QC
994.5
.R38
1874

METEOROLOGICAL OBSERVATIONS.

MAURITIUS.

Lat. 20° 6' 10" South. 187 Long. 3h. 50m. 14s. E.

RESULTS OF OBSERVATIONS TAKEN IN 1874.

The new Observatory buildings not being completed, and it having been found necessary to hire a house as near them as possible for the accommodation of the Meteorological Instruments, in order that the Observers might be at a convenient distance from the Magnetic Observatory, the Meteorological Instruments were removed, on the 16th January, 1871, from Port Louis to a house six miles from it on the Pamplemousses road, where, it is hoped, they will remain until they be permanently placed in the new Observatory.

The cistern of the Barometer is 212 feet above mean sea-level, and the Thermometers 217 feet. The Barometer, which has a diameter of .564 inch, is by Newman, and the Thermometers are by Casella. The mouth of the Rain-guage (Glaisher's) has a diameter of 8 inches, and is 6 inches above the level of the ground.

Owing to the temporary occupation of the Observatory, Osler's Anemometer has not been mounted, and therefore the direction and force of the wind have only been estimated. For similar reasons, no observations of Solar Radiation, &c., have been recorded.

In ordinary weather, five observations on the pressure and temperature of the air, temperature of evaporation, direction and force of the wind, character and amount of cloud, &c., have been taken daily, vizt: at 6 A. M., 9½ A. M., Noon, 3½ P. M., and 9½ P. M., and in unusual weather, hourly observations.

Since the 1st January 1872, the 3½ A. M. observations have been discontinued, and others taken at 6 A. M.

A continuous record of the atmospheric pressure is obtained from a Barograph in the Magnetic Observatory.

Readings of the Maximum and Minimum Thermometers and of the Rain-gauge are taken and recorded daily at 9 A. M. 1874

[*N. B. The Instruments were placed in the new Observatory on the 22nd November, but as the observations were taken at the temporary Observatory during nearly* 11 *months, the above remarks are retained.*]

Observations.	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Means for Year.
	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
Barometer. *(Corrected for capillarity and reduced to 32° F. but not to sea-level.)*													
Mean of month	29.730	29.742	29.546	29.820	29.855	29.926	29.984	29.981	29.969	29.911	29.916	29.788	29.847
Mean at 6 A. M.....	.730	.742	.543	.817	.854	.921	.978	.986	.977	.926	.928	.800	.849
Mean at 9½ "	.753	.768	.582	.854	.892	.966	30.027	30.021	30.008	.946	.942	.812	.880
Mean at Noon	.735	.744	.558	.818	.853	.924	.981	29.981	29.969	.912	.913	.786	.847
Mean at 3½ P. M.....	.696	.707	.508	.785	.819	.890	.946	.945	.927	.869	.880	.752	.810
Mean at 9½ "	.774	.788	.588	.858	.891	.960	30.017	30.015	30.015	.960	.962	.838	.888
Highest reading	.876	.873	.850	.982	30.001	30.061	.120	.146	.101	30.033	30.019	.897	29.996
Lowest "	.441	.627	28.449	.638	29.723	29.791	29.777	29.805	29.821	29.774	29.833	.673	.612
Range in month	0.435	0.246	1.401	0.344	0.278	0.270	0.343	0.341	0.280	0.259	0.186	0.224	0.384
Range from 9½ A. M. to 3½ P. M.....	0.057	0.061	0.074	0.069	0.073	0.076	0.081	0.076	0.081	0.077	0.062	0.060	0.070
Range from 3½ to 9½ P. M.	0.078	0.081	0.080	0.073	0.072	0.070	0.071	0.070	0.088	0.091	0.082	0.086	0.078
Mean Range	0.067	0.071	0.077	0.071	0.072	0.073	0.076	0.073	0.084	0.084	0.072	0.073	0.074

National Oceanic and Atmospheric Administration

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March 04, 2010

Observations.	Jan.	Feb.	March.	April.	May.	June.	July.	August	Sept.	Oct.	Nov.	Dec.	Means for Year.
	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Temperature of Air. (*Dry Bulb Ther. in Shade.*)													
Mean of month.....	79.1	78.8	78.1	76.4	75.3	71.1	67.9	68.9	70.5	73.9	75.8	78.4	74.5
Highest readings	87.9	87.0	88.0	86.9	83.8	80.5	76.3	78.0	79.0	84.0	87.9	85.7	83.7
Lowest "	73.9	69.7	72.3	68.5	67.2	65.5	61.5	61.9	64.2	67.0	68.9	70.0	67.5
Range in month	14.0	17.3	15.7	18.4	16.6	15.0	14.8	16.1	14.8	17.0	19.0	15.7	16.2
Mean of highest daily readings	85.0	85.5	83.8	83.5	81.2	76.6	73.2	74.2	76.1	80.0	82.0	83.1	80.3
Mean of lowest daily readings	76.2	75.2	75.4	72.3	71.9	68.8	65.5	66.5	67.4	70.3	72.2	74.3	71.3
Mean diurnal range..	8.8	10.3	8.4	11.2	9.3	7.8	7.7	7.7	8.7	9.7	9.8	8.8	9.0
Greatest " " ..	12.0	13.3	13.0	16.8	14.0	11.5	11.8	11.8	12.9	12.2	15.7	10.9	13.0
Least " " ..	4.5	8.4	3.5	4.9	5.1	5.0	4.8	4.2	3.9	7.4	7.1	6.8	5.5
Temperature of Evaporation. (*Wet Bulb Ther. in Shade.*)													
Mean of month.....	74.6	74.1	74.6	71.8	70.6	66.9	63.2	64.3	65.0	67.2	69.1	72.9	69.5
Highest readings	78.9	80.0	80.0	77.9	75.2	73.2	68.1	70.1	71.5	72.2	74.8	76.6	74.9
Lowest "	70.0	65.4	68.7	63.2	61.8	61.0	56.8	58.0	59.5	62.0	64.0	66.2	63.1
Range in month	8.9	14.6	11.3	14.7	13.4	12.2	11.3	12.1	12.0	10.2	10.8	10.4	11.8
Mean of highest daily readings	76.7	76.9	77.1	74.6	73.1	69.1	65.6	66.5	67.3	69.3	71.3	74.6	71.8
Mean of lowest daily readings	72.8	72.0	72.5	69.3	68.1	65.1	61.1	62.2	63.1	65.4	67.0	70.6	67.4
Mean diurnal range ..	3.9	4.9	4.6	5.3	5.0	4.0	4.5	4.3	4.2	3.9	4.3	4.0	4.4
Greatest " " ..	6.7	8.5	7.8	9.3	7.5	8.0	7.8	7.0	10.2	5.4	6.9	6.2	7.6
Least " " ..	1.5	2.2	2.4	3.3	3.2	1.3	2.3	2.3	1.3	2.3	1.4	2.2	2.1
Dew Point (*deduced.*)													
Mean of month.....	71.4	70.9	72.2	68.6	67.3	63.6	59.4	60.7	60.8	62.4	64.3	69.2	65.9
Highest in "	76.1	76.6	76.1	75.2	72.1	70.3	65.0	65.7	67.6	67.6	70.7	73.1	71.3
Lowest in "	66.9	62.9	65.8	59.4	59.4	54.5	51.3	53.5	54.3	56.1	57.2	62.2	58.6
Range in "	9.2	13.7	10.3	15.8	12.7	15.8	13.7	12.2	13.3	11.5	13.5	10.9	12.7
Greatest diurnal range	5.1	6.1	5.9	5.0	5.9	5.4	8.7	7.5	6.9	7.1	6.8	4.2	6.2
Least " "	0.8	1.3	0.7	1.4	1.0	0.8	1.3	1.3	1.2	1.7	1.9	0.6	1.2

Observations.	Jan.	Feb.	March.	April.	May.	June.	July.	August	Sept.	Oct.	Nov.	Dec.	Means for Year.
	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
Elastic Force of Vapour (*deduced.*)													
Mean of month.....	.772	.760	.793	.702	.671	.592	.510	.533	.535	.565	.607	.716	.646
Highest in "	.900	.915	.899	.876	.789	.743	.619	.634	.677	.677	.751	.815	.775
Lowest in "	.660	.577	.636	.505	.509	.426	.377	.411	.422	.454	.468	.560	.500
Range in "	.240	.338	.263	.371	.280	.317	.242	.223	.255	.223	.283	.255	.274
Greatest diurnal range	.127	.146	.163	.121	.122	.111	.149	.135	.144	.142	.151	.102	.134
Least " "	.022	.035	.021	.035	.024	.014	.021	.015	.022	.033	.036	.015	.024
Humidity (*deduced.*) (*Comp. Sat.*=100.)	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.
Mean of month.....	77.7	77.3	82.5	77.3	76.4	77.3	74.6	75.3	71.7	67.7	68.0	73.7	75.0
Highest in "	93.5	91.7	98.8	92.0	91.7	90.0	92.8	90.4	87.6	83.5	87.5	89.5	90.8
Lowest in "	59.7	56.4	62.6	57.0	58.4	57.7	53.6	53.4	54.7	50.9	41·5	56.0	55.2
Range in "	33.8	35.3	36.2	35.0	33.3	32.3	39.2	37.0	32.9	32.6	46.0	33.5	35.6
Greatest diurnal range	24.8	24.3	22.2	26.4	20.0	21.8	22.2	26.8	27.3	27.1	33.8	25.5	25.2
Least " "	4.5	9.3	1.1	3.3	3.9	2.6	7.0	6.0	7.1	10.3	10.6	9.0	6.2
Amount of Cloud. (10=*Overcast.*)													
Mean of month.....	6.1	3.4	6.1	4.8	4.2	3.7	5.0	5.3	4.6	4.1	5.1	5.3	4.8
Mean at 6 A.M.....	5.1	2.7	6.3	4.4	3.6	4.5	5.3	5.6	4.1	3.7	4.4	4.7	4.5
Mean at 9½ "	7.2	3.8	7.0	5.6	5.1	3.8	5.8	5.2	5.2	5.2	5.3	6.1	5.4
Mean at 3½ P.M.....	7.0	5.6	6.7	6.3	5.2	4.3	5.5	5.6	5.1	4.9	6.3	6.1	5.7
Mean at 9½ "	5.2	1.6	4.6	2.9	2.9	2.4	3.6	4.7	3.9	2.6	4.5	4.3	3.6
Rainfall.	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
Inches in depth.....	5.23	4.48	36.66	2.45	2.44	2.90	2.18	0.70	1.79	0.51	0.79	4.69	5.40 64.82
No. of days on which rain fell.....	23	17	25	17	20	16	18	15	17	13	12	23	18 216
Wind.													
Prevailing direction	S.E. to E. & N.E.	S.E. to East	S.E. to East	S.E. to E.N.E.	S.E. to E.	S.E. to E.	S.E. to E.	S.E. to E.N.E.	S.E. to E.	S.E. to E.N.E	S.S.E. to E.N.E	S.E. to N.N.E	
Force (*Estimated.*)	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Mean Force of month	0.6	0.3	2.5	0.3	0.4	0.7	0.5	0.5	0.6	0.4	0.7	0.4	0.7
" " at 6 A.M.	0.3	0.1	2.1	0.1	0.2	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.3
" " at 9½ "	0.7	0.4	2.5	0.4	0.5	0.8	0.6	0.5	0.7	0.5	0.7	0.6	0.7
" " at Noon..	0.8	0.5	2.7	0.5	0.6	1.1	0.8	0.7	1.0	0.7	0.9	0.7	0.9
" " at 3½ P.M.	0.8	0.4	2.8	0.4	0.5	1.0	0.8	0.7	0.8	0.6	1.0	0.6	0.9
" " at 9½ "	0.5	0.2	2.5	0.2	0.2	0.4	0.3	0.3	0.3	0.2	0.6	0.2	0.5
" Max. Force....	1.0	0.6	3.0	0.5	0.6	1.1	0.9	0.8	1.0	0.7	1.1	0.8	1.0

WIND.—NUMBER OF TIMES IT BLEW FROM

Hours of Observations.	North.	N. to N. E.	N. E.	N. E. to E.	East.	E. to S. E.	S. E.	S. E. to S.	South.	S. to S. W.	S. W.	S. W. to W.	West.	W. to N. W.	N. W.	N. W. to N.	Calm.	Variable.	Total.
6 A. M.	0	0	1	8	13	99	75	12	1	1	3	0	1	2	2	1	140	1	360
9½ "	3	4	2	30	41	156	78	12	0	0	4	2	3	4	7	3	13	2	364
Noon	2	5	5	39	44	140	60	11	3	0	5	4	11	7	9	7	5	1	358
3½ P. M.	6	6	5	35	41	138	65	7	0	4	4	4	12	3	10	6	14	1	361
9½ "	1	1	3	18	27	110	59	24	2	0	2	0	2	1	2	0	107	1	360
Total	12	16	16	130	166	643	337	66	6	5	18	10	29	17	30	17	279	6	1803

THUNDER AND LIGHTNING.

1874.

January 20.—Some peals of thunder at Srd at 10 A.M., loud thunder from S.W. to West at 11.50, and at Wrd at Noon.

" 21.—Thunder from South to W.S.W. at 4 to 5 P.M.

" 27.—Thunder at Beau Séjour (Plaines Wilhems) at 9 A.M.

" 30.—Thunder at Beau Séjour (Plaines Wilhems) at 9 A.M.

" 31.—About 2 A.M. some peals of thunder. Heavy thunderstorm at Curepipe between 1 to 2 A.M.

February 24.—At 2.30 P.M. distant thunder at S.S.Wrd.

" 28.—At 11.30 A.M. thunder at S.Wrd and at 12.25 P.M. at Srd.

March 1.—From 3 to 4 P.M. frequent thunder at Srd and S.Wrd.

" 2.—Thunder at S.Wrd at 11 55 A.M.

" 4.—Distant thunder at 7 P.M. at W.S.Wrd; passed to S. and S.E.; at 9 P.M. at North at a distance. Broad flashes of lightning.

" 5.—Thunder at Nrd at 6 A.M.

" 7.—Thunder at S.S.Erd at Noon. Thunder and lightning during a part of the night.

" 12.—Thunder at S.Erd at 6 A.M. Much lightning during greater part of the night, particularly at N.b.E. Distant thunder at E.S.Erd since 12.15 P.M. At 1 P.M. thunder nearly overhead.

April 12.—Thunderstorm from 2 to 7 A.M. Thunder from S. to N.E. overhead.

May 23.—Sheet lightning early this morning at Wrd. Thunder at Wrd at 11 A.M.

December 19.—Thunder at S.Wrd from 9 to 10 P.M. Sheet lightning during evening at Nrd and N.Wrd.

TABLE SHOWING THE AMOUNT OF RAINFALL AND THE NUMBER OF DAYS ON WHICH

1874.	Flacq.						Pamplemousses.					
MONTHS.	Riche Mare. Mr. Régnard.		Rigny. Dr. Lejuge.		La Gaieté. Mr. Margeot.		Observatory.† Mr. Meldrum.		Botanical Gardens. Mr. Horne.		St. André. Mr. Langlois.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	5.024	17	11.047	27	9.291	17	5.23	23	5.85	19	5.258	14
February	2.772	16	7.024	20	4.842	11	4.48	17	4.58	16	3.905	15
March	26.968	24	33.480	29	43.346	27	36.66	25	40.25	22	27.382	18
April	1.780	10	6.183	23	1.142	8	2.45	17	2.40	12	4.352	9
May	3.211	18	5.174	30	8.740	16	2.44	20	2.92	15	2.478	12
June	8.962	22	7.819	30	15.905	19	2.90	16	5.05	15	3.252	13
July	2.921	21	4.504	24	2.716	17	2.18	18	2.78	16	2.283	13
August	2.614	25	5.984	31	6.102	20	0.70	15	1.53	17	0.630	8
September	1.512	17	4.378	18	1.968	7	1.79	17	2.09	12	0.631	7
October	0.567	9	1.079	13	0.669	4	0.51	13	0.58	6	0.077	3
November	2.567	15	6.181	21	5.079	13	0.79	12	1.36	13	0.932	10
December	17.074	21	9.307	22	28.464	18	4.69	23	4.38	17	4.211	16
Fall in 1874..	75.972	215	102.160	288	128.264	177	64.82	216	73.77	180	55.391	138
Fall in 1873..	64.853	184	100.217	297	*....	..	75.54	219	81.39	164	56.871	133
Fall in 1872..	58.399	231	....	..	....	..	47.76	202	53.99	169	38.763	133
Fall in 1871..	61.882	209	....	..	86.642	154	42.62	182	55.57	155	....	..
Fall in 1870..	....	..	....	..	84.878	150	45.57	143	66.89	159	....	..
Fall in 1869..	....	..	....	..	82.793	170	54.57	121	61.85	117	....	..
Fall in 1868..	....	..	....	..	99.662	..	64.18	..	91.21	..	....	..
Fall in 1867..	....	..	....	..	76.126	..	35.97	..	....	..	....	..
Fall in 1866..	....	..	....	..	57.772	..	20.74	..	....	..	....	..
Fall in 1865..	....	..	....	..	97.546	..	44.74	..	85.37	..	....	..
Fall in 1864..	....	..	....	..	....	..	24.15	..	51.56	..	....	..
Fall in 1863..	....	..	....	..	....	..	33.42	..	....	..	....	..
Fall in 1862..	....	..	....	..	....	..	28.40	..	....	..	....	..
Means	65.276	..	101.188	..	89.210	..	44.81	..	69.07	..	50.342	..

* The observations at La Gaieté for 1873 (having been found to be inaccurate) have been withdrawn.
† From 1862 to 1870, inclusive, the Observatory was in Port Louis.

RAIN FELL, AT VARIOUS STATIONS IN MAURITIUS, DURING THE YEAR 1874.

Rivière du Rempart.		Moka.									
Labourdonnais.	Mr. E. Béline for Wiehé & Co.	Espérance.	Mr. Telfair.	Bonne Veine.	Mr. Macintosh.	Gentilly.	Mr. Finniss.	Hermitage.	Elias, Mallac & Co.	Alma.	Leclézio & Co.
Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
6.67	9	9.22	28	10.95	21	8.46	19	22.13	15	11.79	27
5.37	9	5.41	24	7.95	11	5.33	16	8.86	14	6.28	20
25.30	16	61.87	30	46.12	23	40.58	22	56.93	19	78.74	29
1.97	5	5.57	24	4.75	14	7.07	10	8.50	16	7.25	17
4.74	10	5.01	28	5.73	13	3.27	11	7.20	13	7.56	18
4.89	11	17.17	30	19.84	21	6.15	16	21.69	22	16.01	25
3.04	10	4.12	27	3.45	18	4.08	18	12.95	16	6.62	24
1.10	4	4.82	29	4.89	24	2.62	24	9.54	23	5.25	25
2.22	7	6.38	23	5.02	11	3.12	15	7.48	12	5.61	16
0.12	1	1.72	14	1.10	5	0.77	8	0.12	1	1.42	11
2.13	9	5.22	24	2.93	8	2.29	17	7.20	16	6.71	20
6.93	14	12.57	30	5.95	12	8.78	16	20.67	12	13.88	24
64.48	105	139.08	311	118.68	181	92.52	192	183.270	179	167.12	256
70.04	120	124.75	293	121.06	224	.....	..	152.398	193	134.46	245
44.20	98	115.99	313	119.34	235	....	..	124.399	..	....	..
50.52	102	117.33	293	120.83	246	63.28	194	85.780	152	....	..
59.06	116	109.06	295	113.09	260	68.15	180	120.142	156	....	..
63.73	109	113.99	258	118.93	254	75.38	154	....	..	....	..
70.46	..	130.15	..	....	..	123.09	..	....	..	....	..
56.99	..	99.94	..	....	..	73.67	..	....	..	....	..
50.29	..	88.02	..	....	..	....	..	....	..	....	..
87.63	..	147.74	..	....	..	....	..	....	..	....	..
57.25	..	....	..	....	..	....	..	....	..	....	..
70.72	..	....	..	....	..	....	..	....	..	....	..
52.23	..	....	..	....	..	....	..	....	..	....	..
61.35	..	118.60	..	118.65	..	82.01	..	133.198	..	150.79	..

TABLE SHOWING THE AMOUNT OF RAINFALL AND THE NUMBER OF DAYS ON WHICH

1874.	PLAINES WILHEMS.											
MONTHS.	Beau Séjour. Hon. R. Stein.		Trianon. Elias, Mallac & Co.		Westra. Mr. Wilson.		Forest Side, Cure-pipe. Hon. F. M. Dick.		Dry Burn. Mr. Arnott.		Highlands. Mr. Mackintosh.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	12.90	18	11.84	..	11.73	31	27.59	27	13.77	25	15.83	17
February	4.50	15	4.82	..	3.76	15	9.91	21	6.06	19	7.47	15
March	59.01	25	52.65	..	50.70	21	98.73	27	33.32	29	53.15	25
April.....	6.75	13	5.03	..	5.77	9	10.96	17	4.78	17	6.35	11
May	3.60	18	3.16	..	2.80	11	7.57	20	3.40	18	4.71	17
June	4.73	17	6.83	..	9.52	16	22.03	24	7.31	19	11.96	19
July	3.44	21	3.87	..	4.92	13	10.49	23	4.03	10	5.21	14
August	1.80	21	2.17	..	3.40	20	*....	..	2.89	9	3.83	20
September	1.84	11	2.55	..	3.30	10	....	..	2.96	13	3.59	13
October.....	0.48	8	0.33	..	0.10	1	....	..	0.32	7	0·17	2
November.....	2.27	17	2.15	..	2.72	13	....	..	2.15	17	3.30	13
December.....	9.04	17	7.01	..	5.17	15	....	..	7.17	16	6.63	16
Fall in 1874.....	110.36	201	102.41	..	103.89	175	....	..	88.16	199	122.20	182
Fall in 1873.....	82.89	199	84.49	180	80.73	200	161.19	257	....	..	....	..
Fall in 1872.....	62.68	184	62.70	181	73.16	197	142.53	252	....	..	....	..
Fall in 1871.....	45.97	179	....	...	67.82	191	148.43	260	....	..	....	..
Fall in 1870.....	54.49	192	....	..	80.85	215	155.45	275	....	..	....	..
Fall in 1869.....	67.58	180	....	..	80.67	213	132.94	..	....	..	....	..
Fall in 1868.....	95.65	..	....	..	122.36	..	....	..	....	..	....	..
Fall in 1867.....	65.50	..	60.16	..	81.34	..	....	..	...	..	....	..
Fall in 1866.....	44.55	..	43.24	..	....	..	....	..	....	..	....	..
Fall in 1865.....	87.11	..	81.19	..	....	..	....	..	....	..	....	..
Fall in 1864.....	54.60	..	48.58	..	....	..	....	..	....	..	....	..
Fall in 1863.....	99.76	..	80.66	..	....	..	....	..	....	..	....	..
Fall in 1862.....	69.07	..	....	..	....	..	....	..	....	..	....	..
Means	72.32	..	70.43	..	86.35	..	....	..	....	..	....	..

* The Hon. Mr. Dick left the Colony.

RAIN FELL, AT VARIOUS STATIONS IN MAURITIUS, DURING THE YEAR 1874.

Grand Port.										Savanne.					
Cluny. Mr. Macpherson.		Gros Bois. Mr. Vallet.		Beau Vallon. Mr. de Rochecouste.		Joli Bois. Mr. Vallet.		Midlands. Hon. E. Icery.		Colmar. Mr. Hirth.		L'Union. Rouillard & Co.		St. Aubin. Hon. H. Pitot.	
Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
14.78	29	10.07	21	5.76	19	11.02	21	17.62	26	8.06	23	7.02	12	5.45	19
8.95	24	8.38	19	4.72	14	7.06	15	10.13	22	7.93	18	1.30	4	3.94	14
61.79	30	46.09	29	27.87	25	50.97	24	72.69	28	33.29	30	49.73	20	40.75	29
8.69	17	4.87	18	0.89	11	6.19	16	9.78	15	3.83	13	3.55	8	3.21	11
8.53	26	6.06	22	5.48	18	9.53	12	9.84	23	5.74	17	3.63	7	4.35	19
21.27	24	14.69	24	7.18	20	17.99	24	23.00	23	12.97	24	8.39	11	10.00	17
7.35	..	4.65	20	2.62	19	5.34	17	8.67	19	5.41	17	4.15	16	3.81	21
8.36	25	3.87	25	1.91	21	4.88	24	6.26	20	3.17	19	2.33	15	3.32	20
7.06	19	2.06	17	1.59	16	1.95	8	6.53	15	1.99	12	0.52	2	1.28	15
1.75	15	1.71	13	0.39	5	0.63	4	1.02	9	1.27	8	0.00	0	0.65	8
8.55	18	5.73	19	2.43	16	5.45	15	7.27	13	4.14	15	2.35	4	1.28	16
20.51	..	12.08	26	11.02	21	13.92	21	12.44	18	11.94	23	11.34	11	10.64	26
177.59	..	120.26	253	71.86	205	134.93	201	185.25	231	99.74	219	94.31	110	88.68	215
171.32	264	98.09	229	65.27	197	119.91	225	165.09	244	96.15	202	90.56	130	89.08	205
146.83	288	90.08	228	53.99	201	100.55	251	....	..	83.71	..	78.62	144	76.10	230
133.71	279	99.25	214	58.38	208	105.01	270	....	..	89.39	241	70 30	122	82.02	225
160.43	273	102.40	229	68.64	216	....	..	....	..	94.13	233	76.25	149	82.39	226
129.37	289	94.58	212	69.94	233	....	..	....	..	88.91	214	58.34	..	76.66	234
183.74	..	137.29	..	81.60	..	....	..	....	..	125.58	..	....	..	112.12	..
141.05	..	83.59	..	61.05	..	....	..	....	..	....	..	....	..	71.66	..
129.02	..	70.24	..	51.05	..	....	..	....	..	...	..	....	..	70.51	..
192.45	...	135.21	..	100.84	..	....	..	....	..	....	..	....	..	115.60	..
122.48	..	83.36	..	....	..	....	..	....	..	....	..	....	..	....	..
147.09	..	....	..	....	..	....	..	....	..	....	..	...	..	....	..
122.54	..	....	..	....	..	....	..	....	..	....	..	....	..	....	..
150.59	..	101.30	..	68.26	..	115.10	..	175.17	..	96.80	..	78.06	..	86.48	..

TABLE SHEWING APPROXIMATELY THE DATES, LOCALITIES, &c., OF

Date.	Locality. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels, &c., by which experienced.	Wind. Direction.	Max. Force.
1874.							Beaufort.
January.							
7	38° S.	....	4° E.	6° E	Susan E. Voorkis and Mutlah	N.E. to N.N.W.....	9
9	30° „	....	92° „	....	Iron Queen	W. to S.W.	9
11	39° „	....	48° „	....	Kerchalon	E.N.E. to N.E.	9
11—13 ..	38° „	....	93° „	99° „	Divatte	S.W.	10
11—12 ..	37° „	....	53° „	56° „	Jane Woodburn	N.E. to N.N.E.	9
13—18 ..	23° „	30° S.	60° „	57° „	Lief, Hopeful, &c.	S.E. to S. & N.W....	11
15—18 ..	30° „	38° „	46° „	62° „	Mentana, Tyrol, Beaufort, &c.	S.E. to E., N.E., N.W. & S.W.	11
26—31 ..	18° „	30° „	57° „	52° „	Kroo Boy, Duc d'Aumale, Cotherston, &c.	All points	11
February.							
1— 3 ..	37° „	....	62° „	....	Flodden	E S.E. to E.N.E., S.W. & W.	10
10—11 ..	00° „	1° „	85° „	....	William Fairbairn	W. to N.....	9
10—18 ..	00° „	12° „	88° „	87° „	Hope	S.W. to N.W.....	9
19—24 ..	12° „	20° „	82° „	75° „	W. Fairbairn, Phrenologist, &c.	All points	12
March.							
2— 3 ..	37° „	....	12° „	....	Unison	S.E. to E.N.E.	9
14—19 ..	18° „	24° „	68° „	59° „	Nerée, Hartfield, Chateaubriand, &c.	All points	11
17—18 ..	19° „	....	86° „	....	Historia	E.N.E. to N.N.W....	10
16—21 ..	11° „	15° „	44° „	41° „	H. M. S. Daphne, Briton, and Vulture.	W.N.W. to W.S.W. & N. E.	10
18—19 ..	40° „	41° „	.....	47° „	Mountain Ash.....	West	9
19—20 ..	35° „	....	110° „	....	Divatte	S.W. to S.S.W.....	9
22—31 ..	12° „	28° „	72° „	56° „	Nerée, Peru, Norval, Phœbe, &c, &c.	All points	12
25—31 ..	38° „	....	25° „	35° „	Atlantique	S E. to E.N.E.	9
April.							
12	21° „	....	63° „	....	Fanny Breslauer.....	E.S.E. to E.N.E.	..
14—21 ..	41° „	35° „	17° „	26° „	Figaro, St. Antoine, Louisa, &c.	S.S.E. to S.S.W. & W.N.W. to S.W.	10
23—25 ..	35° „	31° „	56° „	58° „	Glaslyn	S.E. to E., N.E., N. & N.N.W.	9
22—29 ..	32° „	39° „	25° „	47° „	Figaro, George Ville, &c.	S.S.E. & N.W.	10
May.							
1— 6 ..	6° N.	12° N	90° „	79° „	Alice, Lalla Rookh, Eugénie, &c.	All points	10
8— 9 ..	15° S.	....	85° „	83° „	Eliza Blanche.....	E.N.E. to S.E.	9
9—12 ..	15° N.	20° „	86° „	83° „	St. Pierre, Eugénie, &c.....	N.W., S. & S.W.	9
11—12 ..	30° S.	....	49° „	52° „	Mary M. Bird.....	E. to N.E. & N.....	9
13—16 ..	39° „	37° S.	34° „	43° „	Nantaise	N.N.W., N.E., S.W. & W.	10
18—26 ..	.....	....	.....	....	Robert Passenger, from *Tamatave* to *Mauritius*, experienced heavy weather.	.....	..
25—29 ..	39° „	37° „	1° „	10° „	Frances	N. to N.W. & W.....	9

GALES AND HURRICANES EXPERIENCED IN THE INDIAN OCEAN IN 1874.

Barometer Readings.		Remarks.	Mean Bar. at Mauritius. Height above sea-level 212 feet.		Mean Temp. of Air at Mauritius.		Wind at Mauritus.	
From	To		From.	To	From	To	Direction.	Max. Force.
								Beaufort.
....	....	Strong gales and hard squalls ..	29.788	.....	78.9	..	S.E. to E.b.S.	6
....	....	Heavy gale and heavy sea.....	29.784	.....	79.5	..	E.S.E.	7
....	750.0	Coup de vent. Mer grosse	28.732	.....	78.3	..	E.S.E.	7
....	735.0	Do. do.	29.732	29.635	78.3	79.0	S.E. to E.b.S.....	7
....	....	Heavy gale and high sea	29.732	29.713	78.3	78.5	S.E. to E.b S.....	7
....	28.00	Torrents of rain.....	29.635	29.803	79.0	79.7	S.E. to S.W.	8
29,96	29 33	Terrific gale, constant rain, very high sea	29.525	29.803	79.2	79.7	East to S.E. & S.W...	8
29.90	28.82	Vessels damaged	29.713	29.638	77.4	79.2	E.S.E. to N.E. & W. N.W.	7
29.95	29.10	Violent gale and tremendous sea.	29.764	29.835	78.8	79.7	W. to W.N.W.	3
....	....	Blowing very strong. Heavy squalls and heavy rain.	29.698	29.705	75.2	76.2	S.E., W. & N.W.....	2
....	29.70	Do. do. do. ..	29.698	29.813	75.2	80.4	W. & S.E.	5
....	28.00	Vessels dismasted, &c.	29.768	29.676	80.7	78.5	S.E. to S.W.	5
....	....	Severe gale and hard squalls with rain.	29.742	29.654	79.8	79.8	E.b.S. to E.,N. & N.W.	4
30.01	29.73	Terrific gale, heavy rain and lightning.	29.581	29.515	78.9	80.2	S.E. to S. & S.W.....	5
....	29.70	Furious gale. Terrific lightning.	29.543	29.548	79.4	80.2	W.S.W. to S.W.	5
30.02	29.34	Whole gale with hard squalls and rain.	29.515	29.796	80.2	77.5	S. to S.W.	5
....	....	Strong gale and high cross sea..	29.548	29.565	80.2	79.7	S.W.	5
763.3	....	Grains très violents. Mer très grosse.	29.565	29.670	79.7	77.5	S.E. to S. W.....	5
29.91	28.90	Vessels dismasted. Crops in Mauritius damaged.	29.779	28.545	79.7	74.4	S.E. to E ,N.E. & N.W.	10
767.0	759.0	Strong gale and constant rain ..	29.370	28.545	78.0	74.4	E.S.E. to N.E. & N.W.	10
....	....	Very dirty weather, thunder and lightning and torrents of rain.	29.886	.....	79.1	..	N.E. to E b.N.	4
....	29.48	Tempête. Orageux	29.826	29.854	77.7	74.9	E.S.E. to E. & N.E. ..	4
....	29.20	Heavy gale and fierce rain	29.681	29.790	75.5	77.3	N.W. to W.	3
....	....	Tempête. Mer démontée.....	29.681	29.914	75.7	78.2	S.S.E., N.W. to W., E. to E.S.E.	5
								6
....	29.24	Blowing very hard with much rain	29.836	29.898	77.1	76.0	S.S.E. to E.b S.....	4
29.80	29.54	Heavy gale with hard squalls and heavy rain.	29.796	29.787	75.8	74.7	E.b.S.....	4
760.0	750.0	Grand vent. Mer très grosse ..	29.787	29.845	74.7	76.1	E.b.S. to E.b.N.....	4
....	....	Heavy gale. Thunder & lightning	29.845	29.819	76.1	75.5	E.b.S. to E.b.N.....	
....	741.0	Grand mauvais temps	29.808	29.841	77.0	74.8	E. to E.S.E.	4
....	....	Lost 40 oxen	.....	.....	..	..	E.S.E. to E. & S. to S.E.	5
....	....	Strong gales and high sea.....	29.869	29.951	76.3	73.9	S.S.E. to E.	6

TABLE SHEWING APPROXIMATELY THE DATES, LOCALITIES, &c., OF

Date.	Locality. Latitude. From	Locality. Latitude. To	Locality. Longitude. From	Locality. Longitude. To	Vessels, &c., by which experienced.	Wind. Direction.	Wind. Max. Force.
1874.							Beaufort.
June.							
6— 7 ..	40° S.	....	13° E.	17° E	Ville de Marseille	W.N.W., W.S.W. & W.	9
15—16 ..	39° „	....	22° „	25° „	Eole.....	N.N.W. to W.	9
15—19 ..	19° N.	13° N	87° „	71° „	Iskender Shah, St. Pierre, &c.	W. to S.W.....	10
19—23 ..	40° S.	38° S.	5° „	23° „	Diogène & Belle Alliance	N.E. to N.W., W. & S.W.	10
24	4° „	....	85° „	....	Canning	S.S.E	9
26—27 ..	38° „	....	34° „	39° „	Diogène	N.E. to N.N.W., W. & S.W.	9
July.							
1— 9 ..	40° „	31° „	8° „	44° „	Alexandra, Josephine, &c....	S.W., S., N.W. & W..	10
11—20 ..	7° N.	17° „	93° „	85° „	Eugenie, Iskender Shah, &c..	W.S.W. to S.....	9
15—19 ..	35° S.	30° „	31° „	57° „	Zelia, Josephine, &c.	S.E. to S., S.W. & W.	9
28—30 ..	37° „	....	28° „	33° „	Luminy, Suliac, &c.	N.E. to N., N.W. & S.W.	9
August.							
7—10 ..	14° „	18° „	76° „	66° „	Eugenie	E.S.E. to S.....	9
9—23 ..	37° „	32° „	112° „	116° „	Hannah Nicholson and Ella Gladstone	W., N.W., S.W.....	10
28—31 ..	40° „	42° „	32° „	43° „	John Nicholson	E b.N. to N., N.W., W. & S.W.	10
September.							
2— 5 ..	34° „	40° „	46° „	55° „	John Nicholson & Sea Breeze.	N., N.W., W. & S.W.	9
5— 6 ..	7° „	9° „	80° „	78° „	Hyderee	E.S.E. to S.E.....	9
14—16 ..	38° „	37° „	8° „	11° „	Claudine & Joseph.....	N.W., S.W. & S....	9
October.							
5— 6 ..	37° „	....	25° „	33° „	Guiding Star & Nouveau Nomade.	S.E. to S. & S.S.W..	10
12—18 ..	36° „	41° „	31° „	54° „	Merle Blanc, Demerara, &c..	S.E. to N.N.E., N. & W.	9
22—31 ..	41° „	36° „	16° „	51° „	Dauphine, Ocean Chief, &c. ..	N.E., N.W., W. & S.W.	10
24—25 ..	37° „	36° „	124° „	123° „	Emily	N.E., W. & S.W....	10

GALES AND HURRICANES EXPERIENCED IN THE INDIAN OCEAN IN 1874.

Barometer Readings.		Remarks.	Mean Bar at Mauritius. Height above sea-level 212 feet.		Mean Temp. of Air at Mauritius.		Wind at Mauritius.	
From	To		From	To	From	To	Direction.	Max. Force.
								Beaufort.
766.5	757.0	Coup de vent. Grains violents. Pluie.	29.880	29.913	72.3	71.6	S.E.....	7
....	....	Coup de vent. Grains très violents. Mer affreuse.	29.921	29.920	71.2	71.8	S.E. to E.S.E.....	7
29.84	29.45	Terrific squalls. Very heavy sea.	29.920	29.997	71.2	73.5	,, ,, ...	7
29.90	29.60	Très fort coup de vent. Grains très violents.	29.951	29.985	72.6	68.6	S.E. to E.b.S.....	4
30.11	30.04	Heavy gusts. Sea like a boiling pot.	30.011	.....	70.9	..	East	4
....	....	Coup de vent	29.961	29.935	69.7	69.0	S.E.....	5
758.0	776	Heavy gales and violent squalls.	30.073	29.971	68.0	70.1	S.E.b.E. to E.....	7
29 60	29.50	Strong gales and violent squalls.	30.050	29.867	67.3	68.7	S.E. to E.b.S. & E.b.N.	6
770.5	760.0	Strong gales, heavy squalls, thunder and lightning.	29.926	29.989	68.4	67.6	S.E. to E.b.S.....	5
759	769.5	Coup de vent. Mer très grosse..	30.046	30.061	64.5	66.7	S.E. to E.S.E.....	5
....	....	Strong gales, violent squalls and very high sea.	30.109	30.030	66.9	68.1	S.E. to E.b.S.....	6
29.90	29.45	Blowing furiously	29.854	30.060	66.9	72.6	S.E. to N.E. & West..	6
30.35	29.35	Very hard gale. Dangerous sea.	29.982	29.897	70.7	70.0	S.E.b.E. to E.b.S....	6
30.20	29.18	Heavy gale and very heavy sea..	29.981	29.936	68.6	71.9	S.E. to E.S.E.....	6
30.00	29.87	Heavy gale and high sea	29.953	29.980	71.9	72.6	E.S.E.....	4
....	....	Très forte brise	30.048	30.058	68.2	66.5	E.b.N. to N.N.E.	7
29.88	29.64	Terrific gale	29.984	29.990	71.5	72.2	E.S.E. to E.	5
767	751	Hard gale, hard squalls, and heavy rain.	29.903	29.848	73.6	75.2	S.E.b.E. to E.b.S.....	5
30.04	29.02	Heavy gales and violent squalls.	29.853	29.962	74.2	77.0	S.E. to E.b.S.....	5
....	29.24	Terrific gales and very high sea.	29.921	29.943	74.8	74.2	S.E. to E.S.E.....	5

TABLE SHEWING APPROXIMATELY THE DATES, LOCALITIES, &c., OF

Date.	Locality. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels, &c., by which experienced.	Wind. Direction	Max. Force.
1874 November.							Beaufort.
1— 4 ..	37° „	36° „	116° „	..	Emily	W.N.W. to W. & S.W.	9
1— 9 ..	38° E.	36° S.	39° E.	41° E.	Mozambique & Dauphin	N.E. to N.N.W., S.W. & S.S.E.	9
2	....	..	....	..	Cyclone at Cocanada	.....	..
18—22 ..	35° „	36° „	31° „	43° „	Oribe & St. Ives.....	E.N.E. to E., S.E. & S.	10
December.							
2— 5 ..	24° „	26° „	48° „	50° „	Phœbe.....	E.N.E. to N.E.	9
5	36° „	..	44° „	..	Gol	S.S.E. to S.S.W.	9
7	....	..	....	..	A number of vessels lost or damaged at Natal, East London, &c., in a gale.	.....	..
24—26 ..	43° „	40° „	26° „	54° „	Hartfield, West, &c.	W.N.W. to W.	9
29	41° „	..	33° „	..	Henriette	S. to S.W. & W.	9

THE FOLLOWING TABLE OF GALES OF FORCE 8 OR UPWARDS HAS

No. of Log.	Year.	Month.	Day.	Lat. S.	Long. E.	
3323*a*	1874	January	1	2° 05'	84° 20'	
„	—	—	2	4° 18'	85° 03'	
3404	—	—	8	33° 17'	82° 25'	
3421	—	—	„	33° 43'	82° 48'	
3379*a*	—	—	9	9° 55'	75° 32'	
3404	—	—	„	29° 55'	84° 14'	
3421	—	—	„	30° 52'	85° 18'	
3404	—	—	13	19° 01'	86° 55'	
3421	—	—	14	16° 12'	88° 23'	
„	—	—	15	13° 01'	88° 10'	
3407	—	—	„	13° 13'	88° 06'	
3390	—	—	17	28° 31'	61° 23'	
3379*a*	—	—	28	31° 06'	51° 55'	

GALES AND HURRICANES EXPERIENCED IN THE INDIAN OCEAN IN 1874.

Barometer Readings.		Remarks.	Mean Bar. at Mauritius.		Mean Temp. of Air at Mauritius.		Wind at Mauritius.	
From	To		From	To	From	To	Direction	Max. Force.
								Beaufort.
30.08	29.57	Heavy Gales and high cross sea.	29.930	29.970	76.3	73.6	W. & S.E. to E. b S...	6
764.3	754.0	Très forte brise. Mer très grosse. Orageux.	29.949	29.985	75.1	75.8	E.S.E. to E.	7
..	..	.....	29.983	....	74.8	..	S.E.	7
30.15	..	Blowing terrifically. Sky full of electric balls.	29.932	29 910	74.9	75.8	S.E. to E. b N.	7
..	..	Blowing very hard. Thunder and lightning and rain.	29.861	29.879	74.6	76.3	S.E. b S. to E.S.E.....	6
..	..	Strong Gale and very high sea..	29.879	....	76.3	..	" "	5
..	..	.....	....	....	..	..	.....	7
..	..	Strong Gale and very high sea..	29.860	29.838	79.2	79.4	E.N.E. to S.E.	4
..	..	Do. do. ..	29.836	....	79.9	..	S.E.....	4

BEEN RECEIVED FROM THE METEOROLOGICAL OFFICE, LONDON.

No. of Log.	Year.	Month.	Day.	Lat. S.	Long. E.	
3379*a*	1874	January	29	31° 07'	48° 48'	
3420*a*	—	—	30	26° 16'	58° 10'	
"	—	—	31	27° 13'	58° 06'	
3395*a*	—	March	21	3° 52'	87° 09'	
3416*a*	—	April	28	3° 50'	80° 46'	
3407	—	—	30	7° 20'	87° 30'	
3416*a*	—	—	"	7° 01'	82° 49'	
"	—	May	1—7	6° 31' 16° 50'	83° 10' 77° 53'	
3407	—	—	1—3	8° 08' 8° 54'	85° 23' 80° 46'	
3404	—	—	2—7	10° 20' 19° 56'	79° 23' 75° 21'	
3421	—	—	2	0° 27'	86° 36'	
"	—	—	24	30° 48'	42° 55'	
"	—	—	25	30° 32'	42° 26'	

(Signed) HENRY TOYNBEE

STORM WARNING.

In 1874, ten telegrams were sent from the Observatory to Port Louis, viz., two on the 26th and 27th January, announcing that there was no danger from the hurricane which was then passing North and N.W. of the Island, and eight from the 25th to the 29th March, announcing the approach and progress of the hurricane the centre of which passed between Mauritius and Réunion on the 28th of that month.

The following notices were sent to the newspapers :

" 6th March.—From the 27th February to the 5th March there have been signs of a storm passing to the Erd and Srd."

" 17th March.—Another storm has been passing to the N.Erd, Erd, and S.Erd of us since the 8th."

" 22nd May.—The weather of the last few days indicates the existence of a cyclone away to the N.Erd."

METEORS.

Owing to pressure of other work no systematic observation of meteors was made during the year. Watch, however, was kept up from the 13th to the 16th and from the 25th to the 28th November, but no shower was seen.

At 6h. 19m. P.M. on the 27th June, Mr. W. H. Scott observed, from near the Vacoas Railway Station, " a fine meteor, which started apparently from below *Dubhe,* descended slowly over a space of about 30°, and was then extinguished. It was followed by a train of light. The body and train were of a reddish tint. The sky was very clear at the time, and the moon shining brightly. . . In about 45 seconds afterwards, another meteor sprang from the same place, and followed the same wake. It was of a bluish white appearance, and followed by a train of light. Its nucleus was apparently as large as Jupiter, which was then near the Zenith."

At 1h. 50m. A M. on the 5th October, Mr. W. Dyas observed, from the Orphan Asylum, " a very brilliant meteor, with a long trail of light, travelling apparently to S.S.Wrd. For an instant the light was greater than at full moon."

REMARKS.

The monthly means of the Dry and Wet Bulb Thermometers, &c., have been derived from the observations taken daily at 6 and 9½ A.M. and 3½ and 9½ P.M. ; but those of the Barometer from the observations taken at 9½ A.M., 3½ P.M. and 9½ P.M., by taking first the mean of the 9½ A.M. and 9½ P.M. observations, and then the mean of the latter mean and the 3½ P.M. observation.

The highest and lowest readings of the Dry and Wet Bulb Thermometers have been obtained from the daily observations of the Self Registering Thermometers.

The Mean height of the Barometer for the year (212 feet above sea-level) was	29.847 inches.		
Highest reading of Barometer (corrected for capillarity and reduced to 32° Fah.)	30.146	„	Aug. 8
Lowest do. do. do.	28.449	„	March 28
Mean Barometric Oscillation during day	.074	„	
Mean Temperature of year	74.5°		
Highest reading of Max. Dry Bulb Ther. in Shade	88.0		March 19
Lowest do. Min do. do.	61.5		July 26
Highest reading of Max. Wet Bulb Ther. in Shade	80.0		Feb. 2 & March 19
Lowest do. Min. do. do.	56.8		July 26
Highest Dew Point (from the six-hourly observations)	76.6		Feb. 2
Lowest do. do.	51.3		July 28
Highest Vapour-tension do.	.915		Feb. 2
Lowest do. do.	.377		July 28
Highest Relative Humidity do.	98.8		March 28
Lowest do. do.	41.5		Nov. 13
Rainfall during the year	64.82 inches.		
Greatest fall in 24 hours	11.45	„	March 28
Number of days on which rain fell	216.		

At a good many stations the rainfall for 1874 was greater than that for either 1873 or 1872. Properly speaking, however, 1874 was not a wet year, for the total falls were very much increased during the passage of a cyclone from the 25th to the 31st March. Fully 30 per cent of the total rain for the year fell on these five days alone; so that in the absence of the cyclone the falls for the year would have been very much less than they actually were. The monthly falls were generally below the average.

ANNUAL MEANS OF THE METEOROLOGICAL ELEMENTS.

During the last 22 years the Observatory has been removed four times.

As, in future, the observations will be made at the new and permanent Observatory, it may be proper to give here the annual means of the observations made since 1853.

TABLE shewing the yearly means of the principal Meteorological Elements at (1) *the Caudan, Port Louis,* 20 *feet above sea-level, from* 1853 *to* 1858, *inclusive ;* (2) *at the Old Observatory, Port Louis,* 30 *feet above sea-level, from* 1859 *to* 1866 *;* (3) *in Little Mountain street, Port Louis,* 30 *feet above sea-level, from* 1867 *to* 1870 *; and* (4) *at Pamplemousses,* 212 *feet above sea-level, from* 1871 *to* 1874.

Year.	Bar. cor. and red. to 32°.	Mean Dry Bulb.	Mean Wet Bulb.	Mean Dew Point.	Mean Elastic Force of Vapour.	Mean Humidity 0-100.	Mean Amount of Cloud 0-10.	Rainfall.	Prevailing Wind.	Remarks.
								Inches.		
1853 ..	30.027	77.2	70.1	66.6	.651	71.3	4.0	39.83	S.E. to E.N.E.	Observations taken at the Caudan, Port Louis. 20 ft
1854 ..	30.026	77.5	70.3	66.6	.659	70.8	4.0	39.42	S.E. to N.E.	
1855 ..	30.044	76.5	69.3	65.7	.643	70.9	4.0	42.66	S.E. to E.N.E.	
1856 ..	30.019	76.5	69.9	66.5	.659	72.8	5.0	46.22	S.S.E. to E.N.E.	
1857 ..	30.025	75.6	69.7	66.6	.660	74.9	5.0	43.44	S.E. to E.N.E.	
1858 ..	30.040	76.1	70.6	67.1	.666	75.0	5.0	35.34	S.E. to East.	
1859 ..	30.057	76.3	70.0	66.8	.661	73.9	4.9	56.87	S.E. to E.N.E.	Observations taken at the Old Observatory, Port Louis. 30 ft
1860 ..	30.009	77.2	70.6	67.8	.677	73.5	5.0	45.17	S.E. to E.N.E.	
1861 ..	30.002	76.9	69.9	66.5	.655	71.7	4.7	68.73	S.E. to E,N.E.	
1862 ..	30.006	77.5	70.4	66.9	.663	71.2	4.2	28.40	S.E. to E.N.E.	
1863 ..	30.018	77.0	70.0	66.5	.656	71.2	4.3	33.42	S.E. to N.E.	
1864 ..	30.052	76.7	69.6	65.9	.642	70.0	5.0	24.15	S.E. to N.E.	
1865 ..	30.043	77.1	70.0	66.5	.655	75.9	5.0	44.73	S.E. to N.E.	
1866 ..	30.051	77.1	69.4	64.7	.619	66.4	5.0	20.57	S.E. to East.	
1867 ..	30.037	80.4	71.7	65.9	.644	61.5	4.9	35.97	S.E. to E.N.E.	Observations taken in Little Mountain street, Port Louis. 30 ft
1868 ..	30.029	79.9	71.7	66.0	.649	63.1	5.6	64.18	S.E. to East.	
1869 ..	30.054	79.2	70.4	64.4	.615	58.8	5.8	54.57	S.E. to E.N.E.	
1870 ..	30.038	79.0	70.6	64.8	.620	61.9	5.0	45.57	S.E. to E.N.E.	
1871 ..	29.882	74.1	68.4	64.3	.611	71.8	4.8	42.60	S.E. to E.N.E.	Observations taken at Pamplemousses, 6 miles from Port Louis. 212 ft
1872 ..	29.838	74.6	69.7	66.1	.650	75.3	4.5	47.76	S.E to E.N.E.	
1873 ..	29.851	74.4	69.6	66.2	.655	76.1	4.8	75.54	S.E. to N.E.	
1874 ..	29.~~851~~ 847	74.5	69.5	65.9	.646	75.0	4.8	64.82	S.E. to N.E.	

From January 1853 to June 1866, inclusive, the Dew Point, Elastic Force, and Humidity, were deduced by the first Edition of Glaisher's Tables, and since the latter date by the third Edition (1863).

To reduce the above annual values to what they would be if the observations had been made throughout at the same place and at the sea-level, the barometric values have been corrected for altitude, and the temperatures of the air and evaporation at the Caudan, Little Mountain street, and Pamplemousses been corrected by adding or subtracting the mean difference between them and the observations made at the Old Observatory. The Dew Point, Elastic Force, and Humidity for the annual values of the temperatures of the air and evaporation, thus obtained, have then been deduced by Glaisher's Tables (Edition 1863). The Cloud, Rainfall, and Direction of Wind have not been altered.

ANNUAL MEANS OF THE METEOROLOGICAL ELEMENTS.

TABLE shewing, approximately, what the Annual Means would be if the Observations had been taken at the Old Observatory (Sea-Level.)

Year	Mean Bar. cor. & red. to 32° & to sea-level.	Mean Dry Bulb.	Mean Wet Bulb.	Mean Dew Point.	Mean Elastic Force of Vapour.	Mean Humidity 0-100.	Mean Amount of Cloud 0-10.	Rainfall.	Prevailing Wind.
								Inches.	
1853	30.048	77.6	70.1	64.9	.615	65.0	4.0	39.83	S.E. to E.N.E.
1854	30.047	77.9	70.3	65.0	.619	64.6	4.0	39.42	S.E. to N.E.
1855	30.045	76.9	69.3	64.0	.596	64.6	4.0	42.66	S.E to E.N.E.
1856	30.040	76.9	69.9	65.0	.618	67.0	5.0	46.22	S.S.E. to E.N.E.
1857	30.066	76.0	69.7	65.2	.622	69.8	5.0	43.44	S.E. to E.N.E.
1858	30.066	76.5	70.6	66.4	.650	71.4	5.0	35.34	S.E. to East.
1859	30.087	76.3	70.0	65.5	.629	69.8	4.9	56.87	S.E. to E.N.E.
1860	30.039	77.2	70.6	66.0	.640	69.8	5.0	45.17	S.E. to E.N.E.
1861	30.032	76.9	69.9	65.0	.618	68.6	4.7	68.73	S.E. to E.N.E.
1862	30.036	77.5	70.4	65.4	.628	67.0	4.2	28.40	S.E. to E.N.E.
1863	30.048	77.0	70.0	65.1	.620	66.6	4.3	33.42	S.E. to N.E.
1864	30.082	76.7	69.6	64.6	.610	67.0	5.0	24.15	S.E. to N.E.
1865	30.073	77.1	70.0	65.0	.619	66.6	5.0	44.73	S.E. to N.E.
1866	30.081	77.1	69.4	64.0	.597	66.2	5.0	20.57	S.E. to East.
1867	30.067	77.8	70.6	65.6	.632	66.2	4.9	35.97	S.E. to E.N.E.
1868	30.059	77.3	70.6	65.9	.639	68.2	5.6	64.18	S.E. to East.
1869	30.084	76.6	69.3	64.2	.600	65.8	5.8	54.57	S.E. to E.N.E.
1870	30.068	76.4	69.5	64.6	.610	67.4	5.0	45.57	S.E. to E.N.E.
1871	30.082	76.7	69.1	63.8	.592	64.6	4.8	42.60	S.E. to E.N.E.
1872	30.042	77.2	70.4	65.6	.632	67.8	4.5	47.76	S.E. to E.N.E.
1873	30.055	77.0	70.3	65.6	.631	68.2	4.8	75.54	S.E. to N.E.
1874	30.055	77.1	70.2	65.4	.626	67.4	4.8	64.82	S.E. to N.E.
Means	30.059	77.0	70.0	65.1	.620	67.1	4.8	45.45	

C. MELDRUM.