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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No.	226.	W.	Press.
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Dated 29.1.1880			197.

2. 21.
Not to be folded or roughly handled.

GOVERNMENT OF MADRAS.
PUBLIC DEPARTMENT.

15th January 1880, No. 60.

Administration Report.

Read again—

Letter from G. STOKES, Esq., dated 13th December 1879, recorded in G.O., dated 13th December 1879, No. 1757.

Read also—

No. 26. *Letter from the Government Astronomer, dated 20th December 1879.*

REPORT OF THE METEOROLOGICAL SUPERINTENDENT FOR THE YEAR 1878.

The Madras Meteorological Department comprises eleven stations, viz., Bangalore, Bellary, Cochin, Coimbatore, Madura, Masulipatam, Negapatam, Salem, Secunderabad, Trichinopoly, and Wellington. The observations made at these places should all be reduced and sent to head-quarters at Madras for revision, but the necessary reductions were only made at six stations; the mere records being supplied from Bellary, Madura, Secunderabad, and Wellington, while those from Masulipatam have been withheld since June 1878. The Wellington register, formerly one of the best kept in the Presidency, was so incomplete, owing to broken thermometers, that the results are still unavailable.

2. Occasional personal inspection of the stations is indispensable to ensure the returns being trustworthy, but no Government Astronomer who duly regards his far higher astronomical pursuits at the Madras Observatory can ever be expected or required to leave them and travel round the Presidency on such distasteful minor duty. The serious illness of the only European Assistant attached to the Observatory throughout the year 1878 render this quite impossible, and the Astronomer's request to be relieved of the very unwelcome and incompatible superintendence of the Presidency meteorology, made to Government in December 1877, in reply to special inquiries as to how he could best be aided in future, has remained unanswered ever since.

3. Copies of the returns for nine of the stations and for Madras, reduced or revised at the Observatory, were communicated to the Meteorological Reporter to the Government of India, unavoidably and with regret, much later than was desirable to render them available to that officer. Those for Masulipatam and Wellington have not yet been supplied for the reasons just stated. A telegraphic code weather report has also been wired direct from the Madras Observatory to the Government Telegraph Office, daily at noon throughout the year, for immediate despatch to Simla or Calcutta.

4. The monthly mean and extreme results of the establishment for the years 1870 to 1876 have been printed in the *Fort St. George Gazette* Meteorological Supplements, and more complete tabular details for the eleven years 1848 to 1878 are in hand and will be published as soon as possible. The desire to finish these in as satisfactory a form as time will permit, so as to hand over charge of the office free from any arrears, has been the only motive which has induced the Government Astronomer to delay his formal resignation of the Meteorological Superintendency; and as soon as this can be effected the total separation of the two offices will be equally beneficial to both departments.

5. Hitherto the most scrupulous care has been exercised in regard to the corrections of the barometers, thermometers, and anemometers issued to the various stations for use. Increasing importance of his astronomical duties no longer permits the Superintendent to bestow the same amount of time and attention upon meteorological matters as in former years, and there is just now no reserve supply of instruments left to replace those broken or missing. Agreeably to the expressed wish of Government, the monthly and annual rainfall in the Districts of the Madras Presidency, and the annual average for nine years, deduced from all Revenue Board Rain Stations which have been supplied with rain gauges tested by the Government Astronomer before issue, has been appended. Several fresh stations have been started in various Districts within the last two years, supplied with untested gauges from the Public Works Workshops; but as any returns kept with such instruments must be comparatively worthless, the new registers have been rejected in forming the District means for 1878. This will account for discrepancies between the figures here given and those in the similar returns published by the Revenue Board.

Mean Annual Meteorological Results for 1878.

Stations.	Barometer Pressure.	Solar heat in Vacuo.	Temperature in shade.	Daily Range.	Relative Humidity.	Daily Velocity of Wind.	Rainfall.
					Cents.	Miles.	
Bangalore ..	26.933	145.5	74.0	20.5	66	94	40.81
Bellary ..	28.380	146.5	81.6	22.6	57	133	25.34
Cochin ..	29.884	145.9	80.5	13.3	80	75	153.28
Coimbatore ..	28.517	153.5	79.1	21.4	61	108	17.71
Madras ..	29.648	138.1	82.4	15.9	70	161	28.65
Madura ..	29.411	139.7	83.0	20.8	..	97	11.24
Masulipatam ..	29.842	146.1	82.9	13.7	71	83	39.55
Negapatam ..	29.944	..	81.6	21.0	70	113	33.19
Salem ..	28.041	150.9	78.6	22.3	52	133	44.54
Secunderabad ..	29.601	152.9	83.1	20.5	63	85	26.57
Trichinopoly ..	..	..	..	..	..	..	..
Wellington ..	..	..	..	..	..	..	..

Extreme Meteorological Records in 1878.

Stations.	SUN MAXIMUM.		SHADE MAXIMUM.		SHADE MINIMUM.		WIND.		RAIN.	
	on		on		on		Miles.	on	Inches	on
Bangalore ..	167.4	April 14	97.7	May 16	54.2	January 19	303	June 21	5.23	August 21
Bellary ..	171.5	April 28	108.5	April 24	55.1	Dec. 24	318	July 27	1.62	Sep. 27
Cochin ..	159.6	Nov. 23	95.9	February 6	69.1	January 11	183	July 23	5.47	August 24
Coimbatore ..	155.7	March 19	103.7	April 11	61.4	Dec. 8	311	June 18	3.06	April 17
Madras ..	158.4	June 20	109.5	June 2	61.5	Nov. 19	309	May 12	4.37	Oct. 6
Madura ..	153.2	April 13	108.6	June 13	68.7	March 2	284	January 7	2.35	May 24
Masulipatam ..	172.7	June 3	115.9	June 3	65.8	June 2	..	May 12	1.31	June 25
Negapatam ..	159.7	May 11	106.2	May 28	66.7	Nov. 20	356	January 14	4.64	Oct. 27
Salem ..	..	..	105.7	April 4	61.1	Feb. 20	279	April 14	3.00	June 17
Secunderabad ..	173.9	May 26	109.9	June 5	46.7	Dec. 25	504	July 22	3.68	August 31
Trichinopoly ..	168.3	March 19	104.7	June 4	64.3	Dec. 23	312	Aug. 5	2.21	Oct. 4
Wellington ..	148.5	April 15	80.7	March 31	46.5	March 27	..	July 20	6.00	April 27

Monthly Rainfall in the Districts of the Madras Presidency in the Year 1878.

District.	January.		February.		March.		April.		May.		June.		July.	
	In.	Days.	In.	Days.	In.	Days.	In.	Days.	In.	Days.	In.	Days.	In.	Days.
Arcoot, North ..	0.01	0.2	..	..	0.05	0.1	0.94	1.5	1.68	4.4	2.95	4.4	5.49	9.7
Arcoot, South ..	0.32	0.7	..	..	..	..	0.75	1.5	2.23	3.5	2.35	3.0	2.97	5.9
Bellary ..	..	..	..	..	0.05	0.2	0.63	1.9	2.45	5.1	3.02	5.3	4.81	9.8
Canara, South ..	..	..	..	..	0.02	0.3	1.70	2.2	6.06	8.4	45.21	25.2	31.52	25.6
Chingleput ..	0.39	0.6	..	..	0.01	0.1	0.58	1.7	1.63	3.1	1.73	4.0	4.29	9.6
Coimbatore ..	0.13	0.5	..	..	0.01	0.1	2.06	2.7	3.55	6.0	1.59	4.4	2.85	8.4
Cuddapah ..	..	..	..	..	0.17	0.4	0.46	1.4	1.16	3.7	3.12	5.1	7.84	11.5
Ganjam ..	0.00	0.1	0.12	0.4	0.85	2.1	0.37	1.8	2.88	6.2	1.81	3.4	0.87	13.8
Godavari ..	..	..	..	..	0.07	0.3	0.82	1.1	2.66	4.5	4.30	5.5	12.74	16.5
Kistna ..	..	..	..	..	0.03	0.1	0.99	1.1	1.99	4.5	4.13	6.9	11.79	17.3
Kurnool ..	..	..	..	..	0.34	0.1	1.21	1.4	1.50	3.0	2.33	5.1	8.99	14.2
Madura ..	1.13	2.2	..	..	0.07	0.2	2.44	3.7	4.08	4.9	1.50	2.9	2.18	3.8
Malabar ..	0.01	0.1	..	..	0.92	1.2	3.52	6.0	6.93	9.3	35.60	24.3	22.05	20.7
Nellore ..	..	..	..	..	..	..	0.53	1.6	0.97	2.1	0.71	2.4	5.11	10.1
Salem ..	0.02	0.1	..	..	0.35	0.4	2.47	2.5	3.22	6.7	3.70	5.1	5.71	9.3
Tanjore ..	3.40	3.0	..	..	0.08	0.3	0.66	1.8	1.37	3.6	1.21	1.8	1.80	4.5
Tinnevely ..	1.83	3.1	..	..	0.18	0.7	3.67	5.5	2.23	4.6	1.64	4.6	0.93	3.1
Trichinopoly ..	1.52	1.8	..	..	..	..	3.22	4.4	3.18	5.6	0.97	1.4	4.67	6.8
Vizagapatam ..	..	..	..	..	0.73	1.5	0.76	1.5	4.07	6.8	3.75	4.6	9.23	13.0
Average of the nineteen Districts	0.46	0.6	0.00	0.0	0.21	0.5	1.46	2.4	2.87	5.1	6.40	6.3	7.99	11.2
Mysore (Bangalore)	..	..	..	..	..	..	2.68	3.0	3.76	12.0	2.50	10.0	5.84	13.0
Presidency Average including Mysore	0.44	0.6	0.01	0.0	0.20	0.4	1.52	2.4	2.91	5.5	6.21	6.5	7.88	11.3

District.	August.		September.		October.		November.		December.		ANNUAL RAINFALL			
	In.	Days.	In.	Days.	In.	Days.	In.	Days.	In.	Days.	In.	Days.	In.	Days.
Arcoot, North ..	11.27	14.2	5.60	9.4	4.91	7.2	3.76	5.1	1.26	3.1	37.62	59.3	37.60	54.0
Arcoot, South ..	6.64	12.4	8.04	9.6	2.81	4.6	7.47	6.9	1.28	4.0	34.86	52.1	41.58	54.9
Bellary ..	7.37	12.4	6.73	10.8	6.38	7.9	1.93	3.0	0.06	0.2	33.42	56.6	25.03	45.7
Canara, South ..	48.13	27.8	31.96	29.0	10.67	14.6	1.87	4.6	1.47	2.4	178.61	140.6	143.52	130.7
Chingleput ..	7.34	13.0	6.46	9.1	4.56	5.3	2.00	4.3	1.18	3.4	30.14	54.2	43.62	55.7
Coimbatore ..	3.98	8.8	3.18	8.2	4.90	7.9	2.44	6.0	7.70	2.4	32.39	55.4	24.73	48.3
Cuddapah ..	7.07	13.0	8.34	10.8	4.85	8.5	3.20	5.1	0.70	1.5	36.92	61.0	30.03	46.3
Ganjam ..	12.23	14.6	6.17	12.7	12.42	10.9	6.22	7.4	12.58	5.9	62.52	79.3	44.92	63.0
Godavari ..	10.83	16.3	8.98	12.6	13.83	12.8	4.22	4.2	3.34	2.6	61.79	6.4	39.33	53.2
Kistna ..	8.96	15.5	6.45	10.6	13.08	12.9	2.34	4.8	0.20	0.7	49.95	74.4	33.09	53.2
Kurnool ..	12.23	16.1	7.59	13.3	7.15	11.8	1.64	4.3	0.00	0.1	42.98	69.4	28.10	46.5
Madura ..	8.69	6.6	2.28	4.6	3.49	5.9	4.45	7.1	1.37	2.9	25.68	44.8	28.56	45.0
Malabar ..	33.02	26.1	24.24	26.9	12.40	17.7	4.37	9.7	1.38	3.8	144.44	145.8	115.59	123.1
Nellore ..	5.74	11.7	5.37	9.1	4.92	9.2	2.65	5.2	2.93	4.4	28.93	55.2	33.26	43.0
Salem ..	7.25	11.7	5.25	9.8	5.26	7.7	4.49	5.5	0.56	1.7	38.98	60.6	34.59	53.0
Tanjore ..	6.21	10.0	5.87	8.9	3.94	7.2	5.93	6.8	1.38	3.5	32.33	51.4	41.71	58.5
Tinnevely ..	1.48	3.1	1.91	3.8	3.40	5.2	3.51	9.8	1.01	4.5	22.69	48.0	24.65	42.3
Trichinopoly ..	4.33	7.6	5.58	7.8	5.01	9.2	3.15	4.4	1.05	3.0	32.69	53.0	34.18	52.4
Vizagapatam ..	10.08	15.7	6.77	12.9	11.69	11.6	4.03	5.6	18.45	5.7	69.56	78.9	42.76	54.6
Average of the nineteen Districts	10.94	13.5	8.25	11.6	7.09	9.4	3.67	5.8	3.12	2.9	52.46	69.3	44.58	59.4
Mysore (Bangalore)	11.37	20.0	8.00	21.0	5.74	14.0	0.81	6.0	0.02	1.0	40.81	100.0	34.82	95.4
Presidency Average including Mysore	10.96	13.8	8.24	12.1	7.02	9.6	3.53	5.8	2.96	2.8	51.88	70.8	44.09	61.0

No. 27.

ORDER THEREON, 15th January 1880, No. 60.

His Grace the Governor in Council observes with satisfaction that the Administration Report for 1878-79 was completed and issued by the prescribed date.

2. This result clearly proves that with punctuality on the part of the several officers in sending in their reports at the prescribed dates and assiduity on the part of the compiler the work can be well accomplished in the limited time.

3. The non-receipt of the Meteorological Superintendent's summary in time for insertion in the volume is to be regretted and must be avoided in future years.

(True Extract.)

C. G. MASTER,
Acting Chief Secretary.

To G. Stokes, Esq.
„ the Government Astronomer.
„ Heads of Departments.

Exd. J. Wright.

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copy of report
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P.W.D.

29 JAN 80

No. 708

Per January

Obt. of 11801 *St. Andrews*

PUBLIC.

To

G. STOKES, Esq.,

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Dated January, 15th.

Issued

Recd.

End.

G.O., 15th January, 1880, No. 60.

JANUARY.
Nos. 26-27.

Administration Report.—Recording certain observations respecting the issue, by the prescribed date, of the Administration Report of this Presidency for 1878-79, and the non-receipt of the Meteorological Superintendent's summary in time for insertion in the volume.

No 226 to 29 Jan 1880

This is recorded.

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*W.D.P.
29/1*

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