | 31·1 | 3 | 464 | 30 | 91 | 11 | 1·87 | 27 |
| February | ·969 | 13 | ·787 | 6 | ·182 | 69·3 | 14 | 44·2 | 15 | 36·6 | 15 | 15 | 14 | 32·0 | 15,25 | 756 | 2 | 86 | 4 | 1·72 | 4 |
| March | ·956 | 17 | ·778 | 31 | ·178 | 74·3 | 24 | 45·5 | 10 | 33·6 | 1 | 0 | 13 | 32·6 | 14 | 314 | 19 | 57 | 30 | 0·95 | 31 |
| April | ·925 | 5 | ·719 | 21 | ·206 | 73·1 | 25,27 | 50·0 | 12 | 41·2 | 27 | 27 | 26 | 36·3 | 7 | 289 | 28 | 70 | 18 | 3·19 | 3 |
| May | ·921 | 4 | ·754 | 12 | ·167 | 77·1 | 28 | 52·3 | 10 | 47·6 | 4 | 32 | 20 | 41·0 | 18 | 250 | 22 | 85 | 8 | 1·15 | 10 |
| June | ·826 | 1 | ·655 | 9 | ·171 | 72·2 | 2 | 50·8 | 8 | 43·8 | 20 | 39 | 22 | 41·0 | 22 | 515 | 6 | 134 | 22 | 0·38 | 9 |
| July | ·872 | 29 | ·698 | 9 | ·174 | 69·7 | 30 | 50·2 | 28 | 44·2 | 28 | 42 | 1 | 42·0 | 4 | 424 | 14 | 75 | 4 | 1·16 | 6 |
| August | ·874 | 23 | ·722 | 27 | ·152 | 69·2 | 23 | 50·2 | 30 | 47·1 | 10 | 45 | 9 | 42·0 | 24 | 410 | 26 | 100 | 24 | 0·80 | 16 |
| September | ·875 | 8 | ·714 | 15 | ·161 | 71·0 | 7 | 50·5 | 29 | 38·6 | 29 | 29 | 29 | 38·1 | 9 | 280 | 1 | 78 | 17 | 1·54 | 21 |
| October | ·932 | 31 | ·717 | 22 | ·215 | 69·2 | 1 | 49·5 | 18 | 44·4 | 1 | 44 | 3 | 34·2 | 3 | 226 | 22 | 51 | 26 | 2·15 | 14 |
| November | ·945 | 21 | ·755 | 11 | ·190 | 64·8 | 28 | 47·5 | 3 | 43·1 | 3 | 67 | 3 | 43·0 | 3 | 455 | 13 | 84 | 18 | 2·76 | 13 |
| December | ·916 | 11 | ·762 | 17 | ·154 | 68·3 | 24 | 42·8 | 11 | 36·4 | 14 | 23 | 14 | 31·6 | 22 | 424 | 28 | 76 | 1 | 2·49 | 4 |

# TABLE II.

*Kodaikanal mean hourly wind velocity for 1928.*

| Month. | Hours. | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| January | 11 | 11 | 10 | 11 | 11 | 11 | 12 | 12 | 12 | 13 | 12 | 12 | 11 | 9 | 9 | 8 | 7 | 6 | 7 | 8 | 9 | 9 | 10 | 10 |
| February | 12 | 13 | 13 | 13 | 13 | 13 | 14 | 15 | 14 | 16 | 15 | 15 | 13 | 10 | 9 | 8 | 7 | 7 | 8 | 9 | 11 | 11 | 11 | 12 |
| March | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 7 | 6 | 5 | 5 | 5 | 7 | 7 | 7 | 9 |
| April | 8 | 8 | 9 | 8 | 9 | 9 | 8 | 9 | 9 | 10 | 10 | 10 | 9 | 8 | 7 | 6 | 6 | 5 | 5 | 5 | 7 | 6 | 7 | 9 |
| May | 8 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 8 | 8 | 8 | 8 | 7 | 7 | 6 | 5 | 5 | 6 | 7 | 8 | 7 | 7 | 8 |
| June | 12 | 13 | 13 | 16 | 13 | 13 | 12 | 12 | 10 | 10 | 11 | 11 | 11 | 10 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 13 | 12 | 12 |
| July | 13 | 14 | 15 | 14 | 15 | 13 | 13 | 13 | 12 | 11 | 12 | 11 | 10 | 9 | 10 | 9 | 9 | 11 | 12 | 13 | 14 | 14 | 13 | 13 |
| August | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 9 | 8 | 7 | 7 | 7 | 7 | 8 | 9 | 10 | 11 | 11 | 12 | 12 |
| September | 7 | 7 | 8 | 7 | 7 | 6 | 6 | 4 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 6 | 6 | 6 |
| October | 6 | 6 | 6 | 5 | 5 | 6 | 6 | 5 | 5 | 5 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| November | 9 | 9 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 8 |
| December | 10 | 11 | 10 | 10 | 9 | 9 | 10 | 9 | 9 | 9 | 10 | 9 | 9 | 8 | 7 | 7 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 11 |
| Mean | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 10 | 10 | 10 | 9 | 8 | 8 | 7 | 7 | 7 | 7 | 8 | 9 | 9 | 9 | 10 |

# TABLE III.

*Kodaikanal mean hourly bright Sunshine for 1928.*

| Month. | Hours. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 |
| January | .. | 0·56 | 0·76 | 0·83 | 0·83 | 0·82 | 0·75 | 0·73 | 0·67 | 0·63 | 0·57 | 0·21 |
| February | 0·04 | ·70 | ·83 | ·88 | ·86 | ·84 | ·77 | ·77 | ·79 | ·75 | ·71 | ·53 |
| March | ·13 | ·85 | ·95 | ·99 | ·94 | ·89 | ·77 | ·66 | ·55 | ·57 | ·60 | ·23 |
| April | ·10 | ·75 | ·95 | ·95 | ·90 | ·89 | ·77 | ·63 | ·59 | ·53 | ·34 | ·06 |
| May | ·19 | ·86 | ·94 | ·94 | ·97 | ·91 | ·88 | ·74 | ·58 | ·40 | ·25 | .. |
| June | .. | ·27 | ·44 | ·50 | ·58 | ·56 | ·45 | ·37 | ·34 | ·26 | ·09 | ·01 |
| July | ·02 | ·26 | ·50 | ·52 | ·56 | ·57 | ·54 | ·49 | ·41 | ·28 | ·22 | ·09 |
| August | ·03 | ·15 | ·28 | ·52 | ·54 | ·55 | ·33 | ·30 | ·26 | ·17 | ·11 | ·06 |
| September | ·10 | ·55 | ·81 | ·84 | ·66 | ·54 | ·39 | ·26 | ·12 | ·16 | ·13 | ·06 |
| October | ·14 | ·45 | ·55 | ·49 | ·47 | ·36 | ·23 | ·15 | ·14 | ·07 | ·01 | .. |
| November | ·03 | ·26 | ·38 | ·41 | ·35 | ·26 | ·24 | ·19 | ·12 | ·08 | ·04 | .. |
| December | ·01 | ·36 | ·61 | ·57 | ·57 | ·67 | ·69 | ·67 | ·60 | ·38 | ·30 | ·02 |
| Mean | 0·07 | 0·51 | 0·67 | 0·73 | 0·69 | 0·66 | 0·57 | 0·50 | 0·43 | 0·36 | 0·28 | 0·11 |

# TABLE IV.

KODAIKANAL OBSERVATORY.

*Number of days in each month on which the Nilgiris were visible in 1928.*

| Month. | Very clear. | Visible. | Just visible. | Tops only visible. | TOTAL. |
|---|---|---|---|---|---|
| January | .. | 12 | 4 | 1 | 17 |
| February | .. | 5 | 2 | 2 | 9 |
| March | .. | 3 | 1 | .. | 4 |
| April | 2 | 1 | .. | .. | 3 |
| May | .. | 1 | .. | 1 | 2 |
| June | 5 | 5 | 3 | 1 | 14 |
| July | 1 | 2 | .. | .. | 3 |
| August | .. | 3 | 2 | 1 | 6 |
| September | 5 | 10 | 2 | 2 | 19 |
| October | 2 | 14 | 1 | .. | 17 |
| November | 1 | 8 | 1 | .. | 10 |
| December | 5 | 6 | .. | 3 | 14 |
| TOTAL | 21 | 70 | 16 | 11 | 118 |

# TABLE V.

*Madras Observatory :—Monthly and Annual abnormals of the meteorological elements for 1928.*

| [illegible] of. | January. | February. | March. | April. | May. | June. | July. | August. | September | October. | November. | December. | Annual. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Atmospheric pressure reduced to sea level and gravity. | —0·003 | Normal | —0·012 | —0·031 | —0·015 | —0·064 | —0·035 | —0·002 | —0·027 | —0·025 | +0·014 | —0·039 | —0·018 |
| Temperature of air . . . | +0·5 | +1·6 | +0·2 | +1·0 | +2·9 | +2·6 | +1·5 | +0·6 | +0·7 | +0·6 | +1·9 | +1·5 | +1·4 |
| Temperature of evaporation . | +0·5 | +1·0 | —1·3 | +0·5 | +0·6 | —0·5 | +0·1 | +0·2 | +0·9 | +1·4 | +1·1 | +1·1 | +0·6 |
| Percentage of humidity . . | +1 | —1 | —6 | —2 | —6 | —8 | —3 | —1 | +2 | +4 | —4 | —1 | —2 |
| Maximum temperature in shade . | +0·4 | +0·2 | +1·2 | +1·4 | +3·6 | +2·5 | +0·9 | +0·8 | Normal | —0·7 | +0·7 | +0·5 | +1·0 |
| Minimum temperature in shade . | +2·5 | +2·1 | —1·2 | +1·0 | +2·5 | +2·3 | +1·4 | +0·1 | +0·4 | +1·0 | +1·7 | +1·8 | + 1·3 |
| Minimum temperature on grass . | +3·8 | +3·3 | —0·8 | +1·4 | +3·1 | +3·0 | +0·1 | +0·2 | +0·7 | +1·4 | +1·5 | +2·7 | +1·9 |
| Rainfall in inches . . . | +0·25 | +0·84 | +0·65 | —0·56 | —2·09 | —1·87 | —0·60 | +0·14 | +3·49 | +9·81 | —6·57 | —1·04 | +2·45 |
| Rainfall since January 1st . . | +0·25 | +1·09 | +1·74 | +1·18 | —0·91 | —2·78 | —3·38 | —3·24 | +0·25 | +10·06 | +3·49 | +2·45 | +2·45 |
| General direction of wind . . | 2 points N | Normal | 2 points E | Normal | Normal | Normal | 1 point S | Normal | Normal | 4 points S | Normal | Normal | Normal |
| Daily velocity in miles . . | +10 | —13 | —31 | —33 | +4 | —2 | —21 | —7 | —27 | —19 | —3 | +7 | —11 |
| Percentage of cloudy sky . . | +7 | +1 | +2 | +5 | —12 | —4 | +5 | +3 | —1 | —3 | —1 | +13 | +1 |
| Percentage of bright sunshine . | +4·3 | +2·5 | +4·1 | +7·1 | +16·3 | +5·3 | +3·7 | +8·0 | +6·2 | +1·4 | +8·1 | —1·8 | +5·2 |

+ Means above normal. — Means below normal.

# TABLE VI.

*Madras Observatory :—Number of hours of wind from each point in 1928.*

| Month. | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | E | 9 | 10 | 11 | 12 | 13 | 14 | 15 | S | 17 | 18 | 19 | 20 | 21 | 22 | 23 | W | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Calm | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January . | 67 | 87 | 200 | 130 | 33 | 30 | 56 | 28 | 9 | 9 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 13 | 44 | 37 | 1 | 744 |
| February | 8 | 30 | 17 | 12 | 42 | 28 | 81 | 82 | 80 | 103 | 74 | 19 | 21 | 5 | 12 | 3 | 11 | 7 | 4 | 4 | 5 | 5 | .. | .. | 4 | .. | 3 | .. | 3 | 4 | 7 | 1 | 21 | 696 |
| March . | 3 | 9 | 5 | 7 | 10 | 6 | 17 | 32 | 40 | 91 | 148 | 79 | 89 | 7 | 17 | 13 | 16 | 33 | 21 | 11 | 18 | 5 | 8 | 4 | 2 | .. | 2 | 5 | 6 | 5 | 2 | 5 | 19 | 744 |
| April . | .. | 1 | 1 | 1 | 2 | 1 | .. | .. | .. | 2 | 64 | 129 | 227 | 66 | 26 | 33 | 58 | 47 | 21 | 11 | 7 | .. | 4 | 3 | .. | .. | .. | .. | .. | 1 | .. | .. | 15 | 720 |
| May . | .. | .. | .. | .. | 3 | .. | 2 | 2 | 5 | 7 | 6 | 22 | 167 | 111 | 48 | 71 | 94 | 51 | 24 | 23 | 20 | 19 | 21 | 13 | 16 | 7 | 6 | 1 | 2 | .. | 1 | 1 | 1 | 744 |
| June . | 2 | 2 | 2 | .. | 1 | 1 | 1 | 4 | 3 | 1 | 17 | 22 | 56 | 34 | 57 | 21 | 43 | 16 | 33 | 25 | 41 | 58 | 85 | 60 | 52 | 40 | 20 | 10 | 8 | 3 | .. | .. | 2 | 720 |
| July . | 2 | 1 | .. | .. | .. | 2 | 6 | 10 | 9 | 11 | 37 | 46 | 20 | 30 | 28 | 18 | 21 | 34 | 47 | 39 | 27 | 52 | 115 | 76 | 34 | 18 | 26 | 14 | 3 | 3 | 6 | .. | 9 | 744 |
| August . | 1 | .. | .. | 1 | 7 | 2 | 1 | 6 | 15 | 18 | 13 | 18 | 27 | 24 | 21 | 30 | 24 | 29 | 36 | 52 | 60 | 80 | 96 | 64 | 35 | 30 | 14 | 14 | 5 | 10 | 3 | 1 | 7 | 744 |
| September | 4 | 3 | 3 | 3 | 2 | 2 | 4 | 4 | 14 | 25 | 27 | 56 | 36 | 37 | 50 | 38 | 23 | 23 | 53 | 49 | 17 | 31 | 42 | 39 | 28 | 32 | 26 | 15 | 8 | 10 | 5 | 3 | 8 | 720 |
| October . | 4 | 11 | 5 | 6 | 16 | 20 | 16 | 24 | 40 | 70 | 66 | 84 | 42 | 31 | 11 | 6 | 17 | 18 | 9 | 19 | 22 | 14 | 13 | 20 | 18 | 21 | 15 | 8 | 8 | 22 | 19 | 18 | 31 | 744 |
| November | 43 | 50 | 279 | 135 | 53 | 22 | 14 | 3 | 2 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .. | .. | 1 | 1 | 9 | 2 | 35 | 60 | 8 | .. | 720 |
| December | 95 | 76 | 114 | 122 | 81 | 30 | 21 | 9 | 7 | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 14 | 77 | 95 | .. | 744 |
| Annual . | 229 | 270 | 626 | 417 | 250 | 144 | 219 | 204 | 233 | 341 | 452 | 475 | 685 | 345 | 270 | 283 | 307 | 258 | 248 | 233 | 219 | 264 | 364 | 279 | 189 | 148 | 113 | 68 | 52 | 87 | 199 | 221 | 122 | 8,784 |

# TABLE VII.

*Madras Observatory :—Number of miles of wind from each point in 1928.*

| Month. | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | E | 9 | 10 | 11 | 12 | 13 | 14 | 15 | S | 17 | 18 | 19 | 20 | 21 | 22 | 23 | W | 25 | 26 | 27 | 28 | 29 | 30 | 31 | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January . . | 439 | 503 | 1,368 | 851 | 260 | 246 | 281 | 170 | 48 | 41 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 82 | 308 | 185 | 4,782 |
| February . | 35 | 71 | 75 | 94 | 218 | 188 | 405 | 341 | 375 | 407 | 436 | 136 | 86 | 30 | 56 | 10 | 34 | 32 | 16 | 16 | 16 | 23 | .. | .. | 11 | .. | 4 | .. | 13 | 12 | 24 | 6 | 3,170 |
| March . . | 11 | 40 | 33 | 59 | 59 | 27 | 85 | 196 | 252 | 354 | 698 | 565 | 541 | 49 | 78 | 41 | 69 | 154 | 125 | 59 | 62 | 18 | 19 | 12 | 6 | .. | 5 | 31 | 27 | 22 | 5 | 27 | 3,739 |
| April . . | .. | 4 | 6 | 5 | 5 | 5 | .. | .. | .. | 11 | 350 | 749 | 1,761 | 568 | 132 | 188 | 246 | 297 | 103 | 60 | 41 | .. | 26 | 22 | .. | .. | .. | .. | .. | 7 | .. | .. | 4,586 |
| May . . | .. | .. | .. | .. | 28 | 0 | 29 | 18 | 50 | 69 | 29 | 216 | 1,844 | 1,208 | 493 | 645 | 758 | 463 | 192 | 147 | 155 | 156 | 195 | 149 | 168 | 75 | 50 | 5 | 14 | .. | 9 | 8 | 7,164 |
| June . . | 18 | 12 | 14 | .. | 5 | 8 | 9 | 18 | 19 | 10 | 117 | 188 | 588 | 363 | 506 | 183 | 264 | 88 | 232 | 183 | 298 | 546 | 835 | 666 | 513 | 412 | 235 | 94 | 90 | 16 | .. | .. | 6,530 |
| July . . | 14 | 6 | .. | .. | .. | 22 | 46 | 77 | 89 | 82 | 261 | 351 | 127 | 181 | 140 | 108 | 119 | 201 | 228 | 223 | 200 | 370 | 1,141 | 709 | 300 | 159 | 217 | 69 | 20 | 19 | 28 | .. | 5,498 |
| August . . | 7 | .. | .. | 4 | 41 | 17 | 10 | 31 | 92 | 123 | 82 | 122 | 168 | 155 | 153 | 211 | 163 | 168 | 221 | 254 | 435 | 573 | 755 | 530 | 247 | 207 | 100 | 112 | 38 | 49 | 12 | 4 | 5,184 |
| September . | 9 | 16 | 20 | 8 | 12 | 7 | 19 | 19 | 165 | 146 | 141 | 304 | 219 | 218 | 249 | 167 | 96 | 104 | 266 | 244 | 103 | 187 | 274 | 202 | 182 | 161 | 158 | 110 | 37 | 58 | 27 | 12 | 3,880 |
| October . . | 14 | 29 | 15 | 27 | 54 | 93 | 77 | 103 | 219 | 349 | 288 | 298 | 172 | 146 | 54 | 21 | 57 | 67 | 35 | 74 | 98 | 65 | 53 | 87 | 94 | 80 | 49 | 48 | 46 | 144 | 161 | 110 | 3,223 |
| November . | 259 | 337 | 2,122 | 1,018 | 304 | 164 | 102 | 14 | 8 | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7 | .. | .. | .. | .. | .. | 2 | 4 | 33 | 5 | 158 | 347 | 4,886 |
| December . | 725 | 585 | 876 | 1,072 | 787 | 238 | 176 | 59 | 59 | 15 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 69 | 475 | 752 | 5,888 |
| Annual . . | 1,531 | 1,602 | 4,529 | 3,138 | 1,773 | 1,020 | 1,230 | 1,046 | 1,308 | 1,609 | 2,402 | 2,929 | 5,506 | 2,918 | 1,861 | 1,574 | 1,806 | 1,574 | 1,418 | 1,360 | 1,415 | 1,938 | 3,298 | 2,377 | 1,521 | 1,094 | 820 | 473 | 318 | 483 | 1,207 | 1,451 | 58,530 |

# TABLE VIII.

*Madras Observatory.—Number of inches of rain with winds from each point in 1928.*

| Month. | N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | E | 9 | 10 | 11 | 12 | 13 | 14 | 15 | S | 17 | 18 | 19 | 20 | 21 | 22 | 23 | W | 25 | 26 | 27 | 28 | 29 | 30 | 31 | C | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Inches |
| Jan. . | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·50 | 0·57 | 0·07 | .. | 1·14 |
| Feb. . | .. | .. | .. | .. | .. | .. | .. | .. | 0·03 | .. | .. | .. | .. | .. | 0·12 | .. | .. | .. | .. | .. | .. | 0·83 | .. | .. | .. | 0·01 | .. | .. | .. | 0·13 | .. | .. | 1·12 |
| Mar. . | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·39 | 0·01 | 0·03 | 0·01 | .. | .. | .. | .. | 0·59 | .. | .. | .. | .. | .. | .. | .. | .. | 0·01 | 1·04 |
| April . | .. | 0·05 | .. | .. | 0·01 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·06 |
| May . | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·03 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·03 |
| June . | .. | .. | 0·05 | .. | .. | .. | .. | .. | 0·03 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·01 | 0·01 | .. | .. | .. | 0·02 | 0·02 | 0·01 | .. | 0·01 | 0·04 | .. | .. | 0·03 | 0·24 |
| July . | .. | .. | .. | .. | .. | .. | 0·04 | .. | .. | 0·23 | 0·07 | 0·51 | 0·02 | .. | 0·02 | 0·40 | 0·25 | 0·16 | 0·25 | .. | 0·65 | .. | 0·05 | 0·03 | .. | .. | .. | 0·13 | 0·26 | .. | 0·20 | .. | .. | 3·27 |
| Aug. . | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·01 | 0·31 | .. | 0·43 | 0·19 | 0·84 | 0·56 | 0·27 | 0·60 | 0·42 | 0·39 | 0·42 | 0·03 | 0·11 | 0·03 | .. | .. | .. | 0·04 | .. | .. | 0·05 | 4·70 |
| Sept. . | 0·01 | 1·40 | .. | .. | .. | .. | .. | .. | 0·32 | .. | 0·07 | 0·01 | .. | 0·02 | 0·06 | .. | 0·03 | 0·28 | 0·99 | 0·25 | 0·10 | 0·05 | 2·09 | 0·52 | .. | 0·07 | 0·31 | .. | 0·09 | 0·61 | .. | .. | .. | 8·18 |
| Oct. . | 0·06 | 0·02 | .. | .. | 0·49 | .. | 0·13 | .. | 0·66 | 1·28 | 0·79 | 1·21 | 2·74 | 0·11 | 0·35 | .. | 0·06 | 0·38 | .. | 0·01 | 0·53 | .. | 0·83 | .. | 1·01 | 0·79 | 0·07 | 0·02 | 2·47 | 2·95 | 3·35 | 0·50 | .. | 20·81 |
| Nov. . | 0·37 | 0·44 | 2·04 | 0·08 | 0·18 | .. | 1·78 | 0·83 | 0·08 | 0·04 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·13 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·37 | 0·30 | .. | 6·64 |
| Dec. . | 0·58 | 0·03 | 1·16 | 0·21 | 0·18 | 0·26 | 0·80 | .. | .. | 0·11 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0·12 | 0·11 | 0·68 | .. | 4·24 |
| Annual . | 1·02 | 1·94 | 3·25 | 0·29 | 0·86 | 0·26 | 2·75 | 0·83 | 1·12 | 1·69 | 0·94 | 1·74 | 3·07 | 0·13 | 2·27 | 0·60 | 1·21 | 1·39 | 1·51 | 0·87 | 1·84 | 1·27 | 3·98 | 0·58 | 1·14 | 0·91 | 0·40 | 0·15 | 2·83 | 4·26 | 4·73 | 1·55 | 0·09 | 51·47 |

# TABLE IX.

*Madras Observatory.—Wind, cloud and bright sunshine in 1928.*

| Month. | Wind Resultant. | | Cloud (0—10). | | | | | Bright Sunshine. | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Velocity. | Direction. | 8 h. | 10 h. | 16 h. | 20 h. | Mean. | Average per day. | Greatest number of hours per day. | |
| | Miles. | Points. | | | | | | Hours. | Hours. | |
| January . . | 138·2 | N.N.E. | 4·4 | 5·6 | 4·4 | 3·1 | 4·4 | 8·0 | 10·3 | |
| February . . | 83·4 | E. | 2·5 | 3·6 | 2·4 | 1·5 | 2·5 | 9·4 | 11·2 | |
| March . . | 84·8 | S.E. by E. | 2·6 | 3·5 | 2·7 | 1·3 | 2·6 | 9·4 | 11·3 | |
| April . . . | 135·3 | S.E. by S. | 4·6 | 4·3 | 3·0 | 1·2 | 3·3 | 9·6 | 11·2 | |
| May . . . | 178·4 | S. by E. | 2·5 | 2·1 | 2·7 | 3·1 | 2·6 | 9·6 | 10·8 | |
| June . . . | 123·9 | S.W. | 5·5 | 5·3 | 7·1 | 6·6 | 6·0 | 5·7 | 10·4 | |
| July . . . | 100·4 | S.W. | 7·8 | 7·4 | 8·4 | 6·8 | 7·6 | 4·6 | 10·4 | |
| August . | 102·9 | S.W. | 7·2 | 6·4 | 7·4 | 6·9 | 7·0 | 5·7 | 10·9 | |
| September . . | 56·1 | S.S.W. | 6·6 | 6·2 | 6·3 | 5·2 | 6·1 | 5·8 | 11·4 | |
| October . . | 28·9 | E.S.E. | 5·5 | 6·4 | 6·2 | 4·3 | 5·6 | 6·2 | 11·2 | |
| November . . | 153·1 | N.N.E. | 5·7 | 6·5 | 6·9 | 4·1 | 5·8 | 6·2 | 9·9 | |
| December . . | 170·7 | N.N.E. | 6·4 | 6·5 | 7·4 | 5·8 | 6·5 | 5·7 | 8·8 | |
| Annual . . | 25·8 | S.E. by E. | 5·1 | 5·3 | 5·4 | 4·2 | 5·0 | 7·2 | .. | |

# TABLE X.

## *Mean Monthly and Annual Meteorological Results at the Madras Observatory in 1928.*

| Month. | Barometer. | | Dry Bulb Thermometer. | | | | Wet Bulb. | | Tension of Vapour. | Relative Humidity. | Min on Grass. | Wind. | | | Rain. | | Cloud Sky. | Bright Sunshine. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Reduced to 32°. | Daily Range. | Mean. | Max. | Min. | Range. | Mean. | Min. | By Simpson's Tables. | | | Daily Velocity. | Mean Direction. | | Amount. | Days. | | |
| | Inches. | Inches. | ° | ° | ° | ° | ° | ° | Inches. | Per cent. | ° | Miles. | Points. | Points. | Inches. | No. | Cents. | Hours. |
| January | 29·994 | 0·115 | 77·2 | 85·0 | 70·0 | 15·0 | 71·3 | 67·9 | 0·688 | 74 | 66·9 | 154 | 3 | N. E. by N. | 1·14 | 2 | 44 | 248·3 |
| February | ·965 | 0·131 | 78·3 | 86·8 | 70·1 | 16·7 | 71·8 | 68·1 | 0·693 | 72 | 67·1 | 109 | 8 | E. | 1·12 | 1 | 25 | 273·7 |
| March | ·894 | 0·133 | 80·2 | 90·4 | 70·9 | 19·5 | 72·6 | 68·3 | 0·701 | 68 | 67·8 | 121 | 12 | S. E. | 1·04 | 2 | 26 | 291·3 |
| April | ·792 | 0·129 | 85·0 | 94·3 | 78·2 | 16·1 | 78·1 | 75·3 | 0·865 | 72 | 76·1 | 158 | 13 | S. E. by S. | 0·06 | 1 | 33 | 288·3 |
| May | ·720 | 0·113 | 89·6 | 101·4 | 83·3 | 18·1 | 78·9 | 75·8 | 0·842 | 61 | 82·0 | 231 | 15 | S. by E. | 0·03 | 1 | 26 | 297·5 |
| June | ·640 | 0·120 | 89·0 | 100·9 | 82·6 | 18·3 | 76·1 | 72·8 | 0·725 | 54 | 81·6 | 218 | 20 | S. W. | 0·24 | 9 | 60 | 170·2 |
| July | ·704 | 0·118 | 86·0 | 96·5 | 79·9 | 16·6 | 76·0 | 73·0 | 0·761 | 62 | 78·7 | 177 | 19 | S. W. by S. | 3·27 | 13 | 76 | 142·8 |
| August | ·746 | 0·125 | 83·9 | 94·5 | 77·4 | 17·1 | 76·2 | 72·9 | 0·798 | 69 | 75·6 | 167 | 19 | S. W. by S. | 4·70 | 18 | 70 | 177·0 |
| September | ·750 | 0·127 | 83·7 | 93·2 | 77·5 | 15·7 | 77·2 | 73·7 | 0·844 | 74 | 75·7 | 129 | 18 | S. S. W. | 8·18 | 15 | 61 | 173·1 |
| October | ·817 | 0·116 | 81·2 | 88·3 | 76·2 | 12·1 | 77·0 | 73·9 | 0·869 | 82 | 74·2 | 104 | 11 | S. E. by E. | 20·81 | 15 | 56 | 186·8 |
| November | ·938 | 0·103 | 79·4 | 85·7 | 74·0 | 11·7 | 74·0 | 71·2 | 0·766 | 77 | 71·0 | 162 | 2 | N. N. E. | 6·64 | 9 | 58 | 184·9 |
| December | ·939 | 0·102 | 77·0 | 84·1 | 71·6 | 12·5 | 71·7 | 68·7 | 0·707 | 76 | 69·1 | 190 | 2 | N. N. E. | 4·24 | 14 | 65 | 177·3 |
| Annual | 29·825 | 0·119 | 82·5 | 91·8 | 76·0 | 15·8 | 75·1 | 71·8 | 0·772 | 70 | 73·8 | 160 | 12 | S. E. | 51·47 | 100 | 50 | 2,611·2 |

## *Extreme Monthly Meteorological Records at the Madras Observatory in 1928.*

| Month. | Barometer. | | | | | Dry Bulb Thermometer. | | | | Wet Bulb. | | Humidity. | | Grass Therm. | | Wind. | | | | Rain. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Highest. | | Lowest. | | Range. | Highest. | | Lowest. | | Lowest. | | Lowest. | | Lowest. | | Highest. | | Lowest. | | Greatest Fall. | |
| | Inches. | Day. | Inches. | Day. | Inches | ° | Day. | ° | Day. | ° | Day. | Per cent. | Day. | ° | Day. | Miles. | Day. | Miles. | Day. | Inches. | Day. |
| January | *30·140* | *13* | 29·841 | 26 | 0·299 | 88·2 | 30 | 66·0 | 18 | 64·2 | 15 | 51 | 20 | 62·1 | 18 | 270 | 2 | 81 | 29 | 0·84 | 3 |
| February | ·124 | 12 | ·844 | 17 | 0·280 | 90·9 | 17 | 64·9 | 29 | 63·4 | 29 | 39 | 16 | 61·2 | 29 | 160 | 2 | 77 | 6 | 1·12 | 5 |
| March | ·074 | 17 | ·736 | 29 | 0·338 | 95·5 | 4 | *63·0* | *1* | *61·4* | *1* | 28 | 6 | *58·9* | *1* | 170 | 23 | 83 | 31 | 0·99 | 30 |
| April | 29·966 | | ·634 | 14 | 0·332 | 105·9 | 18 | 73·9 | 6 | 72·0 | 6 | 39 | 17 | 72·3 | 7 | 211 | 9 | 65 | 1 | 0·06 | 1 |
| May | ·873 | 4 & 5 | ·555 | 12 | 0·318 | *110·0* | *30* | 77·3 | 10 | 71·6 | 27 | *23* | *27* | 75·1 | 10 | *321* | *23* | 182 | 16 | 0·03 | 9 |
| June | ·755 | 27 | *·497* | *7* | 0·258 | 105·6 | 5 | 76·5 | 30 | 70·6 | 6 & 20 | 25 | 18 | 74·6 | 27 | 318 | 6 | 143 | 26 | 0·11 | 25 |
| July | ·838 | 29 | ·587 | 1 | 0·251 | 103·5 | 31 | 74·7 | 14 | 70·3 | 30 | 30 | 31 | 73·0 | 1 | 280 | 26 | 113 | 16 | 0·83 | 14 |
| August | ·864 | 22 | ·588 | 28 | 0·276 | 101·1 | 30 | 74·3 | 20 | 71·0 | 29 | 31 | 30 | 72·3 | 25 | 236 | 29 | 92 | 11 | 0·87 | 17 |
| September | ·869 | 20 | ·623 | 15 | 0·246 | 99·1 | 5 | 72·9 | 12 | 71·5 | 23 | 36 | 7 | 72·8 | 22 | 186 | 4 | 86 | 20 | 2·01 | 11 |
| October | ·991 | 31 | ·663 | 7 | 0·328 | 94·2 | 6 | 74·2 | 9 | 71·3 | 18 | 54 | 6 | 71·2 | 18 | 217 | 20 | *49* | *11* | *7·01* | *20* |
| November | 30·057 | 22 | ·812 | 11 | 0·245 | 89·1 | 1 | 68·5 | 8 | 66·9 | 8 | 53 | 8 | 65·9 | 8 | 245 | 26 | 60 | 17 | 1·88 | 12 |
| December | ·065 | 11 | ·823 | 24 | 0·242 | 87·7 | 1 | 64·7 | 15 | 63·5 | 15 | 53 | 13 & 15 | 59·8 | 15 | 283 | 25 | 120 | 15 | 1·96 | 24 |

The Extreme value in each column is shown in italics.

## TABLE XI.*

*Monthly and Annual means of Meteorological Observations made at the Madras Observatory at 20 hrs. in 1928.*

| Month. | Barometer reduced to 32°F. | Dry Bulb. | Wet Bulb. | Vapour Tension. | Humidity. | Cloud. | Wind Direction. |
|---|---|---|---|---|---|---|---|
| | | ° | ° | | % | Cents. | Nautical. |
| January | 30·007 | 76·6 | 71·7 | 0·710 | 77 | 31 | N.N.E. |
| February | 29·973 | 77·4 | 72·1 | ·718 | 76 | 15 | E. by N. |
| March | ·896 | 79·7 | 73·9 | ·761 | 71 | 13 | E.S.E. |
| April | ·795 | 83·8 | 78·7 | ·914 | 79 | 12 | S.E. |
| May | ·718 | 86·2 | 80·9 | ·983 | 79 | 31 | S.E. by S. |
| June | ·635 | 86·7 | 77·8 | ·800 | 67 | 66 | S. |
| July | ·701 | 85·2 | 77·4 | ·833 | 70 | 68 | S. |
| August | ·743 | 82·7 | 77·5 | ·875 | 79 | 69 | S. by E. |
| September | ·746 | 83·2 | 78·4 | ·913 | 82 | 52 | S.E. |
| October | ·834 | 80·1 | 77·1 | ·890 | 87 | 43 | S.E. by S. |
| November | ·958 | 78·2 | 73·5 | ·763 | 79 | 41 | N.N.E. |
| December | ·956 | 76·0 | 71·8 | ·725 | 81 | 58 | N. by E. |
| Annual | 29·830 | 81·3 | 75·9 | 0·824 | 77 | 42 | E.S.E. |

## TABLE XII.

*Monthly means of the Meteorological Observations recorded at the Lahore Observatory at 6 hrs. and 22 hrs. in 1928.*

| Month. | Barometer reduced to 32°F. | | Corrected Dry Bulb. | | Corrected Wet Bulb. | | Humidity. | | Cloud Amount. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 6 hrs. | 22 hrs. | 6 hrs. | 22 hrs. | 6 hrs. | 22 hrs. | 6 hrs. | 22 hrs. | 6 hrs. | 22 hrs. |
| | | | ° | ° | ° | ° | % | % | (0—10) | (0—10) |
| January | 29·340 | 29·362 | 45·4 | 51·2 | 44·5 | 49·3 | 93 | 87 | 2·48 | 2·94 |
| February | 29·254 | 29·269 | 51·5 | 59·3 | 49·2 | 54·9 | 84 | 74 | 4·45 | 2·69 |
| March | 29·160 | 29·179 | 57·3 | 66·1 | 52·5 | 58·1 | 72 | 60 | 3·32 | 2·55 |
| April | 29·031 | 29·026 | 67·2 | 77·3 | 61·0 | 66·5 | 69 | 55 | 2·87 | 1·63 |
| May | 28·884 | 28·872 | 79·7 | 89·6 | 67·1 | 72·0 | 49 | 40 | 1·48 | 1·94 |
| June | 28·750 | 28·724 | 83·8 | 91·0 | 73·8 | 76·6 | 61 | 51 | 1·90 | 1·60 |
| July | 28·784 | 28·767 | 83·7 | 90·2 | 78·2 | 81·5 | 78 | 69 | 3·81 | 2·13 |
| August | 28·842 | 28·830 | 83·0 | 88·4 | 77·4 | 80·3 | 77 | 70 | 3·81 | 2·13 |
| September | 28·968 | 28·965 | 74·3 | 80·7 | 71·5 | 74·9 | 84 | 75 | 1·13 | 0·13 |
| October | 29·133 | 29·122 | 63·6 | 72·1 | 60·0 | 65·5 | 80 | 69 | 0·29 | 0·32 |
| November | 29·263 | 29·288 | 54·0 | 60·1 | 51·9 | 56·6 | 86 | 80 | 4·00 | 2·00 |
| December | 29·330 | 29·355 | 45·6 | 51·5 | 44·4 | 49·6 | 91 | 87 | 2·23 | 1·26 |

See page D. 84 for Table XI (*a*).

# TABLE XIII.

*Mean of daily mean values of meteorological elements derived from hourly tabulations of autographic records at the Bombay Observatory in 1928.*

| Month. | Barometric pressure.* | Air temperature. | Relative Humidity. | Vapour pressure (in inches of mercury). |
|---|---|---|---|---|
| | In. | ° | % | |
| January | 29·963 | 74·7 | 66 | ·569 |
| February | ·931 | 73·3 | 68 | ·567 |
| March | ·870 | 79·1 | 72 | ·717 |
| April | ·800 | 83·7 | 73 | ·843 |
| May | ·789 | 85·6 | 70 | ·855 |
| June | ·657 | 83·7 | 79 | ·904 |
| July | ·678 | 81·2 | 85 | ·900 |
| August | ·745 | 80·5 | 83 | ·860 |
| September | ·807 | 79·1 | 84 | ·829 |
| October | ·828 | 81·4 | 81 | ·864 |
| November | ·925 | 80·2 | 71 | ·732 |
| December | ·941 | 76·3 | 65 | ·594 |
| YEAR | 29·828 | 79·9 | 75 | ·769 |

* Reduced to Calcutta H. Standard

# TABLE XIV.

*Monthly means of Meteorological Elements at Trivandrum in 1928.*

| Month. | Newman's Barometer reduced to 32° F. | | | Dry Bulb Thermometer. | | | Wet Bulb Thermometer. | | | Mean Temperature of the Dew point. | Vapour pressure. | | | Humidity. | | | Clouds. | | | Sunshine. | Maximum in Sun. | Minimum on Grass. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hrs. 6 | Hrs. 14 | Hrs. 20 | Hrs. 6 | Hrs. 14 | Hrs. 20 | Hrs. 6 | Hrs. 14 | Hrs. 20 | | Hrs. 6 | Hrs. 14 | Hrs. 20 | Hrs. 6 | Hrs. 14 | Hrs. 20 | Hrs. 6 | Hrs. 14 | Hrs. 20 | | | |
| | 29" | 29" | 29" | ° | ° | ° | ° | ° | ° | ° | " | " | " | % | % | % | % | % | % | hrs. | ° | ° |
| January | ·738 | ·671 | ·773 | 75·2 | 83·9 | 80·6 | 71·7 | 75·5 | 75·7 | 72·0 | ·732 | ·768 | ·824 | 84 | 67 | 79 | 57 | 52 | 33 | 8·0 | 138·5 | 70·3 |
| February | ·731 | ·666 | ·736 | 75·9 | 85·1 | 82·1 | 71·6 | 75·7 | 75·2 | 69·2 | ·717 | ·762 | ·797 | 84 | 61 | 68 | 36 | 33 | 32 | 9·1 | 139·9 | 69·4 |
| March | ·659 | ·632 | ·703 | 78·2 | 87·8 | 83·2 | 73·8 | 76·9 | 76·4 | 70·5 | ·776 | ·789 | ·818 | 80 | 59 | 72 | 30 | 35 | 38 | 9·3 | 143·4 | 72·4 |
| April | ·634 | ·578 | ·657 | 79·3 | 87·6 | 82·2 | 77·2 | 83·0 | 78·8 | 76·1 | ·904 | ·955 | ·936 | 89 | 74 | 85 | 83 | 71 | 69 | 7·4 | 149·0 | 74·9 |
| May | ·540 | ·593 | ·654 | 80·2 | 87·5 | 84·0 | 78·0 | 80·3 | 79·8 | 76·2 | ·926 | ·926 | ·953 | 89 | 72 | 82 | 82 | 59 | 60 | 8·7 | 145·3 | 76·4 |
| June | ·601 | ·575 | ·623 | 76·2 | 82·5 | 79·7 | 74·9 | 77·4 | 76·2 | 73·9 | ·833 | ·869 | ·868 | 89 | 79 | 86 | 82 | 77 | 72 | 5·2 | 134·7 | 73·0 |
| July | ·639 | ·623 | ·674 | 76·4 | 81·7 | 78·8 | 74·4 | 76·7 | 75·7 | 73·3 | ·826 | ·849 | ·844 | 90 | 79 | 86 | 91 | 88 | 61 | 5·7 | 132·2 | 71·7 |
| August | ·700 | ·657 | ·710 | 75·4 | 80·8 | 78·1 | 73·7 | 75·7 | 74·9 | 72·5 | ·811 | ·814 | ·823 | 92 | 78 | 86 | 92 | 90 | 76 | 5·4 | 134·6 | 70·8 |
| September | ·678 | ·618 | ·685 | 75·8 | 83·3 | 79·6 | 73·6 | 75·7 | 75·5 | 71·8 | ·795 | ·783 | ·822 | 89 | 69 | 81 | 61 | 66 | 25 | 8·6 | 137·0 | 69·9 |
| October | ·682 | ·624 | ·707 | 75·8 | 81·6 | 79·1 | 73·7 | 76·1 | 75·7 | 72·6 | ·801 | ·824 | ·843 | 90 | 77 | 85 | 81 | 81 | 65 | 6·3 | 135·9 | 71·2 |
| November | ·709 | ·652 | ·742 | 76·1 | 82·7 | 78·9 | 74·0 | 76·8 | 76·2 | 73·7 | ·810 | ·853 | ·866 | 90 | 79 | 88 | 73 | 89 | 75 | 4·8 | 132·6 | 71·5 |
| December | ·690 | ·637 | ·726 | 75·5 | 82·4 | 79·7 | 72·4 | 75·9 | 75·3 | 71·5 | ·754 | ·799 | ·818 | 86 | 73 | 81 | 73 | 66 | 49 | 6·6 | 133·7 | 68·1 |
| MEAN | ·667 | ·627 | ·699 | 76·7 | 83·9 | 80·5 | 74·1 | 77·1 | 76·3 | 72·8 | ·807 | ·833 | ·851 | 88 | 72 | 82 | 70 | 67 | 55 | 7·1 | 138·1 | 71·6 |

# TABLE XV.

*Frequency of wind direction at Trivandrum Observatory in 1928.*

## 6 hours.

| Month. | C 0 | N N E 1 | N E 2 | E N E 3 | E 4 | E S E 5 | S E 6 | S S E 7 | S 8 | S S W 9 | S W 10 | W S W 11 | W 12 | W N W 13 | N W 14 | N N W 15 | N 16 | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 14 | .. | 8 | .. | 6 | .. | 1 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 1 | 31 |
| February | 5 | .. | 11 | 1 | 9 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 2 | 29 |
| March | .. | .. | 10 | .. | 4 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 2 | .. | 14 | 31 |
| April | 5 | .. | 3 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | 18 | 30 |
| May | 10 | 1 | 4 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 13 | 31 |
| June | 3 | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 1 | 1 | 5 | .. | 4 | 3 | 12 | 30 |
| July | 8 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 3 | 19 | 31 |
| August | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 6 | .. | 3 | 1 | 18 | 31 |
| September | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | .. | 25 | 30 |
| October | 5 | 2 | 4 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 18 | 31 |
| November | 14 | 1 | .. | 2 | 5 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 7 | 30 |
| December | 9 | 1 | 12 | 1 | 5 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 2 | 31 |
| TOTAL | 78 | 5 | 52 | 4 | 31 | .. | 2 | .. | 1 | .. | 2 | 1 | 14 | .. | 14 | 13 | 149 | 366 |

## 14 hours.

| Month. | C 0 | N N E 1 | N E 2 | E N E 3 | E 4 | E S E 5 | S E 6 | S S E 7 | S 8 | S S W 9 | S W 10 | W S W 11 | W 12 | W N W 13 | N W 14 | N N W 15 | N 16 | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | .. | .. | 1 | .. | .. | .. | .. | .. | 1 | 2 | 23 | 2 | 2 | .. | .. | .. | .. | 31 |
| February | 1 | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 18 | 3 | 4 | .. | 1 | .. | .. | 29 |
| March | .. | .. | .. | .. | .. | .. | .. | .. | 4 | .. | 9 | 3 | 15 | .. | .. | .. | .. | 31 |
| April | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4 | 1 | 22 | 2 | 1 | .. | .. | 30 |
| May | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 2 | 1 | 20 | 3 | 4 | .. | .. | 31 |
| June | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 20 | 3 | 3 | 1 | .. | 30 |
| July | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 24 | 2 | 5 | .. | .. | 31 |
| August | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 21 | 7 | 2 | .. | .. | 31 |
| September | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 15 | 9 | 5 | 1 | .. | 30 |
| October | 2 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 2 | 4 | 19 | 1 | 2 | .. | .. | 31 |
| November | 2 | .. | .. | .. | .. | .. | .. | .. | 2 | .. | 13 | 3 | 9 | .. | .. | 1 | .. | 30 |
| December | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 23 | 2 | 4 | .. | .. | .. | 1 | 31 |
| TOTAL | 8 | .. | 2 | .. | .. | .. | .. | .. | 10 | 2 | 94 | 21 | 175 | 27 | 23 | 3 | 1 | 366 |

## 20 hours.

| Month. | C 0 | N N E 1 | N E 2 | E N E 3 | E 4 | E S E 5 | S E 6 | S S E 7 | S 8 | S S W 9 | S W 10 | W S W 11 | W 12 | W N W 13 | N W 14 | N N W 15 | N 16 | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 18 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | 1 | 8 | .. | 2 | .. | .. | 31 |
| February | 15 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 8 | .. | 3 | .. | 1 | .. | 1 | 29 |
| March | 6 | .. | .. | .. | .. | .. | .. | .. | 3 | .. | 4 | .. | 8 | 1 | 5 | .. | 4 | 31 |
| April | 8 | .. | 1 | .. | 2 | .. | .. | .. | 1 | .. | .. | .. | 6 | 1 | 8 | .. | 3 | 30 |
| May | 2 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 2 | 1 | 14 | 1 | 9 | .. | 1 | 31 |
| June | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 13 | 3 | 8 | .. | 4 | 30 |
| July | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 14 | 1 | 6 | .. | 9 | 31 |
| August | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 21 | 2 | 5 | .. | 3 | 31 |
| September | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 21 | 4 | 5 | .. | .. | 30 |
| October | 14 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 11 | .. | 5 | .. | 1 | 31 |
| November | 20 | .. | 1 | .. | 2 | .. | .. | .. | 1 | .. | 1 | 1 | 2 | .. | .. | .. | 2 | 30 |
| December | 29 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 31 |
| TOTAL | 114 | .. | 2 | .. | 6 | .. | .. | .. | 7 | .. | 16 | 4 | 121 | 13 | 54 | .. | 29 | 366 |

MG1PC—M—VIII-3-20—9-1-30—290.

# TABLE XI(*a*).*

*Mean hourly wind velocity recorded by the Dines Pressure Tube anemometer at the Madras Harbour for the year 1928.*

| Month. | M. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | TOTAL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 10 | 10 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 11 | 10 | 245 |
| February | 8 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 5 | 5 | 6 | 7 | 8 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 8 | 176 |
| March | 6 | 6 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 9 | 9 | 8 | 8 | 179 |
| April | 9 | 8 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 221 |
| May | 12 | 12 | 11 | 10 | 10 | 9 | 9 | 11 | 12 | 12 | 12 | 11 | 13 | 13 | 12 | 12 | 13 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 283 |
| June | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 261 |
| July | 9 | 9 | 9 | 9 | 8 | 7 | 7 | 9 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 9 | 10 | 9 | 8 | 226 |
| August | 9 | 9 | 8 | 7 | 7 | 7 | 7 | 7 | 8 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 208 |
| September | 8 | 8 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 168 |
| October | 6 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 6 | 6 | 6 | 6 | 5 | 6 | 129 |
| November | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 10 | 240 |
| December | 10 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 11 | 10 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 | 10 | 252 |
| Annual | 9 | 8 | 8 | 8 | 8 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 216 |

*See footnote on page D.-80.

MGIPC—M—VIII-3-20—5-2-30—290.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

PART E.

# SEISMIC RECORDS.

CONTENTS


| | Page |
|---|---|
| Kodaikanal | E 1 |
| Bombay | E 5 |
| Calcutta | E 12 |
| Earthquake Reports | E 16 |



Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.

*Director General of Observatories*

CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

**Government of India Publications are obtainable from the Government of India Central Publication Branch, 3, Government Place, West, Calcutta, and from the following Agents :—**

## EUROPE.

OFFICE OF THE HIGH COMMISSIONER FOR INDIA,
42, GROSVENOR GARDENS, LONDON, S. W. 1.

**And at all Booksellers.**

## INDIA AND CEYLON :

### Provincial Book Depôts.

MADRAS :—Superintendent, Government Press, Mount Road, Madras.
BOMBAY :—Superintendent, Government Book Depôt, Town Hall, Bombay.
SIND :—Library attached to the Office of the Commissioner in Sind, Karachi.
BENGAL :—Bengal Secretariat Book Depôt, Writers' Buildings, Room No. 1, Ground Floor, Calcutta.
UNITED PROVINCES OF AGRA AND OUDH :—Superintendent of Government Press, United Provinces of Agra and Oudh, Allahabad.
PUNJAB :—Superintendent, Government Printing, Punjab, Lahore.
BURMA :—Superintendent, Government Printing, Burma, Rangoon.
CENTRAL PROVINCES AND BERAR :—Superintendent, Government Printing, Central Provinces, Nagpur.
ASSAM :—Superintendent, Assam Secretariat Press, Shillong.
BIHAR AND ORISSA :—Superintendent, Government Printing, Bihar and Orissa, P. O. Gulzarbagh, Patna.
COORG :—Office of the Chief Commissioner of Coorg, Bangalore.
NORTH-WEST FRONTIER PROVINCE :—Manager, Government Printing and Stationery, Peshawar.

---

Thacker, Spink & Co., Calcutta and Simla.
W. Newman & Co., Ltd., Calcutta.
R. Cambray & Co., Calcutta.
S. K. Lahiri & Co., Calcutta.
The Indian School Supply Depôt, 309, Bow Bazar Street, Calcutta.
Butterworth & Co. (India), Ltd., Calcutta.
Rai M. C. Sarcar Bahadur & Sons, 90-2A, Harrison Road, Calcutta.
Standard Literature Company, Limited, Calcutta.
Association Press, Calcutta.
Chukervertty, Chatterjee & Co., Ltd., 13, College Square, Calcutta.
The Book Company, Calcutta.
James Murray & Co., 12, Government Place, Calcutta. (For Meteorological Publications only.)
Ray Chaudhury & Co., 68-5, Asutosh Mukherji Road, Calcutta.
Scientific Publishing Co., 9, Taltolla Lane, Calcutta.
Chatterjee & Co., 204, Cornwallis Street, Calcutta.
Standard Law Book Society, 8-2, Hastings Street, Calcutta.
The Hindu Library, 3, Nandalal Mullick Lane, Calcutta.
B. C. Basak, Esq., Proprietor, Albert Library, Dacca.
Mitra Brothers, Rajshahi.
Higginbothams, Madras.
Rochouse and Sons, Madras.
G. A. Nateson & Co., Publishers, George Town, Madras.
Theosophical Publishing House, Adyar, Madras.
P. Varadachary & Co., Madras.
S. Murty & Co., Madras.
Bright & Co., Trivandrum.
The Booklover's Resort, Taikad, Trivandrum, South India.
E. M. Gopalakrishna Kone, Pudumandapam, Madura.
Central Book Depôt, Madura.
Vijapur & Co., Vizagapatam.
Thacker & Co., Ltd., Bombay.
D. B. Taraporevala Sons & Co., Bombay.
Sunder Pandurang, Bombay.
Ram Chandra Govind & Sons, Kalbadevi Road, Bombay.
N. M. Tripathi & Co., Booksellers, Princess Street, Kalbadevi Road, Bombay.
New and Secondhand Bookshop, Kalbadevi Road, Bombay.
Mrs. Radhabai Atmaram Sagoon, Kalbadevi Road, Bombay.
J. M. Pandia & Co., Bombay.
Gatulal & Co., Bombay.
A. H. Wheeler & Co., Allahabad, Calcutta and Bombay.
S. Govind & Co., Sandhurst Road, Girgaum, Bombay.
Proprietor, New Kitabkhana, Poona.
The Manager, Oriental Book Supplying Agency, 15, Shukrawar, Poona City.
Rama Krishna Bros., Opposite Visrambag, Poona City.
S. P. Bookstall, 21, Budhwar, Poona.
Mangaldas & Sons, Booksellers and Publishers, Bhaga Talao, Surat.
The Standard Book and Stationery Co., 32-33, Arbab Road, Peshawar.
R. B. Umadikar & Co., The Bharat Book Depôt, Dharwar.
The Standard Bookstall, Karachi, Quetta, Delhi, Murree and Rawalpindi.
The Karachi Book Depôt, Elphinstone Street, Camp, Karachi.
The English Bookstall, Karachi.
The Standard Bookstall, Quetta.
U. P. Malhotra & Co., Quetta.
J. Ray & Sons, 43, K. & L., Edwardes Road, Rawalpindi, Murree and Lahore.
The Standard Book Depôt, Lahore, Nainital, Mussoorie, Dalhousie, Ambala Cantonment and Delhi.
N. B. Mathur, Supdt., Nazir Kanun Hind Press, Allahabad.
The North India Christian Tract and Book Society, 18, Clive Road, Allahabad.
Ram Dayal Agarwala, 184, Katra, Allahabad.
The Indian Army Book Depôt, Juhi, Cawnpore.
The Indian Army Book Depôt, Jullundur City.
Manager, Newal Kishore Press, Lucknow.
The Upper India Publishing House, Ltd., Literature Palace, Ammuddaula Park, Lucknow.
Rai Sahib M. Gulab Singh & Sons, Mufid-i-Am Press, Lahore and Allahabad.
Rama Krishna & Sons, Booksellers, Anarkali, Lahore.
Puri Brothers, Booksellers and Publishers, Katcheri Road, Lahore.
The Tilak School Bookshop, Lahore.
The Standard Bookstall, Lahore.
The Proprietor, Punjab Sanskrit Book Depôt, Saidmitha Street, Lahore.
The Insurance Publicity Co., Ltd., Lahore.
The Punjab Religious Book Society, Lahore.
Manager of the Imperial Book Depôt, 63, Chandney Chawk Street, Delhi.
Fono Book Agency, New Delhi.
Oxford Book and Stationery Company, Delhi & Calcutta.
Supdt., American Baptist Mission Press, Rangoon.
The Modern Publishing House, Ltd., 30, Phayre Street, Rangoon.
Burma Book Club, Ltd., Rangoon.
Manager, the "Hitavada," Nagpur.
Bhisey Brothers, Booksellers and Stationers, Sitabaldi, Nagpur.
S. C. Talukdar, Proprietor, Students & Co., Cooch Behar.
The Manager, Ceylon Observer, Colombo.
The Manager, The Indian Book Shop, Benares City.
Nandkishore & Bros., Chowk, Benares City.
The Srivilliputtur Co-operative Trading Union, Ltd., Srivilliputtur (S. I. R.).
Raghunath Prosad & Sons, Patna City.
The Students' Emporium, Patna.
K. L. Mathur & Bros., Guzri, Patna City.
Dandekar Brothers, Indore City.
Pushtakalaya Sahayak Sahakari, Ltd., Baroda.
The Hyderabad Book Depôt, Chaderghat, Hyderabad (Deccan).
Thakur & Co., Amraoti.
S. Krishnaswami & Co., Teppakulam P. O., Trichinopoly Fort.
National College Teacher's Union Book Depôt, Trichinopoly.

# ANNUAL SUMMARY, 1928.

## PART E.

## SEISMIC RECORDS.

### STATION—KODAIKANAL.

$\varphi = 10^\circ\ 13'\ 50''$ N ; $\lambda = 77^\circ\ 28'\ 00''$ E ; $h = 2343$ m. *Subsoil*—Rock.

*Apparatus*—Milne's Horizontal Pendulum Seismograph.

TABLE E. 1

| | V | To | C | $\frac{r}{To^2}$ | Months. |
|---|---|---|---|---|---|
| AE . . . . . | 9·76 | 16·4 | 1 | 2·8 | January. |
| | 9·76 | 16·5 | 1 | 2·9 | February, March, April, May and September. |
| | 9·76 | 16·2 | 1 | 3·3 | June. |
| | 9·76 | 16·2 | 1 | 3·0 | July. |
| | 9·76 | 16·6 | 1 | 2·9 | August. |
| | 9·76 | 16·3 | 1 | 2·8 | October. |
| | 9·76 | 16·1 | 1 | 2·9 | November. |
| | 9·76 | 16·3 | 1 | 3·0 | December. |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / AE. | Remarks. |
|---|---|---|---|---|---|
| | | H. M. S. | | | |
| 1927. | | | | | |
| Dec. 31st | eP | 23 55 06 | .. | .. | |
| 1928. | | | | | |
| Jan. 1st | F | 0 20 42 | .. | .. | Widening of line. |
| ,, 1st | eP | 19 07 48 | .. | .. | |
| | F | 19 16 00 | .. | .. | Widening of line. |
| ,, 4th | eP | 21 59 54 | .. | .. | |
| | F | 22 40 18 | .. | .. | Widening of line. |
| ,, 6th | iP | 19 40 30 | .. | .. | |
| | iL | 19 46 24 | .. | .. | |
| | M | 19 59 42 | .. | 880 | |
| | F | 21 44 54 | .. | .. | |
| ,, 10th | iP | 2 40 00 | .. | .. | |
| | eL | 2 48 54 | .. | .. | |
| | M | 2 53 00 | .. | 80 | |
| | F | 3 04 42 | .. | .. | |
| ,, 12th | eP | 14 24 48 | .. | .. | |
| | F | 14 50 36 | .. | .. | Widening of line. |
| ,, 23rd | eP | 11 02 36 | .. | .. | |
| | F | 11 05 54 | .. | .. | Widening of line. |
| ,, 26th | eP | 21 56 06 | .. | .. | |
| | iL | 22 00 30 | .. | .. | |
| | M | 22 04 06 | .. | 230 | |
| | F | 22 39 00 | .. | .. | |
| ,, 27th | eP | 22 52 36 | .. | .. | |
| | F | 22 57 06 | .. | .. | Widening of line. |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / AE. | Remarks. |
|---|---|---|---|---|---|
| | | H. M. S. | | | |
| 1928. | | | | | |
| Jan. 30th | eP | ? | .. | .. | P marked by hour mark. |
| | eL | 3 34 36 | .. | .. | |
| | M | 3 37 42 | .. | 60 | |
| | F | 4 17 36 | .. | .. | |
| Feb. 1st | eP | 9 20 06 | .. | .. | |
| | F | 9 27 42 | .. | .. | Widening of line. |
| ,, 3rd | eP | 13 53 54 | .. | .. | |
| | iL | 14 23 36 | .. | .. | |
| | M | 14 24 54 | .. | 60 | |
| | F | 14 43 42 | .. | .. | |
| ,, 5th | eP | 3 22 48 | .. | .. | |
| | F | 3 23 54 | .. | .. | Widening of line. |
| ,, 6th | eP | 4 08 06 | .. | .. | |
| | eL | 4 22 30 | .. | .. | |
| | M | 4 29 42 | .. | 40 | |
| | F | 5 02 42 | .. | .. | |
| ,, 7th | iP | 0 05 24 | .. | .. | |
| | iL | 0 08 30 | .. | .. | |
| | M | 0 11 06 | .. | 1750 | |
| | F | 1 49 06 | .. | .. | |
| ,, 21st | eP | 20 12 36 | .. | .. | |
| | iL | 20 38 12 | .. | .. | |
| | M | 20 46 24 | .. | .. | |
| | F | 21 22 06 | .. | 180 | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / AE. | Remarks. |
|---|---|---|---|---|---|
| | | H. M. S. | | | |
| 1928. | | | | | |
| Feb. 24th | eP | 14 57 48 | .. | .. | |
| | F | 15 21 36 | .. | .. | Widening of line. |
| ,, 26th | eP | 1 50 42 | .. | .. | |
| | eL | 2 07 30 | .. | .. | |
| | M | 2 12 24 | .. | 50 | |
| | F | 2 59 54 | .. | .. | |
| ,, 29th | eP | 22 42 12 | .. | .. | |
| | F | 23 23 30 | .. | .. | Widening of line. |
| Mar. 9th | eP | .. | .. | .. | No P. T's. |
| | iL | 18 09 48 | .. | .. | |
| | M | 18 14 30 | .. | 1750 | |
| | F | 21 56 24 | .. | .. | |
| ,, 10th | eP | .. | .. | .. | No P. T's. |
| | eL | 3 25 24 | .. | .. | |
| | M | 3 27 42 | .. | 170 | |
| | F | 4 04 24 | .. | .. | |
| ,, 10th | eP | .. | .. | .. | No P. T's. |
| | eL | 6 01 48 | .. | .. | |
| | M | 6 03 54 | .. | 60 | |
| | F | 6 10 48 | .. | .. | |
| ,, 12th | eP | 86 55 54 | .. | .. | |
| | F | 9 01 18 | .. | .. | Widening of line. |

TABLE E 1—*contd.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| March 13th | eP | .. | .. | .. | No P. T's |
| | eL | 1 45 48 | .. | .. | |
| | M | 1 47 36 | .. | 60 | |
| | F | 2 11 36 | .. | .. | |
| ,, 13th | eP | 18 42 00 | .. | .. | |
| | iL | 18 53 24 | .. | .. | |
| | M | 18 54 24 | .. | 80 | |
| | F | 19 54 24 | .. | .. | |
| ,, 16th | eP | 5 14 54 | .. | .. | |
| | iL | 5 43 18 | .. | .. | |
| | M | 5 58 00 | .. | 680 | |
| | F | 8 58 12 | .. | .. | |
| ,, 17th | eP | 14 47 00 | .. | .. | |
| | F | 15 01 12 | .. | .. | Widening of line. |
| ,, 19th | eP | 10 11 48 | .. | .. | |
| | iL | 10 14 24 | .. | .. | |
| | M | 10 16 12 | .. | 80 | |
| | F | 10 24 54 | .. | .. | |
| ,, 22nd | eP | 4 37 12 | .. | .. | |
| | eL | ? | .. | .. | Instrument examined at time of L. |
| | M | 4 56 36 | .. | 110 | |
| | F | ? | .. | .. | Overlapping. |
| ,, 22nd | eP | ? | .. | .. | |
| | eL | 5 36 36 | .. | .. | |
| | M | 5 59 42 | .. | 180 | |
| | F | 7 24 36 | .. | .. | |
| ,, 26th | eP | 5 35 42 | .. | .. | |
| | iL | 5 59 24 | .. | .. | |
| | M | 6 04 00 | .. | 90 | |
| | F | 6 24 06 | .. | .. | |
| ,, 26th | eP | 7 09 12 | .. | .. | |
| | F | 7 23 00 | .. | .. | Widening of line. |
| ,, 26th | eP | 8 37 24 | .. | .. | |
| | F | 8 48 42 | .. | .. | Widening of line. |
| ,, 27th | iP | 19 20 36 | .. | .. | |
| | iL | 19 28 00 | .. | .. | |
| | M | 19 29 12 | .. | 50 | |
| | F | 20 18 30 | .. | .. | |
| ,, 29th | eP | 5 14 12 | .. | .. | |
| | iL | 5 22 00 | .. | .. | |
| | M | 5 23 48 | .. | 50 | |
| | F | 6 12 06 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| March 31st | eP | 0 47 54 | .. | .. | |
| | eL | 0 59 00 | .. | .. | |
| | M | 1 08 36 | .. | 90 | |
| | F | 1 36 36 | .. | .. | |
| April 3rd | eP | 17 37 12 | .. | .. | |
| | F | 17 47 42 | .. | .. | Widening of line. |
| ,, 10th | eP | 17 41 54 | .. | .. | |
| | eL | 17 58 00 | .. | .. | |
| | M | 18 05 06 | .. | 80 | |
| | F | 18 47 06 | .. | .. | |
| ,, 14th | eP | 9 17 24 | .. | .. | |
| | eL | 9 32 48 | .. | .. | |
| | M | 9 35 42 | .. | 100 | |
| | F | 10 44 12 | .. | .. | |
| ,, 18th | iP | 19 39 06 | .. | .. | |
| | eL | 19 54 00 | .. | .. | |
| | M | 19 59 12 | .. | 210 | |
| | F | 21 26 54 | .. | .. | |
| ,, 22nd | eP | 20 44 00 | .. | .. | |
| | F | 21 10 00 | .. | .. | Widening of line. |
| May 1st | eP | 19 43 06 | .. | .. | |
| | F | 20 04 36 | .. | .. | Widening of line. |
| ,, 2nd | eP | 22 11 24 | .. | .. | |
| | eL | 22 34 48 | .. | .. | |
| | M | 22 35 54 | .. | 40 | |
| | F | 22 48 36 | .. | .. | |
| ,, 8th | eP | 5 09 00 | .. | .. | |
| | F | 5 14 54 | .. | .. | Widening of line. |
| ,, 14-15th | eP | 22 34 06 | .. | .. | |
| | iL | 23 43 42 | .. | .. | |
| | M | 23 47 48 | .. | 530 | |
| | F | 1 44 12 | .. | .. | |
| ,, 15th | eP | 6 39 30 | .. | .. | |
| | F | 7 01 12 | .. | .. | Widening of line. |
| ,, 19th | eP | 3 33 36 | .. | .. | |
| | eL | 3 37 30 | .. | .. | |
| | M | 3 39 18 | .. | 50 | |
| | F | 3 47 36 | .. | .. | |
| ,, 27th | iP | 9 58 42 | .. | .. | |
| | eL | 10 27 12 | .. | .. | |
| | M | 10 34 24 | .. | 260 | |
| | F | 13 22 24 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| May 28th | eP | 16 09 36 | .. | .. | |
| | F | 16 33 54 | .. | .. | Widening of line. |
| ,, 31st / June 1st | eP | 23 46 12 | .. | .. | |
| | eL | 23 51 06 | .. | .. | |
| | M | 23 55 00 | .. | 90 | |
| | F | 24 35 12 | .. | .. | |
| June 1st | eP | 13 31 18 | .. | .. | |
| | eL | 13 54 06 | .. | .. | |
| | M | 14 00 48 | .. | 90 | |
| | F | ? | .. | .. | F marked by hour mark. |
| ,, 3rd | eP | 8 54 36 | .. | .. | |
| | eL | 9 00 00 | .. | .. | |
| | M | 9 03 06 | .. | 60 | |
| | F | 9 42 54 | .. | .. | |
| ,, 7th | eP | 14 38 18 | .. | .. | |
| | F | 14 53 30 | .. | .. | Widening of line. |
| ,, 9th | eP | 5 48 06 | .. | .. | |
| | F | 5 58 42 | .. | .. | Widening of line. |
| ,, 15th | eP | 17 24 36 | .. | .. | |
| | iL | 17 39 18 | .. | .. | |
| | M | 17 44 12 | .. | 250 | |
| | F | 19 08 30 | .. | .. | |
| ,, 17th | eP | 3 35 30 | .. | .. | |
| | iL | 4 34 18 | .. | .. | |
| | M | 5 17 24 | .. | 450 | |
| | F | 7 26 36 | .. | .. | |
| ,, 21st | eP | 11 07 48 | .. | .. | |
| | eL | 11 48 36 | .. | .. | |
| | M | 11 57 42 | .. | 110 | |
| | F | 13 41 06 | .. | .. | |
| ,, 21st | eP | 16 42 06 | .. | .. | |
| | eL | 17 26 42 | .. | .. | |
| | M | 17 31 48 | .. | 260 | |
| | F | 19 29 00 | .. | .. | |
| ,, 24th | eP | 4 44 48 | .. | .. | |
| | F | 4 54 18 | .. | .. | Widening of line. |
| ,, 29th-30th | eP | 23 06 12 | .. | .. | |
| | eL | 23 28 42 | .. | .. | |
| | M | 23 44 42 | .. | 90 | |
| | F | 0 15 30 | .. | .. | |

TABLE E 1—*contd.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| July 4th | eP | 18 02 06 | .. | .. | |
| | F | 18 11 42 | .. | .. | Widening of line. |
| ,, 6th | eP | .. | .. | .. | No P. T's |
| | eL | 0 55 24 | .. | .. | |
| | M | 1 03 06 | .. | 40 | |
| | F | 1 08 12 | .. | .. | |
| ,, 6th | eP | .. | .. | .. | No P. T's |
| | eL | 1 52 00 | .. | .. | |
| | M | 1 53 30 | .. | 40 | |
| | F | 1 59 00 | .. | .. | |
| ,, 9th | eP | 21 55 24 | .. | .. | |
| | eL | 22 15 18 | .. | .. | |
| | M | 22 32 18 | .. | 80 | |
| | F | 23 14 30 | .. | .. | |
| ,, 18th | eP | 19 33 54 | .. | .. | |
| | eL | 20 38 06 | .. | .. | |
| | M | 20 47 00 | .. | 330 | |
| | F | 21 58 12 | .. | .. | |
| ,, 27th | eP | 15 32 48 | .. | .. | |
| | eL | 15 34 06 | .. | .. | |
| | M | 15 36 12 | .. | 60 | |
| | F | 15 47 36 | .. | .. | |
| ,, 31st | eP | .. | .. | .. | No P. T's |
| | eL | 0 51 42 | .. | .. | |
| | M | 0 53 48 | .. | 40 | |
| | F | 1 05 12 | .. | .. | |
| Aug. 4th | eP | 18 49 42 | .. | .. | |
| | eL | 19 53 18 | .. | .. | |
| | M | 20 21 12 | .. | 180 | |
| | F | 21 25 36 | .. | .. | |
| ,, 5th | eP | 15 04 42 | .. | .. | |
| | F | 15 17 54 | .. | .. | Widening of line. |
| ,, 12th | eP | 8 17 00 | .. | .. | |
| | F | 9 03 12 | .. | .. | Widening of line. |
| ,, 21st | eP | 19 21 12 | .. | .. | |
| | F | 19 25 36 | .. | .. | Widening of line. |
| ,, 24th | eP | 22 07 18 | .. | .. | |
| | eL | 22 14 12 | .. | .. | |
| | M | 22 18 00 | .. | 40 | |
| | F | 23 18 18 | .. | .. | |
| Sep. 1st | eP | 6 17 18 | .. | .. | |
| | iL | 6 19 42 | .. | .. | |
| | M | 6 20 42 | .. | 200 | |
| | F | 7 20 42 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Sep. 13th | eP | 3 40 54 | .. | .. | |
| | eL | 4 01 36 | .. | .. | |
| | M | 4 02 36 | .. | 50 | |
| | F | 4 25 06 | .. | .. | |
| ,, 18th | eP | 18 00 30 | .. | .. | |
| | eL | 18 12 12 | .. | .. | |
| | M | 18 14 54 | .. | 50 | |
| | F | 19 00 00 | .. | .. | |
| ,, 18th | eP | 20 02 54 | .. | .. | |
| | eL | 20 06 00 | .. | .. | |
| | M | 20 08 06 | .. | 140 | |
| | F | 20 48 18 | .. | .. | |
| Oct. 4th | eP | 18 36 48 | .. | .. | |
| | eL | 18 44 06 | .. | .. | |
| | M | 18 44 54 | .. | 40 | |
| | F | 19 09 06 | .. | .. | |
| ,, 9th | eP | 3 21 48 | .. | .. | |
| | iL | 3 51 06 | .. | .. | |
| | M | 3 54 30 | .. | 110 | |
| | F | ? | .. | .. | Overlapping. |
| ,, 9th | eP | ? | .. | .. | Overlapping. |
| | iL | 4 39 00 | .. | .. | Overlapping. |
| | $M_1$ | 4 42 24 | .. | 250 | |
| | $M_2$ | 4 48 54 | .. | | |
| | F | 6 01 06 | .. | .. | |
| ,, 12th | eP | 8 14 54 | .. | .. | |
| | F | 8 28 30 | .. | .. | Widening of line. |
| ,, 15th | eP | 14 24 48 | .. | .. | |
| | iL | 14 28 42 | .. | .. | |
| | M | 14 33 36 | .. | 900 | |
| | F | 15 52 12 | .. | .. | |
| ,, 17th | eP | 16 21 30 | .. | .. | |
| | F | 17 09 12 | .. | .. | Widening of line. Several widenings of line. |
| ,, 19th | eP | 10 43 42 | .. | .. | |
| | eL | 11 21 42 | .. | . | |
| | M | 11 31 48 | .. | 130 | |
| | F | 12 14 00 | .. | . | |
| ,, 19th | eP | 12 41 24 | .. | .. | |
| | F | 13 00 30 | .. | .. | Widening of line. |
| ,, 25th | eP | 12 48 48 | .. | .. | |
| | F | 12 54 00 | .. | .. | Widening of line |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Oct. 25th | eP | 14 01 00 | .. | .. | |
| | F | 14 38 30 | .. | .. | Widening of line. |
| Nov. 6th | eP | ? | .. | .. | P. T's not known. Instrument examined at the time. |
| | eL | 5 07 12 | .. | .. | |
| | M | 5 14 24 | .. | 90 | |
| | F | 5 43 00 | .. | .. | |
| ,, 11th | eP | 22 56 36 | .. | .. | |
| | eL | 23 02 36 | .. | .. | |
| | M | 23 07 48 | .. | 40 | |
| | F | 23 40 54 | .. | .. | |
| ,, 20th | eP | 20 54 30 | .. | .. | |
| | eL | 21 57 54 | .. | .. | |
| | M | 22 01 36 | .. | 50 | |
| | F | 22 35 18 | .. | .. | |
| ,, 22nd | eP | 8 56 00 | .. | .. | |
| | eL | 9 19 12 | .. | .. | |
| | M | 9 25 36 | .. | 90 | |
| | F | 10 10 12 | .. | .. | |
| ,, 28th | eP | 10 52 18 | .. | .. | |
| | iL | 11 07 24 | .. | .. | |
| | M | 11 15 24 | .. | 990 | |
| | F | 12 51 24 | .. | .. | |
| ,, 29th | eP | 16 48 24 | .. | .. | |
| | F | 17 06 30 | .. | .. | Widening of line. |
| ,, 29th | eP | 18 57 18 | .. | .. | |
| | eL | 19 01 54 | .. | .. | |
| | M | 19 15 18 | .. | 90 | |
| | F | 19 44 42 | .. | .. | |
| Dec. 1st | eP | 4 26 06 | .. | .. | |
| | eL | 5 17 00 | .. | .. | |
| | M | 5 37 12 | .. | 490 | |
| | F | 8 22 48 | .. | .. | |
| ,, 2nd | eP | 4 40 06 | .. | .. | |
| | eL | 5 41 24 | .. | .. | |
| | $M_1$ | 5 46 36 | .. | .. | |
| | $M_2$ | 5 59 00 | .. | 90 | |
| | F | 7 23 30 | .. | .. | |
| ,, 7th | eP | 9 27 42 | .. | .. | |
| | eL | 9 42 00 | .. | | |
| | M | 9 51 42 | .. | 100 | |
| | F | 10 53 00 | .. | .. | |

TABLE E 1—*concld.*

| Date. | Phase. | Time G. M. T. | Period (Sec). | AMPLITUDE. (μ) / AE. | REMARKS. | Date. | Phase. | Time G. M. T. | Period (Sec.) | AMPLITUDE. (μ) / AE. | REMARKS. | Date. | Phase. | Time G. M. T. | Period (Sec.) | AMPLITUDE. (μ) / AE. | REMARKS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | | 1928. | | H. M. S. | | | | 1928. | | H. M. S. | | | |
| Dec. 10th | eP | 4 41 36 | .. | .. | | Dec. 14th | eP | .. | .. | .. | No P. T's. | Dec. 19th | eP | 11 44 30 | .. | .. | |
| | eL | 4 46 48 | .. | .. | | | eL | 0 39 42 | .. | .. | | | eL | 11 49 06 | .. | .. | |
| | M | 4 50 12 | .. | 40 | | | M | 0 40 30 | .. | 40 | | | M | 12 08 06 | .. | 1050 | |
| | F | 4 58 42 | .. | .. | | | F | 1 01 30 | .. | .. | | | F | 14 55 48 | .. | .. | |
| ,, 12th | eP | 20 43 36 | .. | .. | | | | | | | | ,, 28th | eP | 14 31 18 | .. | .. | |
| | eL | 21 17 30 | .. | .. | | | | | | | | | eL | 14 34 24 | .. | .. | |
| | M | 21 31 36 | .. | 150 | | ,, 14th | eP | 2 10 54 | .. | .. | | | M | 14 55 48 | .. | 230 | |
| | F | 23 10 12 | .. | .. | | | F | 2 17 18 | .. | .. | Widening of line. | | F | 16 20 30 | .. | .. | |

T. ROYDS, *Director,*

*Kodaikanal and Madras Observatories.*

# STATION—COLABA, BOMBAY.

$\varphi$=18° 53′ 36″ N ; $\lambda$=72° 48′ 54″·03 E ; $h$=6 metres. *Subsoil*—Trap.

*Apparatus.*—Milne-Shaw Seismograph (N-S). (In the underground constant temperature room).

*Damping ratio :=20 : 1.*

TABLE E 2.

| | V | To | G | $\frac{1}{To^2}$ |
|---|---|---|---|---|
| AN . . . . . | 250 | 12 | 2·6 | .. |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Jan. 1st | e | 0 46 0 | .. | .. | Tremors. |
| | f | 10 19 0 | .. | .. | |
| ,, 1st | e | 18 54 0 | .. | .. | Tremors. |
| | f | 19 31 0 | .. | .. | |
| ,, 3rd | e | 6 27 0 | .. | .. | Tremors. |
| | f | 6 49 0 | .. | .. | |
| ,, 4th | P | 21 38 5 | .. | .. | |
| | S | 21 47 12 | .. | .. | |
| | L | 22 2 42 | .. | .. | |
| | M | 22 7 10 | 13 | 2 | |
| | F | 22 54 0 | .. | .. | |
| ,, 5th | P | 12 14 38 | .. | .. | |
| | S | 12 19 8 | .. | .. | |
| | Le | 12 22 35 | .. | .. | |
| | M | 12 25 2 | 10 | 2 | |
| | F | 12 38 0 | .. | .. | |
| ,, 6th | P | 19 39 44 | .. | .. | |
| | S | 19 45 51 | .. | .. | |
| | L | 19 51 56 | .. | .. | |
| | M | 19 56 52 | 19 | 87 | |
| | F | 21 29 0 | .. | .. | |
| ,, 10th | P | 2 35 15 | .. | .. | |
| | S | 2 39 35 | .. | .. | |
| | L | 2 42 21 | .. | .. | |
| | M | 2 49 50 | 15 | 4 | |
| | F | 3 27 0 | .. | .. | |
| ,, 11th | e | 7 48 0 | .. | .. | Feeble local shock. |
| | f | 7 49 0 | .. | .. | |
| ,, 11th | e | 8 4 0 | .. | .. | Feeble local shock. |
| | f | 8 5 0 | .. | .. | |
| | e | 8 7 0 | .. | .. | Feeble local shock. |
| | f | 8 8 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Jan. 11th | e | 8 24 0 | .. | .. | Feeble local shock. |
| | f | 8 26 0 | .. | .. | |
| ,, 12th | P | 12 25 6 | .. | .. | |
| | S | 12 26 21 | .. | .. | |
| | L | 12 27 9 | .. | .. | |
| | M | 12 27 16 | 4 | 1 | |
| | F | 12 41 0 | .. | .. | |
| ,, 12th | e | 14 20 0 | .. | .. | Tremors. |
| | f | 15 11 0 | .. | .. | |
| ,, 12-13th | e | 23 32 0 | .. | .. | Tremors. |
| | f | 0 12 0 | .. | .. | |
| ,, 14th | P | 21 32 18 | .. | .. | Feeble shock. |
| | F | 21 37 0 | .. | .. | |
| ,, 15th | P | 3 1 52 | .. | .. | |
| | S | 3 5 52 | .. | .. | |
| | L | 3 7 59 | .. | .. | |
| | M | 3 8 4 | 4 | 5 | |
| | F | 3 39 0 | .. | .. | |
| ,, 21st | P | 15 4 21 | .. | .. | Feeble shock. |
| | S | 15 9 5 | .. | .. | |
| | L | 15 12 29 | .. | .. | |
| | F | 15 29 0 | .. | .. | |
| ,, 23rd | e | 10 59 0 | .. | .. | Tremors. |
| | f | 11 21 0 | .. | .. | |
| ,, 26-27th | P | 21 58 10 | .. | .. | |
| | S | 22 3 28 | .. | .. | |
| | L | 22 8 10 | .. | .. | |
| | M | 22 10 33 | 14 | 11 | |
| | F | 0 26 0 | .. | .. | |
| ,, 27th | e | 19 46 0 | .. | .. | Tremors. |
| | f | 20 10 0 | .. | .. | |
| ,, 27th | e | 22 38 0 | .. | .. | Tremors. |
| | f | 23 11 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) / An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Jan. 29th | e | 0 38 0 | .. | .. | Tremors. |
| | f | 1 1 0 | .. | .. | |
| ,, 29th | e | 10 47 0 | .. | .. | Tremors. |
| | f | 11 24 0 | .. | .. | |
| ,, 30th | P | 3 24 51 | .. | .. | |
| | S | 3 32 35 | .. | .. | |
| | L | 3 43 29 | .. | .. | |
| | M | 3 57 35 | 15 | 4 | |
| | F | 4 42 0 | .. | .. | |
| Feb. 2nd | e | 8 44 0 | .. | .. | Tremors. |
| | f | 9 14 0 | .. | .. | |
| ,, 3rd | P | 13 57 54 | .. | .. | |
| | S | 14 6 5 | .. | .. | |
| | L | 14 18 52 | .. | .. | |
| | M | 14 25 29 | 7 | 3 | |
| | F | 14 57 0 | .. | .. | |
| ,, 4th | e | 6 30 0 | .. | .. | Tremors. |
| | f | 7 36 0 | .. | .. | |
| ,, 4th | e | 22 3 0 | .. | .. | Tremors. |
| | f | 22 24 0 | .. | .. | |
| ,, 6th | P | 0 31 28 | .. | .. | |
| | S | 0 33 18 | .. | .. | |
| | L | 0 33 57 | .. | .. | |
| | M | 0 34 8 | 4 | 5 | |
| | F | 0 56 0 | .. | .. | |
| ,, 6th | P | 4 1 53 | .. | .. | |
| | S | 4 9 3 | .. | .. | |
| | L | 4 18 43 | .. | .. | |
| | M | 4 30 58 | 8 | 3 | |
| | F | 5 15 0 | .. | .. | |

TABLE E 2—*contd.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Feb. 7th | P | 0 7 24 | .. | .. | |
| | S | 0 12 1 | .. | .. | |
| | L | 0 15 6 | .. | .. | |
| | M | 0 17 11 | 16 | 112 | |
| | F | 2 59 0 | .. | .. | |
| ,, 10th | P | 4 58 3 | .. | .. | Feeble shock. |
| | S | 5 1 36 | .. | .. | |
| | L | 5 3 38 | .. | .. | |
| | F | 5 25 0 | .. | .. | |
| ,, 11th | e | 10 21 0 | .. | .. | Tremors. |
| | f | 10 39 0 | .. | .. | |
| ,, 11th | P | 16 18 13 | .. | .. | Feeble shock. |
| | S | 16 20 27 | .. | .. | |
| | L | 16 21 13 | .. | .. | |
| | F | 16 35 0 | .. | .. | |
| ,, 13th | e | 16 53 0 | .. | .. | Tremors. |
| | f | 17 40 0 | .. | .. | |
| ,, 17th | e | 13 3 0 | .. | .. | Tremors. |
| | f | 13 22 0 | .. | .. | |
| ,, 21st | P | 20 1 28 | .. | .. | |
| | S | 20 11 41 | .. | .. | |
| | L | 20 31 36 | .. | .. | |
| | M | 20 36 49 | 14 | 10 | |
| | F | 21 57 0 | .. | .. | |
| ,, 24th | P | 14 33 5 | .. | .. | |
| | S | 14 41 35 | .. | .. | |
| | L | 14 55 35 | .. | .. | |
| | M | 14 58 10 | 8 | 3 | |
| | F | 15 38 0 | .. | .. | |
| ,, 25th | e | 11 13 0 | .. | .. | Tremors. |
| | f | 13 7 0 | .. | .. | |
| 25th | P | 17 27 45 | .. | .. | Feeble shock. |
| | S | 17 31 18 | .. | .. | |
| | Le | 17 32 43 | .. | .. | |
| | F | 17 53 0 | .. | .. | |
| ,, 26th | P | 1 31 38 | .. | .. | |
| | S | 1 41 56 | .. | .. | |
| | L | 2 1 48 | .. | .. | |
| | M | 2 6 53 | 7 | 5 | |
| | F | 3 0 0 | .. | .. | |
| ,, 28th | e | 9 3 0 | .. | .. | Tremors. |
| | f | 10 6 0 | | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Feb. 29th | P | 22 21 27 | .. | .. | |
| | S | 22 29 37 | .. | .. | |
| | L | 22 43 12 | .. | .. | |
| | M | 22 48 22 | 20 | 10 | |
| | F | 23 55 0 | .. | .. | |
| Mar. 7th | P | 9 45 11 | .. | .. | |
| | S | 9 50 43 | .. | .. | |
| | L | 9 55 43 | .. | .. | |
| | M | 9 58 33 | 10 | 2 | |
| | F | 10 14 0 | .. | .. | |
| ,, 7th | e | 11 3 0 | .. | .. | Tremors. |
| | f | 11 33 0 | .. | .. | |
| ,, 7-8th | P | 22 49 55 | .. | .. | |
| | S | 22 55 24 | .. | .. | |
| | L | 23 0 13 | .. | .. | |
| | M | 23 2 58 | 10 | 32 | |
| | F | 0 15 0 | .. | .. | |
| ,, 8th | P | 18 18 6 | .. | .. | |
| | S | 18 21 37 | .. | .. | |
| | L | 18 23 43 | .. | .. | |
| | M | 18 27 13 | 7 | 4 | |
| | F | 18 59 0 | .. | .. | |
| ,, 9th | P | 18 11 8 | .. | .. | |
| | S | 18 15 48 | .. | .. | |
| | L | Movements very quick. | | | |
| | M | 18 55 31 | 10 | 98 | |
| | F | 22 38 0 | .. | .. | |
| ,, 10th | P | 3 23 38 | .. | .. | |
| | S | 3 28 20 | .. | .. | |
| | L | 3 31 50 | .. | .. | |
| | M | 3 36 49 | 9 | 6 | |
| | F | 5 13 0 | .. | .. | |
| ,, 10th | P | 5 58 54 | .. | .. | |
| | S | 6 3 44 | .. | .. | |
| | L | 6 7 34 | .. | .. | |
| | M | 6 12 14 | 12 | 4 | |
| | F | 7 2 0 | .. | .. | |
| ,, 12th | e | 8 52 0 | .. | .. | Tremors. |
| | f | 9 34 0 | .. | .. | |
| ,, 13th | P | 1 43 18 | .. | .. | |
| | S | 1 47 54 | .. | .. | |
| | L | 1 51 6 | .. | .. | |
| | M | 1 56 23 | 12 | 4 | |
| | F | Lost during shifting time. | | | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Mar. 13th | P | 18 44 32 | .. | .. | |
| | S | 18 54 17 | .. | .. | |
| | L | 19 12 37 | .. | .. | |
| | M | Lost in hourly time mark. | | | |
| | F | 20 12 0 | .. | .. | |
| ,, 16th | P | 5 15 9 | .. | .. | |
| | S | 5 25 39 | .. | .. | |
| | L | 5 46 39 | .. | .. | |
| | M | 6 11 34 | 19 | 92 | |
| | F | 9 16 0 | .. | .. | |
| ,, 18th | P | 1 38 14 | .. | .. | |
| | S | 1 42 57 | .. | .. | |
| | L | 1 46 34 | .. | .. | |
| | M | 1 48 4 | 8 | 1 | |
| | F | 2 12 0 | .. | .. | |
| ,, 18th | e | 3 30 0 | .. | .. | Tremors. |
| | f | 4 56 0 | .. | .. | |
| ,, 18th | P | 12 22 59 | .. | .. | |
| | Se | 12 32 49 | .. | .. | |
| | L | 12 51 44 | .. | .. | |
| | M | 13 9 59 | 19 | 3 | |
| | F | 14 1 0 | .. | .. | |
| ,, 19th | P | 10 6 34 | .. | .. | |
| | S | 10 10 4 | .. | .. | |
| | L | 10 12 7 | .. | .. | |
| | M | 10 16 24 | 14 | 5 | |
| | F | 11 17 0 | .. | .. | |
| ,, 20th | e | 21 19 0 | .. | .. | Tremors. |
| | f | 21 53 0 | .. | .. | |
| ,, 21st | Pe | 4 5 19 | .. | .. | |
| | S | 4 9 44 | .. | .. | |
| | L | 4 11 44 | .. | .. | |
| | M | 4 12 16 | 13 | 2 | |
| | F | 4 27 0 | .. | .. | |
| ,, 22nd | P | 4 36 37 | .. | .. | |
| | S | 4 50 1 | .. | .. | |
| | L | 5 26 41 | .. | .. | |
| | M | 5 45 11 | 20 | 13 | |
| | F | 8 16 0 | .. | .. | |
| ,, 23rd | e | 20 32 0 | .. | .. | Tremors. |
| | f | 22 49 0 | .. | .. | |
| ,, 26th | Pe | 5 35 1 | .. | .. | |
| | S | 5 43 31 | .. | .. | |
| | L | 5 56 41 | .. | .. | |
| | M | 5 59 31 | 17 | 6 | |
| | F | 6 35 0 | .. | .. | |

TABLE E 2—*contd.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Mar. 26th | Pe | 6 54 11 | .. | .. | |
| | S | 7 0 31 | .. | .. | |
| | L | 7 7 31 | .. | .. | |
| | M | 7 17 11 | 16 | 4 | |
| | F | 7 47 0 | .. | .. | |
| ,, 26th | P | 8 23 21 | .. | .. | Feeble shock. |
| | S | 8 29 11 | .. | .. | |
| | Le | 8 35 41 | .. | .. | |
| | F | 10 0 0 | .. | .. | |
| ,, 27th | P | 14 47 2 | .. | .. | Feeble shock |
| | S | 14 53 22 | .. | .. | |
| | Le | 15 1 47 | .. | .. | |
| | F | 15 19 0 | .. | .. | |
| ,, 27th | P | 19 16 17 | .. | .. | |
| | S | 19 23 49 | .. | .. | |
| | Le | 19 32 57 | .. | .. | |
| | M | 19 33 17 | 24 | 11 | |
| | F | 20 45 0 | .. | .. | |
| ,, 29th | P | 5 15 30 | .. | .. | |
| | S | 5 23 0 | .. | .. | |
| | L | 5 34 5 | .. | .. | |
| | M | 5 41 12 | 18 | 9 | |
| | F | 7 3 0 | .. | .. | |
| ,, 31st | P | 0 37 54 | .. | .. | |
| | S | 0 44 31 | .. | .. | |
| | L | 0 52 31 | .. | .. | |
| | M | 0 59 1 | 20 | 10 | |
| | F | 2 49 0 | .. | .. | |
| Apl. 3rd | e | 17 7 0 | .. | .. | Tremors. |
| | f | 18 11 0 | .. | .. | |
| ,, 4th | e | 6 8 0 | .. | .. | Feeble local shock. |
| | f | 6 9 0 | .. | .. | |
| ,, 4th | e | 6 28 0 | .. | .. | Feeble local shock. |
| | f | 6 29 0 | .. | .. | |
| ,, 4th | e | 6 35 0 | .. | .. | Feeble local shock. |
| | f | 6 36 0 | .. | .. | |
| ,, 4th | e | 9 17 0 | .. | .. | Feeble local s.. ock. |
| ,, 4th | f | 9 18 0 | .. | .. | |
| ,, 7th | e | 20 39 0 | .. | .. | Tremors. |
| | f | 21 22 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Apl. 9th | P | 17 53 51 | .. | .. | |
| | Se | 18 5 49 | .. | .. | |
| | L | 18 34 39 | .. | .. | |
| | M | 19 2 6 | 20 | 10 | |
| | F | 20 15 0 | .. | .. | |
| ,, 10th | e | 21 55 0 | .. | .. | Tremors. |
| | f | 22 8 0 | .. | .. | |
| ,, 11th | P | 10 1 7 | .. | .. | Feeble shock. |
| | S | 10 3 23 | .. | .. | |
| | L | 10 4 23 | .. | .. | |
| | F | 10 32 0 | .. | .. | |
| ,, 12th | P | 12 29 42 | .. | .. | Feeble shock. |
| | S | 12 33 7 | .. | .. | |
| | Le | 12 34 42 | .. | .. | |
| | F | 12 41 0 | .. | .. | |
| ,, 13—14th | e | 23 36 0 | .. | .. | Tremors. |
| | f | 1 6 0 | .. | .. | |
| ,, 14th | P | 9 8 26 | .. | .. | |
| | S | 9 15 13 | .. | .. | |
| | L | 9 23 50 | .. | .. | |
| | M | 9 29 33 | 12 | 8 | |
| | F | 11 37 0 | .. | .. | |
| ,, 14th | e | 13 28 0 | .. | .. | Tremors. |
| | f | 13 55 0 | .. | .. | |
| ,, 15th | e | 18 29 0 | .. | .. | Feeble local shock. |
| | f | 18 30 0 | .. | .. | |
| ,, 16th | e | 20 6 0 | .. | .. | Tremors. |
| | f | 20 36 0 | .. | .. | |
| ,, 17th | P | 3 44 52 | .. | .. | |
| | Se | 3 55 6 | .. | .. | |
| | L | 4 30 56 | .. | .. | |
| | M | 4 56 16 | 19 | 6 | |
| | F | 5 43 0 | .. | .. | |
| ,, 18th | P | 19 31 32 | .. | .. | |
| | S | 19 38 32 | .. | .. | |
| | L | 19 47 44 | .. | .. | |
| | M | 19 47 57 | 10 | 10 | |
| | F | 21 34 0 | .. | .. | |
| ,, 22nd | P | 20 22 53 | .. | .. | |
| | S | 20 29 53 | .. | .. | |
| | L | 20 39 6 | .. | .. | |
| | M | 20 45 23 | 15 | 4 | |
| | F | 21 19 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Apl. 24th | e | 14 21 0 | .. | .. | Tremors. |
| | f | 14 37 0 | .. | .. | |
| ,, 24th | P | 20 0 14 | .. | .. | Feeble shock. |
| | S | 20 4 46 | .. | .. | |
| | L | 20 7 29 | .. | .. | |
| | F | 20 26 0 | .. | .. | |
| ,, 25th | P | 1 21 17 | .. | .. | |
| | S | 1 24 44 | .. | .. | |
| | L | 1 26 25 | .. | .. | |
| | M | 1 28 52 | 10 | 1 | |
| | F | Lost during shifting time. | | | |
| ,, 27th | Pe | 20 55 31 | .. | .. | |
| | S | 21 8 16 | .. | .. | |
| | L | 21 37 31 | .. | .. | |
| | M | 22 8 55 | 20 | 4 | |
| | F | 22 45 0 | .. | .. | |
| May 1st | e | 1 25 0 | .. | .. | Tremors. |
| | f | 1 50 0 | .. | .. | |
| ,, 1st | P | 19 17 22 | .. | .. | |
| | S | 19 25 45 | .. | .. | |
| | L | 19 39 30 | .. | .. | |
| | M | 19 42 19 | 10 | 2 | |
| | F | 20 13 0 | .. | .. | |
| ,, 2nd | P | 22 2 32 | .. | .. | |
| | S | 22 8 58 | .. | .. | |
| | L | 22 16 20 | .. | .. | |
| | M | 22 24 3 | 19 | 5 | |
| | F | 23 5 0 | .. | .. | |
| ,, 5th | e | 13 52 41 | .. | .. | Very feeble shock. |
| | M | 13 59 18 | 11 | 2 | |
| | f | 14 13 0 | .. | .. | |
| ,, 8th | P | 4 56 5 | .. | .. | |
| | S | 5 4 12 | .. | .. | |
| | L | 5 17 7 | .. | .. | |
| | M | 5 24 30 | 8 | 1 | |
| | F | 6 5 0 | .. | .. | |
| ,, 14-15th | P | 22 34 37 | .. | .. | |
| | S | 22 48 37 | .. | .. | |
| | L | 23 34 37 | .. | .. | |
| | M | 23 52 32 | 20 | 48 | |
| | F | 2 14 0 | .. | .. | |
| ,, 15th | P | 2 56 11 | .. | .. | |
| | S | 3 10 1 | .. | .. | |
| | L | 3 50 31 | .. | .. | |
| | M | 4 7 11 | 18 | 3 | |
| | F | 4 49 0 | .. | .. | |

TABLE E 2—*contd.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| May 19th | P | 3 33 14 | .. | .. | |
| | S | 3 37 2 | .. | .. | |
| | L | 3 39 19 | .. | .. | |
| | M | 3 41 26 | 8 | 4 | |
| | F | 4 20 0 | .. | .. | |
| „ 19th | e | 9 42 0 | .. | .. | Tremors. |
| | f | 10 34 0 | .. | .. | |
| „ 20th | P | 16 39 24 | .. | .. | Feeble shock. |
| | S | 16 47 38 | .. | .. | |
| | Le | 17 5 33 | .. | .. | |
| | F | 17 38 0 | .. | .. | |
| „ 25th | e | 5 0 0 | .. | .. | Feeble local shock. |
| | f | 5 2 0 | .. | .. | |
| „ 27th | P | 1 2 24 | .. | .. | |
| | S | 1 4 3 | .. | .. | |
| | L | 1 4 39 | .. | .. | |
| | M | 1 4 59 | 5 | 7 | |
| | F | 1 21 0 | .. | .. | |
| 27th | P | 10 0 47 | .. | .. | |
| | S | 10 9 3 | .. | .. | |
| | L | 10 22 58 | .. | .. | |
| | M | 10 26 47 | 20 | 77 | |
| | F | 13 34 0 | .. | .. | |
| 28th | P | 15 46 8 | .. | .. | |
| | Se | 15 54 33 | .. | .. | |
| | L | 16 8 9 | .. | .. | |
| | M | 16 15 47 | 14 | 6 | |
| | F | 16 49 0 | .. | .. | |
| „ 29th | Pe | 12 31 30 | .. | .. | |
| | S | 12 36 0 | .. | .. | |
| | L | 12 39 0 | .. | .. | |
| | M | 12 46 22 | 8 | 3 | |
| | F | 13 20 0 | .. | .. | |
| „ 31-June 1st | P | 23 24 9 | .. | .. | |
| | S | 23 42 34 | .. | .. | |
| | L | 23 56 19 | .. | .. | |
| | M | 0 5 39 | 16 | 10 | |
| | F | Lost in shifting time. | | | |
| June 1st | e | 12 43 0 | .. | .. | Tremors. |
| | f | 13 19 0 | .. | .. | |

| Date. | Phase. | Time G. M. T | Period (Sec.) | Apmlitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| June 1st | P | 13 22 48 | .. | .. | |
| | S | 13 31 20 | .. | .. | |
| | L | 13 45 13 | .. | .. | |
| | M | 13 52 29 | 12 | 11 | |
| | F | 15 14 0 | .. | .. | |
| „ 3rd | P | 8 40 0 | .. | .. | |
| | S | 8 47 43 | .. | .. | |
| | L | 8 58 52 | .. | .. | |
| | M | 9 2 3 | 15 | 10 | |
| | F | 10 14 0 | .. | .. | |
| „ 3rd | P | 23 29 7 | .. | .. | Local shock. |
| | M | 23 30 5 | .. | .. | |
| | F | 23 40 0 | .. | .. | |
| „ 4th | e | 2 6 0 | .. | .. | Feeble local shock. |
| | f | 2 11 0 | .. | .. | |
| „ 5th | e | 6 23 0 | .. | .. | Tremors. |
| | f | 6 44 0 | .. | .. | |
| „ 6th | e | 3 4 0 | .. | .. | Feeble local shock. |
| | f | 3 5 0 | .. | .. | |
| „ 6th | e | 4 9 0 | .. | .. | Feeble local shock. |
| | f | 4 10 0 | .. | .. | |
| „ 8th | e | 15 50 0 | .. | .. | Tremors. |
| | f | 16 5 0 | .. | .. | |
| „ 11th | e | 6 17 0 | .. | .. | Tremors. |
| | f | 6 30 0 | .. | .. | |
| „ 15th | P | 6 21 11 | .. | .. | |
| | S | 6 27 49 | .. | .. | |
| | L | 6 35 51 | .. | .. | |
| | M | 6 43 8 | 16 | 21 | |
| | F | 8 1 0 | .. | .. | |
| „ 15th | P | 17 25 3 | .. | .. | |
| | S | 17 31 44 | .. | .. | |
| | L | 17 39 46 | .. | .. | |
| | M | 17 45 10 | 17 | 19 | |
| | F | 18 55 0 | .. | .. | |
| „ 17th | P | 3 39 0 | .. | .. | |
| | S | 3 52 36 | .. | .. | |
| | L | 4 31 36 | .. | .. | |
| | M | 4 48 22 | 28 | 287 | |
| | F | 7 19 0 | .. | .. | |
| „ 19th | e | 4 18 0 | .. | .. | Feeble local shock. |
| | f | 4 19 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| June 21st | P | 11 0 48 | .. | .. | |
| | S | 11 11 32 | .. | .. | |
| | L | 11 33 1 | .. | .. | |
| | M | 11 54 26 | 18 | 14 | |
| | F | 13 55 0 | .. | .. | |
| „ 21st | P | 16 40 37 | .. | .. | |
| | S | 16 51 14 | .. | .. | |
| | L | 17 12 49 | .. | .. | |
| | M | 17 28 57 | 19 | 30 | |
| | F | 19 46 0 | .. | .. | |
| „ 24th | P | 4 38 34 | .. | .. | |
| | S | 4 40 36 | .. | .. | |
| | L | 4 43 4 | .. | .. | |
| | M | 4 47 9 | 10 | 8 | |
| | F | 5 18 0 | .. | .. | |
| „ 28th | P | 1 33 10 | .. | .. | |
| | S | 1 37 50 | .. | .. | |
| | L | 1 41 20 | .. | .. | |
| | M | 1 47 46 | 10 | 3 | |
| | F | 2 12 0 | .. | .. | |
| „ 29-30th | P | 23 5 45 | .. | .. | |
| | S | 23 15 23 | .. | .. | |
| | L | 23 33 28 | .. | .. | |
| | M | 23 46 0 | 20 | 15 | |
| | F | 1 32 0 | .. | .. | |
| July 1st | e | 17 8 0 | .. | .. | Tremors. |
| | f | 17 19 0 | .. | .. | |
| „ 4th | P | 17 57 47 | .. | .. | |
| | S | 18 1 6 | .. | .. | |
| | L | 18 2 42 | .. | .. | |
| | M | 18 6 31 | 14 | 5 | |
| | F | 18 32 0 | .. | .. | |
| „ 6th | P | 0 52 22 | .. | .. | |
| | S | 0 56 46 | .. | .. | |
| | L | 0 59 51 | .. | .. | |
| | M | 1 4 12 | 20 | 6 | |
| | F | 1 23 0 | .. | .. | |
| „ 6th | e | 1 53 0 | .. | .. | Tremors. |
| | f | 2 5 0 | .. | .. | |
| „ 6th | P | 20 32 8 | .. | .. | |
| | S | 20 33 58 | .. | .. | |
| | L | 20 34 38 | .. | .. | |
| | M | 20 36 3 | 9 | 2 | |
| | F | 20 45 0 | .. | .. | |

TABLE E 2—*contd.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| July 9th | P | 15 56 54 | .. | .. | |
| | S | 15 59 22 | .. | .. | |
| | L | 16 0 32 | .. | .. | |
| | M | 16 0 45 | 8 | 5 | |
| | F | 16 17 0 | .. | .. | |
| ,, 9th | P | 21 37 1 | .. | .. | |
| | S | 21 47 13 | .. | .. | |
| | L | 22 7 14 | .. | .. | |
| | M | 22 32 9 | 15 | 5 | |
| | F | 23 21 0 | .. | .. | |
| ,, 11th | e | 3 58 0 | .. | .. | Tremors. |
| | f | 4 18 0 | .. | .. | |
| ,, 13th | e | 10 24 0 | .. | .. | Tremors. |
| | f | 10 37 0 | .. | .. | |
| ,, 18th | P | 19 25 3 | .. | .. | |
| | S | 19 35 37 | .. | .. | |
| | L | 19 57 16 | .. | .. | |
| | M | Loss of record owing to the speck going out of paper. | | | |
| | F | Loss of record owing to the speck going out of paper. | | | |
| ,, 27th | P | 15 28 34 | .. | .. | |
| | S | 15 32 57 | .. | .. | |
| | L | 15 36 4 | .. | .. | |
| | M | 15 41 18 | 20 | 7 | |
| | F | 16 5 0 | .. | .. | |
| ,, 31st | e | 1 0 0 | .. | .. | Tremors. |
| | f | 1 33 0 | .. | .. | |
| Aug. 4th | P | 18 45 49 | .. | .. | |
| | S | 18 59 15 | .. | .. | |
| | L | 19 35 15 | .. | .. | |
| | M | 19 58 44 | 19 | 44 | |
| | F | 21 21 0 | .. | .. | |
| ,, 5th | Pe | 14 52 24 | .. | .. | Feeble shock. |
| | S | 14 56 44 | .. | .. | |
| | L | 14 59 34 | .. | .. | |
| | F | 15 32 0 | .. | .. | |
| ,, 6th | e | 18 26 0 | .. | .. | Tremors. |
| | f | 18 34 0 | .. | .. | |
| ,, 8th | P | 2 32 24 | .. | .. | |
| | Se | 2 37 26 | .. | .. | |
| | L | 2 41 19 | .. | .. | |
| | M | 2 44 9 | 15 | 3 | |
| | F | 3 12 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Aug. 10th | P | 15 37 41 | .. | .. | |
| | S | 15 40 55 | .. | .. | |
| | L | 15 42 32 | .. | .. | |
| | M | 15 45 25 | 7 | 4 | |
| | F | 16 5 0 | .. | .. | |
| ,, 12th | P | 8 18 20 | .. | .. | |
| | S | 8 25 56 | .. | .. | |
| | L | 8 37 3 | .. | .. | |
| | M | 8 47 32 | 12 | 3 | |
| | F | 9 11 0 | .. | .. | |
| ,, 15th | e | 17 38 0 | .. | .. | Tremors. |
| | f | 18 21 0 | .. | .. | |
| ,, 19th | P | 3 57 10 | .. | .. | |
| | S | 4 0 59 | .. | .. | |
| | L | 4 3 12 | .. | .. | |
| | M | 4 3 33 | 10 | 3 | |
| | F | 4 25 0 | .. | .. | |
| ,, 21st | P | 19 7 8 | .. | .. | |
| | S | 19 11 8 | .. | .. | |
| | Le | 19 13 25 | .. | .. | |
| | M | 19 17 11 | 16 | 7 | |
| | F | 19 32 0 | .. | .. | |
| ,, 23rd | P | 3 58 44 | .. | .. | |
| | S | 4 2 57 | .. | .. | |
| | L | 4 5 56 | .. | .. | |
| | M | 4 10 59 | 9 | 9 | |
| | $F_1$ | 4 23 0 | .. | .. | |
| ,, 24th | e | 0 31 0 | .. | .. | Tremors. |
| | f | 0 46 0 | .. | .. | |
| ,, 24th | P | 6 16 24 | .. | .. | |
| | F | 6 18 41 | .. | .. | |
| | L | 6 19 44 | .. | .. | |
| | M | 6 20 42 | 10 | 2 | |
| | F | 6 28 0 | .. | .. | |
| ,, 24th | Pe | 22 1 49 | .. | .. | |
| | S | 22 7 22 | .. | .. | |
| | L | 22 12 9 | .. | .. | |
| | M | 22 13 54 | 9 | 2 | |
| | F | 23 18 0 | .. | .. | |
| Sept. 1st | P | 6 11 32 | .. | .. | |
| | S | 6 13 56 | .. | .. | |
| | L | 6 14 56 | .. | .. | |
| | M | Lost owing to stoppage of Driving clock. | | | |
| | F | 8 14 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Sept. 2nd | e | 1 22 0 | .. | .. | Tremors. |
| | f | 1 31 0 | .. | .. | |
| ,, 6th | P | 6 50 25 | .. | .. | |
| | S | 6 56 40 | .. | .. | |
| | Le | 7 3 40 | .. | .. | |
| | M | 7 8 57 | 12 | 2 | |
| | F | 7 35 0 | .. | .. | |
| ,, 6th | e | 10 32 0 | .. | .. | Feeble local shock. |
| | f | 10 33 0 | .. | .. | |
| ,, 7th | P | 3 1 0 | .. | .. | |
| | Se | 3 10 35 | .. | .. | |
| | Le | 3 27 35 | .. | .. | |
| | M | 3 36 5 | 30 | 6 | |
| | F | 4 18 0 | .. | .. | |
| ,, 10th | e | 17 35 0 | .. | .. | Tremors. |
| | f | 17 54 0 | .. | .. | |
| ,, 11th | Pe | 0 49 33 | .. | .. | Feeble shock. |
| | S | 0 59 40 | .. | .. | |
| | L | 1 19 10 | .. | .. | |
| | F | 1 39 0 | .. | .. | |
| ,, 11th | P | 12 56 36 | .. | .. | |
| | S | 13 8 1 | .. | .. | |
| | L | 13 33 6 | .. | .. | |
| | M | 13 45 36 | 25 | 7 | |
| | F | 15 10 0 | .. | .. | |
| ,, 12th | P | 1 38 36 | .. | .. | Very feeble shock. |
| | F | 2 46 0 | .. | .. | |
| 13th | P | 3 35 57 | .. | .. | |
| | S | 3 43 29 | .. | .. | |
| | L | 3 54 18 | .. | .. | |
| | M | 3 58 14 | 28 | 19 | |
| | F | 4 54 0 | .. | .. | |
| ,, 13th | e | 21 49 0 | .. | .. | Tremors. |
| | f | 22 2 0 | .. | .. | |
| ,, 14th | P | 5 50 41 | .. | .. | |
| | S | 5 51 39 | .. | .. | |
| | L | 5 51 59 | .. | .. | |
| | M | 5 52 8 | 8 | 2 | |
| | F | 6 0 0 | .. | .. | |
| ,, 18th | P | 17 43 54 | .. | .. | |
| | S | 17 50 32 | .. | .. | |
| | L | 17 59 42 | .. | .. | |
| | M | 17 59 54 | 28 | 23 | |
| | F | 19 41 0 | .. | .. | |

TABLE E 2—*contd.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Sept. 18th | P | 19 57 24 | .. | .. | |
| | S | 20 1 24 | .. | .. | |
| | L | 20 3 48 | .. | .. | |
| | M | 20 3 54 | 10 | 11 | |
| | F | 21 44 0 | .. | .. | |
| ,, 20th | e | 10 23 0 | .. | .. | Tremors. |
| | f | 11 5 0 | .. | .. | |
| ,, 22nd | P | 7 45 7 | .. | .. | |
| | S | 7 56 10 | .. | .. | |
| | L | 8 20 23 | .. | .. | |
| | M | 8 47 13 | 16 | 6 | |
| | F | 11 20 0 | .. | .. | |
| ,, 24th | P | 9 29 21 | .. | .. | Feeble shock. |
| | S | 9 31 52 | .. | .. | |
| | L | 9 32 58 | .. | .. | |
| | F | 10 6 0 | .. | .. | |
| ,, 25th | P | 8 13 53 | .. | .. | |
| | S | 8 23 15 | .. | .. | |
| | L | 8 40 32 | .. | .. | |
| | M | 8 49 22 | 15 | 3 | |
| | F | 9 29 0 | .. | .. | |
| Oct. 4th | Pe | 18 30 19 | .. | .. | |
| | S | 18 36 6 | .. | .. | |
| | L | 18 41 36 | .. | .. | |
| | M | 18 43 41 | 10 | 3 | |
| | F | 19 34 0 | .. | .. | |
| ,, 9th | P | 3 20 46 | .. | .. | |
| | S | 3 34 11 | .. | .. | |
| | L | 4 10 36 | .. | .. | |
| | M | 4 30 16 | 25 | 130 | |
| | F | 6 34 0 | .. | .. | |
| ,, 12th | P | 7 34 43 | .. | .. | Feeble shock. |
| | Se | 7 37 43 | .. | .. | |
| | L | 7 39 11 | .. | .. | |
| | F | 7 49 0 | .. | .. | |
| ,, 12th | Pe | 7 51 8 | .. | .. | Very feeble shock. |
| | M | 8 13 53 | 18 | 5 | |
| | F | 9 12 0 | .. | .. | |
| ,, 13th | P | 15 34 11 | .. | .. | |
| | S | 15 39 31 | .. | .. | |
| | L | 15 44 11 | .. | .. | |
| | M | 15 49 41 | 18 | 4 | |
| | F | 16 15 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Oct. 15th | Pe | 8 49 42 | .. | .. | Feeble shock. |
| | S | 8 53 14 | .. | .. | |
| | L | 8 55 12 | .. | .. | |
| | F | 10 12 0 | .. | .. | |
| ,, 15th | P | 14 22 14 | .. | .. | |
| | S | 14 25 14 | .. | .. | |
| | L | Movements very quick. | | | |
| | M | Movements very quick. | | | |
| | F | 16 51 0 | .. | .. | |
| ,, 17th | Pe | 16 47 44 | .. | .. | |
| | S | 16 58 51 | .. | .. | |
| | L | 17 22 31 | .. | .. | |
| | M | 17 29 31 | 20 | 5 | |
| | F | 18 55 0 | .. | .. | |
| ,, 19th | Pe | 10 37 7 | .. | .. | |
| | S | 10 48 37 | .. | .. | |
| | L | 11 14 2 | .. | .. | |
| | M | 11 26 2 | 19 | 6 | |
| | F | 12 29 0 | .. | .. | |
| ,, 20th | Pe | 12 58 42 | .. | .. | |
| | S | 13 6 2 | .. | .. | |
| | L | 13 15 42 | .. | .. | |
| | M | 13 20 34 | 19 | 4 | |
| | F | 14 11 11 | .. | .. | |
| ,, 21st | Pe | 13 15 18 | .. | .. | Local Shock. |
| | S | 13 16 52 | .. | .. | |
| | L | 13 17 29 | .. | .. | |
| | M | 13 21 53 | 7 | 3 | |
| | F | 13 42 0 | .. | .. | |
| ,, 22nd | Pe | 3 47 31 | .. | .. | |
| | S | 3 49 14 | .. | .. | |
| | L | 3 49 56 | .. | .. | |
| | M | 3 53 47 | 8 | 2 | |
| | F | 4 16 0 | .. | .. | |
| ,, 23rd | P | 18 3 34 | .. | .. | |
| | S | 18 12 52 | .. | .. | |
| | L | 18 29 45 | .. | .. | |
| | M | 18 31 47 | 30 | 15 | |
| | F | 19 19 0 | .. | .. | |
| ,, 25th | P | 12 42 47 | .. | .. | |
| | S | 12 47 53 | .. | .. | |
| | L | 12 51 58 | .. | .. | |
| | M | 12 57 51 | 12 | 4 | |
| | F | Lost in the following shock. | | | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Oct. 25th | Pe | 13 32 36 | .. | .. | |
| | S | 13 39 56 | .. | .. | |
| | L | 13 50 36 | .. | .. | |
| | M | 14 4 26 | 20 | 7 | |
| | F | 14 54 0 | .. | .. | |
| ,, 31st | e | 20 41 0 | .. | .. | Tremors. |
| | f | 21 5 0 | .. | .. | |
| Nov. 1st | P | 4 32 19 | .. | .. | |
| | S | 4 34 44 | .. | .. | |
| | L | 4 35 49 | .. | .. | |
| | M | 4 35 54 | 5 | 2 | |
| | F | 5 10 0 | .. | .. | |
| ,, 1st | Pe | 5 15 9 | .. | .. | Feeble shock. |
| | Se | 5 23 15 | .. | .. | |
| | L | 5 34 59 | .. | .. | |
| | F | 6 28 0 | .. | .. | |
| ,, 5th | e | 11 18 0 | .. | .. | Feeble local shock. |
| | f | 11 19 0 | .. | .. | |
| ,, 6th | P | 4 23 12 | .. | .. | |
| | S | 4 30 49 | .. | .. | |
| | L | 4 42 13 | .. | .. | |
| | M | 5 0 49 | 25 | 15 | |
| | F | 6 56 0 | .. | .. | |
| ,, 10th | Pe | 12 44 42 | .. | .. | Very feeble shock. |
| | F | 14 27 0 | .. | .. | |
| ,, 11-12th | P | 22 50 27 | .. | .. | |
| | S | 22 58 4 | .. | .. | |
| | L | 23 9 27 | .. | .. | |
| | M | 23 9 47 | 18 | 12 | |
| | F | 0 48 0 | .. | .. | |
| ,, 13th | e | 4 0 0 | .. | .. | Feeble local shock. |
| | f | 4 2 0 | .. | .. | |
| ,, 14th | P | 4 36 46 | .. | .. | |
| | S | 4 39 46 | .. | .. | |
| | L | 4 41 23 | .. | .. | |
| | M | 4 43 11 | 5 | 12 | |
| | F | 5 31 0 | .. | .. | |
| ,, 15th | e | 2 45 0 | .. | .. | Tremors. |
| | f | 3 26 0 | .. | .. | |
| ,, 15th | P | 15 43 19 | .. | .. | |
| | S | 15 45 1 | .. | .. | |
| | L | 15 45 36 | .. | .. | |
| | M | 15 45 47 | 5 | 2 | |
| | F | 16 3 0 | .. | .. | |

TABLE E 2—*concld.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Nov. 16th | Pe | 11 13 35 | .. | .. | |
| | S | 11 18 31 | .. | .. | |
| | L | 11 21 11 | .. | .. | |
| | M | 11 21 17 | 6 | 5 | |
| | F | 11 53 0 | .. | .. | |
| ,, 20th | P | 20 54 53 | .. | .. | |
| | S | 21 8 29 | .. | .. | |
| | L | 21 46 57 | .. | .. | |
| | M | 21 59 27 | 18 | 18 | |
| | F | 23 22 0 | .. | .. | |
| ,, 21st | P | 17 7 20 | .. | .. | |
| | S | 17 15 6 | .. | .. | |
| | L | 17 27 1 | .. | .. | |
| | M | 17 30 21 | 16 | 3 | |
| | F | 18 20 0 | .. | .. | |
| ,, 22nd | P | 8 45 32 | .. | .. | |
| | S | 8 56 26 | .. | .. | |
| | L | 9 19 1 | .. | .. | |
| | M | 9 20 55 | 19 | 11 | |
| | F | 10 34 0 | .. | .. | |
| ,, 28th | P | 10 52 42 | .. | .. | |
| | S | 11 0 26 | .. | .. | |
| | L | 11 11 47 | .. | .. | |
| | M | 11 20 22 | 15 | 41 | |
| | F | Lost owing to stoppage of driving clock. | | | |
| ,, 29th | Pe | 16 4 51 | .. | .. | |
| | S | 16 16 51 | .. | .. | |
| | L | 16 45 16 | .. | .. | |
| | M | 16 57 19 | 18 | 4 | |
| | F | 17 39 0 | .. | .. | |
| ,, 29th | P | 18 17 52 | .. | .. | |
| | S | 18 29 53 | .. | .. | |
| | L | 18 57 51 | .. | .. | |
| | M | 19 13 14 | 18 | 11 | |
| | F | 21 9 0 | .. | .. | |
| ,, 29-30th | Pe | 23 28 0 | .. | .. | |
| | Se | 23 40 15 | .. | .. | |
| | L | 0 10 35 | .. | .. | |
| | M | 0 23 0 | 19 | 4 | |
| | F | 0 49 0 | .. | .. | |
| Dec. 1st | P | 4 25 49 | .. | .. | |
| | S | 4 39 32 | .. | .. | |
| | L | 5 19 18 | .. | .. | |
| | M | 5 24 43 | 20 | 86 | |
| | F | 9 35 0 | .. | .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Dec. 1st | Pe | 18 52 26 | .. | .. | Very feeble shock. |
| | F | 20 35 0 | .. | .. | |
| ,, 2nd | P | 4 40 2 | .. | .. | |
| | S | 4 53 46 | .. | .. | |
| | L | 5 33 30 | .. | .. | |
| | M | 5 43 5 | 20 | 13 | |
| | F | 8 18 0 | .. | .. | |
| ,, 9th | P | 0 10 38 | .. | .. | |
| | S | 0 21 14 | .. | .. | |
| | L | 0 42 40 | .. | .. | |
| | M | 1 10 2 | 16 | 3 | |
| | F | 1 56 0 | | .. | |
| ,, 9th | P | 5 18 17 | .. | .. | |
| | S | 5 28 53 | .. | .. | |
| | L | 5 50 19 | .. | .. | |
| | M | 6 18 2 | 18 | 5 | |
| | F | 7 5 0 | .. | .. | |
| ,, 9th | P | 18 23 42 | .. | .. | |
| | S | 18 34 11 | .. | .. | |
| | L | 18 55 45 | .. | .. | |
| | M | 19 15 54 | 15 | 3 | |
| | F | 20 5 0 | .. | .. | |
| ,, 10th | P | 4 39 47 | .. | .. | |
| | F | 4 44 44 | .. | .. | |
| | L | 4 48 40 | .. | .. | |
| | M | 4 52 15 | 15 | 5 | |
| | F | 5 14 0 | .. | .. | |
| ,, 12th | P | 1 28 18 | .. | .. | |
| | S | 1 31 31 | .. | .. | |
| | L | 1 33 7 | .. | .. | |
| | M | 1 33 38 | 10 | 4 | |
| | F | 2 7 0 | .. | .. | |
| ,, 12th | P | 20 38 20 | .. | .. | |
| | S | 20 50 46 | .. | .. | |
| | L | 21 20 33 | .. | .. | |
| | M | 21 33 58 | 20 | 28 | |
| | F | 23 49 0 | .. | .. | |
| ,, 13th | e | 3 17 0 | .. | .. | Tremors. |
| | f | 3 36 0 | .. | .. | |
| ,, 14th | P | 0 31 9 | .. | .. | |
| | S | 0 33 59 | .. | .. | |
| | L | 0 35 14 | .. | .. | |
| | M | 0 36 29 | 11 | 17 | |
| | F | Lost in the following shock. | | | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Dec. 14th | Pe | 1 12 34 | .. | .. | |
| | S | 1 15 21 | .. | .. | |
| | L | 1 16 39 | .. | .. | |
| | M | 1 18 47 | 8 | 3 | |
| | F | 2 4 0 | .. | .. | |
| ,, 14th | P | 2 6 9 | .. | .. | |
| | S | 2 10 57 | .. | .. | |
| | L | 2 14 41 | .. | .. | |
| | M | 2 26 39 | 15 | 4 | |
| | F | 3 11 0 | .. | .. | |
| ,, 14th | e | 8 47 0 | .. | .. | Feeble local shock. |
| | f | 8 49 0 | .. | .. | |
| ,, 14th | e | 20 1 0 | .. | .. | Tremors. |
| | f | 20 37 0 | .. | .. | |
| ,, 15th | e | 0 19 0 | .. | .. | Tremors. |
| | f | 0 56 0 | .. | .. | |
| ,, 19th | P | 11 46 19 | .. | .. | |
| | S | 11 53 42 | .. | .. | |
| | L | 12 4 14 | .. | .. | |
| | M | 12 13 12 | 16 | 145 | |
| | F | 16 40 0 | .. | .. | |
| ,, 26th | P | 21 52 40 | .. | .. | |
| | S | 21 56 45 | .. | .. | |
| | L | 21 59 30 | .. | .. | |
| | M | 22 2 35 | 8 | 1 | |
| | F | 22 31 0 | .. | .. | |
| ,, 27th | e | 5 45 0 | .. | .. | Tremors. |
| | f | 6 44 0 | .. | .. | |
| ,, 28th | P | 14 28 48 | .. | .. | |
| | S | 14 35 43 | .. | .. | |
| | L | 14 44 38 | .. | .. | |
| | M | 14 45 44 | 28 | 81 | |
| | F | 17 0 0 | .. | .. | |
| ,, 29th | e | 16 56 0 | .. | .. | Tremors. |
| | f | 17 3 0 | .. | .. | |
| ,, 31st | P | 7 43 37 | .. | .. | |
| | S | 7 47 13 | .. | .. | |
| | L | 7 49 15 | .. | .. | |
| | M | 7 50 10 | 7 | 2 | |
| | F | 8 11 0 | .. | .. | |

S. K. BANERJI,
*Meteorologist, Bombay.*

# STATION—CALCUTTA (ALIPORE).

$\varphi$=22° 32′ N; $\lambda$=88° 20′ E; $h$=6·4 m. *Subsoil*—Alluvial.

*Apparatus*—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE E 3.

| | V | To | G | $\frac{I}{To^2}$ |
|---|---|---|---|---|
| AN . . . . . | 29 | 30 | 1 | .. |
| AE . . . . . | 29 | 30 | 1 | .. |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) AN. | Amplitude. (μ) AE. | Remarks. |
|---|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | | |
| Jan. 6th | AN. P | 19 41 48 | 3 | .. | .. | Distant moderate shock. |
| | S | 19 49 37 | 5 | .. | .. | |
| | L | 19 56 43 | 9 | .. | .. | |
| | F | 20 29 15 | .. | .. | .. | |
| „ 21st | AN. P | 15 10 8 | Uncertain | .. | .. | Slight shock. |
| | S | 15 13 28 | .. | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| „ 26th | AN. P | 21 57 25 | 2 | .. | .. | Do. |
| | L | 22 2 56 | Uncertain | .. | .. | |
| | F | 22 22 39 | .. | .. | .. | |
| Feb. 3rd | AN. P | 13 57 0 | Uncertain | .. | .. | Do. |
| | S | 14 4 25 | 3 | .. | .. | |
| | F | 14 35 45 | .. | .. | .. | |
| „ 6th | AN. P | 0 24 47 | Uncertain | .. | .. | Do. |
| | L | 0 26 6 | „ | .. | .. | |
| | F | 0 47 55 | .. | .. | .. | |
| „ 7th | AN. P | 0 6 44 | 2 | .. | .. | Moderate shock. |
| | S | 0 11 14 | 5 | .. | .. | |
| | L | 0 15 58 | Uncertain | .. | .. | |
| | M | 0 20 3 | .. | 1207 | .. | |
| | F | 0 59 14 | .. | .. | .. | |
| „ 11th | AN. P | 16 12 11 | Uncertain | .. | .. | Slight shock. |
| | F | 16 34 51 | .. | .. | .. | |
| „ 25th | AN. P | 17 28 25 | 1 | .. | .. | Do. |
| | S | 17 31 57 | 2 | .. | .. | |
| | F | 17 50 47 | .. | .. | .. | |
| „ 27th | AN. P | 14 30 1 | 1 | .. | .. | Do. |
| | F | 14 54 13 | .. | .. | .. | |
| Mar. 7th | AN. P | 22 48 0 | 3 | .. | .. | Moderate shock. |
| | S | 22 51 26 | 6 | .. | .. | |
| | L | 22 54 56 | Uncertain | .. | .. | |
| | F | 23 14 26 | .. | .. | .. | |
| „ 9th | AN. P | 18 13 4 | Uncertain | .. | .. | Severe shock. |
| | L | 18 17 37 | „ | .. | .. | |
| | F | 20 21 37 | .. | .. | .. | |
| „ 13th | AN. P | 18 42 22 | 2 | .. | .. | Slight shock. |
| | L | 18 51 58 | 4 | .. | .. | |
| | F | 19 12 22 | .. | .. | .. | |
| „ 16th | AN. P | 5 14 20 | 2 | .. | .. | Moderate shock. |
| | S | 5 25 45 | 5 | .. | .. | |
| | F | 6 39 45 | .. | .. | .. | |
| „ 22nd | AE.* P | 4 39 49 | 4 | .. | .. | Severe shock |
| | S | 4 53 37 | Uncertain | .. | .. | |
| | F | 6 52 49 | .. | .. | .. | |
| „ 22nd | AN. P | 4 39 52 | 4 | .. | .. | Do. |
| | S | 4 53 28 | Uncertain | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| „ 26th | AE. P | 5 34 30 | 4 | .. | .. | Moderate shock. |
| | S | 5 44 24 | Uncertain | .. | .. | |
| | F | 6 16 38 | .. | .. | .. | |
| „ 26th | AN. P | 5 34 33 | 3 | .. | .. | Do. |
| | S | 5 44 23 | Uncertain | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| „ 30th | AE. P | 5 13 39 | Uncertain | .. | .. | Do. |
| | S | 5 21 57 | „ | .. | .. | |
| | L | 5 31 37 | „ | .. | .. | |
| | F | 6 2 57 | .. | .. | .. | |
| Mar. 30th | AN. P | 5 13 47 | Uncertain | .. | .. | Moderate shock. |
| | S | 5 23 0 | „ | .. | .. | |
| | F | 5 42 8 | .. | .. | .. | |
| Apl. 14th | AE. | .. | .. | .. | .. | Phases could not be distinguished due to overlapping of lines. |
| „ 14th | AN. P | 9 9 14 | Uncertain | .. | .. | Distant slight shock. |
| | F | Uncertain | .. | .. | .. | |
| „ 18th | AE. P | 19 32 54 | 3 | .. | .. | Distant moderate shock. |
| | S | 19 40 47 | 6 | .. | .. | |
| | F | 20 36 36 | .. | .. | .. | |
| „ 18th | AN. P | 19 32 26 | 3 | .. | .. | Do. |
| | S | 19 40 24 | 5 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| „ 25th | AE. P | 1 21 41 | Uncertain | .. | .. | Slight shock. |
| | S | 1 25 40 | „ | .. | .. | |
| | L | 1 29 3 | „ | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| „ 25th | AN. P | 1 21 42 | Uncertain | .. | .. | Do. |
| | S | 1 25 11 | 2 | .. | .. | |
| | L | 1 29 6 | 3 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| May 8th | AE. P | 4 54 47 | Uncertain | .. | .. | Do. |
| | S | 5 1 37 | „ | .. | .. | |
| | F | 5 27 42 | .. | .. | .. | |
| „ 8th | AN. P | 4 54 47 | 3 | .. | .. | Do. |
| | S | 5 1 38 | 5 | .. | .. | |
| | F | 5 20 57 | .. | .. | .. | |

AE under adjustment.

* Instrument put into working order from 20-3-28.

TABLE E 3—*contd.*

| Date. | Phase. | Time. G. M. T. | Period (Sec.) | Amplitude. (μ) An. AE. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| May 14th | AN. P | 22 35 17 | 3 | .. .. | Distant slight shock. |
| | S | 22 50 3 | Uncertain | .. .. | |
| | F | Uncertain | .. | .. .. | |
| „ 14th | AE | .. | .. | .. .. | Clock of AE stopped. |
| „ 19th | AE. P | 3 31 23 | 1 | .. .. | Slight shock. |
| | S | 3 33 30 | 2 | .. .. | |
| | F | 4 6 27 | .. | .. .. | |
| „ 19th | AN. P | 3 31 24 | 1 | .. .. | Do. |
| | S | 3 33 28 | 2 | .. .. | |
| | F | Uncertain | .. | .. .. | |
| „ 27th | AE. P | 0 57 15 | Uncertain | .. .. | Do. |
| | S | 0 58 21 | „ | .. .. | |
| | F | Uncertain | .. | .. .. | |
| „ 27th | AN. | .. | .. | .. .. | P could not be determined. |
| „ 27th | AE. P | 10 0 15 | 3 | .. .. | Severe shock. |
| | S | 10 7 24 | 5 | .. .. | |
| | L | 10 15 44 | Uncertain | .. .. | |
| | M | 10 24 21 | .. | .. 931 | |
| | F | 11 41 39 | .. | .. .. | |
| „ 27th | AN. P | 10 0 4 | 4 | .. .. | Do. |
| | S | 10 7 18 | 6 | .. .. | |
| | L | 10 15 34 | Uncertain | .. .. | |
| | M | 10 23 20 | .. | 776 .. | |
| | F | Uncertain | .. | .. .. | |
| „ 31st | AE. P | 23 44 29 | Uncertain | .. .. | Distant slight shock. |
| | S | 23 54 54 | „ | .. .. | |
| June 1st | L | 0 7 15 | „ | .. .. | |
| | F | 0 48 29 | .. | .. .. | |
| „ 1st | AN. | .. | .. | .. .. | Could not be calculated owing to overlapping of lines. |
| „ 1st | AE. P | 13 21 1 | 3 | .. .. | Slight shock. |
| | S | 13 28 19 | 5 | .. .. | |
| | L | 13 40 27 | Uncertain | .. .. | |
| | F | 14 15 43 | .. | .. .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An.AE. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| June 1st | AN. P | 13 21 9 | 4 | .. .. | Slight shock. |
| | S | 13 28 27 | 6 | .. .. | Do. |
| | L | 13 40 27 | Uncertain | .. .. | |
| | F | Uncertain | .. | .. .. | |
| „ 3rd | AE. P | 8 41 2 | Uncertain | .. .. | Do. |
| | L | 8 51 52 | „ | .. .. | |
| | F | 9 29 14 | .. | .. .. | |
| „ 3rd | AN. P | 8 41 32 | Uncertain | .. .. | Do. |
| | L | 8 52 17 | „ | .. .. | |
| | F | 9 20 17 | .. | .. .. | |
| „ 15th | AE. P | 6 19 18 | 3 | .. .. | Moderate shock. |
| | S | 6 24 31 | 5 | .. .. | |
| | L | 6 30 13 | 9 | .. .. | |
| | M | 6 34 29 | .. | .. 448 | |
| | F | 7 44 13 | .. | .. .. | |
| „ 15th | AE. P | 17 23 2 | 3 | .. .. | |
| | S | 17 28 36 | 5 | .. .. | |
| | L | 17 34 14 | Uncertain | .. .. | |
| | F | 18 14 14 | .. | .. .. | |
| „ 15th | AN. P | 6 19 28 | 3 | .. .. | |
| | S | 6 24 46 | 5 | .. .. | |
| | L | 6 29 53 | Uncertain | .. .. | |
| | M | 6 35 3 | .. | 448 .. | |
| | F | Uncertain | .. | .. .. | |
| | AN. | .. | .. | .. .. | AN Line conjested phases could not be determined. |
| „ 17th | AE. P | 3 42 24 | 3 | .. .. | Distant severe shock. |
| | S | 4 0 41 | Uncertain | .. .. | |
| | L | 4 26 9 | „ | .. .. | |
| | M | 4 37 33 | .. | .. 1172 | |
| | F | 6 5 41 | .. | .. .. | |
| „ 17th | AN. P | 3 42 24 | 3 | .. .. | Other phases could not be determined owing to tremors throughout the trace. |
| | F | Uncertain | .. | .. .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An.AE. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| June 21st | AE. P | 16 43 46 | 4 | .. .. | Distant slight shock. |
| | S | Uncertain | .. | .. .. | |
| | L | 17 13 46 | Uncertain | .. .. | |
| | F | Uncertain | .. | .. .. | |
| „ 21st | AN. P | 16 43 28 | Uncertain | .. .. | |
| | L | 17 19 57 | „ | .. .. | |
| | F | Uncertain | .. | .. .. | |
| „ 24th | AE P | 4 39 28 | 1 | .. .. | Slight shock. |
| | S | 4 43 11 | 2 | .. .. | |
| | L | 4 46 35 | 4 | .. .. | |
| | F | 5 13 35 | .. | .. .. | |
| „ 24th | AN. P | 4 39 31 | 1 | .. .. | Do. |
| | S | 4 43 10 | 2 | .. .. | |
| | L | Uncertain | .. | .. .. | |
| | F | „ | .. | .. .. | |
| „ 29th | AE. P | 23 2 45 | 3 | .. .. | Do. |
| | S | 23 13 39 | 5 | .. .. | |
| | F | Uncertain | .. | .. .. | |
| „ 29th | AN. P | 23 2 0 | 3 | .. .. | Do. |
| | S | 23 14 28 | 5 | .. .. | |
| | F | Uncertain | .. | .. .. | |
| July 9th | AE. P | 15 50 50 | Uncertain | .. .. | Do. |
| | S | 15 51 49 | 2 | .. .. | |
| | F | 16 20 33 | .. | .. .. | |
| | P | 20 8 23 | Uncertain | .. .. | Do. |
| | S | 20 11 17 | 2 | .. .. | |
| | F | 20 34 33 | .. | .. .. | |
| „ 9th | P | 21 36 47 | 3 | .. .. | Do. |
| | F | Uncertain | .. | .. .. | |
| „ 9th | AN. P | 15 5 0 46 | 1 | .. .. | Do. |
| | S | 15 51 55 | 2 | .. .. | |
| | F | Uncertain | .. | .. .. | |
| „ 9th | P | 20 8 35 | Uncertain | .. .. | Do. |
| | S | 20 11 10 | „ | .. .. | |
| | F | Uncertain | .. | .. .. | |

TABLE E 3—*contd.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An. | Amplitude. (μ) Ae. | Remarks. |
|---|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | | |
| July 9th | AN P | 21 33 35 | Uncertain | .. | .. | Slight shock. |
| | F | Uncertain | .. | .. | .. | |
| Aug. 10th | AE P | 15 38 18 | 1 | .. | .. | |
| | S | 15 41 50 | 2 | .. | .. | |
| | F | 16 8 50 | .. | .. | .. | |
| ,, 10th | AN P | 15 38 10 | 1 | .. | .. | Do. |
| | S | 15 41 46 | 2 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| ,, 12th | AE P | 8 17 0 | 3 | .. | .. | Do. |
| | S | 8 23 24 | 5 | .. | .. | |
| | F | 8 57 16 | .. | .. | .. | |
| ,, 12th | AN P | 8 16 56 | 3 | .. | .. | Do. |
| | S | 8 23 2 | 4 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| ,, 19th | AE P | 4 3 3 | Uncertain | .. | .. | Do. |
| | S | 4 6 11 | 3 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| ,, 19th | AN P | 4 2 56 | Uncertain | .. | .. | Do. |
| | S | 4 6 34 | 3 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| ,, 23rd | AE P | 4 3 6 | Uncertain | .. | .. | |
| | S | 4 6 34 | ,, | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| ,, 23rd | AN P | 4 3 0 | 2 | .. | .. | Do. |
| | F | Uncertain | .. | .. | .. | |
| ,, 24th | AE P | 6 13 19 | Uncertain | .. | .. | Do. |
| | S | 6 13 54 | ,, | .. | .. | |
| | F | 6 23 19 | .. | .. | .. | |
| ,, 24th | AN P | 6 13 6 | Uncertain | .. | .. | Do. |
| | S | 6 13 50 | ,, | .. | .. | |
| | F | 6 29 6 | .. | .. | .. | |
| ,, 30th | AE P | 12 15 37 | Uncertain | .. | .. | Do. |
| | S | 12 17 5 | 3 | .. | .. | |
| | L | 12 18 25 | 5 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| 1928. | | H. M. S. | | | | |
| Aug. 30th | AN P | 12 15 26 | 2 | .. | .. | Slight shock. |
| | S | 12 16 56 | 3 | .. | .. | |
| | L | 12 18 16 | 4 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| Sept. 1st | AE P | 6 12 54 | 1 | .. | .. | Severe shock. |
| | S | 6 16 9 | 2 | .. | .. | |
| | L | 6 18 7 | 4 | .. | .. | |
| | M | 6 21 12 | .. | .. | 1569 | |
| | F | 7 8 32 | .. | .. | .. | |
| ,, 1st | AN P | 6 12 55 | 1 | .. | .. | Do. |
| | S | 6 15 35 | 2 | .. | .. | |
| | L | 6 17 30 | 3 | .. | .. | |
| | F | 6 58 25 | .. | .. | .. | |
| ,, 13th | AE P | 3 40 32 | Uncertain | .. | .. | Slight shock. |
| | L | 3 49 58 | ,, | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| ,, 13th | AN | .. | .. | .. | .. | AN clock stopped. |
| ,, 18th | AN P | 20 0 42 | Uncertain | .. | .. | Slight shock. |
| | L | 20 11 37 | ,, | .. | .. | |
| | F | Uncertain | .. | | .. | |
| ,, 18th | AE | .. | .. | .. | .. | AE clock stopped. |
| Oct. 9th | AE | .. | .. | .. | .. | Phases could not be determined. Line conjested. |
| ,, 9th | AN P | 3 21 10 | 3 | .. | .. | Severe shock. |
| | S | 3 36 50 | Uncertain | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| ,, 12th | AE P | 7 27 45 | Uncertain | .. | .. | Slight shock. |
| | S | 7 29 1 | ,, | .. | .. | |
| | L | 7 30 27 | 3 | .. | .. | |
| | F | Uncertain | .. | .. | .. | |
| ,, 12th | AN P | 7 27 39 | 1 | .. | .. | Do. |
| | S | 7 28 55 | Uncertain | .. | .. | |
| | L | 7 30 27 | 3 | .. | .. | |
| | F | 7 53 55 | .. | .. | .. | |
| ,, 15th | AE P | 14 24 18 | 2 | .. | .. | Severe shock. |
| | S | 14 28 6 | 4 | .. | .. | |
| | L | 14 30 28 | Uncertain | .. | .. | |
| | F | 15 17 6 | .. | .. | .. | |
| 1928. | | H. M. S. | | | | |
| Oct. 15th | AN P | 14 24 16 | 2 | .. | .. | Severe shock. |
| | S | 14 27 42 | 4 | | .. | |
| | L | 14 30 32 | Uncertain | .. | .. | |
| | F | 15 7 16 | .. | .. | .. | |
| Nov. 6th | AE P | 4 18 19 | Uncertain | .. | .. | Slight shock. |
| | L | 4 29 7 | 5 | .. | .. | |
| | F | 5 33 23 | .. | .. | .. | |
| ,, 6th | AN P | 4 18 43 | Uncertain | .. | .. | Do. |
| | L | 4 29 35 | 5 | .. | .. | |
| | F | Uncertain | .. | .. | .. | End in tremors. |
| ,, 11th | AE P | 22 50 50 | 2 | .. | .. | Very slight. |
| | F | 23 49 32 | .. | .. | .. | Phases indistinct. |
| ,, 11th | AN P | 22 51 29 | Uncertain | .. | | Do. |
| | F | 23 5 43 | .. | .. | .. | Do. |
| ,, 14th | AE P | 4 37 19 | 2 | .. | .. | Slight shock. |
| | S | 4 40 45 | 3 | .. | .. | |
| | L | 4 43 12 | 4 | .. | .. | |
| | M | 4 44 2 | .. | .. | 79 | |
| | F | 5 19 52 | .. | .. | .. | |
| ,, 14th | AN P | 4 37 16 | 2 | .. | .. | Do. |
| | S | 4 40 44 | 3 | .. | .. | |
| | L | 4 43 8 | Uncertain | .. | .. | |
| | M | 4 43 51 | .. | 114 | .. | |
| | F | 5 8 8 | .. | .. | .. | |
| ,, 15th | AE P | 15 36 33 | Uncertain | .. | .. | Very slight shock. |
| | S | 15 37 33 | 1·5 | .. | .. | |
| | F | 15 57 13 | .. | .. | .. | |
| ,, 15th | AN P | 15 36 21 | Uncertain | .. | .. | Do. |
| | S | 15 37 29 | ,, | .. | .. | |
| | F | 15 57 29 | .. | .. | .. | |
| ,, 20th | AE P | 20 55 24 | 4 | .. | .. | Slight shock. |
| | S | 21 9 27 | 10 | .. | .. | |
| | L | 22 9 51 | 24 | .. | .. | |
| | F | 22 40 39 | .. | .. | .. | |
| ,, 20th | AN P | 20 55 38 | 3 | .. | .. | Light tremor. |
| | F | 21 13 56 | .. | .. | .. | |

TABLE E 3—*concld.*

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An.Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Nov. 22nd | AE P | 9 5 27 | Uncertain | .. .. | Slight shock. |
| | L | 9 24 15 | 22 | .. .. | |
| | F | 10 7 47 | .. | .. | |
| ,, 22nd | AN | .. | .. | .. .. | AN did not record anything. |
| ,, 28th | AE P | 10 51 50 | 3 | .. .. | Moderate shock. |
| | S | 10 58 14 | 8 | .. .. | |
| | L | 11 5 42 | 26 | .. .. | |
| | M | 11 18 34 | .. | 397 .. | |
| | F | 12 17 4 | .. | .. .. | |
| ,, 28th | AN | | | | AN P doubtful drum was changed at the time of the shock. |
| Dec. 1st | AE P | 4 26 11 | 3 | .. .. | Distant severe shock. |
| | S | 4 41 11 | 6 | .. .. | |
| | L | 5 34 11 | 21 | .. .. | |
| | M | 5 51 44 | .. | .. 810 | |
| | F | 7 1 11 | .. | .. .. | |
| ,, 1st | AN P | 4 26 25 | 3 | .. .. | Distant severe shock. |
| | S | 4 40 55 | 6 | .. .. | |
| | L | 5 26 55 | 23 | .. .. | |
| | M | 5 56 8 | .. | 431 .. | |
| | F | 6 51 55 | .. | .. .. | |
| ,, 2nd | AE P | 4 39 23 | 3 | .. .. | Distant slight shock. |
| | S | 4 52 27 | 6 | .. .. | |
| | F | 6 35 15 | .. | .. .. | |
| ,, 2nd | AN P | 4 39 57 | 4 | .. .. | Do. |
| | S | 4 52 11 | 6 | .. .. | |
| | F | 6 23 57 | .. | .. .. | |
| ,, 7th | AE P | 9 23 24 | 3 | .. .. | Slight shock. |
| | S | 9 30 36 | 5 | .. .. | |
| | L | 9 40 54 | 12 | .. .. | |
| | F | 10 25 8 | .. | .. .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An.Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928 | | H. M. S. | | | |
| Dec. 7th | AN P | 9 23 13 | 4 | .. .. | Slight shock. |
| | S | 9 30 25 | 6 | .. .. | |
| | L | 9 39 42 | 14 | .. .. | |
| | F | Uncertain | .. | .. .. | |
| ,, 10th | AE P | 4 40 53 | 4 | .. .. | Do. |
| | S | 4 43 45 | 6 | .. .. | |
| | F | 5 4 45 | .. | .. .. | |
| ,, 10th | AN CP | 4 41 48 | .. | .. .. | Tremors only. |
| | F | Uncertain | .. | .. .. | |
| ,, 12th | AE CP | 20 38 14 | .. | .. .. | Slight shock |
| | F | Uncertain | .. | .. .. | |
| ,, 12th | AN P | 1 32 52 | 2 | .. .. | Very slight shock. |
| | L | 1 35 14 | 5 | .. .. | |
| | F | 2 2 52 | .. | .. .. | |
| | P | 20 37 37 | 4 | .. .. | Slight shock. |
| | S | 20 48 7 | 8 | .. .. | |
| | F | Uncertain | .. | .. .. | |
| ,, 13th | AE P | 18 10 34 | 2 | .. .. | Tremors. |
| | F | 18 19 10 | .. | .. .. | |
| ,, 13th | AN CP | 18 11 50 | Uncertain | .. .. | |
| | S | 18 14 16 | 4 | .. .. | |
| | F | 18 25 50 | .. | .. .. | |
| ,, 14th | AE P | 0 32 55 | 1·5 | .. .. | Moderate shock. |
| | S | 0 36 20 | 3 | .. .. | |
| | L | 0 38 37 | .. | .. .. | |
| | M | 0 41 22 | .. | .. 148 | |
| | F | 1 14 9 | .. | .. .. | |

| Date. | Phase. | Time G. M. T. | Period (Sec.) | Amplitude. (μ) An.Ae. | Remarks. |
|---|---|---|---|---|---|
| 1928. | | H. M. S. | | | |
| Dec. 14th | P | 2 28 2 | 2 | .. .. | Very slight shock. |
| | S | 2 30 16 | 4 | .. .. | |
| | F | 2 40 16 | .. | .. .. | |
| ,, 14th | AN | .. | .. | .. .. | Clock stopped. |
| ,, 19th | AE P | 11 44 37 | 5 | .. .. | Severe shock. |
| | S | 11 50 33 | 27 | .. .. | |
| | L | 11 56 41 | 30 | .. .. | |
| | M | 12 2 49 | .. | 2017 .. | |
| | F | 13 47 11 | .. | .. .. | |
| ,, 19th | AN P | 11 44 43 | 4 | .. .. | Do. |
| | S | 11 50 33 | 6 | .. .. | |
| | L | 11 54 5 | 12 | .. .. | |
| | M | 12 0 19 | .. | 3396 .. | |
| | F | Uncertain | .. | .. .. | |
| ,, 28th | AE P | 14 26 45 | 3 | .. .. | Moderate shock. |
| | S | 14 32 57 | 4 | .. .. | |
| | L | 14 38 31 | Uncertain | .. .. | |
| | M | 14 41 43 | .. | .. 586 | |
| | F | 15 35 31 | .. | .. .. | |
| ,, 28th | AN P | 14 26 38 | 3 | .. .. | Do. |
| | S | 14 33 18 | 5 | .. .. | |
| | L | 14 39 4 | Uncertain | .. .. | |
| | M | 14 43 54 | .. | 310 .. | |
| | F | Uncertain | .. | .. .. | |
| ,, 31st | AE P | 7 38 22 | Uncertain | .. .. | Very slight shock. |
| | S | 7 39 49 | ,, | .. .. | |
| | F | 7 58 7 | .. | .. .. | |
| ,, 31st | AN P | 7 38 9 | .. | .. .. | Tremors. |
| | F | Uncertain | .. | .. .. | |

V. V. SOHONI,
*Meteorologist, Calcutta.*

The following table contains a list of earthquakes that were reported by voluntary observers from various stations :—

TABLE E 4.

| Place at which felt. | Date. | G. M. T. of earthquake. | | Duration. | Intensity Rossi-Forel Scale. | No. of shocks | REMARKS. |
|---|---|---|---|---|---|---|---|
| | 1928 | H. | M. | Sec. | | | |
| Yatung (Tibet) | Jan. 9 | 5 | 28 | about 4 | 1 | Several | |
| Cherat | „ 21 | 14 | 55 | 20 | 2 | 4 | |
| Drosh | „ 21 | 15 | 10 | 15 | 2 | 3 | |
| Srinagar | „ 21 | 15 | 5 | 4 | 2 | 2 | |
| Gauhati | „ 30 | 7 | 0 | 30 | 2 | 4 | |
| Parka | „ 30 | 7 | 55 | 5 | 1 | 1 | |
| Gauhati | Feb. 6 | 0 | 22 | 55 | 3 | 3 | |
| Salonah (Dist. Now-gong), Assam. | „ 6 | 0 | 35 | 10—15 | 2 | 2 | |
| Chittagong | „ 6 | 16 | 30 | about 10 | 1 | 2 | |
| Gauhati | „ 16 | 13 | 15 | about 35 | 2 | 2 | |
| Salonah (Dist. Now-gong), Assam. | „ 16 | 1 | 47 | 5 | 2 | 1 | |
| Lahore | „ 16 | 22 | 53 | 5 | 2 | 1 | |
| Drosh | „ 19 | 1 | 30 | 5 | 2 | 1 | |
| Cherat | „ 25 | 17 | 26 | 55 | 2 | 5 | |
| Drosh | „ 25 | 18 | 30 | 15 | 2 | 3 | |
| Srinagar | „ 25 | 17 | 15 | 1 & 2 | 3 | 2 | |
| Cuddalore | Mar. 19 | 8 | 0 | 2 | 1 | 1 | |
| Drosh | Apl. 12 | 17 | 35 | 5 | 2 | 4 | |
| Cherrapunji | „ 14 | 18 | 35 | .. | 1 | 1 | |
| Do. | „ 21 | 5 | 40 | 1—2 | 3 | 2 | |
| Gauhati | „ 21 | 5 | 42 | about 8 | 1 | 1 | |
| Srinagar | „ 25 | 1 | 10 | 1 | 2 | 1 | |
| Drosh | May 3 | 2 | 0 | 10 | 2 | 5 | |
| Salonah (Dist. Now-gong), Assam. | „ 6 | 21 | 35 | about 10 | 1 | 1 | |
| Drosh | „ 9 | 22 | 30 | 30 | 2 | 2 | |
| Port Blair | „ 19 | 5 | 3 | about 5 | 1 | 4 | |
| Gauhati | June 5 | 14 | 10 | about 30 | 2 | 1 | |
| Drosh | „ 14 | 9 | 29 | 3 | 2 | 1 | |
| Do. | „ 24 | 4 | 35 | 30 | 3 | 2 | |
| Srinagar | „ 24 | 4 | 26 | 5 | 2 or 3 | 2 | |
| Gulmarg | June 24 | 5 | 0 | about 3 | 2 | 2 | |
| Srinagar | July 9 | 22 | 30 | about 3 | 2 | 1 | |
| Gulmarg | „ 10 | 20 | 30 | 30 | 3 | 2 | |
| Shillong | „ 21 | 10 | 45 | 8 | 1 | 2 | |
| Monywa | „ 29 | 15 | 20 | 2 & 5 | 2 | 2 | |
| Shillong | „ 30 | 13 | 5 | 5 | 2 | 3 | |
| Cherrapunji | „ 30 | 13 | 0 | 2 | .. | .. | |
| Salonah (Dist Now-gong), Assam). | „ 30 | 13 | 2 | 10—15 | 1 | 1 | |
| Gulmarg | Aug. 2 | 1 | 26 | 2 | 3 | 2 | |
| Peshawar | „ 10 | 15 | 35 | 2 | .. | 2 | |
| Drosh | „ 10 | 15 | 35 | 30 | 4 | 2 | |
| Do. | „ 10 | 15 | 35 | 5 | 2 | 2 | |
| Srinagar | „ 10 | 15 | 17 | about 5 | 3 | 2 | |
| Gulmarg | „ 10 | 15 | 45 | nearly 15 | 3 | 2 | |
| Skardu | „ 10 | 15 | 35 | 2 | 2 | 1 | |
| Meshed | „ 21 | 13 | 28 | 45 | 2 | 3 | |
| Multan | Sept. 1 | 6 | 9 | 2 | 2 | 2 | |
| Cherrapunji | „ 30 | 21 | 14 | ½ | 1 | 1 | |
| Do. | Oct. 2 | 22 | 5 | 2 | 2 | 2 | |
| Sonamarg | „ 13 | 16 | 50 | 3 | 2 | 1 | |
| Drosh | „ 14 | 4 | 35 | 35 | 3 | 2 | |
| Srinagar | „ 14 | 4 | 35 | 3 | 3 | 1 | |
| Gulmarg | „ 14 | 4 | 15 | 5 | 1 | .. | |
| Gauhati | Nov. 15 | 15 | 30 | about 15 | 2 | 2 | |
| Silchar | „ 15 | 16 | 15 | 3 | 1 | .. | |
| Cherrapunji | „ 15 | 15 | 32 | 3 | 3 | 2 | |
| Srinagar | „ 16 | 7 | 15 | about 2 | 2 | 1 | |
| Drosh | Dec. 3 | 15 | 15 | 23 | 2 | 1 | |
| Do. | „ 6 | 22 | 15 | 22 | 2 | 1 | |
| Do. | „ 14 | 15 | 42 | 15 | 1 | 1 | |

J. M. SIL,
*Meteorologist, Poona.*

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART F

### ERRATA TO MONTHLY WEATHER REPORTS

CONTENTS.


| | Page. | | Page. |
|---|---|---|---|
| January | F. 1. | July | F. 12. |
| February | F. 3. | August | F. 14. |
| March | F. 5. | September | F. 16. |
| April | F. 7. | October | F. 18. |
| May | F. 9. | November | F. 20. |
| June | F. 10. | December | F. 22. |



**Published by Authority of the Government of India**

UNDER THE DIRECTION OF

**C. W. B. NORMAND, M.A., D.Sc.,**

*Director General of Observatories*

**Government of India Publications are obtainable from the Government of India Central Publication Branch, 3, Government Place, West Calcutta, and from the following Agents :—**

**EUROPE.**

OFFICE OF THE HIGH COMMISSIONER FOR INDIA,
42, GROSVENOR GARDENS, LONDON, S. W. 1.

**And at all Booksellers.**

**INDIA AND CEYLON :**

**Provincial Book Depots.**

MADRAS :—Superintendent, Government Press, Mount Road, Madras.
BOMBAY :—Superintendent, Government Book Depot, Town Hall, Bombay.
SIND :—Library attached to the Office of the Commissioner in Sind, Karachi.
BENGAL :—Bengal Secretariat Book Depot, Writers' Buildings, Room No. 1, Ground Floor, Calcutta.
UNITED PROVINCES OF AGRA AND OUDH :—Superintendent of Government Press, United Provinces of Agra and Oudh, Allahabad.
PUNJAB :—Superintendent, Government Printing, Punjab, Lahore.
BURMA :—Superintendent, Government Printing, Burma, Rangoon.
CENTRAL PROVINCES AND BERAR :—Superintendent, Government Printing, Central Provinces, Nagpur.
ASSAM :—Superintendent, Assam Secretariat Press, Shillong.
BIHAR AND ORISSA :—Superintendent, Government Printing, Bihar and Orissa, P. O. Gulzarbagh, Patna.
COORG :—Office of the Chief Commissioner of Coorg, Bangalore.
NORTH-WEST FRONTIER PROVINCE :—Manager, Government Printing and Stationery, Peshawar.

---

Thacker, Spink & Co., Calcutta and Simla.
W. Newman & Co., Ltd., Calcutta.
R. Cambray & Co., Calcutta.
S. K. Lahiri & Co., Calcutta.
The Indian School Supply Depot, 309, Bow Bazar Street, Calcutta.
Butterworth & Co. (India), Ltd., Calcutta.
Rai M. C. Sarcar Bahadur & Sons, 90-2A, Harrison Road, Calcutta.
Standard Literature Company, Limited, Calcutta.
Association Press, Calcutta.
Chukervertty, Chatterjee & Co., Ltd., 13, College Square, Calcutta.
The Book Company, Calcutta.
James Murray & Co., 12, Government Place, Calcutta. (For Meteorological Publications only.)
Ray Choudhury & Co., 68-5, Asutosh Mukherji Road, Calcutta.
Scientific Publishing Co., 9, Taltolla Lane, Calcutta.
Chatterjee & Co., 204, Cornwallis Street, Calcutta.
Standard Law Book Society, 8-2, Hastings Street, Calcutta.
The Hindu Library, 3, Nandalal Mullick Lane, Calcutta.
B. C. Basak, Esq., Proprietor, Albert Library, Dacca.
Mitra Brothers, Rajshahi.
Higginbothams, Madras.
Rochouse and Sons, Madras.
G. A. Nateson & Co., Publishers, George Town, Madras.
Theosophical Publishing House, Adyar, Madras.
P. Varadachary & Co., Madras.
S. Murthy & Co., Madras.
Bright & Co., Trivandrum.
The Booklover's Resort, Taikad, Trivandrum, South India.
E. M. Gopalakrishna Kone, Pudumandapam, Madura.
Central Book Depot, Madura.
Vijapur & Co., Vizagapatam.
Thacker & Co., Ltd., Bombay.
D. B. Taraporevala Sons & Co., Bombay.
Sunder Pandurang, Bombay.
Ram Chandra Govind & Sons, Kalbadevi Road, Bombay.
N. M. Tripathi & Co., Booksellers, Princess Street, Kalbadevi Road, Bombay.
New and Secondhand Bookshop, Kalbadevi Road, Bombay.
Mrs. Radhabai Atmaram Sagoon, Kalbadevi Road, Bombay.
J. M. Pandia & Co., Bombay.
Gatulal & Co., Bombay.
A. H. Wheeler & Co., Allahabad, Calcutta and Bombay.
S. Govind & Co., Sandhurst Road, Girgaum, Bombay.
Proprietor, New Kitabkhana, Poona.
The Manager, Oriental Book Supplying Agency, 15, Shukrawar, Poona City.
Rama Krishna Bros., Opposite Visrambag, Poona City.
S. P. Bookstall, 21, Budhwar, Poona.
Mangaldas & Sons, Booksellers and Publishers, Bhaga Talao, Surat.
The Standard Book and Stationery Co., 32-33, Arbab Road, Peshawar.
R. B. Umadikar & Co., The Bharat Book Depot, Dharwar.
The Standard Bookstall, Karachi, Quetta, Delhi, Murree and Rawalpindi.
The Karachi Book Depot, Elphinstone Street, Camp, Karachi.
The English Bookstall, Karachi.
The Standard Bookstall, Quetta.
U. P. Malhotra & Co., Quetta.
J. Ray & Sons, 43, K. & L., Edwardes Road, Rawalpindi, Murree and Lahore.
The Standard Book Depot, Lahore, Nainital, Mussoorie, Dalhousie, Ambala Cantonment and Delhi.
N. B. Mathur, Supdt., Nazir Kanun Hind Press, Allahabad.
The North India Christian Tract and Book Society, 18, Clive Road, Allahabad.
Ram Dayal Agarwala, 184, Katra, Allahabad.
The Indian Army Book Depot, Juhi, Cawnpore.
The Indian Army Book Depot, Jullundur City.
Manager, Newal Kishore Press, Lucknow.
The Upper India Publishing House, Ltd., Literature Palace, Ammuddaula Park, Lucknow.
Rai Sahib M. Gulab Singh & Sons, Mufid-i-Am Press, Lahore and Allahabad.
Rama Krishna & Sons, Booksellers, Anarkali, Lahore.
Puri Brothers, Booksellers and Publishers, Katchery Road, Lahore.
The Tilak School Bookshop, Lahore.
The Standard Bookstall, Lahore.
The Proprietor, Punjab Sanskrit Book Depot, Saidmitha Street, Lahore.
The Insurance Publicity Co., Ltd., Lahore.
The Punjab Religious Book Society, Lahore.
Manager of the Imperial Book Depot, 63, Chandney Chawk Street, Delhi.
Fono Book Agency, New Delhi.
Oxford Book and Stationery Company, Delhi and Calcutta.
Supdt., American Baptist Mission Press, Rangoon.
The Modern Publishing House, Ltd., 30, Phayre Street, Rangoon.
Burma Book Club, Ltd., Rangoon.
Manager, the "Hitavada," Nagpur.
Bhisey Brothers, Booksellers and Stationers, Sitabaldi, Nagpur.
S. C. Talukdar, Proprietor, Students & Co., Cooch Behar.
The Manager, Ceylon Observer, Colombo.
The Manager, The Indian Book Shop, Benares City.
Nandkishore & Bros., Chowk, Benares City.
The Srivilliputtur Co-operative Trading Union, Ltd., Srivilliputtur (S. I. R.).
Raghunath Prasad & Sons, Patna City.
The Students' Emporium, Patna.
K. L. Mathur & Bros., Guzri, Patna City.
Dandekar Brothers, Indore City.
Pushtakalaya Sahayak Sahakari, Ltd., Baroda.
The Hyderabad Book Depot, Chaderghat, Hyderabad (Deccan).
Thakur & Co., Amraoti.
S. Krishnaswami & Co., Teppakulam P. O., Trichinopoly Fort.
National College Teachers' Union Book Depot, Trichinopoly.

# ANNUAL SUMMARY FOR 1928.

# PART F.

## ERRATA SHEETS.

**For the monthly Weather Reports, January to December, 1928.**

# JANUARY 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Minbu . . . | 5, 6, 10, 11, 13 and 14. | 63·4, 58·3, 56·1, —1·6, 72 and —2. | 63·1, 57·9, 55·7, —2·0, 71 and —3. |
| Lashio . . . | 6, 13 and 14. | 51·8, 86 and —6. | 51·7, 85 and —7. |
| Gorakhpur . . . | 1 and 2. | 29·805 and +·040. | 29·806 and +·041. |
| Jhansi . . . | 5. | 56·7. | 56·6. |
| Roorkee . . . | 16, 17 and 20. | 3·42, +1·76 and 1·48. | 3·33, +1·67 and 1·39. |
| Dras . . . | 1, 2, 5, 7, 8, 10 and 11. | 20·735, —·040, 7·3, 21·1, +3·1, —2·5 and + 8·9. | 20·734, —·041, 7·0, 21·4, +3·4, —2·3 and + 9·1. |
| Fort Sandeman . . | 7 and 8. | 51·0 and —9·5. | 51·1 and —9·4. |
| Srinagar . | 6. | 34·9 (*o*). | — |
| Quetta . . . | 6. | 36·8 (*s*). | — |
| Chaman . . . | 6. | 38·4 (*k*). | — |
| Kalat . . . | 6. | 36·2 (*u*). | — |
| Dalbandin . . . | 6. | 39·0 (*p*). | — |
| Khandwa . . . | 4. | 3·5. | 3·3. |
| Saugor . . . | 16, 17, 18 and 19. | 0·20, —0·39, 1 and —0·2. | 0·30, —0·29, 2 and +0·8. |
| Jubbulpore . . | 16, 17, 18 and 19. | 0·04, —0·36, 0 and —1·5. | 0·25, —0·55, 1 and —0·5. |
| Seoni . . . | 16, 17, 18 and 19. | 0, —0·58, 0 and —1·2. | 0·43, —0·15, 1 and —0·2. |
| Kanker . . . | 1. | 28·679. | 28·678. |
| Chanda . . . | 4. | 2·7. | 2·2. |
| Malegaon . . . | 1, 2, 3, 6, 10, 11 and 15. | 28·553, +·002, S 75 W, 52·8, 51·9, —0·4 and 3·0. | 28·554, +·003, S 74 W, 52·9, 52·0, —0·3 and 2·9. |
| Bijapur . . . | 1 and 2. | 28·031 and +·012. | 28·037 and +·018. |
| Belgaum . . . | 1 and 2. | 27·416 and +·010. | 27·415 and +·009. |
| Aurangabad . . | 4. | 4·5. | 4·2. |
| Nizamabad . . | 6. | 59·0. | 58·9. |
| Gulbarga . . | 1 and 2. | 28·490 and +·018. | 28·491 and +·019. |
| Bangalore . . . | 1, 2, 6, 13 and 14. | 26·983, +·016, 61·6, 80 and +1. | 26·982, +·015, 61·5, 79 and 0. |
| Trichinopoly . . | 1, 2, 4, 5, 7, 8, 15, 16, 17, 18 and 19. | 29·725, +·005, 4·0 (l), 77·5, 88·5, +1·0, 4·1, 0·89, +0·21, 4 and +2·8. | 29·728, +·008, 4·0 (j), 77·3, 88·2, +0·7 4·3, 1·09, +0·41, 5 and+3·8. and omit (*b*) against the station. |
| Page 8 . . . | Insert the footnote "(*j*) Mean of 22 days." | | |
| Cherrapunji . . | 1 and 2. | 25·736 and +·016. | 25·734 and +·014. |
| Dinajpur . . | 10 and 11. | 51·1 and +1·7. | 50·8 and +1·4. |
| Dhubri . . . | 4, 16 and 17. | 3·7, 0·52 and +0·22. | 3·8, 0·54 and +0·24. |
| Darjiling . . . | 16. | 0·28. | 0 ·23. |
| Cox's Bazar . . | 4. | 1·3. | 1·1. |

## JANUARY 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Saugor Island . . | 15. | 3·5. | 3·2. |
| Narayanganj . . | 5, 7, 8, 10, 11, 13 and 14. | 59·2, 78·7, +1·1, 54·6,—0·9, 88 and +2. | 59·0, 79·2, +1·6, 55·0, —0·5, 89 and+3. |
| Mymensingh . . | 1, 2, 7 and 8. | 29·965, +·002, 75·2 and —0·6. | 29·978, +·015, 74·9 and —0·9. |
| Darbhanga . . | 1, 2 and 15. | 29·881, +·012 and 5·0. | 29·880, +·011 and 5·3. |
| Purnea . . . | 1 and 2. | 29·936 and +·022. | 29·935 and+·021. |
| Cuttack . . . | 3. | Calm. | E. |
| Hukitala (False Point) . | 3. | N 11 W. | N 81 W. |

# FEBRUARY 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Victoria Point . . | 7 and 8. | 88·2 and —0·5. | 88·1 and —0·6. |
| Mergui . . . | 19. | +·3. | +2·3. |
| Bassein . . . | 5. | 74·1. | 74·0. |
| Toungoo . . . | 1 and 2. | 29·757 and —·016. | 29·758 and —·015. |
| Kyaukpyu . . . | 13 and 14. | 78 and —6. | 79 and —5. |
| Allahabad . . . | 1 and 2. | 29·667 and +·003. | 29·668 and +·004. |
| Agra . . . | 1 and 2. | 29·407 and —·012. | 29·408 and —·011. |
| Srinagar . . . | 15. | 7·9. | 8·4. |
| Mirjawa . . . | 7. | 70·0. | 72·5. |
| Ajmer . . . | 1, 2, 4, 5, 6, 7 and 8. | 28·355, +·005, 2·6 (*e*), 60·0, 52·0, 80·0 and +2·8. | 28·354, +·004, 2·5, 60·2, 51·9, 80·3 and +3·1, and omit (*d*) against the station. |
| Ahmadabad . . | 10 and 11. | 58·2 and —1·3. | 57·8 and —1·7. |
| Jubbulpore . . | 1 and 2. | 28·602 and —·007. | 28·601 and —·008. |
| Kanker . . . | 7. | 86·7. | 86·6. |
| Jagdalpur . . . | 10 and 11. | 57·1 and —0·6. | 57·2 and —0·5. |
| Ratnagiri . . . | 16, 17, 18, 19 and 20. | 0, —0·05, 0, —0·1 and 0. | 0·17, +0·12, 1, +0·9 and 0·17. |
| Aurangabad . . | 3. | S 84 E. | N 89 E. |
| Mysore . . . | 1, 2, 16, 17, 18 and 19. | 27·436, +·001, 2·15, +1·93, 3 and +2·6. | 27·435, 0, 2·50, +2·28, 4 and +3·6. |
| Madura . . . | 15. | 4·8. | 4·7. |
| Salem . . . | 1 and 2. | 29·041 and +·017. | 29·040 and +·016. |
| Vizagapatam . . | 4. | 4·9. | 4·8. |
| Chakrata . . . | 7, 8, 10 and 11. | 53·6, +2·0, 38·9 and +2·9. | 53·3, +1·7, 39·0 and +3·0. |
| Murree . . . | 6. | 37·5. | 37·4. |
| Parachinar . . | 1, 2, 4, 5, 7, 8, 10, 11, 15, 16, 17, 18 and 19. | 24·460, +·037, 9·3, 39·5, 53·6, +2·1, 32·5, +1·6, +4·4, 3·94, +1·81, 6 and +1·1. | 24·457, +·034, 0·9, 39·0, 53·3, +1·8, 32·2, +1·3, 4·2, 5·05, +2·92, 7 and +2·1. |
| Pachmarhi . . . | 16 and 17. | 1·27 and +0·61. | 3·07 and +2·41. |
| Page 15 . . . | Omit the footnotes "(*d*) Mean of 28 days" and "(*e*) Mean of 27 days." | | |
| Sibsagar . . . | 15. | 8·9. | 9·2. |
| Tezpur . . . | 3. | N 41 E. | N 42 E. |
| Gauhati . . . | 16, 17, 18, 19 and 20. | 0·10, —1·14, 1, —1·6 and 0 10. | 0·39, —·085, 2, —0·6 and 0·29. |
| Dhubri . . . | 1, 2 and 15. | 29·873, +·015 and 1·2. | 29·874, +·016 and 1·5. |
| Silchar . . . | 1, 2, 16, 17, 18 and 19. | 29·891, +·003, 1·12, —1·00, 1 and —2·6. | 29·893, +·005, 1·24, —0·88, 2 and —1·6. |
| Dinajpur . . . | 10 and 11. | 57·0 and +4·3. | 56·7 and +4·0. |

## FEBRUARY 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Chaibasa . . . | 1 and 2. | 29·224 and +·011. | 29·228 and +·015. |
| Sambalpur . . | 6. | 62·2. | 62·3. |
| Dibrugarh . . | 4. | 0·6 (*d*). | 0·6. |
| Cherrapunji . . | 15. | 2·3. | 2·6. |
| Chittagong . . | 3 and 4. | N 53 E (*d*) and 5·5 (*e*). | N 49 E and 5·5. |
| Cox's Bazar . . | 3. | N 63 E. | E. |
| Saugor Island . . | 7 and 8. | 81·9 and +1·1. | 81·7 and +0·9. |
| Narayanganj . . | 5, 7, 8, 10, 11, 13 and 14. | 64·1, 85·5, +3·9, 58·1 (*d*), —0·7, 78 and —4. | 63·9, 86·0, +4·4, 58·5 (*d*), —0·3, 79 and —3. |
| Mymensingh . . | 1, 2, 3, 7 and 8. | 29·909, 0,....., 83·2 and +4·1. | 29·922, +·013, W, 82·9 and +3·8. |
| Page 13 . . . | Omit footnote (*e*) Mean of 27 days. | | |

# MARCH 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Diamond Island . . | 5, 6, 7, 10, 11 and 13. | 80·2 (*b*), 74·6 (*b*), 85·5 (*b*), 77·2 (*b*), +1·8 and 76 (*b*). | 80·1, 74·5, 85·5, 77·1, +1·7 and 76 |
| Yamethin . . . | 7 and 8. | 95·3 and —2·5. | 95·1 and —2·7. |
| Gorakhpur . . | 1 and 2. | 29·605 and +·015. | 29·601 and +·011. |
| Bareilly . . . | 3. | N 60 W. | N 64 W. |
| Ludhiana . . . | 16, 17, 18 and 19. | 0·28, —0·78, 1 and —1·1. | 0·39, —0·67, 2 and —0·1. |
| Sialkot . . . | 3. | N 22 E. | N 33 E. |
| Rawalpindi . . | 4. | 4·0. | 3·9. |
| Dras . . . | 1, 2, 4, 5, 7, 8, 10 11, 15, 16, 17, 18, 19 and 20. | 20·747, —·007, 1·1, 15·0, 29·0, —2·6, 8·5, +5·6, 5·8, 3·03, —1·17, 9, —1·8 and 1·06. | 20·741, —·013, 1·0, 16·0, 29·5, —2·1, 9·8, +6·9, 6·0, 5·73, +1·53, 13, +2·2 and 1·42 and omit (*e*) against the station. |
| Leh . . . | 1, 2, 4, 5, 7, 8, 10, 11, 16, 17, 18 and 19. | 19·612, —·022, 1·0, 26·6, 42·7, —1·8, 22·3, +1·4, 0·25, —0·03, 1 and 0. | 19·610, —·024, 0·9, 26·9, 42·6, —1·9, 22·5, +1·6, 0·47, +0·19, 2 and +1·0, and omit (*e*) against the station. |
| Skardu . . . | 1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14, 15, 16, 17, 18 and 19. | 22·842, —·021, 1·3, 36·7, 35·1 (*m*), 47·2, —2·7, 32·2, —0·2, 75 (*m*), 0, 7·3, 1·44, +0·61, 4 and + 1·2. | 22·836, —·027, 1·4, 36·8, 35·1 (*i*), 47·3, —2·6, 32·3, —0·1, 76 (*i*), +1, 7·2, 1·89, +1·06, 7 and +4·2 and omit (*e*) against the station. |
| Mirjawa . . . | 16 and 18. | 0 and 0. | 0·25 and 1. |
| Page 22 . . . | Footnote. | (*m*) mean of 19 days. | (*i*) mean of 23 days. |
| Jaipur . . . | 7, 8, 10 and 11. | 90·4, +1·3, 63·5 and +3·0. | 90·5, +1·4, 63·4 and +2·9. |
| Ajmer . . . | 1, 2, 4, 5, 6, 7, 8, 10 and 11. | 28·288, +·009, 3·8 (*k*), 73·3, 56·0, 89·5, +1·3, 63·5 and +3·2. | 28·290, +0·11, 3·5 (*i*), 73·2, 55·9, 89·1, +1·2, 63·0 and +2·7. |
| Page 23 . . . | Footnote. | (*k*) mean of 21 days. | (*i*) mean of 23 days. |
| Akola . . . | 7 and 8. | 99·7 and +0·9. | 99·8 and +1·0. |
| Hoshangabad . . | 16 and 17. | 1·92 and +1·67. | 0·21 and —0·04. |
| Jagdalpur . . | 5. | 73·0. | 73·1. |
| Cochin . . . | 16, 17, 18 and 19. | 1·02, —0·98, 2 and —0·8. | 1·78, —0·22, 3 and +0·2. |
| Vizagapatam . . | 7 and 8. | 86·3 (*b*) and —1·0. | 86·2 (*c*) and —1·1. |
| Mukteswar . . | 16, 17, 18 and 19. | 1·20, —0·99, 4 and —0·5. | 1·42, —0·77, 5 and +1·0. |
| Murree . . . | 6, 13 and 14. | 40·3, 54 and —1. | 40·0, 53 and —2. |
| Cherat . . . | 5, 6, 13 and 14. | 49·8 (*b*), 47·1 (*b*), 82 (*b*) and 26. | 50·1, 47·5, 83 and 27. |
| Page 24 . . . | Footnote, omit (*b*) mean of 30 days. | | |
| Drosh . . . | 16, 17, 18 and 19. | 8·42, +5·00, 14 and +6·6. | 7·38, +3·96, 13 and +5·6. |
| Gauhati . . . | 7, 8 and 9. | 88·0, +3·1 and 103·4. | 87·6, +2·7 and 95·7. |
| Dhubri . . . | 1 and 2. | 29·747 and —·013. | 29·748 and —·012. |
| Silchar . . . | 1 and 2. | 29·803 and —·007. | 29·812 and +·002. |
| Dinajpur . . . | 1, 2, 6, 10 and 11. | 29·738, +·002, 63·8, 61·9 and +1·3. | 29·729, —·007, 62·8, 61·6 and +1·0. |

## MARCH 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Cuttack . . . | 3. | S 68 W. | S 56 W. |
| Ranchi . . . | 3. | N 75 W. | N 79 W. |
| Chaibasa . . . | 1 and 2. | 29·125 and +·001. | 29·130 and +·006. |
| Sambalpur . . . | 6. | 63·6. | 63·4. |
| Chittagong . . | 3 and 4. | S 78 E (*h*), 7·8 (*c*). | S 79 E and 7·7. |
| Berhampore . . | 1, 2 and 3. | 29·794, —·010 and S 24 W. | 29·793, —·011 and S 22 W. |
| Narayanganj . . | 1, 2, 5, 7, 8, 10 and 11. | 29·846, —·009, 74·8, 92·4 +3·1, 68·2 and +0·1. | 29·845, —·010, 74·6, 92·9, +3·6, 68·6 and +0·5. |
| Mymensingh . . | 1, 2, 7 and 8. | 29·814, —·007, 91·4 and +4·1. | 29·827, +·006, 91·1 and +3·8. |
| Page 21 . . . | Omit footnote (*c*) mean of 29 days. | | |

# APRIL 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Port Blair . . . | 1, 2, 5, 10, 11, 15, 16, 17, 18, 19 and 20. | 29·757, —·032, 81·5, 78·3, —0·4, 7·2, 3·28, +0·80, 9, +5·1, and 0·82. | 29·754, —·035, 81·4, 78·2, —0·5, 7·3, 1, 5·09, +2·61, 10, +6·12 and 1·82. |
| Rangoon . . . | 3. | S 66 W. | S 70 W. |
| Bassein . . . | 3. | N 1 W. | N 64 W. |
| Kyaukpyu . . . | 6, 8, 13 and 14. | 81·6, —0·5, 88, and +10. | 81·4, +0·5, 87 and +9. |
| Yamethin . . . | 1 and 2. | 29·157 and —·006. | 29·156 and —·007. |
| Mandalay . . . | 3. | S 20 E. | S 22 E. |
| Monywa . . . | 1, 2, 16, 17, 18 and 19. | 29·521, —·019, 0·44, —0·36, 1, and —0·8. | 29·517, —·023, 0·98, +0·18, 2 and +0·2. |
| Lashio . . . | 1 and 2. | 27·041 and —·005. | 27·037, and —·009. |
| Myitkyina . . . | 1, 2 and 3. | 29·329, —·017 and N 34 E (c). | 29·332, —·014 and N 28 E. |
| Gorakhpur . . . | 1 and 2. | 29·502 and +·021. | 29·499 and +·018. |
| Lucknow . . . | 1 and 2. | 29·359 and —·014. | 29·362 and —·011. |
| Roorkee . . . | 1 and 2. | 29·836 and —·001. | 29·834 and —·003. |
| Delhi . . . | 1 and 2. | 29·037 and +·007. | 29·032 and +·002. |
| Sialkot . . . | 4. | 2·2 (h). | 2·1 (g). |
| Khushab . . . | 6, 13 and 14. | 67·4, 58 and +15. | 66·0, 52 and +9. |
| Lyallpur . . . | 6, 13, 14, 16 and 17. | 63·3, 48, —5, 0·86 and —0·02. | 63·0, 46, —7, 0·92 and +0·04. |
| Khanpur . . . | 1. | 29·443. | 29·444. |
| Dras . . . | 1, 2, 5, 6, 7, 8, 10, 11, 13, 15, 16, 17, 18 and 19. | 20·855, +·074, 24·5, 35·7, —6·6, 17·1, —2·6, 90, 3·7, 3·95, —0·01, 1 and —4·5. | 20·854, +·073, 25·3, 36·2, —6·1, 18·7, —1·0, 91, 4·1, 7·45, +3·49, 7 and —1·5. |
| Peshawar . . . | 3. | S 45 W. | N 67 W. |
| Deesa . . . | 10 and 11. | 70·9 and —0·4. | 70·6 and —0·7. |
| Dwarka . . . | 1 and 2. | 29·777 and —·035. | 29·773 and —·039. |
| Surat . . . | 7 and 8. | 100·8 and +1·3. | 100·6 and +1·1. |
| Hoshangabad . . | 1 and 2. | 28·782 and —·002. | 28·781 and —·003. |
| Saugor . . . | 1 and 2. | 27·971 and —·009. | 27·974 and —·006. |
| Jubbulpore . . | 1 and 2. | 28·427 and —·017. | 28·428 and —·016. |
| Pendra . . . | 1 and 2. | 27·732 and —·029. | 27·734 and —·027. |
| Ratnagiri . . . | 5, 6, 13 and 14. | 83·2, 77·9, 78 and +8. | 83·0, 77·6, 77 and +7. |
| Malegaon . . . | 1 and 2. | 28·376 and —·012. | 28·375 and —·013. |
| Poona . . . | 10 and 11. | 69·4 and +0·5. | 69·2 and +0·3. |
| Nizamabad . . | 1, 2, 10 and 11. | 28·515, —·038, 76·7 and +0·5. | 28·516, —·037, 77·0 and +0·8 |
| Raichur . . . | 7 and 8. | 105·6 and +2·9. | 102·7 and 0. |
| Mysore . . . | 1, 2, 6, 7 and 8. | 27·344, —·017, 71·1, 94·7, and 0. | 27·346, —·015, 71·2, 94·6 and —0·2. |

## APRIL 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Cocanada . . . | 15. | .... | 5·8. |
| Chakrata . . . | 2. | +·003. | +·033. |
| Murree . . . | 1, 2 and 8. | 23·950, +·024 and —0·6. | 23·948, +·022 and +0·6. |
| Pachmarhi . . . | 8. | —0·2. | +0·2. |
| Dibrugarh . . . | 10 and 11. | 66·8 and +1·4. | 66·9 and +1·5. |
| Cherrapunji . . | 15. | 6·1. | 5·9. |
| Silchar . . . | 1 and 2. | 29·729 and —·008. | 29·738 and +·001. |
| Dinajpur . . . | 1, 2, 10 and 11. | 29·663, +·017, 70·5 and +0·8. | 29·652, +·006, 70·2 and +0·5. |
| Chaibasa . . . | 1 and 2. | 29·024 and +·002. | 29·029 and +·007. |
| Sambalpur . . . | 6. | 70·8 (*c*). | 70·6 (*c*). |
| Mymensingh . . | 1, 2, 3, 7 and 8. | 29·740, +·001, S 86 E, 92·1 and +1·9. | 29·753, +·014, S 82 E, 91·8 and +1·6. |
| Narayanganj . . | 5, 7 8, 10 11, 13 and 14. | 80·1, 93·7, +1·7, 73·3, —0·7, 77 and —5. | 79·9, 94·2, +2·2, 73·7, —0·3, 78 and —4. |

# MAY 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Kyaukpyu . . . | 1, 2, 3, 4, 5, 6, 10, 11, 16 and 17. | 29·729, —·003, S 63 E, 1·8, 84·0, 81·7, 78·2, +0·5, 10·91 and —5·33. | 29·731, —·001, S 66 E, 1·3, 83·9, 81·4, 78·3, +0·6, 10·93 and —5·31 and omit (*b*) against the station. |
| Lashio . . . | 1 and 2. | 26·984 and —·007. | 26·982 and —·009. |
| Gorakhpur . . . | 16 and 17. | 1·12 and —0·35. | 1·09 and —0·38. |
| Jhansi . . . | 1 and 2. | 28·803 and —·032. | 28·800 and —·035. |
| Ludhiana . . . | 1 and 2. | 28·771 and —·038. | 28·765 and —·044. |
| Multan . . . | 1, 2, 3, 4, 5, 10 and 11. | 29·180, 0, N 72 W, 2·2 (*c*), 90·0, 81·2 and +2·9. | 29·176, —·004, W' 2·3, 89·9, 80·9 and +2·6 and omit (*b*) against the station. |
| Gilgit . . . | 1, 2, 5, 6, 7, 8, 10, 11 and 15. | 24·977, —·098, 67·3, 59·5, 87·5, +3·7, 61·6, +1·4 and 3·1. | 24·978, —·097, 67·1, 57·4, 87·6, +3·8, 61·4, +1·2 and 3·2. |
| Page 38 . . . | Omit footnote " (*b*) mean of 30 days." | | |
| Peshawar . . | 1, 2 and 4. | 28·537, —·023 and 0·6. | 28·538, —·022 and 0·5. |
| Fort Sandeman . . | 10, 11, 16, 17, 18 and 19. | 66·2, +2·4, 0·42, —0·32, 2 and +0·7. | 66·0, +2·2, 0·55, —0·19, 3 and +1·7. |
| Hoshangabad . . | 10 and 11. | 81·9 and +1·7. | 81·7 and +1·5. |
| Ahmadnagar . . | 1 and 2. | 27·658 and +·015. | 27·657 and +·014. |
| Raichur . . | 7 and 8. | 110·0 and +6·7. | 106·3 and +3·0. |
| Trichinopoly . . | 5 and 6. | 87·8 and 76·5. | 88·0 and 76·6. |
| Vizagapatam . . | 10 and 11. | 83·0 and +2·2. | 83·2 and +2·4. |
| Chakrata . . . | 16, 17, 18, 19 and 20. | 0·48, —1·96, 2, —3·4 and 0·26. | 0·84, —1·60, 3, —2·4 and 0·36. |
| Tezpur . . . | 3, 4, 5 and 6. | N 59 E, 1·1 (*e*), 77·0 (*b*) and 73·3 (*b*). | N 58 E (*c*), 1·0 (*c*), 76·8 (*b*) and 73·2 (*b*). |
| Gauhati . . . | 6, 13 and 14. | 73·7, 81 and —3. | 74·0, 82 and —2. |
| Shillong . . . | 15. | 3·8. | 3·9. |
| Silchar . . . | 1, 2, 16, 17, 18 and 19. | 29·642, —·010, 23·12, +6·53, 17 and +0·9. | 29·650, —·002, 24·23, +8·64, 18 and +1·9. |
| Dinajpur . . . | 1, 2, 10 and 11. | 29·572, —·001, 75·2 and +1·3. | 29·562, —·011, 74·9 and +1·0. |
| Darjiling . . . | 7. | 64·6. | 65·2. |
| Darbhanga . . | 3. | E. | S 88 E. |
| Berhampore . . | 15. | 5·3. | 5·8. |
| Chittagong . . | 3 and 4. | S 56 E and 8·9 (*e*). | S 49 E and 9·8. |
| Narayanganj . . | 5, 7, 8, 10, 11, 13 and 14. | 81·5, 91·2, +0·2, 74·1, —1·8, 81 and —2. | 81·3, 91·6, +0·6, 74·5, —1·4, 82 and —1. |
| Mymensingh . . | 1, 2, 7 and 8. | 29·657, —·004, 89·2 and +0·1. | 29·669, +·008, 89·0 and —0·1. |
| Jessore . . . | 3, 5 and 6. | S, 84·4 and 80·4. | S 7 W, 84·2 and 80·1. |
| Saugor Island . . | 1 and 2. | 29·644 and —·024. | 29·646 and —·022. |
| Page 37 . . . | Footnote. | *Insert* (*c*) mean of 21 days. | |

# JUNE 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Toungoo . . . | 1 and 2. | 29·501 and —·058. | 29·503 and —·056. |
| Kyaukpyu . . | 16 and 17. | 72·86 and +32·63. | 72·88 and +32·65. |
| Yamethin . . . | 16 and 17. | 6·68 and +1·57. | 6·76 and +1·65. |
| Myitkyina . . | 4. | 2·3. | 1·9. |
| Mainpuri . . . | 1. | 28·858. | 28·958. |
| Bareilly . . . | 1 and 2. | 28·933 and —·016. | 28·931 and —·018. |
| Meerut (*a*) . . . | 16, 17 and 20. | 1·64, —1·49 and 1·30. | 1·37, —1·76 and 1·03. |
| Roorkee . . . | 1, 2, 4, 5, 7, 8, 10, 11, 13, 14 and 15. | 28·594, —·032, 3·5 (*d*), 86·3, 99·8, —1·0, 78·4, —0·4, 63, +3 and 4·3. | 28·590, —·036, 3·4, 86·5, 99·9, —0·9, 78·5, —0·3, 62, +2 and 4·2 and omit (*c*) against the station. |
| Page 46 . . . | Omit the footnotes "(*c*) mean of 29 days" and "(*d*) mean of 28 days." | | |
| Delhi . . . | 7 and 8. | 102·2 and —1·1. | 101·9 and —1·4. |
| Lahore . . . | 16 and 17. | 1·07 and —0·61. | 1·10 and —0·58. |
| Sialkot . . . | 1 and 2. | 28·631 and —·031. | 28·632 and —·030. |
| Khushab . . . | 1 and 2. | 28·831 and —·037. | 28·833 and —·035. |
| Montgomery . . | 9. | 111·0. | 112·2. |
| Multan . . . | 1 and 2. | 29·026 and +·001. | 29·024 and —·001. |
| Leh . . . | 6, 13 and 14. | 43·8, 49 and +7. | 43·7, 48 and +6. |
| Peshawar . . . | 4. | 0·9. | 0·3. |
| Hyderabad (Sind) . | 1 and 2. | 29·386 and —·014. | 29·388 and —·012. |
| Bikaner . . | 1 and 2. | 28·705 and —·029. | 28·707 and —·027. |
| Kotah . . . | 16, 17, 18 and 19. | 0·62, —2·32, 3 and —1·1. | 0·81, —2·13, 4 and —0·1. |
| Rajkot . . . | 16 and 17. | 0 and —4·31. | 0·05 and —4·26. |
| Surat . . . | 16, 17, 18 and 19. | 2·21, —6·13, 3 and —5·0. | 3·16, —5·18, 4 and —4·0. |
| Ahmadabad . . | 5, 13 and 14. | 86·1, 67 and —3. | 86·4, 65 and —5. |
| Neemuch . . . | 16, 17, 18 and 19. | 1·12, —3·30, 2 and —3·0. | 1·74, —2·68, 3 and —2·0. |
| Sutna . . . | 10 and 11. | 79·8 and —2·0. | 79·7 and —2·1. |
| Akola . . . | 1, 2, 16, 17, 18 and 19. | 28·651, —·042, 7·12, +1·74, 7 and —1·0. | 28·649, —·044, 7·67, +2·29, 8 and 0. |
| Chanda . . . | 16 and 17. | 5·31 and —2·35. | 5·33 and —2·33. |
| Jagdalpur . . | 16, 17, 18 and 19. | 5·99, —3·52, 12 and +0·1. | 6·11, —3·40, 13 and +1·1. |
| Raichur . . . | 4, 7 and 8. | 6·9, 94·5 and —0·7. | 7·9, 94·2 and —1·0. |
| Tinnevelly (*a*) . . | 16, 17 and 20. | 0, —0·56 and 0. | 0·08, —0·48 and 0·05. |
| Trichinopoly . . | 1, 4, 10, 11 and 15. | 29·442, 8·5, 80·3, +1·7 and 5·4. | 29·444, 8·4, 80·2, +1·6 and 5·5. |
| Cuddapah . . . | 1 and 2. | 29·245 and —·024. | 29·244 and —·025. |

## JUNE 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Kurnool . . . | 4. | 7·6. | 10·1. |
| Nellore . . . | 6. | 76·3. | 76·1. |
| Calingapatam . . | 16 and 17. | 3·26 and —1·46. | 3·27 and —1·45. |
| Mount Abu . . | 7 and 8. | 78·2 (*c*) and —5·2. | 77·5 and —5·9. |
| Dibrugarh . . . | 4. | 1·5. | 1·2. |
| Silchar . . . | 15, 16, 17, 18 and 19. | 8·2, 17·31, —4·37, 22 and +1·2. | 8·5, 18·06, —3·62, 24 and +3·2. |
| Jessore . . . | 3, 5, 6, 13 and 14. | S 30 E, 83·0, 80·8, 91 and +4. | S 35 E, 82·4, 79·9, 89 and +2. |
| Barisal . . . | 1 and 2. | 29·504 and —·063. | 29·506 and —·061. |
| Hukitala (False Pt.) . | 3, 16, 17, 18 and 19. | S 74 W, 15·73, +7·09, 13 and +2·8. | S 76 W, 16·56, +7·92, 14 and +3·8. |
| Darbhanga . . | 16 and 17. | 7·10 and —0·93. | 7·16 and —0·87. |
| Cuttack . . | 19. | —4·4. | +4·4. |

# JULY 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Diamond Island . . | 16 and 17. | 27·96 and +2·49. | 27·51 and +2·04. |
| Monywa . . . | 3. | S 47 E. | S 45 E. |
| Bhamo . . . | 9 and 10. | 94·5 (*b*) and 76·1. | 94·5 and 76·1 (*b*). |
| Myitkyina . . . | 1, 2, 4, 5, 6, 7, 8, 10, 11, 13, 14, 16, 17, 18 and 19. | 29·168 (*c*), +·017, 1·1 (*d*), 78·7, 77·1, 87·8, +0·7, 74·9, —0·6, 92, 0, 15·52, —3·65, 19 and —2·3. | 29·169, +·018, 1·1, 78·5, 76·9, 88·0, +0·9, 74·8, —0·7, 93, +1, 18·56, —0·61, 21 and —0·3. |
| Page 53 . . . | Omit footnote "(*d*) mean of 28 days." | | |
| Gorakhpur . . . | 1, 2, 16, 17, 18 and 19. | 29. 267, +·012, 18·02, +4·59, 17 and +2·8. | 29·269, +·014, 18·27, +4·84, 18 and +3·8. |
| Benares . . . | 16 and 17. | 10·85 and—0·69. | 10·90 and —0·64. |
| Allahabad . . . | 16, 17, 18 and 19. | 7·37, —4·34, 9 and —4·7. | 9·79, —1·92, 11 and —2·7. |
| Cawnpore . . . | 16, 17, 18 and 19. | 5·16, —5·39, 11 and —1·3. | 5·32, —5·23, 12 and —0·3. |
| Lucknow . . . | 16, 17, 18 and 19. | 10·13, —1·32, 12 and —1·1. | 10·27, —1·18, 13 and —0·1. |
| Bahraich . . . | 16, 17, 18 and 19. | 11·63, +0·73, 10 and —2·0. | 12·41, +1·51, 12 and 0. |
| Agra . . . . | 1, 2, 13 and 14. | 28·932, —·007, 74 and +4. | 28·933, —·006, 73 and +3. |
| Lahore . . . | 16, 17, 18 and 19. | 4·14, —1·34, 4 and —1·8. | 4·30, —1·18, 5 and —0·8. |
| Khushab . . . | 1 and 2. | 28·866 and +·014. | 28·863 and +0·11. |
| Hyderabad (Sind) . | 1 and 2. | 29·402 and +·038. | 29·398 and +·034. |
| Kotah . . . | 16, 17, 18 and 19. | 9·39, —0·11, 10 and —0·5. | 9·52, +0·02, 11 and +0·5. |
| Veraval . . . | 3, 16 and 17. | W, 8·67 and +1·82. | S 87 W, 8·68 and +1·83. |
| Surat . . . | 16, 17, 18 and 19. | 11·91, —4·79, 20 and +4·3. | 14·59, —2·11, 21 and +5·3. |
| Indore . . . | 20. | ·74. | 3·74. |
| Karwar . . . | 1, 2, 3, 4, 7, 8, 15, 16, 17, 18 and 19. | 29·720, +·008, S 25 W, 4·2, 83·0, 0, 8·7, 53·05, +14·99, 27 and 0. | 29·723, +·011, S 23 W, 4·0, 82·9, —0·2, 8·5, 54·00, +15·94, 28 and +1·0. |
| Bijapur . . . | 1, 2, 16, 17, 18 and 19. | 27·797, +·043, 3·54, +1·28, 6 and +1·5. | 27·799, +·045, 3·99, +1·73, 7 and +2·5. |
| Aurangabad . . | 16 and 17. | 5·47 and —1·01. | 5·49 and —0·99. |
| Kurnool . . . | 4. | 5·1. | 8·0. |
| Mukteswar . . | 6 and 20. | 59·8 and 2·38. | 60·0 and 2·44. |
| Chakrata . . . | 11. | +0·3. | +0·1. |
| Mount Abu . . | 1. | 25·770. | 25·774. |
| Dibrugarh . . . | 5. | 80·2. | 80·1. |
| Cherrapunji . . | 16 and 17. | 101·11 and +2·60. | 101·17 and +2·66. |
| Silchar . . . | 16 and 17. | 16·04 and —3·70. | 16·10 and —3·64. |
| Bogra . . . | 7. | 91·3 (*b*). | 91·3. |
| Barisal . . . | 7 and 8. | 87·3 and —0·1. | 87·4 and 0. |

## JULY 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Chittagong . . | 4. | 9·7 (*b*). | 9·4. |
| Jessore . . . | 5 and 6. | 81·8 and 79·3. | 81·7 and 79·1. |
| Cox's Bazar . . | 16, 17, 18 and 19. | 16·31, —18·58, 18 and —4·1. | 16·52, —18·37, 19 and —3·1. |
| Saugor Island . . | 3. | S 27 W. | S 20 W. |
| Darbhanga . . | 3, 16 and 17. | N 72 E, 18·00 and +6·36. | E, 18·05 and +6·41. |
| Chaibasa . . . | 16 and 17. | 11·25 and —0·84. | 11·10 and —0·99. |
| Cuttack . . . | 9. | 93·6. | 94·4. |
| Patna . . . | 1, 2, 6, 7, 8, 16, 17, 18 and 19. | 29·344, +·018, 79·2, 90·3, —0·2, 8·91, —3·03, 17 and +3·1. | 29·340, +·014, 79·1, 90·4, —0·1, 9·23, —2·71, 18, +4·1 and omit (*b*) against the station. |
| Hukitala (False Point) . | 16, 17, 18 and 19. | 26·93, +15·09, 15 and +0·5. | 29·33, +17·49, 16 and +1·5. |

# AUGUST 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Port Blair . . . | 1 and 2. | 29·715 and —·001. | 29·716 and 0. |
| Amherst . . . | 16. | 35·32. | 36·32. |
| Minbu . . . | 16 and 17. | 1·83 and —3·44. | 1·78 and —3·49. |
| Cawnpore . . . | 6, 13 and 14. | 79·0, 73 and —12. | 78·8, 72 and —13. |
| Lucknow . . . | 1 and 2. | 29·198 and +·009. | 29·195 and +·006. |
| Roorkee . . . | 16 and 17. | 3·30 and —8·73. | 3·39 and —8·64. |
| Delhi . . . | 16 and 17. | 0 and —7·42. | 0·02 and —7·40. |
| Ludhiana . . . | 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 13, 14 and 15. | 28·747, +·007, S 48 E, 2·1 (*c*), 85·7, 76·9, 98·5, +3·8, 81·0, +1·7, 67, —11 and 3·2. | 28·743, +·003, S 43 E, 2·1, 85·8, 76·8, 98·6, +3·9, 81·1, +1·8, 66, —12 and 3·1 and omit (*b*) against the station. |
| Khushab . . . | 10 and 11. | 83·0 and +1·6. | 83·2 and +1·8. |
| Srinagar . . . | 7 and 8. | 88·4 and +3·5. | 87·5 and +2·6. |
| Chaman . . . | 5. | 78·6. | 78·5. |
| Mirjawa . . . | 4. | 7·5. | 8·0. |
| Hyderabad (Sind) . | 16 and 17. | 0·85 and —1·27. | 0·84 and —1·28. |
| Karachi . . . | 16 and 17. | 0·12 and —1·55. | 0·14 and —1·53. |
| Bikaner . . . | 3. | S 37 W. | S 40 W. |
| Jodhpur . . . | 16, 17, 18 and 19. | 5·82, +1·42, 5 and —0·3. | 7·59, +3·19, 7 and +1·7. |
| Kotah . . . | 4, 6, 13, 14, 15, 16 and 17. | 4·8 (*c*), 75·9, 73, —1, 4·8, 10·40 and +1·55. | 4·5, 76·0, 74, 0 4·9, 10·49 and +1·64. |
| Deesa . . . | 16, 17, 18 and 19. | 3·19, —5·43, 4 and —5·4. | 3·79, —4·83, 5 and —4·4. |
| Surat . . . | 16, 17, 18 and 19. | 5·10, —2·45, 12 and —0·5. | 5·22, —2·33, 13 and +0·5. |
| Neemuch . . . | 16, 17, 18 and 19. | 11·11, +2·28, 10 and +0·1. | 11·94, +3·11, 11 and +1·1. |
| Nowgong . . . | 16, 17, 18 and 19. | 4·84, —8·63, 8 and —5·7. | 5·07, —8·40, 9 and —4·7. |
| Hoshangabad . . | 10 and 11. | 74·0 and +0·1. | 74·3 and +0·4. |
| Hanamkonda . . | 16, 17, 18 and 19. | 5·56, —0·99, 8 and —2·6. | 5·47, —1·08, 7 and —3·6. |
| Cochin . . . | 10 and 11. | 73·9 and —0·6. | 73·7 and —0·8. |
| Bellary . . . | 4, 7 and 8. | 8·4, 89·3 and —1·6. | 8·5, 89·0 and —1·9. |
| Kurnool . . . | 4. | 8·9. | 9·9. |
| Calingapatam . . | 16, 17, 18 and 19. | 4·46, —4·49, 10 and 0. | 4·94, —4·01, 11 and +1·0. |
| Maymyo . . . | 1, 2, 4, 5, 6, 7, 8, 13, 14, 16, 17, 18 and 19. | 26·244, —·022, 1·7 (*e*), 71·1, 68·6, 76·9, +0·7, 88, —3, 12·31, +3·00, 18 and +2·9. | 26·245, —·021, 1·7, 70·0, 68·6, 76·6, —0·2, 89, —2, 13·90, +4·59, 19 and +3·9 and omit (*b*) against the station. |
| Mukteswar . . | 5, 10, 11, 13 and 14. | 60·8, 58·6, +1·4, 93 and —1. | 60·9, 58·9, +1·7, 92 and —2. |
| Chakrata . . . | 7 and 8. | 69·4 and +0·6. | 69·5 and +0·7. |
| Dharmpore . . | 16. | 18·68. | 18·59. |

## AUGUST 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Murree . . . | 1, 2, 4, 5, 6, 7, 8, 10, 11, 16, 17, 18 and 19. | 23·882, +·042, 4·2, 68·7, 64·1, 74·3, +0·5, 62·6, +1·7, 8·32, —6·56, 11 and —3·6. | 23·886, +·046, 4·0, 68·6, 63·9, 74·2, +0·4, 62·5, +1·6, 8·66, —6·22, 12 and —2·6. |
| Coonoor . . . | 1. | 24·396. | 24·400. |
| Hukitala (False Point). | 3. | S 69 W. | S 70 W. |
| Cox's Bazar . . | 9. | 87·7. | 88·5. |
| Sibsagar . . . | 4. | 1·4 (*b*). | 1·4. |
| Silchar . . . | 16 and 17. | 23·55 and +3·80. | 23·45 and +3·70. |
| Dinajpur . . . | 3. | S 69 E. | S 70 E. |
| Jalpaiguri . . . | 1, 2, 5, 7, 8, 10 and 11. | 29·326, —·023, 80·7, 88·8, +0·3, 77·0 and —0·2. | 29·327, —·022, 80·8, 89·0, +0·5, 77·1 and —0·1 and omit (*b*) against the station. |
| Page 61 . . . | Omit footnote (*b*) mean of 30 days. | | |

# SEPTEMBER 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Tavoy . . . | 4. | 1·6. | 1·5. |
| Rangoon . . . | 7 and 8. | 86·2 and +0·3. | 86·4 and +0·5. |
| Kyaukpyu . . . | 7 and 8. | 86·9 and +1·0. | 87·1 and +1·2. |
| Minbu . . . | 3. | S 38 E. | S 36 E. |
| Yamethin . . . | 16 and 17. | 3·58 and —3·58. | 3·60 and —3·56. |
| Bhamo . . . | 10 and 11. | 75·0 and +0·9. | 75·2 and +1·1. |
| Bahraich . . . | 4. | 2·1 (*p*). | 2·2 (*o*). |
| Page 70 . . . | Footnote. | (*p*) mean of 16 days. | (*o*) mean of 14 days. |
| Roorkee . . . | 16 and 17. | 0·60 and —5·67. | 0·59 and —5·68. |
| Montgomery . . | 4. | 2·8. | 2·7. |
| Gulmarg . . . | 6. | 50·8. | 50·9. |
| Sonamarg (*a*) . . | 16, 17, 18 and 19. | 4·73, +1·26, 5 and —2·5. | 4·93, +1·46, 6 and —1·5. |
| Skardu . . . | 5, 13 and 14. | 57·8, 75 and +18. | 57·9, 74 and +17. |
| Gilgit . . . | 5, 13 and 14. | 62·3, 69 and +17. | 62·7, 68 and +16. |
| Bhuj . . . . | 1 and 2. | 29·425 and +·014. | 29·424 and +·013. |
| Veraval . . . | 16 and 17. | 0·18 and —2·13. | 0·22 and —2·09. |
| Surat . . . | 16 and 17. | 5·84 and —0·05. | 5·91 and +0·02. |
| Nowgong . . . | 1 and 2. | 28·967 and +·023. | 28·960 and +·021. |
| Akola . . . | 16, 17, 18 and 19. | 6·53, +0·84, 7 and —0·9. | 6·72, +1·03, 8 and +0·1. |
| Amraoti . . . | 16, 17, 18 and 19. | 4·99, —1·22, 11 and +2·8. | 5·21, —1·00, 12 and +3·8. |
| Hoshangabad . . | 3. | S 77 W. | S 73 W. |
| Saugor . . . | 15. | 4·8. | 4·9. |
| Trivandrum . . . | 1, 2, 3, 4, 6, 16 and 17. | 29·641, —·014, N 14 W, 7·6 (*d*), 74·3, 1·16 and —2·98. | 29·640, —·015, N 12 W, 7·4, 74·4, 1·21 and —2·93, and omit (*c*) against the station. |
| Page 72 . . . | Omit footnote "(*d*) mean of 28 days" and insert (*r*) mean of 14 days. | | |
| Palamkottah (*a*) . . | 16, 17, 18, 19 and 20. | 0, —1·30, 0, —1·9 and 0. | 0·12, —1·18, 1, —0·9 and 0·12. |
| Madras . . . | 1 and 2. | 29·736 and —·015. | 29·734 and —·017. |
| Kurnool . . . | 7 and 8. | 88·0 and —1·9. | 87·7 and —2·2. |
| Vizagapatam . . | 3. | N 57 W. | N 48 W. |
| Gopalpur . . . | 16, 17, 18 and 19. | 8·95, +1·44, 11 and +1·4. | 9·18, +1·67, 12 and +2·4. |
| Maymyo . . . | 13 and 14. | 91 and 0. | 92 and +1. |
| Mukteswar . . | 7 and 8. | 71·0 and +2·6. | 70·9 and +2·5. |
| Cherat . . . | 5, 6, 13 and 14. | 71·9, 63·2, 63 and +4. | 72·2, 63·3, 62 and +3. |
| Coonoor . . . | 10. | 61·8. | 61·7 (*r*). |

## SEPTEMBER 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Tezpur . . . | 7 and 8. | 89·4 and +0·8. | 90·9 and +2·3. |
| Silchar . . . | 7, 8, 16 and 17. | 88·3, —1·5, 14·93 and +0·52. | 88·5, —1·3, 15·40 and +0·99. |
| Shillong . . . | 15. | 8·1. | 7·9. |
| Mymensingh . . | 3, 7, 8, 9, 10, 11, 16, 17, 18 and 19. | S 63 E, 87·0, —0·7, 89·5, 78·2, +0·4, 12·98, —0·76, 17 and +2·0. | S 68 E, 87·8, +0·1, 94·7, 78·0, +0·2, 13·56, —0·18, 19 and +4·0. |
| Narayanganj . . | 16 and 17. | 7·88 and —1·75. | 7·85 and —1·78. |
| Saugor Island . . | 10 and 11. | 79·5 and 0. | 79·6 and +0·1. |
| Patna . . . | 7, 8, 10, 11, 12, 16, 17, 18 and 19. | 93·2, +3·7, 81·1 +2·3, 78·6, 2·17, —6·16, 6 and —3·2. | 93·9, +4·4, 80·9, +2·1, 78·4, 2·31, —6·02, 7 and —2·2. |
| Darbhanga . . | 5, 6, 10, 11, 13, 14 and 15. | 83·4, 79·6, 79·6, +1·2, 84, —2 and 7·5. | 83·3, 79·4, 79·5, +1·1, 83, —3 and 7·3. |
| Chaibasa . . . | 7 and 8. | 89·9 and +0·5. | 90·5 and +1·1. |
| Sambalpur . . . | 7 and 8. | 89·8 and +1·0. | 89·9 and +1·1. |
| Hukitala (False Point). | 1, 2 and 3. | 29·659 (*d*), —·005 and S 72 W | 29·660, —·004 and S 77 W and omit (*c*) against the station. |
| Page 69 . . . | Omit footnote (*c*) mean of 29 days and (*d*) mean of 28 days. | | |

# OCTOBER 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Tavoy . . . | 1, 2, 3, 6, 7, 8, 10, 11 and 15. | 29·873, +·017, S 56 E, 74·1, 89·2, +1·6, 71·5, —2·4 and 4·9. | 29·872, +·016, S 71 E, 74·2, 89·0, +1·4, 71·6, —2·3 and 5·0 and omit (*b*) against the station. |
| Amherst . . . | 1, 2, 5, 10 and 15. | 29·823, +·022, 79·8, 74·2 and 3·7. | 29·825, .... 79·9, 74·3 and 3·3, and omit (*b*) against the station. |
| Diamond Island . . | 5, 13 and 14. | 81·5, 83 and —1. | 81·7, 82 and —2. |
| Akyab . . . | 5, 13 and 14. | 79·2, 88 and —3. | 79·1, 89 and —2. |
| Minbu . . . | 1, 5, 6, 7 and 8. | 29·708, 78·4, 75·6, 88·1 and —2·0. | 29·709, 78·5, 75·8, 88·3 and —1·8. |
| Monywa . . . | 4. | 1·7. | 1·6. |
| Lashio . . . | 1 and 2. | 29·130 and +·017. | 27·135 and +·022. |
| Myitkyina . . . | 10 and 11. | 68·2 and —1·8. | 68·1 and —1·9. |
| Jhansi . . . | 16 and 17. | 5·75 and +4·88. | 5·84 and +4·97. |
| Bareilly . . . | 3. | N 89 E. | N 86 E. |
| Roorkee . . . | 16 and 17. | 0 and —0·70. | 0·01 and —0·69. |
| Hissar . . . | 16 and 17. | 0·56 and +0·25. | 0·65 and +0·34. |
| Ambala . . . | 1, 2, 4, 5, 7, 10, 13 and 14. | 28·946, —·008, 2·1 (*c*), 76·7, 95·4, 64·4, 53 and —150. | 28·940, —·014, 2·1, 76·6, 95·3, 64·5, 54 and —14, and omit (*b*) against the station. |
| Khanpur . . . | 10. | 58·5. | 58·3. |
| Dras . . . . | 6, 13 and 14. | 33·9 (*b*), 67 (*b*) and —3. | 33·9 (*m*), 66 (*m*) and —4. |
| Page 78 . . . | Insert footnote | "(*m*) mean of 19 days." | |
| Peshawar . . . | 5, 13 and 14. | 65·5, 68 and +6. | 65·7, 67 and +5. |
| Chaman . . . | 3. | S 61 E. | S 62 E. |
| Dalbandin . . . | 3. | N 71 E. | N 76 E. |
| Surat . . . | 1 and 2. | 29·820 (*b*) and —·020. | 29·825 and —·015. |
| Pendra . . . | 16 and 17. | 6·28 and +3·42. | 6·30 and +3·44. |
| Kanker . . . | 16. | 1·43. | 1·42. |
| Chanda . . . | 16 and 17. | 2·76 and +1·03. | 2·75 and +1·02. |
| Ratnagiri . . . | 15, 16, 17, 18 and 19. | 2·9, 5·21, +1·49, 9 and +4·0. | 2·6, 5·45, +1·73, 10 and +5·0. |
| Karwar . . . | 16, 17, 18 and 19. | 16·06, +10·43, 12 and +4·9. | 16·18, +10·55, 13 and +5·9. |
| Bijapur . . . | 1 and 2. | 27·918 and —·003. | 27·919 and —·002. |
| Belgaum . . . | 16, 17, 18 and 19. | 5·01, +0·34, 10 and +2·4. | 5·79, +1·12, 11 and +3·4. |
| Aurangabad . . | 16 and 17. | 3·04 and +1·48. | 3·08 and +1·52. |
| Hyderabad (Dn.) . | 4. | 3·4. | 3·0. |
| Palamkottah (*a*) . . | 16, 17, 18 and 19. | 3·16, —3·66, 5 and —4·0. | 3·45, —3·37, 6 and —3·0. |
| Madura . . . | 16 and 17. | 5·17 and —2·65. | 5·16 and —2·66. |

## OCTOBER 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Coimbatore . . . | 1 and 2. | 28·491 and —·023. | 28·493 and —·021. |
| Cuddapah . . . | 1, 2 and 3. | 29·399, —·019 and N 13 E. | 29·400, —·018 and N 2 E. |
| Gopalpur . . . | 1, 2, 4, 5, 6, 7, 8, 10, 11, 15, 16, 17, 18 and 19. | 29·780, —·008, 5·1 (*e*), 81·1, 78·3, 87·3, —0·7, 76·7, +2·0, 4·7, 9·99, +1·97, 13 and +6·3. | 29·784, —·004, 5·3, 81·0, 78·2, 87·1, —0·9, 76·5, +1·8, 4·8, 13·22, +5·20, 14 and +7·3 and omit (*b*) against the station. |
| Maymyo . . . | 1, 2, 16 and 17. | 26·434, +·018, 8·25 and +0·63. | 26·432, +·016, 8·33 and +0·71. |
| Simla . . . | 16 and 17. | 0·67 and —0·41. | 0·72 and —0·36. |
| Murree . . . | 1, 2, 4, 5, 6, 7, 8, 10, 11 and 15. | 24·049, +·035, 3·1 (*c*), 63·6, 50·2, 70·7, +2·2, 58·6, +5·2, and 0·6. | 24·048, +·034, 3·0, 63·5, 50·1, 70·5, +2·0, 58·5, +5·1 and 0·5, and omit (*b*) against the station. |
| Cherrapunji . . | 16 and 17. | 36·45 and +15·19. | 36·34 and +15·08. |
| Silchar . . . | 5, 6, 7, 8, 13, 14, 16, 17, 18 and 19. | 76·5, 74·3, 85·4, —3·2, 90, +1, 21·67, +15·12, 14 and +6·4. | 76·7, 74·4, 85·3, —3·3, 89, 0, 21·83, +15·28, 15 and +7·4. |
| Jalpaiguri . . . | 4. | 0·7. | 0·6. |
| Bogra . . . | 15. | 6·5. | 6·2. |
| Mymensingh . . | 16 and 17. | 24·30 and +18·50. | 24·31 and +18·51. |
| Calcutta . . . | 16 and 17. | 2·83 and —1·36. | 2·92 and —1·27. |
| Chittagong . . | 7 and 8. | 86·2 and —0·5. | 86·3 and —0·4. |
| Saugor Island . . | 15. | 7·6. | 7·5. |
| Patna . . . | 7 and 8. | 89·2 and +0·8. | 89·3 and +0·9. |
| Purnea . . . | 7 and 8 | 88·4 and +0·9. | 88·5 and +1·0. |
| Darbhanga . . | 9. | 93·5. | 93·3. |

# NOVEMBER 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Victoria Point . . | 4, 5, 10, 11, 13, 14, 16, 17, 18 and 19. | 5·1, 78·5, 74·9, +0·4, 79, —3, 1·53, —4·26, 2 and —9·0. | 5·2, 78·7, 74·7, +0·2, 78, —4, 1·63, —4·16, 3 and —8·0. |
| Minbu . . . | 1, 2, 5, 6, 7, 8, 10 and 11. | 29·814, +·024, 72·7, 67·9, 86·2, —0·5, 66·9 and —2·0. | 29·811, +·021, 72·5, 67·7, 86·1, —0·6, 66·5 and —2·4 and omit (*c*) against the station. |
| Bahraich . . . | 1 and 2. | 29·568 and +·002. | 29·572 and +·006. |
| Jhansi . . . | 16, 17 and 20. | 0, —0·17 and 0. | 0·01, —0·16 and 0·01. |
| Agra . . . . | 16, 17, 18, 19 and 20. | 0, —0·12, 0, —0·3 and 0. | 0·38, +0·26, 1, +0·7 and 0·38. |
| Bareilly . . . | 16, 17, 18, 19 and 20. | 0, —0·23, 0, —0·4 and 0. | 0·38, +0·15, 1, +0·6 and 0·38. |
| Delhi . . . | 16 and 17. | 0·46 and +0·35. | 0·53 and +0·42. |
| Hissar . . . | 16 and 17. | 0·83 and +0·80. | 0·84 and +0·81. |
| Sialkot . . . | 16 and 17. | 3·53 and +3·42. | 3·39 and +3·28. |
| Rawalpindi. . . | 16 and 17. | 2·80 and +2·54. | 2·89 and +2·63. |
| Dras . . . . | 16, 17, 18 and 19. | 1·36, +0·92, 5 and +3·8. | 1·46, +1·02, 6 and +4·8. |
| Skardu . . . | 1, 2, 5, 13 and 14. | 22·976, —·016, 33·6, 82 (*q*) and +4. | 22·975, —·017, 33·9, 78 (*q*) and 0. |
| Peshawar . . . | 13, 14, 15, 16 and 17. | 78, +10, 3·2, 3·20 and +2·92. | 79, +11, 3·7, 3·05 and +2·77. |
| Dera Ismail Khan . | 6, 13 and 14. | 53·6, 79 and +13. | 53·5, 78 and +12. |
| Quetta . . . | 8 and 11. | —1·0 and +3·0. | +0·3 and +1·0. |
| Chaman . . . | 1, 2, 10 and 11. | 25·738, —·053, 47·0 and +4·8. | 25·742, —·049, 46·8 and +4·6. |
| Ahmadabad . . | 1 and 2. | 29·859 and +·046. | 29·858 and +·045. |
| Indore . . . | 1 and 2. | 28·145 and +·001. | 28·147 and +·003. |
| Nowgong . . . | 1 and 2. | 29·264 and +·039. | 29·260 and +·035. |
| Khandwa . . . | 1 and 2. | 28·942 and +·023. | 28·940 and +·021. |
| Pendra . . . | 1 and 2. | 27·932 and +·006. | 27·933 and +·007. |
| Raipur . . . | 1 and 2. | 29·017 and +·029. | 29·020 and +·032. |
| Poona . . . | 6, 13 and 14. | 62·6 (*d*), 64 (*d*) and +1. | 61·6 (*h*), 60 (*h*) and —3. |
| Palamkottah (*a*) . . | 16, 17, 18 and 19. | 7·52, +0·11, 10 and +0·2. | 7·50, +0·09, 11 and +1·2. |
| Cuddapah . . . | 3. | S 72 E. | S 19 E. |
| Maymyo . . . | 1, 2, 16 and 17. | 26·485, +·022, 1·82 and —1·45. | 26·482, +·019, 1·89 and —1·38. |
| Mukteswar . . | 10 and 11. | 43·9 and +1·3. | 44·0 and +1·4. |
| Simla . . . | 16 and 17. | 1·25 and +0·73. | 1·28 and +0·76. |
| Cherat . . . | 3. | N 18 W (*c*). | N 17 W. |
| Parachinar . . | 6, 10, 11, 13 and 14. | 41·4 (*c*), 38·4, —1·2, 55 (*c*) and +9. | 41·6 (*c*), 38·2, —1·4, 56 (*c*) and +10. |
| Drosh . . . | 10 and 11. | 44·2 and +0·5. | 44·5 and +0·8. |
| Dibrugarh . . . | 3. | S 84 E. | S 45 E. |

## NOVEMBER 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Tezpur . . . | 7 and 8. | 81·9 and +1·4. | 82 3 and +1·8. |
| Shillong . . . | 3. | S 39 E. | S 30 E. |
| Cherrapunji . . | 1 and 2. | 25·758 (*c*) and +·027. | 25·760 and +·029. |
| Silchar . . . | 1, 2 and 6. | 29·928, +·052 and 64·3. | 29·927 +·051 and 64·2. |
| Jalpaiguri . . . | 15, 16, 17, 18, 19 and 20. | 3·4, 0·22, +0·02, 2, +1·6 and 0·12. | 3·5, 0·42, +0·22, 3, +2·6 and 0·20. |
| Darjiling . . . | 15. | 5·2. | 5·4. |
| Mymensingh . . | 15. | 1·4. | 1·7. |
| Barisal . . . | 3. | Calm. | N 45 E. |
| Saugor Island . . | 4. | 6·1. | 5·1. |
| Berhampore . . | 10 and 11. | 63·2 and —1·1. | 63·3 and —1·0. |
| Darbhanga . . | 7, 8 and 9. | 83·7, +1·9 and 90·2. | 83·6, +1·8 and 87·6. |
| Balasore . . . | 3. | N 29 W. | N 28 W. |
| Sambalpur . . . | 4, 7 and 8. | 1·8 (*c*), 85·8 and +2·0. | 1·2, 86·0 and +2·2. |

# DECEMBER 1928.

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Minbu . . . | 1 and 2. | 29·830 and —.012. | 29·829 and —.013. |
| Monywa . . . | 3. | N 12 W. | N 14 W. |
| Bhamo . . . | 7 and 8. | 76·3 and +0·8. | 76·2 and + 0·7. |
| Mainpuri . . . | 10 and 11. | 47·1 and +0·5. | 46·8 and +0·2. |
| Sialkot . . . | 4. | 1·4. | 0·9. |
| Khushab . . . | 4. | 1·9. | 1·7. |
| Peshawar . . . | 1, 2, 5, 6, 7, 8, 15, 18 and 19. | 28·931, —·023, 44·5, 42·7, 62·0, —4·6, 3·7, 7 and +5·7. | 28·930, —·024, 44·1, 42·4, 61·9, —4·7. 3·5, 6 and + 4·7. |
| Kalat . . . | 7, 8 and 15. | 50·7, —4·6 and 2·1. | 50·4, —4·9 and 2·0. |
| Mirjawa . . . | 4. | 4·7. | 4·5. |
| Hyderabad . . | Omit the figures in columns 10 and 11. | | |
| Bikaner . . . | 3. | S 61 E. | S 62 E. |
| Bhuj . . . . | Omit the figures in columns 10, 11 and 12. | | |
| Khandwa . . . | 3. | N 73 E. | N 75 E. |
| Jubbulpore . . | 1 and 2. | 28·661, and —·019. | 28·662 and —·018. |
| Marmagao . . . | 4. | 0·7. | 0·6. |
| Bijapur . . . | 4. | 2·1. | 2·0. |
| Aurangabad . . | 16 and 17. | 0 and —0·29 | 0·08 and —0·21. |
| Gulbarga . . . | 7 and 8. | 85·4 (*r*) and —0·1. | 87·3 (*w*) and +2·0. |
| Page 96 . . . | Insert "(*w*) mean of 9 days" in the footnote. | | |
| Hanamkonda . . | 1, 2, 4, 5, 6, 10, 11, 13, 14, 15, 16, 17, 18, 19 and 20. | 29·111, —·006, 2·9 (*c*), 69·2, 63·2, 62·3, +1·4, 70, +6, 3·8, 0·21, —0·01, 1, +0·6 and 0·10. | 29·110, —·007, 2·9, 69·3, 63·4, 62·6, 1·7, 71, +7, 3·9, 0·37, +0·15, 2, +1·6 and 0·15. |
| Mysore . . . | 1 and 2. | 27·415 and —·028. | 27·414 and —·029. |
| Coimbatore. . . | 1 and 2. | 28·572 and —·031. | 28·573 and —·030. |
| Kurnool . . . | 3. | N 55 E. | N 58 E. |
| Nellore . . . | 1, 2, 3, 4, 5, 6, 7, 8, 10, 11 and 15. | 29·904, —·013, N 39 W, 3·3 (*c*), 73·0 70·5, 84·1, +0·2, 70·2, +2·1 and 5·2. | 29·902, —·015, N 40 W, 3·3, 73·3, 70·6, 84·2, +0·3, 70·3, +2·2 and 5·3. |
| Page 96 . . . | Omit (*b*) against Nellore. | | |
| Simla . . . | 1, 2, 16 and 17. | 23·147, +·030, 2·18 and +1·07. | 23·148, +·031, 2·20, +1·09. |
| Murree . . . | 16, 17, 18, 19 and 20. | 1·58, +0·01, 4, +1·2 and 0·70. | 3·58, +2·01, 5, +2·2 and 2·00. |
| Barisal . . . | 3 and 15. | N 14 W and 0·7. | N 22 W and 0·8. |
| Chittagong . . | 3, 4, 7, 8 and 15. | N 40 E, 2·7 (*d*), 81·7, +3·3, and 2·2. | N 37 E, 2·7, 81·6, +3·2 and 2·3. |
| Mymensingh . . | 7 and 8. | 79·3 and +2·3. | 79·4 and +2·4. |
| Saugor Island . . | 7 and 8. | 77·4 and +0·7. | 77·6 and +0·9. |

## DECEMBER 1928—*concld.*

| Reference. | Figure Column. | For | Read |
|---|---|---|---|
| Tezpur . . . | 7 and 8. | 76·2 and +1·7. | 76·1 and +1·6. |
| Cherrapunji . . | 5, 6, 13, 14 and 15. | 57·4, 49·3, 56, —12 and 2·7. | 57·7, 49·7, 57, —11 and 2·9. |
| Silchar . . . | 1, 2, 3 and 15. | 29·931, —·003, S 77 E and 5·7. | 29·932, —·002, S 82 E and 3·2. |
| Page 93 . . . | Omit footnote (*d*) mean of 28 days. | | |
| Patna . . . | 15. | 2·6. | 2·9. |
| Darbhanga . . | 7, 8 and 9. | 76·4, +1·5 and 80·6. | 77·2, +2·3 and 81·0. |
| Purnea . . . | 7 and 8. | 78·4 and +2·7. | 78·5 and +2·8. |
| Ranchi . . . | 7 and 8. | 73·4 and +0·3. | 73·5 and +0·4. |
| Chaibasa . . . | 7, 8, 10 and 11. | 78·4, +0·4, 52·2 (*b*) and +1·5. | 78·6, +0·6, 52·4 and +1·7. |

## SUPPLEMENTARY ERRATA FOR MARCH 1925.

| | | | |
|---|---|---|---|
| Calcutta . . . | 1 | 29·330 | 29·830 |

MGIPC—85—VIII-3-13—24-9-29—290.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART A.

## SUMMARY OF WEATHER AND RAINFALL

CONTENTS


| | Page. |
|---|---|
| Chief features of weather in 1928 | A 1 |
| General remarks on weather of 1928 | A 1 |
| **Pressure—** | |
| Table A-1 | A 4 |
| **Temperature—** | |
| Table A-2 | A 6 |
| Table A-3 | A 8 |
| **Aqueous Vapour Pressure—** | |
| Table A-4 | A 10 |
| **Relative Humidity—** | |
| Table A-5 | A 10 |
| **Cloud—** | |
| Table A-6 | A 11 |
| **Rainfall and Rainy Days—** | |
| Table A-7 | A 12 |
| Table A-8 | A 14 |
| Table A-9 | A 18 |
| Table A-10 | A 19 |
| Table A-11 | A 20 |
| Table A-12 | A 21 |



**Published by Authority of the Government of India**

UNDER THE DIRECTION OF

**C. W. B. NORMAND, M.A., D.Sc.,**

*Director General of Observatories*

CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

***Price Rs. 2-6 or 4s. 3d.***

GOVERNMENT OF INDIA

# METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART B

## SNOWFALL

CONTENTS


| | Page | | Page |
|---|---|---|---|
| Cold weather period | B1 | South-West monsoon period | B5 |
| Hot weather period | B3 | Retreating monsoon period | B7 |



Published by Authority of the Government of India

UNDER THE DIRECTION OF



C. W. B. NORMAND, M.A., D.Sc.,

*Director General of Observatories*



LIBRARY 1923 - 1930 WEATHER BUREAU



CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART C

## STORMS AND DEPRESSIONS

CONTENTS


| | Page | | Page |
|---|---|---|---|
| Depressions and Cyclonic Storms | C 1 | Local Storms | C 16 |
| Western Disturbances | C 15 | Winds of force nine or more in Indian Seas | C 18 |



**Published by Authority of the Government of India**

UNDER THE DIRECTION OF

**C.W.B. NORMAND, M.A., D.Sc.,**

*Director General of Observatories*

CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

***Price Rs. 1-6 or 2s. 6d.***

GOVERNMENT OF INDIA

# METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART D

# ANNUAL TABLES

CONTENTS


| | Page |
|---|---|
| Table D-1.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations | D1 |
| Table D-2.—Abstract of observations taken at 4 and 14 hrs. (G. M. T.) at 11 stations in Persia and the adjoining areas | D17 |
| Table D-3.—Abstract of observations taken at 8 hrs. at 209 stations | D31 |
| Table D-4.—Abstract of forenoon or afternoon observations taken at 9 stations in Persia, etc. | D53 |
| Table D-5.—Abstract of observations taken at 8 hrs. at 19 fourth class stations | D59 |
| Table D-6.—Abstract of observations taken at 8 hrs. at 34 fifth class stations | D67 |
| Appendix.—Containing Climatic Tables of Kodaikanal and Madras and tables of extra observations taken at Lahore, Bombay and Trivandrum | D73 |



Published by Authority of the Government of India

UNDER THE DIRECTION OF

C. W. B. NORMAND, M.A., D.Sc.,

*Director General of Observatories*

CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

**Price Re. 1 or 1s. 9d.**

GOVERNMENT OF INDIA

# METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART E.

# SEISMIC RECORDS.

CONTENTS


| | Page |
|---|---|
| Kodaikanal | E 1 |
| Bombay | E 5 |
| Calcutta | E 12 |
| Earthquake Reports | E 16 |



**Published by Authority of the Government of India**

UNDER THE DIRECTION OF

**C.W.B. NORMAND, M. A., D.Sc.**

*Director General of Observatories*



LIBRARY
DEC 28 1929
WEATHER BUREAU



CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

***Price Re. 1-12 or 3s.***

GOVERNMENT OF INDIA

# METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART F

## ERRATA TO MONTHLY WEATHER REPORTS

CONTENTS.


| | Page. | | Page. |
|---|---|---|---|
| January | F. 1 | July | F. 12 |
| February | F. 3 | August | F. 14 |
| March | F. 5 | September | F. 16 |
| April | F. 7 | October | F. 18 |
| May | F. 9 | November | F. 20 |
| June | F. 10 | December | F. 22 |



**Published by Authority of the Government of India**

UNDER THE DIRECTION OF

**C. W. B. NORMAND, M.A., D.Sc.,**

*Director General of Observatories*



LIBRARY
DEC 15 1929
WEATHER BUREAU



CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

*Price Re. 1-4 or 2s. 3d.*

GOVERNMENT OF INDIA

# METEOROLOGICAL DEPARTMENT

# INDIA WEATHER REVIEW

## ANNUAL SUMMARY FOR 1928

## PART G

# INTRODUCTION

CONTENTS


| | Page |
|---|---|
| Introduction | i to iii |
| Publications of the Department | a to d |


LIBRARY
FEB 21 1930
WEATHER BUREAU

**Published by Authority of the Government of India**

UNDER THE DIRECTION OF

**C. W. B. NORMAND, M.A., D.Sc.,**

*Director General of Observatories*

CALCUTTA: GOVERNMENT OF INDIA
CENTRAL PUBLICATION BRANCH
1929

***Price As. 9 or 1s.***