



METEOROLOGICAL OBSERVATIONS.

1870.

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1870

National Oceanic and Atmospheric Administration

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March 04, 2010

METEOROLOGY.

METEOROLOGICAL OBSERVATORY.
PORT LOUIS.

Lat. 20° 9' 56" South.

Long. 57° 29' 30" East.

RESULTS OF OBSERVATIONS TAKEN IN 1870.

The Barometer and Thermometer are 30 feet above the mean sea-level. The Barometer, which has a diameter of .564 inch, is by Newman; the Thermometers are by Casella. The Rain-gauge is 25 feet above the ground.

Owing to the temporary occupation of the present Observatory, in the Town of Port Louis, Osler's Anemometer has not been put in place, and therefore the direction and force of the wind have only been estimated. For the same reason, no observations of solar radiation, &c., have been recorded.

In ordinary weather, five observations of the pressure and temperature of the air, temperature of evaporation, direction and force of the wind, character and amount of cloud, &c., are taken daily, viz: at 3½ A.M., 9½ A.M., noon, 3½ P.M., and 9½ P.M.; and, in unusual weather, and on the 31st of each month, hourly observations.

The readings of the Maximum and Minimum Thermometers and of the Rain-gauge are recorded daily at 9½ A.M.

OBSERVATIONS.	JAN.	FEB.	MCH.	APRIL	MAY.	JUNE.	JULY.	AUGT.	SEPT.	OCT.	NOV.	DEC.	MEAN OF YEAR
BAROMETER.	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
<i>(Corrected for capillarity and reduced to 32° F. and to the sea-level.)</i>													
Mean of Month.....	29.956	29.912	29.961	29.979	30.110	30.168	30.159	30.202	30.190	30.119	30.085	29.974	30.068
Mean at 3½ A.M.	29.935	29.895	29.942	29.947	30.087	30.141	30.140	30.184	30.164	30.094	30.062	29.952	30.045
Mean at 9½ A.M.	29.986	29.937	29.989	30.011	30.141	30.200	30.194	30.237	30.227	30.152	30.114	30.003	30.099
Mean at Noon	29.959	29.915	29.960	29.975	30.100	30.165	30.156	30.200	30.185	30.123	30.078	29.977	30.060
Mean at 3½ P.M.	29.917	29.876	29.922	29.942	30.064	30.130	30.118	30.160	30.147	30.081	30.041	29.939	30.028
Mean at 9½ P.M.	29.988	29.942	29.995	30.015	30.150	30.202	30.186	30.229	30.225	30.150	30.117	29.999	30.100
Highest reading	30.093	30.071	30.083	30.174	30.220	30.322	30.282	30.345	30.401	30.247	30.163	30.135	30.212
Lowest reading	29.839	29.732	29.840	29.798	29.961	29.967	30.007	30.087	29.979	29.981	29.949	29.851	29.916
Range in month	0.254	0.339	0.249	0.376	0.259	0.355	0.275	0.258	0.422	0.266	0.214	0.284	0.296
Range from 3½ A.M. to 9½ A.M.	0.051	0.042	0.047	0.064	0.054	0.059	0.054	0.053	0.063	0.058	0.052	0.051	0.054
Range from 9½ A.M. to 3½ P.M.	0.069	0.061	0.067	0.069	0.077	0.070	0.076	0.077	0.080	0.071	0.073	0.064	0.071
Range from 3½ P.M. to 9½ P.M.	0.071	0.066	0.073	0.073	0.086	0.072	0.068	0.069	0.078	0.069	0.076	0.060	0.072
Range from 9½ P.M. to 3½ A.M.	0.053	0.047	0.053	0.068	0.063	0.061	0.046	0.045	0.061	0.056	0.055	0.047	0.050
Mean diurnal range ..	0.061	0.054	0.060	0.068	0.070	0.065	0.061	0.061	0.070	0.063	0.064	0.055	0.063
TEMPERATURE OF AIR													
<i>(Dry Bulb Ther. in Shade.)</i>	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Mean of month	83.2	83.8	83.9	81.2	79.6	75.1	73.9	73.7	75.0	78.0	79.4	81.3	79.0

OBSERVATIONS.	JAN.	FEB.	MCH.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN OF YEAR
TEMPERATURE OF AIR. (Continued.)	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Highest reading	90.7	91.4	90.9	88.3	86.9	84.9	81.1	81.0	83.0	86.0	86.1	91.5	86.8
Lowest reading	77.5	78.0	76.0	75.5	74.0	70.0	69.0	69.5	68.5	73.1	72.5	74.1	73.1
Range in month ...	13.2	13.4	14.9	12.8	12.9	14.9	12.1	11.5	14.5	12.9	13.6	17.4	13.7
Mean of highest daily readings	88.1	88.4	88.6	85.8	84.4	79.3	78.2	78.2	79.6	83.0	84.0	85.9	83.6
Mean of lowest readings	80.1	80.8	80.7	78.1	75.7	72.2	71.2	71.4	72.2	75.5	76.4	78.5	76.0
Mean diurnal range ..	8.0	7.6	7.9	7.7	8.7	7.1	7.0	6.8	7.4	7.5	7.6	7.4	7.6
Greatest diurnal range	10.7	11.1	11.0	9.6	10.7	10.0	9.8	9.2	9.5	9.5	9.3	11.4	10.1
Lowest diurnal range..	4.8	4.0	5.0	2.5	6.9	4.6	3.0	4.0	4.1	4.1	2.5	4.0	4.1
TEMPERATURE OF EVAPORATION. (Wet Bulb Ther. in Shade)													
Mean of month	74.2	75.4	75.3	72.8	70.5	66.7	66.2	65.4	66.0	69.6	70.7	74.1	70.6
Highest reading	79.8	80.0	80.0	78.3	76.5	73.2	71.9	71.0	72.0	74.6	74.9	78.0	75.8
Lowest reading	69.0	69.0	69.6	67.0	63.5	61.5	59.0	60.5	60.0	65.0	66.5	70.0	65.0
Range in Month	10.8	11.0	10.4	11.3	13.0	12.7	12.9	10.5	12.0	9.6	8.4	8.0	10.9
Mean of highest daily readings	76.2	77.4	77.3	75.3	72.7	69.0	67.9	67.5	68.5	71.7	72.7	75.7	72.7
Mean of lowest readings	72.2	73.3	73.2	70.4	67.8	64.4	63.9	63.1	63.8	67.7	68.7	72.2	68.4
Mean diurnal range ..	4.0	4.1	4.1	4.9	4.9	4.6	4.0	4.4	4.7	4.0	4.0	3.5	4.3
DEW POINT (Deduced.)													
Mean of month	68.3	69.9	69.6	67.3	64.2	60.6	60.7	59.4	59.5	63.8	65.0	69.1	64.8
Mean at 3½ A. M.	68.4	70.1	70.0	67.3	64.6	61.2	60.8	58.8	59.4	63.7	64.6	68.6	64.8
Mean at 9½ A. M.	68.1	69.9	69.8	68.2	64.8	60.9	61.2	60.2	59.4	63.9	64.9	69.0	65.0
Mean at 3½ P. M.	68.3	69.4	69.3	66.7	63.5	59.7	60.4	59.1	59.7	63.4	64.5	69.9	64.5
Mean at 9½ P. M.	68.5	70.1	69.5	67.4	64.2	60.5	60.4	57.9	60.4	64.2	65.4	69.6	64.8
ELASTIC FORCE OF VAPOUR (Deduced.)	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Mean of month .....	.696	.733	.726	.674	.603	.530	.533	.512	.512	.598	.614	.716	.620
Mean at 3½ A. M. ....	.697	.739	.734	.672	.611	.542	.535	.496	.510	.592	.610	.700	.620
Mean at 9½ A. M. ....	.690	.731	.731	.663	.615	.536	.542	.517	.508	.596	.608	.719	.624
Mean at 3½ P. M. ....	.696	.722	.719	.658	.587	.515	.525	.503	.498	.586	.609	.723	.612
Mean at 9½ P. M. ....	.700	.740	.722	.673	.601	.525	.527	.515	.527	.601	.627	.724	.624

METEOROLOGY.

OBSERVATIONS.	JAN.	FEB.	MCH.	APRIL	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEAN of YEAR.
HUMIDITY. (<i>Deducted</i>) <i>(Compl Sat.=100.)</i>	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.
Mean of Month	61.0	63.0	62.7	63.1	59.5	60.3	63.4	61.0	58.9	61.8	61.0	67.1	61.9
Mean at 3½ A.M.	64.4	67.0	67.2	66.8	64.5	63.3	66.8	63.7	62.6	65.3	64.0	70.0	65.5
Mean at 9½ A.M.	59.9	61.9	61.8	63.9	59.4	60.4	64.1	61.5	57.1	60.7	59.9	66.6	61.4
Mean at 3½ P.M.	57.7	58.5	58.8	58.8	55.2	56.3	59.8	56.7	54.2	57.7	57.3	64.5	58.0
Mean at 9½ P.M.	62.2	64.7	61.8	63.2	59.2	61.0	63.3	62.6	61.7	63.6	62.7	67.9	62.8
CLOUD. <i>(10=overcast.)</i>													
Mean of Month	5.9	5.4	5.4	6.0	3.8	3.8	4.9	4.9	4.0	5.6	6.1	7.1	5.0
Mean at 3½ A.M.	5.1	4.5	4.8	5.9	3.7	4.0	4.3	4.5	3.3	5.0	5.1	8.7	4.9
Mean at 9½ A.M.	6.8	6.4	6.6	6.5	4.6	4.3	5.1	5.7	4.7	6.4	6.8	6.9	5.9
Mean at 3½ P.M.	6.9	6.7	6.9	6.2	4.9	4.5	6.4	5.5	5.8	6.5	7.4	7.4	6.3
Mean at 9½ P.M.	4.7	4.2	3.5	5.5	2.0	2.6	3.8	3.8	3.2	4.6	5.0	5.4	4.0
RAIN. <i>(Inches in depth.)</i>	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Fall in Month	6.85	3.14	4.58½	12.21	0.21	0.53	0.73	1.14	0.25	2.13	3.73	10.07	45.57½ 3.80
No. of days on which rain fell	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.
	14	15	19	18	5	10	10	12	4	11	10	15	143 12
WIND.													
Prevailing direction	S.E. to E. N.E. & N.W.	S.E. to E. & N.W.	S.E. to E.	S.E. to E.	S.E. to E.	S.S.E. to E.b.S.	S.S.E. to E.S.E.	S.S.E. to E.S.E.	S.E. to E.	E.S.E. to E. & N. W.	E.S.E. to N.E.	East to N.E. & N.	E.S.E.
Mean Max. Force in lbs per square foot..	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
	0.73	0.71	0.70	0.47	0.26	0.43	0.62	0.47	0.47	0.38	0.28	0.28	0.48
Mean Force of Month..	0.21	0.51	0.40	0.30	0.18	0.28	0.35	0.30	0.29	0.23	0.24	0.18	0.29
Mean Force at 3½ A.M.	0.47	0.95	0.56	0.28	0.16	0.27	0.42	0.28	0.32	0.21	0.17	0.17	0.35
Mean Force at 9½ A.M.	0.35	0.33	0.35	0.35	0.17	0.25	0.27	0.30	0.30	0.24	0.40	0.19	0.29
Mean Force at 3½ P.M.	0.43	0.30	0.31	0.29	0.23	0.29	0.43	0.33	0.32	0.25	0.22	0.23	0.30
Mean Force at 9½ P.M.	0.59	0.48	0.39	0.30	0.17	0.30	0.27	0.30	0.25	0.23	0.19	0.15	0.30

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.
3½ A. M.	0	3	2	4	64	122	101	3	0	0	0	0	4	2	1	0	50	0
9½ A. M.	8	2	12	27	76	76	90	19	13	1	0	0	10	5	12	5	4	0
Noon	2	8	15	36	56	77	80	12	10	0	0	1	15	11	16	6	4	0
3½ P. M.	14	8	9	25	52	61	93	17	11	3	1	0	20	10	17	7	2	0
9½ P. M.	1	0	6	7	70	124	114	2	1	0	0	0	9	1	4	0	23	0
Total.	25	21	44	99	318	460	478	53	35	4	1	1	58	29	50	18	83	0

THUNDER AND LIGHTNING.

1870.

- January 9.—Thunder and lightning at Erd at 2 p. m.
- 14.—Thunder and lightning at S. E. to East at 9.40 p. m.
- February 1.—Lightning in different parts between 7 & 8 p. m.
- 19.—Distant thunder at S. S. Erd at 1.15 p. m.
- 22.—Faint lightning in different directions from 7 to 10 p. m.
- 24.—Lightning at S. Erd at 8.15 p. m.
- March 22.—Thunder and lightning at Nrd during the night.
- 23.—Lightning at W. N. W. at 7.40 p. m.
- April 1.—Lightning at S. Erd at 7 p. m.
- 3.—Much lightning at Nrd and N. Wrd during the night.
- 5.—Some vivid lightning at S. Erd at 7 p. m.
- 7.—Thunder and lightning from Erd to Srd from 5 to 11 a. m.
- 24.—Lightning at S. S. Erd and Srd during the night.
- October 12.—Several flashes of lightning near horizon at Srd.
- December 1.—Lightning at S. S. Erd at 7.40 p. m.
- 4.—Distant thunder and lightning at Wrd at 11 a. m. and throughout the day. In the evening they approached, and a heavy thunderstorm, with much rain, lasted till 4 a. m. on the 5th. The storm, which was at its height at 9 p. m., passed from Wrd to Erd.
- 10.—Some thunder at Nrd during the day, and lightning at N. Wrd at night.
- 14.—Thunder at Erd and Nrd from 1 to 2 p. m.
- 18.—Distant thunder at Srd and Erd during the day, and lightning at night.
- 19.—Lightning on northern horizon at night.
- 20.—Thunder at Erd at 4.30 p. m., and much lightning at Nrd and N. Erd during the night.
- 31.—Some claps of thunder overhead at 5.20 p. m.

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

MONTHS.	FLACQ.				PAMPLEMOUSSES.				Rivière du Rempart. Labourdonnis, Mr. Béline.	X Port Louis. Observatory. Mr. Meldrum.	Petite Rivière. Gros Cailloux. Mr. Commins.	MOKA.										
	Ia Gaieté. Hon. E. Icory.		Riche Marc. Mr. Regnard.		Mont Choisy. Mr. Poulin.		Botanical Gardens. Mr. Horne.					Espérance. Mr. R. Telfair.		Bonne Veine. Mr. E. Préaudet.		Croft-an-Righ. Mr. Young.		Elizabeth Cottage. Mr. de Lissa.				
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.				Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.			
January	3.461	14	....	..	2.927	15	5.540	13	5.770	10	6.850	14	1.830	7	6.290	20	7.920	21	3.490	13	3.420	19
February.....	4.956	14	....	..	2.771	10	5.840	13	3.540	12	3.140	15	2.350	7	8.440	22	9.160	22	4.520	15	5.740	20
March	5.193	17	....	..	4.501	20	6.700	16	6.780	17	4.585	19	0.950	10	12.720	31	12.930	27	4.950	23	6.860	24
April	22.558	18	....	..	12.592	23	17.230	19	13.440	18	12.210	18	6.650	16	30.270	30	31.190	29	13.480	22	14.810	27
May	0.705	8	....	..	0.488	8	0.990	7	0.770	2	0.210	5	0.660	4	3.010	17	1.640	20	0.070	3	0.290	7
June ,	2.042	17	....	..	1.353	13	2.140	14	1.910	10	0.530	10	0.260	8	5.200	26	6.080	24	1.130	15	1.970	21
July	2.949	11	....	..	1.632	10	2.690	15	2.610	10	0.730	10	0.290	7	4.910	24	6.005	22	1.270	14	2.160	18
August	1.335	11	....	..	1.198	8	1.810	14	2.000	9	1.140	12	0.170	3	4.950	28	4.295	20	1.500	15	2.230	17
September	0.000	0	....	..	0.354	3	0.750	7	0.390	3	0.250	4	0.050	1	2.700	20	2.860	15	0.630	9	1.240	12
October	8.463	10	....	..	6.417	17	5.090	12	5.060	11	2.130	11	1.480	9	4.690	28	6.215	20	4.610	16	3.700	21
November	10.303	14	6.968	13	4.535	12	5.450	14	4.980	4	3.730	10	3.010	5	6.140	21	6.310	17	3.330	9	4.800	16
December	22.913	16	16.480	19	10.039	13	12.660	15	11.810	10	10.070	15	7.570	17	19.740	28	18.490	23	11.660	16	14.940	20
Total fall in 1870	84.878	150	....	..	48.807	152	66.890	159	59.060	116	45.575	143	25.270	94	109.060	295	113.085	260	50.640	170	62.160	220
Fall in 1869 ..	82.793	..	....	..	53.846	..	61.853	..	63.730	..	54.575	..	46.470	..	113.990	..	118.930	..	61.390	..	70.190	..
Fall in 1868 ..	99.662	..	....	..	55.545	..	91.215	..	70.460	..	64.180	..	50.980	..	130.150	..	.....	..	115.320	..	125.700	..
Fall in 1867 ..	76.126	..	....	..	43.284	..	....	..	56.990	..	35.970	..	35.120	..	99.940	..	.....	..	60.820	..	62.950	..
Fall in 1866 ..	57.772	..	....	..	45.049	..	....	..	50.290	..	20.741	..	20.720	..	88.020	..	.....	..	40.680	..	.....	..
Fall in 1865 ..	97.546	..	....	..	67.532	..	85.371	..	87.630	..	44.737	..	36.570	..	147.740	..	.....	..	79.440	..	.....	..
Fall in 1864 ..	....	..	....	..	48.894	..	51.555	..	57.250	..	24.148	..	24.170	..	.....	..	.....	..	56.61	..	.....	..
Fall in 1863 ..	....	..	....	..	54.660	..	....	..	70.720	..	33.420	..	33.350	..	.....	..	.....	..	.....	..	.....	..
Fall in 1862 ..	....	..	....	..	41.560	..	....	..	52.230	..	28.397	..	25.360	..	.....	..	.....	..	.....	..	.....	..

RAIN FELL, AT DIFFERENT STATIONS IN MAURITIUS, DURING THE YEAR 1870.

		PLAINES WILHEMS.								GRAND PORT.				SAVANNE.									
Gentilly. Mr. H. Finniss.		Beau Séjour Hon. J. Fraser.		Curepipe. Hon. F. M. Dick.		Westra. Mr. H. Wilson.		The Braes. Mr. Grant.		Mesnil. Mr. Chamell.		Cluny. Mr. Macpherson.		Gros Bois. Mr. Vallet.		Beau Vallon. Mr. Rochecouste.		St. Aubin. Hon. H. Pitot.		Colmar. Mr. A. Hirth.		L'Union. Mr. J. Rouillard.	
Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
3.890	13	2.940	15	14.330	24	4.340	18	3.200	18	6.540	11.420	24	6.600	16	3.390	17	3.295	20	5.660	18	2.395	9	
5.900	16	4.260	18	11.370	25	5.710	20	4.060	16	6.100	13.220	22	5.690	21	2.890	18	5.370	21	5.690	21	3.920	15	
6.690	22	5.020	23	20.880	30	10.030	28	6.890	24	11.950	15.980	29	11.440	29	5.620	27	8.050	27	9.330	28	7.030	26	
16.910	22	12.550	24	42.640	29	20.740	29	18.210	24	26.00	59.580	29	34.420	24	21.000	25	31.675	27	34.740	26	35.735	18	
0.520	7	0.750	7	1.650	18	0.850	6	0.620	7	1.340	2.970	16	1.920	14	1.120	11	1.120	10	1.740	14	1.005	3	
2.450	13	2.080	19	9.400	22	3.160	18	2.920	20	5.700	7.470	23	5.760	21	2.870	18	4.670	24	4.670	22	3.790	17	
2.520	11	1.740	16	8.330	22	3.800	20	2.010	16	4.170	8.070	27	5.730	18	3.330	16	4.690	21	5.820	20	3.590	22	
2.910	14	2.030	21	10.850	28	4.100	26	2.810	20	4.620	5.750	28	3.300	20	1.610	21	2.250	18	3.380	26	1.595	9	
1.380	12	0.750	10	4.420	19	2.260	9	1.320	14	2.770	2.630	20	2.380	16	0.860	12	1.100	14	1.380	13	0.660	5	
5.920	17	5.720	14	8.470	19	4.470	11	3.920	19	5.580	8.060	21	5.510	16	5.310	16	3.060	14	3.600	14	3.665	10	
4.190	12	4.780	9	5.040	18	3.420	9	3.020	12	4.760	6.920	14	6.640	15	7.970	14	5.470	12	4.500	14	5.360	6	
14.870	21	11.870	16	18.070	21	17.970	21	9.020	19	16.430	18.360	20	13.010	19	12.670	21	11.645	18	13.620	17	7.505	9	
68.150	180	54.490	192	135.450	275	80.850	215	58.000	209	95.960	160.430	273	102.400	229	68.640	216	82.395	226	94.130	233	76.250	149	
75.380	..	67.585	..	132.940	..	80.670	..	70.020	..	88.000	129.370	..	94.580	..	69.940	..	76.660	..	88.910	..	58.345	..	
123.090	..	95.650	..	.....	..	122.360	..	110.410	..	143.470	183.740	..	137.290	..	81.600	..	112.120	..	.....	..	.....	..
73.67	..	65.500	..	.....	..	81.345	..	72.030	..	84.910	141.230	..	83.595	..	61.050	..	71.660	..	.....	..	.....	..
.....	..	44.555	..	.....	..	.....	..	48.685	..	67.670	129.420	..	70.245	..	51.055	..	70.510	..	.....	..	.....	..
.. ..	..	87.115	..	.....	..	.....	..	78.770	..	.....	192.450	..	135.210	..	100.845	..	115.605	..	.....	..	.....	..
.....	..	54.600	..	.....	..	.....	..	70.590	..	.....	122.480	..	83.360	..	.....	..	.....	..	.....	..	.....	..
.....	..	99.760	..	.....	..	.....	..	81.090	..	.....	147.09	..	.....	..	.....	..	.....	..	.....	..	.....	..
.....	..	69.070	..	.....	..	.....	..	59.510	..	.....	122.540	..	.....	..	.....	..	.....	..	.....	..	.....	..

M E T E O R S .			
Day.	Hour.	Number seen.	REMARKS.
1870.			
March .. 4	7.15 P. M.	1	Small. From Srd to Wrd near horizon.
" .. 23	7.40 P. M.	2	" One from Srd to S. Wrd and the other from Wrd to Srd.
April ... 21	10.0 P. M.	1	" From Wrd to Erd near zenith.
" "	11.0 P. M.	3	" One from N. Wrd to Nrd, and two from Nrd to S. Erd ; all overhead
" 24	3.35 A. M.	2	" From N. Wrd to Erd, overhead.
May 6	9.0 P. M.	1	" From S. Erd to Wrd, overhead.
" 7	3.35 A. M.	2	" From Erd to Wrd near horizon.
" 21	7.15 P. M.	1	" From Nrd to Erd near horizon.
" "	9.0 P. M.	2	" One from Srd to Erd, and the other from Wrd to Srd, both overhead.
" "	Midnight.	1	" From S. S. Erd to Wrd overhead.
June 6	3 30 A. M.	1	" From Erd to Nrd overhead.
" 28	9.80 P. M.	1	" From Srd to Erd overhead.
July 8	6.35 P. M.	1	" From Wrd to Erd overhead.
" 22	8.0 P. M.	1	" From Nrd to N. Erd near horizon.
" 23	3.30 A. M.	1	" From Erd to Srd near horizon.
" 24	9.45 to 9. 50 P. M.	3	" Shot down to horizon through Hereules.
" 25	7.20 P. M.	1	" From Wrd to Erd near horizon.
" 27	9.54 to 10. 45 P. M.	25	" From direction of Scorpio to Wrd and W. S. Wrd. They were of a silvery white colour, lasted only a fraction of a second, and appeared to travel with great velocity. There was a light breeze from Erd at the time.
" 31	3.88 A. M.	2	" From Srd to Erd near horizon.
" "	6.30 P. M.	1	" From Nrd. to Srd. overhead.
August .. 9	9.35 P. M.	1	" From S. S. Erd. to E. N. Erd. near horizon.
" .. 10	3.30 A. M.	1	" From N. Wrd. to Wrd. " "
" .. "	8.10 P. M.	1	" From E. N. Erd. to E. S. Erd. " "
" .. 23	1.0 A. M.	2	" From Srd. to E. N. Erd. overhead.
September 2	3.35 A. M.	1	" From Erd. to N. Wrd.
" .. 7	6.31 P. M.	1	" Equal in size and brilliancy to Venus. Appeared at an elevation of about 30° and disappeared at about 15° above horizon. Motion in azimuth easterly. Direction, say 10° to East of North. Colour of a bluish silvery tinge. Notwithstanding bright moonlight and twilight it shone with the greatest distinctness." Seen and described by Mr. Connal and Mr. Scott.
" .. 21	9.0 P. M.	2	Small. From Erd. to Srd. near horizon.
" .. "	1.0 A. M.	1	" From Wrd. to N. Wrd. " "
" .. 25	5.50	1	A few minutes before sunset a large and brilliant meteor was seen by Mrs. and Miss Kerr away to the Nrd. from their residence, <i>The Oaks</i> . It travelled down towards the horizon, was of a yellowish colour, and broke up into fragments.
October . 22	2.0 A. M.	1	Small. From Wrd. to Srd. near horizon.
November 1	7.0 P. M.	1	" From S. W. to S. S. E. near horizon.
" .. 13	8.12 P. M.	1	" From Erd. to Wrd. through head of Capicorn.
" .. 14	1.18 A. M.	1	" From near Pollux to Erd.
" .. "	3.35 to 4. 23 A. M.	10	Nearly all from the sickle in Leo. They varied in size, brilliancy, and colour, and generally left trains of light behind them. Their duration was from one to three seconds.
" .. 15	3.26 to 4. 18 A. M.	3	Small. From Leo to S. Wrd.
" .. 18	7.50 P. M.	1	Bright, with a long purplish train. Passed from N. Wrd. to Srd. near horizon.
" .. 22	7.00 P. M.	1	Very large ; of a bright yellow-colour ; travelled from W. S. Wrd. to E. N. Erd ; tapered so as to form a long train, and then burst. Seen by Mr. J. Brodie, Mr. J. D. Campbell, and others.
December 15	9.55 P. M.	1	A most beautiful meteor of large size seen by Capt. Russell, R. N. " It commenced just below Sirius (at a distance of 4° to 5°), travelling in a direction of about N. N. E. towards Castor and Pollux, increasing considerably in magnitude. I lost sight of it under the above named stars, the Citadel mountain obstructing my view. It was very pale and bright, with a bluish tint, and left a long train of fire or sparks in its course."

REMARKS.

The Monthly means of the Barometer, Dry and Wet Bulb Thermometers, Dew Point, Elastic Force of Vapour, Relative Humidity, Amount of Cloud, and Force of Wind have been derived from the four observations taken daily at 9½ A. M., 9½ P. M., 3½ P. M., and 9½ P. M.

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

The mean height of the Barometer for the year was	30.068 inches.	
Highest reading of Barometer (corrected and reduced)	30.401 at 9½ A. M., 12th Sept.	
Lowest do. do.	29.732 at 3½ P. M., 18th Feb.	
Mean daily Barometric Oscillation	0.062 inch.	
Mean Temperature of year	79.0°	
Highest reading of Maximum Dry Bulb Ther. in Shade ..	91.5°, 29th Dec. }	Range 23.0°
Lowest reading of Minimum do. do. do. ..	68.5°, 12th Sept. }	
Highest reading of Maximum Wet Bulb Ther. in Shade ..	80.0°, 19th Feb. }	Range 21.0°
Lowest reading of Minimum do. do. do. ..	59.0°, 30th July }	
Highest Dew Point (from six-hourly observations).....	75.8°, 20th Feb. }	Range 22.4°
Lowest Dew Point	53.4°, 30th July }	
Highest tension of Vapour .....	.894, 20th Feb. }	Range .485
Lowest do. do. ....	.409, 30th July }	
Highest Relative Humidity (100=comp. Sat.)	91.5, 2nd Dec. }	Range 50.5
Lowest do. do. (do.)	41.0, 15th Nov. }	
Rainfall during the year	45.575 inches.	
Greatest fall during 24 hours	4.28 inches, 7th April.	
Number of days during which rain fell	143.	

On the 6th and 7th April, torrents of rain fell in the southern parts of the Island. At *Cluny* (about 950 feet above the sea-level) the gauge, though it had been emptied at 6 P.M. on the 6th, was found to be overflowing at 6 A. M. on the 7th; but notwithstanding this, the total quantity measured from 9 A. M. on the 6th to 9 A. M. on the 7th was 27.40 inches. At *Good End* (about 1600 feet above the sea-level) 14.86 inches fell from 6 P. M. on the 6th to 6 A. M. on the 7th, and from 6 A. M. to 6 P. M. on the 7th, 9.01 inches, making a fall of 23.87 inches in 24 hours. At *L'Union, St. Aubin*, and *Colmar*, nearer the coast, and at a less elevation, 17.54, 12.10, and 9.39 inches fell, respectively, in 24 hours. During the first eight days of the month, a great deal of rain fell over the the Island generally, making the total fall for the month the greatest yet recorded at most of the Stations. The flood of the 6th to the 7th was accompanied by a thunderstorm; the rivers rose very high, and several bridges, which had withstood previous floods, were swept away.

On Sunday, the 4th December, there was a heavy thunderstorm with much vivid lightning. The thunder was heard away to the N. Wrd. at 11 A. M., and the storm was at its height, and nearly overhead, about 9 P. M. It has been reported that at that time a shower of large hailstones fell at *Medina* in the district of Black River.

GALES AND HURRICANES AT SEA.

JANUARY.—On the 5th, 6th and 7th, the *Edouard, St. Vincent de Paul, Sunbeam, Inveraray* and *Clytemnestra*, had severe gales from E. N. E. to N. W. and W., in 31° to 42° S. and 28° to 56° E. —The barometer at Port Louis fell 0.114 inch from the 2nd to the 8th, with the wind light from N. W. to West.

On the 6th, the barque *Inverdrue* had a heavy gale from Wrd. in 2° 28' S. and 87° 34' E.

From the 10th to the 15th, the *Ismail, Bayonnaise, Jane Bell, Glenroy, Trevanion* and *Inverdrue*. had a furious gale from N. E. to N. W., West, and W. S. W., in 2° to 11° N. and 83° to 90° E. —The wind at Port Louis was squally from S. Erd. and the barometer from 30.210 to 30.008 inches.

On the 28th, the *Royal Berkshire* and *Perigny* had a strong gale from N. Erd. in 38° S. and 29° to 31° E.—At Port Louis, the wind was from E. S. Erd., and the barometer unsteady.

The schooner *Vistula*, from the Seychelles to Mauritius, experienced a severe hurricane on the 30th and 31st.—At Port Louis, the barometer fell from 30.120, at noon on the 29th January, to 30.004, at noon on the 3rd February; the wind veered from E. S. E. to E. N. E.; and on the 2nd, it was announced that there had been a gale at N. Erd. and Nrd. since the 29th January.

FEBRUARY.—On the 5th, the *Perigny* had a hard gale from South to E. S. E. in 35° $51'$ S. and 44° $20'$ E. On the 7th, the *Shannon* and *Phæbe* had a strong gale from South to S. S. W. in 33° to 36° S. and 13° to 18° E. On the 12th, the *Royal Berkshire* had a heavy gale from N. E. and N. N. W. in 32° S. and 56° E. On the 13th the *Perigny* and *Nancy Bryson* had strong gales from North and N. W., the former vessel in 31° S. and 57° E., and the latter in 42° S. and 22° E. On the 15th and 16th, the *Catherine Fullerton*, in 20° S. and 108° E., had a heavy gale from S. W. to N. W.—During these ten days, the Barometer at Port Louis oscillated between 30.106 and 29.938, with the wind variable from E. S. E. to East, N. E., and N. W.

On the 19th, the *Argo*, in 20° $33'$ S. and 59° $23'$ E., had a hard gale from E. b S; the wind veered to N.E., North and N.W., and the barometer fell to 29.50.—At Port Louis, the barometer fell from 30.032 at noon on the 16th to 29.876 at noon on the 19th, the wind veering from S. E. to South, and then falling light, and passing to West on the 19th, and to N. W. on the 20th.

On the 23rd and 24th, the *Annie*, in 6° to 10° N. and 82° E., had a strong gale from S. E. to South and S. W.

On the 25th and 26th, the *Achievement*, in 39° S. and 31° E., had a hard gale from W. N. W. and West.—At Port Louis, the barometer fell 0.090 with the wind light from E.S.Erd.

MARCH.—On the 3rd and 4th, the *Virginia* and *Achievement* had strong gales from E. S. E. to N. E., in 39° S. and 25° to 40° E., and on the 8th and 9th the *Virginia* had hard gales in 39° S. and 39° to 44° E.—The wind at Port Louis was from S. Erd, and the barometer high, but falling on the 4th and 5th, and also on the 8th.

From the 9th to the 11th, the *Loch Awe* experienced a heavy gale from E. S. E. to East in 27° to 20° S. and 61° to 58° E.—At Port Louis, on the 9th and 10th, the wind increased from S. Erd., and veered to South on the 11th, the barometer, which had fallen 0.082 inch on the 9th and 10th, then rising.

On the 17th, the *Australind* had a strong gale from N. W. and West. in 37° S. and 114° E.

On the 19th, the *Denis Affre*, in 38° $12'$ S. and 36° $17'$ E., had a strong gale from S. Erd.

On the 20th, the *Ocean Bell*, in 40° $06'$ S. and 19° $16'$ E., had a "terrific gale" from West.—At Port Louis, the wind, on 19th and 20th, veered from E.S.E. to East and N.N.E., and the barometer fell 0.032 on the 19th.

From the 23rd to the 25th, the *Scotland* and *Kassa*, in 38° S. and 18° to 22° E., experienced a hard gale from N. Wrd.—On the 25th and 26th, the barometer at Port Louis fell 0.090 inch, with the wind from E. S. E. to E. N. E.

On the 28th, the *B. B. Greene*, *Glenora Fliberty*, and *Kassa*, in 36° to 40° S. and 20° to 28° E., had heavy gales from North to N. W. and West.—At Port Louis, the barometer rose a little on the 27th, but on the 28th and 29th, fell 0.080 inch, with the wind squally from E. S. Erd.

APRIL.—On the 2nd and 3rd, the *Meridien*, in 38° S. and 20° to 23° E., had a whole gale from South to S. S. W., West, and N. W.; and on the 3rd and 4th, the *Denis Affre* and *Crown*, in 20° to 22° S. and 58° to 69° E. had strong winds and gales from Erd.—From the 31st March to the 2nd April, the barometer at Port Louis fell from 30.094 to 29.942, with the wind squally from S. E. to East, and during the night of the 4th to the 5th there was a fresh gale from East.

On the 5th, the *Margaretta* had a strong gale from E. S. E. in 21° S. and 57° E.

On the 10th and 11th, the *Sea Ripple*, in 38° S. and 109° to 114° E., had a strong gale from W. S. Wrd.

From the 12th to the 20th, the *Zealandia* and *Glenora* had a hurricane in 12° to 19° S. and 77° to 70° E. On the 14th and 15th, the *Melrose*, in 9° S. and 104° E. had a hurricane from South to S. S. E. and W. S. W. On the 13th, the *Meridien*, in 37° S. and 53° E., had a strong gale from N. E. to North, N. W., W. S. W. and South. On the 19th, the *Jane Bell*, in 36° S. and

122° E. had a heavy gale from S. S. E. On the 20th, the *Ocean Bell*, in 15° S. and 105° E., had a "terrific gale" from N.E. to East and S. E.—At Port Louis, the barometer fell to the extent of 0.068 on the 11th; it then rose 0.068 on the 12th and 13th; and from the 13th to the 18th it fell 0.094, the wind being from E. S. Erd. throughout, and veering to S. S. E. and South on the 18th and 19th.

From the 25th to the 27th, the *Isle of France*, in 35° S. and 122° to 120° E., had a heavy gale from N. E. to North, N. W., West, S. W., and South.

On the 30th, the *Ariel* (from Mauritius to Melbourne) encountered a heavy gale from N. W., (Position not known.)

MAY.—From the 2nd to the 7th, the *Staffordshire*, in 40° to 38° S. and 60° to 73° E., had strong gales from N. N. E. to North, N. W., West, and W. S. W.—At Port Louis, the barometer was unsteady and the wind from S. E. to E. N. E.

From the 8th to the 11th, the *Nimrod* and *Rutlandshire*, in 3° N. to 3° S. and 90° to 95° E., had heavy gales and violent squalls from S. Wrd.; and on the same days the *Regent* and *Reine des Anges*, in 36° to 40° S. and 18° to 31° E., had heavy gales from W. N. W. to S. S. W.—At Port Louis, the barometer fell 0.100, with the wind from S. E. to East, North and N. W.

From the 14th to the 18th, the *Robur* and *Rolling Wave*, in 34° to 36° S. and 27° to 38° E., had heavy gales from N. W., West, and S. W.—At Port Louis, the barometer fell 0.142, with the wind from S. E. to East.

From the 16th to the 31st, the *Sagittaire*, in 38° to 32° S. and 20° to 53° E., had a succession of hard gales from N.E., North, N.W. and S.W.; and from the 21st to the 31st, the *Chrysolite*, in 39° to 32° and 10° to 49° E., had "terrific gales" from the same quarters. On the 21st and 22nd, the *St. Vincent de Paul* in 16° N. and 87° E. had hard gales from S.Wrd.—At Port Louis, from the 21st to the 26th, the barometer fell 0.204, with the wind from S.E. to East, North, N.W. and West.

On the 27th, the *Southern Empire*, in 41° 11' S. and 33° E., experienced very hard gales from West, S.E. and South.

From the 28th to the 30th, the *Thames*, in about 17° N. and 92° 40' E., experienced very heavy gales from N.W. to N.E., and on the same days the *Edward* and *Zeus* in 37° S. and 45° to 49' E., had strong gales from N.E. to N.W. and S.W.

JUNE.—On the 1st and 2nd, the *Sagittaire*, *Chrysolite*, and *Zeus*, in 32° to 34° S. and 48° to 58° E., had very heavy gales from N.W. to S.W.—At Port Louis, on the 31st May and 1st June, the barometer fell 0.196, with the wind from East to North, N.W., and West.

On the 2nd, the *St. Vincent de Paul* had violent gales from S.S.W. to W.S.W. on the equator in 92° E.

From the 2nd to the 4th, the *Prospero* and *Melrose*, in 33° to 36° S. and 65° to 79° E., had heavy gales and "terrific squalls" from N.W. to S.S.W.—At Port Louis, the barometer was rising and the wind from S S.E. to South and S.W.

On the 7th and 8th, the *Fathe Salem*, in 7° S. and 84° E. had strong gales and heavy squalls from East to S.E. On the 12th, in 8° S. and 91° East the *St. Vincent de Paul*, had a hard gale and violent squalls from S. to S.S.E.—At Port Louis, from the 8th to the 14th, the barometer fell 0.190, with the wind from S. Erd.

On the 16th, 17th and 18th, the *St. Vincent de Paul*, in 14° to 16° S. and 83° to 79° E., had violent winds from S.S.E. to South and a "frightful sea", and on the same days, in 15° to 12° N. and 85° to 87° E., the *Ismail* had strong gales from West to S.W.—At Port Louis, the wind was squally from S.Erd., and the barometer high and rising until the 18th when it fell a little.

On the 20th and 21st, the *Sea Breeze* and *Providence*, in 38° S. and 32° to 37° E., had heavy gales from N.N.W. to S.W.—At Port Louis, the barometer was high (30.278 to 30.414), with the wind from S.Erd, but on the 22nd and 23rd it fell 0.112.

On the 23rd and 24th the *Brise Lames*, in 36° to 37° S. and 7° to 9° E., had a storm from N. W. to S.S.W.

JULY.—From the 1st to the 7th, the *Brise Lames*, *Aracon*, *Wynaud*, *Caton*, *Almora*, *Flibberty*, *Siberian*, and *Reunion*, in 35° to 42° S. and 14° to 46° E., had very heavy gales from N.E. to N.W.,

and S. W.—From the 30th June to 4th July, the barometer at Port Louis fell 0.114, with the wind squally from S.Erd.

From the 10th to the 18th, the barometer at Port Louis fell 0.224, with the wind squally from S.E. to East, and during that period violent gales were experienced by the *St. Marc*, *Isle of France*, *Silurian*, and *Victoria Cross*, from North to N. W. and S.W., in 35° to 45° S. and 22° to 74° E.; by the *Annie Frost*, from S.W. and South, in 6° N. and 91° E.; and by the *Gelderland*, from East, S. E. and N.E., in 15° S. and 85° E.

On the 23rd, the *Reunion*, in 34° S. and 55° E., had a strong gale from N.E. to North and N.W.; on the 24th the *St. Marc*, in 37° S. and 60° E., had violent gales from N.N.E., North, and N.W.; and from the 24th to the 26th, the *Glenroy* and *Empress of India* had strong gales and "terrific squalls" from S.W. and W.S.W. in 16° to 18° N. and 87° to 91° E.—At Port Louis, the wind was from S.E. to N.E. and the barometer oscillating.

AUGUST.—From the 2nd to the 5th, the *Spirit of the South*, *Lutin*, and *Constance*, in 36° to 38° S. and 14° to 24° E., had strong gales from N.E. to N.W., S.W., and South.—At Port Louis, the barometer fell 0.100, with the wind squally from S.Erd.

On the 6th and 7th, the *Chrysolite*, in 25° S. and 55° E., had strong gales from South to S.S.W.

On the 8th, the *Michel*, in 28° and 109° E. had strong gales from South to S.S.W. and "frightful weather."

From the 10th to the 12th, the *Spirit of the South* and *Rose* had strong gales from North to N.W. and W.S.W., in 38° S. and 25° to 32° E.—At Port Louis, the barometer fell 0.046 with the wind from S.E. to East.

On the 14th and 15th, the *Calbot*, in 16° to 17° N. and 93° E., had strong gales from W.S.W.; and from the 15th to the 20th, the *Sea Pink*, in 16° to 10° N. and in 89° E., had severe gales from W.S.Wrd.—At Port Louis, the barometer rose 0.114, with the wind squally from S.Erd.

From the 24th to the 28th, the barometer at Port Louis fell from 30.404 to 30.272, with the wind squally from S.Erd., but no reports of bad weather at sea have been received.

SEPTEMBER.—From the 30th August to the 7th September, the *Stella*, *Harriett*, *Wcolhampton*, *Brani*, *Leonic*, and *Zephyr*, in 31° to 40° S. and 16° to 50° E., had very hard gales from N.E., N.W., and S.W.—At Port Louis, the barometer fell 0.220, with the wind from S.E. to East, N.W. and West.

From the 12th to the 21st, the barometer at Port Louis fell 0.178, with the wind squally from South to East.—On the 12th and 13th the *Latona*, in 40° S. and 2° to 0° 28' W. had hard gales from North to West; from the 14th to the 17th, the *Sea Pink* and *Mount Washington*, in 14° to 21° S. and 81° to 67° E., had strong gales from S.Erd.; on the 17th, the *Farningham*, in 38° S. and 124° E., had a heavy gale from N.E. to N.N.W.; from the 19th to the 21st, the *Edward*, in 18° N. and 70° to 72° had heavy gales from W.N.Wrd; and on the 20th and 21st, the *Coromandel*, in 37° S. and 18° E., had a heavy gale from S.Wrd.

From the 25th to the 30th, the *Coromandel*, *Pondichery Glendower*, and *Silence*, in 33° to 40° S. and 2 to 28° E. had heavy gales from N.W. to S.W. and S.E. On the 26th, the *Laughing Wave*, in 17° N. and 116° E., had a strong gale from S.W. On the 30th, the *Zeus*, in 31° S. and 107° E., had a strong gale from S.Erd.—At Port Louis, the barometer oscillated between 30.340 and 30.204, with wind from S.E. to N. W.

OCTOBER.—From the 2nd to the 4th, the *Silence*, in 39° S. and 15° 21° E., had a violent gale from West to N.W., and on the 2nd the *Zeus*, in 28° S. and 101° E., had a strong gale from S.E.

From the 8th to the 11th, the *Pondichery* and *Silence*, in 37° to 40° S. and 28° to 33° E., had hard gales from E.N.E. to North, and on the 12th and 13th, the *Jeanne D'Arc*, in 43° S. and 11° to 13° E., had a strong gale from N.Wrd.—At Port Louis, the barometer fell 0.166, from the 4th to the 10th, with the wind from S.E. to East, North and N.W.

On the 18th and 19th the *Anne Marie* and *Jeanne D'Arc*, in 40° S. and 31° to 36° E., had a storm from S.S.W., South, and S.S.E.; on the 21st, the *Corinne*, in 8° S. and 88° E., had a hard gale from West to N.W.; and on the 23rd and 24th, the *Courier*, in 38° S. and 14° to 18° E., had a strong gale from N.W. to West and S.W.—At Port Louis, the barometer fell 0.142 from the 17th to the 23rd, with the wind from S.E. to East and N.W., and on the 24th and 25th rose 0.082.

From the 25th to the 27th, the *Barentin* and *Jeanne D'Arc*, in 41° to 33° S. and 36° to 53° E., had heavy gales from N.N.W. to S.W.—At Port Louis, the barometer fell 0.082, with the wind from S.E. to East, North and West.

NOVEMBER.—From the 31st October to the 3rd November, the *Courrier* and *Esk*, in 40° to 36° S., and 14 to 35° E., had heavy gales from N.E. to North and N.W.—At Port Louis, the barometer fell 0.116, with the wind from S.E. to East and N.N.W.

On the 12th, the *Northumberland*, in 8° S. and 85° E., had a strong gale from S.S.E.

On the 22nd and 23rd, the barometer at Port Louis fell 0.148, with the wind from S.E. to East, North, and N.W. No information of a gale at sea has been received, but there was a thunderstorm about 150 miles to the Erd. of the Island on the 23rd.

On the 27th, the *Glendower*, in $40^{\circ} 13'$ S. and $44^{\circ} 18'$ E., had a very strong gale from Wrd., and on the 30th, the *Marshal Pébissier*, in 29° S. and 51° E. and the *Artræa*, in 28° S. and 62° E., had strong gales from South to S Erd.—At Port Louis, the barometer fell 0.162 from the 27th Nov. to the 2nd Dec., the wind veering from East to N.E., North and W.N.W.

DECEMBER.—On the 11th, the *Esther*, in $33^{\circ} 40'$ S. and 25 miles off the land, had a strong gale from W.N.W. From the 8th to the 13th, the barometer at Port Louis fell 0.114, the wind being chiefly light from N.E. to North, N.W., and West.

On the 22nd, the *Planet*, in 33° S. and $51^{\circ} 20'$ E., had a gale from South to S. S. W., with "every appearance of a hurricane"; and, on the 22nd and 23rd, the *Shannon*, in 38° S. and 20° E., had a strong gale from S. — From the 10th to the 23rd, the barometer at Port Louis fell 0.100, with the wind light from S. E. to East, N. E., and North.

Detailed accounts of these Gales and Hurricanes are contained in the records of the Meteorological Society.

