

Mauritius. Royal Alfred Observatory.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS

TAKEN AT

PORT LOUIS, MAURITIUS.

1864.

FROM THE "BLUE BOOK."

QC
994.5
R38
1864

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 1864.

The Barometer and Thermometers are 30 feet above the sea-level. The Barometer, which has a diameter of .564 inch, is by Newman ; the Thermometers are by Casella. The direction and force of the wind are recorded by Osler's Anemometer. The Rain-Gauge is 40 feet above the ground.

In ordinary weather, five observations on the pressure and temperature of the air, the direction and force of the wind, the amount and character 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 21st of each month, hourly observations. The readings of the Self-Registering Thermometers and Rain-Gauge are recorded daily at 9½ A. M.

OBSERVATIONS.	JAN.	FEB.	MAR.	APRIL	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN OF YEAR.
BAROMETER.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
<i>(Corrected for altitude and capillarity, and reduced to 32° Fah.)</i>													
Mean of month	29.952	29.937	29.923	29.986	30.086	30.195	30.219	30.206	30.258	30.142	30.064	30.017	30.082
Mean at 3½ A. M	29.933	29.916	29.898	29.968	30.066	30.176	30.202	30.185	30.240	30.129	30.047	29.999	30.063
Mean at 9½ A. M	29.974	29.966	29.949	30.015	30.121	30.228	30.252	30.241	30.292	30.177	30.089	30.036	30.111
Mean at noon	29.950	29.942	29.919	29.979	30.080	30.190	30.214	30.203	30.250	30.143	30.064	30.013	30.078
Mean at 3½ P. M	29.913	29.902	29.883	29.945	30.046	30.154	30.176	30.165	30.209	30.097	30.028	29.982	30.041
Mean at 9½ P. M	29.980	29.967	29.963	30.018	30.114	30.220	30.239	30.232	30.290	30.168	30.096	30.051	30.111
Highest reading	30.085	30.107	30.096	30.094	30.209	30.335	30.356	30.373	30.385	30.311	30.199	30.119	30.222
Lowest reading	29.706	29.693	29.667	29.859	29.963	30.069	30.077	30.063	30.137	30.014	29.933	29.936	29.926
Range in month	0.379	0.414	0.429	0.235	0.246	0.266	0.279	0.310	0.248	0.297	0.266	0.183	0.296
Range from 3½ A. M. to 9½ A. M	0.041	0.050	0.051	0.047	0.055	0.052	0.050	0.056	0.052	0.048	0.042	0.037	0.048
Range from 9½ A. M. to 3½ P. M	0.061	0.064	0.066	0.070	0.075	0.074	0.076	0.076	0.083	0.080	0.061	0.054	0.070
Range from 3½ P. M. to 9½ P. M	0.067	0.065	0.080	0.073	0.068	0.066	0.063	0.067	0.081	0.071	0.068	0.069	0.070
Range from 9½ P. M. to 3½ A. M	0.047	0.051	0.065	0.050	0.048	0.044	0.037	0.047	0.050	0.039	0.049	0.052	0.048
Mean diurnal range	0.054	0.057	0.065	0.060	0.061	0.059	0.056	0.061	0.066	0.059	0.055	0.053	0.059
TEMPERATURE OF AIR.													
<i>(Dry Bull Ther. in Shade.)</i>	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Mean of month	81.4	81.0	80.4	79.1	75.0	73.1	71.3	71.4	72.5	76.0	78.5	80.5	76.7

OBSERVATIONS.	JAN.	FEB.	MAR.	APRIL	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.	MEAN OF YEAR.
TEMP. OF AIR (Continued)	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Highest reading	87.5	88.0	87.1	86.9	82.1	81.2	78.4	79.0	80.0	83.4	88.0	89.0	84.2
Lowest reading	77.8	75.6	74.1	73.9	66.8	66.4	66.5	66.0	67.2	71.0	70.0	74.0	70.8
Range in month.	9.7	12.4	13.0	13.0	15.3	14.8	11.9	13.0	12.8	12.4	18.0	15.0	13.4
Mean of highest.	86.2	85.5	85.3	83.4	79.7	77.3	75.3	75.4	76.9	80.5	83.7	85.5	81.2
Daily readings.													
Mean of lowest readings	78.7	78.4	78.0	76.9	71.7	70.5	68.9	69.0	69.8	73.3	75.0	77.7	73.9
Mean diurnal range. . . .	7.5	7.1	7.3	6.5	8.0	6.8	6.4	6.4	7.1	7.2	8.7	7.8	7.2
Greatest diurnal range. .	9.1	11.1	11.2	9.2	12.7	9.4	10.0	9.6	9.8	9.5	12.1	12.0	10.5
Least diurnal range. . . .	5.1	3.4	4.4	3.0	3.0	4.5	3.0	4.5	5.0	5.1	5.0	5.0	4.2
TEMPERATURE OF EVAPORATION. (Wet Bulb Ther. in Shade)													
Mean of month	73.8	74.0	73.8	72.5	67.7	65.9	64.7	64.8	64.6	68.7	71.5	72.9	69.6
Highest reading	77.1	79.0	79.0	79.0	76.6	73.0	70.0	71.1	69.7	75.2	77.9	79.0	75.5
Lowest reading	68.7	67.8	66.8	65.7	60.8	58.6	56.8	56.9	60.0	64.5	62.5	69.0	63.2
Range in month.	8.4	11.2	12.2	13.3	15.8	14.4	13.2	14.2	9.7	10.7	15.4	10.0	12.3
Mean of highest.	75.7	75.9	76.0	74.5	70.2	68.1	66.5	67.0	66.9	71.3	73.6	75.7	71.8
Daily readings.													
Mean of lowest readings	71.7	71.5	71.5	70.2	64.9	63.1	61.8	62.3	62.0	66.4	68.4	70.7	67.0
Mean diurnal range. . . .	4.0	4.4	4.5	4.3	5.3	5.0	4.7	4.7	4.9	4.9	5.2	5.0	4.7
DEW POINT (Deducted.)													
Mean of month	69.9	70.4	70.4	69.1	64.0	62.2	61.2	61.3	60.6	64.9	67.9	69.3	65.9
Mean at 3½ A. M	69.9	69.9	70.0	68.7	63.3	61.7	60.7	60.7	60.6	64.5	67.3	69.4	65.6
Mean at 9½ A. M	70.3	70.5	70.8	69.0	64.1	62.8	61.6	61.5	60.7	65.0	68.8	69.3	66.2
Mean at 3½ P. M	69.7	70.3	70.6	69.2	64.7	62.3	61.5	61.4	60.4	65.5	68.2	69.4	66.1
Mean at 9½ P. M	69.7	70.8	70.0	69.7	63.9	62.2	61.3	61.8	60.8	65.1	67.4	69.0	66.0
ELASTIC FORCE OF VAPOUR (Deducted.)	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Mean of month . . . . .	.725	.739	.738	.709	.600	.567	.553	.550	.535	.619	.677	.710	.642
Mean at 3½ A. M . . . . .	.725	.728	.730	.697	.587	.559	.538	.538	.536	.609	.668	.714	.636
Mean at 9½ A. M . . . . .	.735	.740	.748	.707	.602	.579	.551	.554	.539	.618	.700	.711	.649
Mean at 3½ P. M . . . . .	.720	.743	.744	.711	.613	.567	.553	.552	.530	.630	.687	.714	.647
Mean at 9½ P. M . . . . .	.721	.746	.730	.720	.599	.566	.545	.558	.537	.620	.670	.704	.642

OBSERVATIONS.	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEP.	OCT.	NOV.	DEC.	Mean of Year.
HUMIDITY. (Deduced.)													
<i>(Compl. Sat. = 1).</i>	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.
Mean of month . . . . .	.693	.716	.728	.728	.700	.704	.719	.724	.680	.702	.714	.700	.709
Mean at 3½ A. M. . . . .	.735	.732	.754	.749	.726	.726	.737	.745	.719	.734	.744	.743	.737
Mean at 9½ A. M. . . . .	.699	.714	.724	.716	.692	.706	.720	.718	.673	.687	.713	.687	.704
Mean at 3½ P. M. . . . .	.639	.678	.691	.691	.666	.668	.687	.685	.626	.667	.669	.659	.668
Mean at 9½ P. M. . . . .	.709	.741	.738	.759	.718	.717	.732	.750	.700	.721	.731	.716	.728
TEMPERATURE IN SUN'S RAYS.													
	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Highest Reading of Black Bulb Ther. in vacuo.)	124.9	123.4	120.0	117.5	110.0	110.4	107.5	110.5	112.0	118.0	122.0	123.5	116.6
Lowest do. do.	104.0	95.0	109.0	101.0	92.0	94.0	88.4	96.0	91.0	105.0	106.0	107.2	99.0
Mean of month.	116.8	115.3	114.5	110.9	103.6	101.4	99.8	103.3	106.2	112.2	114.6	116.0	109.5
CLOUD.—(10-0.)													
	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.
Mean of month.	5.1	6.1	4.0	5.2	7.9	3.8	4.5	4.9	4.9	4.2	5.2	5.0	5.0
Mean at 3½ A. M.	3.6	4.6	1.6	4.7	2.8	2.8	4.0	4.2	5.0	2.5	3.6	4.0	3.6
Mean at 9½ A. M.	6.5	6.8	5.2	5.7	4.4	4.6	5.7	5.5	5.4	5.3	6.1	6.0	5.6
Mean at 3½ P. M.	7.0	8.0	6.6	6.1	5.9	5.5	5.5	6.1	5.4	5.9	7.3	6.7	6.3
Mean at 9½ P. M.	3.2	5.1	2.7	4.2	2.8	2.4	3.0	3.7	4.0	3.2	3.8	3.5	3.5
RAIN.—(Inches in depth)													
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Fall in month	2.318	5.753	2.995	1.921	0.510	0.310	1.472	3.935	0.368	0.835	1.900	1.830	2.012
No. of days on which rain fell.	15	21	15	12	4	8	13	15	11	6	8	10	11
WIND.													
Prevailing direction . . . . .	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.	S. E. to E.
Mean Max. Force in lbs per square foot	lbs. 0.76	lbs. 0.93	lbs. 0.53	lbs. 0.51	lbs. 0.66	lbs. 2.48	lbs. 2.23	lbs. 2.34	lbs. 2.50	lbs. 0.95	lbs. 0.94	lbs. 0.85	lbs. 1.31
Mean Force of month	0.27	0.25	0.24	0.29	0.23	0.42	0.33	0.35	0.20	0.28	0.21	0.27	0.28
Mean Force at 3½ A. M.	0.23	0.26	0.19	0.24	0.21	0.41	0.31	0.53	0.35	0.15	0.17	0.18	0.27
Mean Force at 9½ A. M.	0.29	0.30	0.25	0.39	0.24	0.51	0.29	0.34	0.46	0.39	0.27	0.38	0.34
Mean Force at 3½ P. M.	0.30	0.26	0.32	0.34	0.25	0.30	0.35	0.30	0.67	0.38	0.26	0.29	0.33
Mean Force at 9½ P. M.	0.26	0.17	0.19	0.19	0.23	0.48	0.37	0.23	0.32	0.20	0.13	0.23	0.25

WIND.—Number of times it blew from																		
Hours of Observation.	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 W.	Calm.	Variable.
3½ A. M.	2	0	2	8	84	91	63	18	2	0	1	1	2	0	0	1	90	0
9½ A. M.	1	5	5	18	76	119	66	20	2	2	1	4	5	17	14	6	11	0
Noon	7	4	7	41	63	103	63	19	3	3	1	1	7	31	17	7	1	0
3½ P. M.	2	1	7	31	55	92	78	25	4	1	3	5	12	16	21	11	9	1
9½ P. M.	0	2	0	9	73	111	61	21	1	2	2	3	3	3	3	0	74	0
TOTAL....	12	12	21	107	351	516	331	103	12	8	8	14	29	67	55	25	185	1

THUNDER AND LIGHTNING.

- January 1.—Thunder at a distance to Srd. and S.Wrd. at 1 to 2 P. M.
 „ 5.—A thunderstorm in the night of 5th to 6th.
 „ 11.—One or two loud peals of thunder at S.S.Erd at 11.35 A. M.
 „ „—Lightning at S.Wrd. at 8 P.M. ; faint lightning at Wrd. on horizon at 10 P.M.
 „ 12.—Some faint lightning at times at Wrd. at 9½ P.M.
 „ 24.—A heavy thunderstorm passed to Nrd. of Port Louis, travelling to the Wrd. Much forked lightning.
 „ 25.—In the evening a good deal of sheet and forked lightning at S.Wrd., with low thunder at times.
- February 3.—Flashes of lightning at Wrd. near horizon, at 7.50 P.M.
 „ 5.—Lightning flickering at Nrd. near horizon, at 8½ P.M.
 „ 7.—From 1 to 2 P.M., much thunder at S.S.Erd. At 3½ P.M. one or two peals of thunder at S.S.Erd. Much thunder and lightning, at S.Erd. and Erd. during the night.
 „ 8.—At 0.40 A.M. thunder and lightning at Erd. At 12.25 P.M., a heavy peal of thunder nearly overhead. From 6.30 P.M. much lightning at East, and one or two peals of thunder ; lightning during night at Nrd. and N.Erd.
 „ 9.—At 3½ A.M. a few flashes of lightning at S.Erd. and thunder at Nrd. At 6 P. M. some peals of thunder at S.Wrd.
 „ 11.—Some peals of thunder during night at S.Wrd.
 „ 25.—Between 4 and 5 A.M. some loud peals of thunder at S Wrd.
- March 5.—At 7¼ P.M. broad flashes of pale lightning at S.Erd.
 „ 6.—Frequent flashes of sheet lightning at S.Wrd. and W.S.Wrd. all evening.
- April 4.—Distant thunder at 5. A. M. At 7 P.M. a few flashes of lightning at Wrd. and N.Wrd.
 „ 5.—Some flashes of roddish lightning at times.
 „ 6.—Much faint lightning at S.S.Erd. all night.
 „ 9.—Faint flashes of lightning, at Erd. and Nrd. near horizon at 3¼ A.M. Much lightning at Wrd. and sometimes at Nrd. during the night.
 „ 10.—At 3½ A.M. much lightning at Wrd. and Nrd. near horizon.
 „ 11.—At 9½ P.M. much lightning at Erd. and Wrd. During night much thunder and lightning.
 „ 12.—Much thunder and lightning at Wrd. and Nrd. at 3¼ A.M.
 „ 28.—At 5¼ P.M. some peals of thunder at Nrd., and at 9½ P.M. lightning at Nrd. near horizon.
 „ 29.—Lightning at different parts of horizon during evening.
 „ 30.—At 9½ P.M. faint flashes of lightning.

May	9.—Some faint lightning at Erd. at 9 P. M.
"	10.—At 3½ A. M. some faint lightning at S.Wrd. At 9½ P. M. faint lightning at Nrd.
"	12.—From 5 to 6 P. M. thunder and lightning at N.Wrd., and lightning at night.
"	13.—Much lightning at Wrd. all evening and some distant thunder.
"	14.—Much thunder and lightning at N.Wrd., Nrd., and Erd. at 3½ A. M.
August	10.—At 7 P. M. thunder and lightning at Nrd.
November	14.—A good deal of lightning and distant thunder in evening;
"	15.—Thunder and lightning at 3 A. M.

METEORS, &c.

February	1.—A small shooting star passed from S.E. to N.W. near zenith at 7.40 P. M.
"	5.—Two or three small shooting stars passed from East to West through the constellation Gemini at 9½ P. M.
March	2.—A small shooting star, at 8 P.M., at S. Erd., passed from Nrd. to Srd.
"	3.—A small shooting star at S.Erd. at 3½ A. M., passed from N.N.W. to S.S.Erd.
"	12.—At 9½ P. M. a small shooting star near zenith.
"	13.—At 3 A. M., three shooting stars at Nrd. travelling to N.N.Wrd.
June	10.—A small shooting star passed from N.W. to S.Erd. at 7.10 P. M. near the constellation Crux.
July	6.—At 8 P. M. a shooting star at Wrd. travelling to W.N.Wrd.
"	10.—At 3½ A. M., a shooting star at Erd. travelling to Srd.
September	19.—A bright meteor near Western horizon travelling from E.N.Erd. to W.S.Wrd.

These shooting stars were generally of the second and third magnitude. None were observed in August or November.

HAIL.

At 9½ A. M. On the 10th May hail fell at *Gros Bois* in the District of Grand Port. Mr. Vallet collected some hailstones "de la grosseur d'une noisette environ. Je portai ces grêlons à ma bouche avec plaisir, les regardant comme des morceaux de glaçons." The wind at the time blew strongly from the South. Hail falls very rarely in Mauritius.

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 3½ A. M., 9½ A. 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 the Self-Registering Thermometers.

The mean height of the Barometer for the year was 30.082 against 30.048 in 1863.

Highest reading of Barometer	30.385 at 9½ A. M. 22nd Sept.	} Range 0.718
Lowest " " " "	29.667 at 3½ P. M. 4th March.	
Mean daily barometric oscillation	0.059	
Mean temperature of year	76.7° against 77.0° in 1863.	
Highest reading of Maximum Dry Bulb Ther. in Shade	89.0° 2nd December.	} Range 23.0°
Lowest reading of Minimum Dry Bulb Ther. in shade	66.0° 2nd August.	
Highest reading of Maximum Wet Bulb Ther. in shade	79.0° 13th March.	} Range 22.2°
Lowest reading of Minimum Wet Bulb Ther. in shade	56.8° 31st July.	

Highest reading of Maximum Black Bulb Ther. (in vacuo) in Sun's rays.....	124·9° 27th January.	} Range 36·5°
Lowest reading of Do.	88·4° 25th July.	
Highest Dew Point (from the six hourly observa- tions)	75·5° 6th March.	} Range 22·9°
Lowest Dew Point.....	52·6° 31st July.	
Highest Tension of Vapour	·868 6th March.	} Range ·460
Lowest " "	·408 31st July.	
Highest Relative Humidity (1=Compl. Sat.) ..	·867 6th March.	} Range ·342
Lowest " "	·525 11th July.	
Mean Pressure of wind in lbs. per square foot (from the six hourly observations)	0·30 lbs.	
Mean daily Maximum Pressure of Wind.....	1·31 lbs.	
Maximum Pressure	8·70 lbs. 2nd July.	
Rainfall during the year	24·147 Inches.	
Greatest fall in 24 hours	2·450 " 11th February.	
Number of days on which rain fell.....	138	

TABLE shewing the Amount of RAINFALL at different Stations in Mauritius, during the year 1864.

MONTHS.	PAMPLEMOUSES.									MOKA.			PLAINES WILHEMS			GRAND PORT.		
	PLAT ISLAND. Mr. Mc Indoe.	FLACQ. La Gacé. Dr. Icery.	MOYT CHOISY. Mr. Poulin.	L'ES ROCHERS. Mr. Souchon.	LUCIA. Mr. Barlow.	BOTANICAL GARDENS. Mr. Honne.	RIV. DU REMVART. Labourdonnais. Mr. Béline	POUR LOUIS. Observatory. Mr. Meldrum.	PEUTE RIVIERE. Mr. Commins.	ESPERANCE. Mr. R. Telfair.	BON AIR. Mr. W. Telfair.	CROFF-AN-RICH. Mr. Young.	BEAU SÉOUR. Mr. Stein.	TRIANON. Mr. Barclay.	VACOAS. Mr. Grant.	CLUNY. Mr. Macpherson.	GRAND BORS. Mr. Vallet.	SAVANNE. St. Aubin. Mr. Pitot.
	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
January ..	3·46	.....	3·182	3·630	3·150	3·300	4·25	2·318	1·61	.....	4·49	4·97	3·84	5·04	5·23	11·18	5·05	.....
February ..	8·00	.....	8·577	9·990	9·045	9·441	11·93	5·753	5·13	.....	9·13	9·23	10·42	7·33	8·48	21·94	14·36	.....
March	1·17	.....	2·690	5·811	3·265	4·678	3·27	2·995	6·04	.....	5·44	6·15	8·14	8·90	12·99	7·04	4·64	.....
April.....	5·29	.....	4·802	3·812	5·675	3·657	4·88	1·921	1·83	.....	5·15	5·63	5·46	5·25	7·08	13·86	10·56	.....
May	0·73	.....	3·773	1·341	2·305	3·893	2·55	0·510	0·61	.....	1·52	1·29	1·28	0·42	1·60	3·28	4·70	.....
June	1·64	.....	1·653	1·462	3·725	4·327	3·09	0·310	0·34	.....	3·00	2·54	3·18	2·94	2·52	7·62	5·05	.....
July	1·76	.....	3·084	2·622	5·980	4·561	5·88	1·472	1·66	.....	3·56	3·42	4·82	4·74	3·77	8·97	6·24	.....
August....	2·62	.....	10·392	5·537	7·040	3·740	7·88	3·935	4·21	12·76	7·33	7·31	6·65	4·62	7·44	15·07	12·04	.....
September.....	.....	.....	3·365	2·187	2·195	2·165	2·19	0·368	0·20	3·27	1·76	2·63	1·75	1·33	3·94	4·63	3·01	0·415
October ..	.....	4·567	0·979	1·006	3·905	0·905	3·90	0·835	0·37	4·02	.....	1·14	1·30	1·34	2·59	5·47	3·40	3·690
November.....	.....	5·945	2·401	2·111	4·360	4·825	3·46	1·900	1·42	7·05	.....	9·62	4·05	2·97	10·13	8·10	5·23	6·185
December.....	.....	7·874	3·996	3·143	7·295	6·063	3·97	1·830	0·75	12·09	.....	2·68	3·71	3·70	4·82	15·32	9·08	6·910
Total fall in 1864 .....	.....	.....	48·894	42·652	57·940	51·555	57·25	24·147	24·17	.....	.....	56·61	54·60	48·58	70·59	122·48	83·36	.....
Fall in 1863	36·54	.....	54·660	41·840	67·870	.....	70·72	33·420	33·35	.....	.....	.....	99·76	80·66	81·09	147·09	.....	.....
Fall in 1862	28·02	.....	41·560	41·840	60·710	.....	52·23	28·397	25·35	.....	.....	.....	69·07	.....	59·51	122·54	.....	.....

1864

GALES AND HURRICANES AT SEA.

No hurricane took place at Mauritius in the course of the year, and none of very great violence in the Indian Ocean South of the Equator. The gales that did occur were, as usual, concomitant with a low barometer at Port Louis.

9th to 14th Jan
 From noon on the 9th to 3½ p. m. on the 14th January the barometer fell from 30·182 to 29·960. On the 15th it rose ·038 inch, but fell again on the 16th, and continued falling till 3½ p. m. on the 19th when it stood at 29·828. The total fall, therefore, from the 9th to the 19th, was ·354 inch. The wind was squally from S.Erd., veering on the 18th and 19th to South and S.W. Its maximum force was only 3 lbs. on the square foot. On the 16th the following notice was published in the newspapers: "From the 9th to the 15th there has probably been bad weather both to the N.Erd. and S.Wrd. of us on the borders of the trade-wind." In the afternoon of the 19th, the following notice was sent to the newspapers: "A hurricane passing the island about 400 miles to the S.Erd."—The French bark *Gyptis* (Capt. Alezais), in 10° 30' S. and 81° E. (P.) on the 9th, and in 19° 39' S. and 64° 51' E. (P.) on the 19th, had a hurricane which lasted nine days: vessel sprung a leak, lost sails, &c., &c. On the 19th the Danish Schooner *Helene* (Capt. Boysen), in 25° 27' S. and 62° 22' E., experienced a hurricane which lasted ten hours: lost fore-topmast, yards, sails, &c., &c. This hurricane was more or less encountered by other vessels. At the same time, strong gales prevailed to the S.Wrd. of Mauritius between 30° and 40° S., as shewn by the logs of the brig *Lily*, the ship *St. Joseph*, &c.

On the 29th January, the S. S. *Amberwitch*, (Capt. Stiffe, F.R.A.S., &c.), experienced a gale in 31° S. and 47° 50' E., which, however, being of very small extent and of ordinary strength, barely affected the barometer at Port Louis.

From noon on the 12th to 3½ p. m. on the 15th February, the barometer fell from 30·130 to 30·030, with moderate breezes from S. E. to East, and fine weather; and on this occasion strong gales prevailed both on the equatorial and polar edges of the trade-wind, as shewn by the logs of the *Jehangeer*, *Ethel*, *Francis Corvill*, &c.

23rd to 26th Feb.
 The next descent of the mercury was from 30·028, at noon on the 23rd, to 29·812, at 3½ p. m. on the 26th February, with the wind moderate from East to S.E. and South, and the weather at times showery but generally fine. The following notice was sent to the newspapers on the 26th: "A revolving storm, which has been travelling S.Wrd. since the 22nd, now (3½ p. m.) bears E. b. S. about 500 miles." On this occasion, H. M. S. *Centaur*, (Com. Creasy,) French Ship *Jacques Scurin*, (Capt. Dutruich,) &c., experienced a revolving storm which has been traced from 16° 4' S. and 66° 40' E. to 31° 3' S. and 56° 4' E. It had a diameter of 300 to 400 miles.

1st to 4th March
 The barometer again fell from 29·924, at noon on the 1st, to 29·778 at 3½ A. M. on the 4th March, with light variable winds and fine weather, till the evening of the 3rd, when a breeze sprang up from S.Wrd. The following notice was sent to the newspapers on the 4th. "Yesterday and to-day another storm has been passing the island to the S.Erd. and Srd. It now (3½ p. m.) bears S.b.W. about 200 miles.—Several vessels (*Prince of Wales*, *Hotspur*, *City of Bristol*, *Bury St. Edmonds*, *Ennerdale*, &c.) fell in with a cyclone on this occasion. It has been traced from 14° 20' S. and 78° 5' E. to 25° 50' S. and 55° 57' E. Its diameter was 400 to 500 miles.

From noon on the 21st to 3½ p. m. on the 28th March, the barometer fell from 30·166 to 29·982, with the wind squally from S.Erd.; and during that period strong gales were experienced by the *Malvern*, *Retina*, *Search*, *Phare*, &c., on the polar borders of the trade-wind, and by the *Countess of Elgin*, *Nowanugger*, &c., on its equatorial borders.

The next considerable fall of the barometer took place from the 13th to the 19th April. At noon on the former day the mercury stood at 30·168 and it fell to 29·962 at 3½ A. M. on the 19th. The greatest fall took place on the 18th and amounted to 0·072 inch. The wind was light from E. S. E. to East, North, and N. W., and the weather fine. On the 22nd, the following notice was published: "Strong gales in 30° to 40° S. and 20° to 55° E., and probably in 10° to 16° S. and 70° to 80° E., from the 12th to the 20th."—During that period a hurricane was encountered in 8° to 13° S. and 73° to 82° E. by the *Fathe Salem*, *G. Azzopardi*, *Inconstant*, &c., and heavy gales in 30° to 40° S. and 30° to 60° E. by the *Ethel*, *Canton*, *Guadalquivir*, *Combermere*, &c.

The barometer then rose to 30·180 at noon on the 21st April, but fell again to 30·044 at noon on the 25th, with the wind squally from S. S. Erd. and the weather fine. The mercury on the 25th oscillated a little in the squalls, and a light Northerly swell was breaking on the reefs. The following notice was sent to the newspapers on the 25th: "Bad weather at N. Erd."—On the 24th, in 14° 23' S. and 62° 42' E. (P.), the French ship *Bernardin de St. Pierre* (Capt. Tallibart) was totally dismasted in a hurricane which was partly experienced by other vessels.

From noon on the 5th to 3½ p. m. on the 13th May, the barometer fell from 30·254 to 30·078. On the 11th a notice was published that another gale had occurred at N. Erd. since the 5th. Although no accounts of a hurricane were afterwards received, yet the *Victoria Nyanza* and French ship *Jason* experienced strong winds near the equatorial edge of the trade, with much thunder, lightning, rain, and other indications of a storm, while away to the S. Wrld. of the Island, between 30° to 40° S., heavy gales were encountered by the *Isabella Blyth*, *Lord Palmerston*, *Marcellus*, *Lucy*, *Ghazecpoore*, &c.

During the month of June several gales occurred at S. Wrld., between 30° and 40° S., the existence of which was indicated by the barometer and weather at Port Louis.

From noon on the 29th June to 3½ p. m. on the 9th July, the barometer fell from 30·404 to 30·196, with the wind squally from S. E. to East, and cloudy showery weather; and on the 8th a notice was published that heavy gales prevailed at S. Wrld. from 30° to 40° S.—In the course of that period furious gales were encountered in 30° to 40° S. and 20° to 50° E. by the *Mayotte*, *Bailly de Suffren*, *R. M. Sloman*, &c., some of which vessels had to bear up for Mauritius for shelter and repairs.

The next descent of the mercury was from 30·434 at 9½ a. m. on the 17th to 30·204 at 3½ p. m. on the 22nd July, with the wind squally from S. E. to East, and the weather cloudy and showery; and during that period stormy weather prevailed between 30° and 40° S. and also in the Bay of Bengal. On the 22nd the barometer of the ship *Hermione*, in 35° 17' S. and 51° 57' E., stood at 29·26, to which it had fallen from 30·00 on the 18th. A notice of this gale was published in the newspapers on the 27th July.

Another gale took place between 30° and 40° S. and 20° and 40° E. from the 26th to the 29th July, on which occasion the barometer fell from 30·364 to 30·172. This gale was experienced by the *Sir George Seymour*, *Europe*, &c.

From noon on the 6th to 3½ p. m. on the 11th August, the barometer fell from 30·416 to 30·162, with the wind squally from S. E. to East and N. E., cloudy rainy weather, and thunder and lightning on the 10th. The following notice was published on the 11th: "Heavy gales at S. Wrld., from 30° to 40° S., since the 6th instant." Now heavy gales and a furious sea were experienced during the period and in the locality indicated by the *Elodie*, *Uruguay*, *Europe*, *Fliberty*, *Piccadilly*, &c. At the same time, strong winds prevailed near the Equator in 80° to 90° E., and also in the Bay of Bengal, with thunder, lightning and rain.

Another gale of less extent and violence took place in the same quarter from the 25th to the 28th August, and the barometer at Port Louis fell from 30·312 to 30·166.

From noon on the 12th to 3½ p. m. on the 17th September the barometer fell from 30·448 to 30·238, and during that period hard gales were experienced from 30° to 40° S. and 20° to 50° E. by the *Assaye*, *Relief*, *Skimmer of the Waves*, *Joshua*, *Alliance*, *Cantero*, &c.

The barometer again fell from 30·434 at noon on the 22nd to 30·240 at 3½ p. m. on the 28th September, during which period a hurricane was encountered by the *Seringapatam* in 40° 17' S. and 19° 30' E., and strong gales in 30° to 40° S. and 15° to 50° E. by the *Alfred and Marie*, *Alliance*, *Siam*, &c. A strong gale took place also in 16° S. and 80° E.

From noon on the 1st to 3½ p. m. on the 10th October, the barometer fell from 30·344 to 30·112, with light Easterly winds, and overcast rainy weather on the 5th and 6th. The following notice was published on the 12th: "Heavy gales at S. Wrld. from the 1st to the 11th."; and it was afterwards ascertained from the logs of the *Utile*, *Siam*, *Bretagne*, *Sir Francis Drake*, *Midas*, *Akbar*, *Hæmet*, &c., that stormy weather prevailed during that period from 30° to 40° S. and 10° to 120° E. Strong winds and unsettled weather prevailed also near the Equator and in the Bay of Bengal, and on the 5th Calcutta was visited by a destructive hurricane.

In November the barometer fell on four several occasions to the extent of ·120 to ·146 inch, and during the periods of descent strong gales took place in 30° to 40° S. and 15° to 50° E.

The greatest barometric oscillation in December amounted to only ·090 inch from noon on the 21st to 3½ p. m. on the 23rd, and during that period strong gales were experienced in 30° to 40° S. and 8° to 50° E. by the *Scotsman*, *Reform*, *Numa Vidal*, &c.

No marked fall of the barometer took place in the course of the year except when a gale occurred at sea, and it does not appear that any heavy gale occurred at sea, within a distance of at least 1,500 miles, except when the barometer fell at Port Louis.