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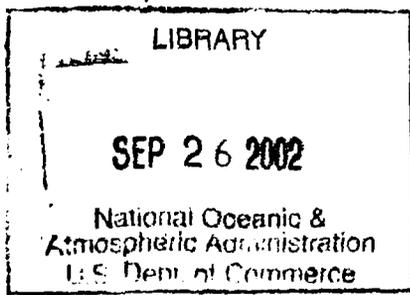
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1871-1876



MAURITIUS METEOROLOGICAL RESULTS

FOR

1871-1876.

National Oceanic and Atmospheric Administration

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1871

METEOROLOGY.

METEOROLOGICAL OBSERVATORY.

PAMPLEMOUSSES.

Lat. 20° 6' 10" South.

Long. 3h. 50m. 14 s. East.

RESULTS OF OBSERVATIONS TAKEN IN 1871.

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 3½ A.M., 9½ A.M., noon, 3½ P.M., and 9½ P.M.; and, in unusual weather, and on the 1st of each month, hourly observations.

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

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

OBSERVATIONS.	JAN.	FEB.	MAR.	APRIL	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	MEANS FOR YEAR.
BAROMETER.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
<i>(Corrected for capillarity and reduced to 32° F. but not to sea-level.)</i>													
Mean of Month.....	29.723	29.785	29.789	29.776	29.910	29.985	30.001	30.023	29.978	29.921	29.884	29.809	29.882
Mean at 3½ A. M.....	29.697	29.759	29.767	29.757	29.895	29.970	29.986	30.007	29.964	29.908	29.874	29.793	29.865
Mean at 9½ A. M.....	29.751	29.814	29.820	29.807	29.942	30.022	30.037	30.057	30.008	29.950	29.901	29.832	29.912
Mean at Noon.....	29.720	29.789	29.789	29.773	29.910	29.985	30.000	30.023	29.974	29.925	29.879	29.807	29.882
Mean at 3½ P. M.....	29.689	29.753	29.747	29.737	29.869	29.946	29.959	29.978	29.929	29.873	29.837	29.768	29.840
Mean at 9½ P. M.....	29.756	29.814	29.823	29.804	29.938	30.005	30.022	30.049	30.009	29.955	29.926	29.842	29.912
Highest reading....	29.919	29.863	29.881	29.882	30.073	30.107	30.119	30.169	30.095	30.072	29.977	29.935	30.005
Lowest reading....	29.231	29.692	29.663	29.678	29.758	29.826	29.858	29.881	29.833	29.738	29.640	29.700	29.708
Range in month....	0.688	0.171	0.218	0.204	0.315	0.281	0.261	0.282	0.262	0.334	0.337	0.235	0.296
Range from 9½ A.M. to 3½ P.M.....	0.061	0.061	0.073	0.070	0.073	0.076	0.078	0.079	0.079	0.077	0.064	0.064	0.071
Range from 3½ P.M. to 9½ P. M.....	0.067	0.061	0.076	0.067	0.069	0.059	0.063	0.071	0.080	0.082	0.089	0.074	0.071
Range from 9½ P.M. to 3½ A. M.....	0.060	0.060	0.055	0.056	0.047	0.043	0.035	0.036	0.042	0.045	0.047	0.052	0.049
Range from 3½ A.M. to 9½ A. M.....	0.054	0.055	0.053	0.050	0.017	0.052	0.051	0.050	0.044	0.042	0.027	0.039	0.047
Mean diurnal range..	0.060	0.058	0.064	0.058	0.058	0.055	0.057	0.060	0.062	0.062	0.058	0.056	0.059

METEOROLOGY.

OBSERVATIONS.	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	MEANS FOR YEAR.
TEMPERATURE OF AIR (Dry Bulb Ther. in Shade.)	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Mean of Month	79.2	79.6	78.6	76.3	72.2	69.7	68.4	68.4	69.5	73.9	75.7	77.8	74.1
Highest readings....	86.0	85.9	86.0	85.0	80.2	77.0	76.0	77.0	80.6	84.8	85.3	85.3	82.4
Lowest readings	73.0	73.0	71.4	65.6	62.0	64.0	60.9	62.0	61.0	66.2	67.6	69.8	66.4
Range in month	13.0	12.9	14.6	19.4	18.2	13.0	15.1	15.0	19.6	18.6	17.7	15.5	16.0
Mean of highest dai- ly readings	83.9	84.3	84.4	81.7	77.4	74.7	73.3	73.4	74.7	79.9	81.9	83.4	79.4
Mean of lowest daily readings	75.6	75.6	74.0	72.3	68.0	66.2	64.2	65.0	64.8	69.9	71.8	73.8	70.1
Mean diurnal range..	8.3	8.7	7.4	9.4	9.4	8.5	9.1	8.4	9.9	10.0	10.1	9.6	9.3
Greatest diurnal range	11.0	12.4	13.0	14.1	13.0	12.0	14.1	12.2	14.0	13.8	13.6	13.6	13.1
Least diurnal range..	2.9	3.9	8.5	5.8	6.0	4.0	4.8	4.5	4.1	3.0	7.2	4.6	4.9
TEMPERATURE OF EVAPORATION. (Wet Bulb Ther. in Shade.)													
Mean of month	72.8	73.5	73.1	71.1	66.4	64.4	63.2	63.4	63.4	67.8	69.4	72.7	68.4
Highest readings....	77.0	76.4	77.9	77.4	73.0	70.0	70.9	69.9	70.7	76.5	76.9	78.3	74.6
Lowest readings	65.5	69.0	67.3	60.0	56.5	58.5	56.5	56.4	55.5	61.0	62.2	65.3	61.1
Range in month	11.5	7.4	10.6	17.4	16.5	11.5	14.4	13.5	15.2	15.5	14.7	13.0	13.5
Mean of highest dai- ly readings.....	74.5	74.9	75.2	74.4	69.4	67.4	66.2	66.1	66.7	70.9	72.5	75.9	71.2
Mean of lowest daily readings.....	70.2	71.2	70.1	68.2	62.6	61.5	60.0	60.4	59.7	65.2	67.1	70.4	65.5
Mean diurnal range..	4.3	3.7	5.1	6.2	6.8	5.9	6.2	5.7	7.0	5.7	5.4	5.5	5.7
Greatest diurnal range	7.1	6.1	7.9	10.4	10.7	9.0	8.5	10.3	11.0	14.1	8.4	9.8	9.4
Least diurnal range..	1.5	2.0	2.8	1.7	3.3	3.4	3.9	3.0	2.2	1.9	3.4	3.7	2.7
DEW POINT (Deduced.)													
Mean of month	68.5	69.5	69.3	67.4	62.0	60.4	59.1	59.3	58.8	63.2	64.9	69.1	64.3
Highest in month ..	72.8	72.7	75.5	73.6	69.7	66.0	66.0	65.3	66.4	73.9	73.1	73.8	70.7
Lowest in month....	60.3	64.7	64.4	57.2	52.6	53.7	52.3	51.9	52.6	56.0	58.7	63.9	57.4
Range in month	12.5	8.0	11.1	16.4	17.1	12.3	13.7	13.4	13.8	17.9	14.4	9.9	13.3
Greatest diurnal range	8.3	4.6	5.7	9.3	8.5	9.7	8.3	6.3	8.5	8.7	5.5	5.0	7.4
Least diurnal range..	0.9	1.0	0.8	1.7	1.2	0.9	1.3	1.0	1.5	1.0	1.1	1.2	1.1
ELASTIC FORCE OF VAPOUR. (Deduced.)	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Mean of month ....	.697	.719	.718	.676	.562	.528	.503	.509	.498	.587	.621	.714	.611
Highest in month ..	.793	.806	.885	.829	.728	.640	.614	.625	.622	.838	.809	.834	.752
Lowest in month....	.525	.610	.606	.468	.397	.413	.391	.386	.388	.450	.508	.548	.474

OBSERVATIONS.	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	MEANS FOR YEAR.
ELASTIC FORCE OF VAPOUR. (<i>Deduced.</i>) (<i>Continued.</i>)	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Range in month	·268	·196	·279	·361	·331	·227	·223	·239	·234	·388	·301	·286	·278
Greatest diurnal range	·199	·118	·129	·212	·154	·178	·178	·127	·188	·165	·111	·115	·156
Least diurnal range..	·021	·027	·022	·044	·025	·019	·024	·017	·028	·017	·024	·032	·025
HUMIDITY. (<i>Deduced.</i>) (<i>Compl. Sat. = 100.</i>)	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.
Mean of month	69·8	71·0	73·4	74·3	70·7	72·5	72·6	73·1	69·4	69·8	69·7	74·7	71·8
Highest in month ..	85·0	86·5	89·0	89·3	86·5	88·0	88·6	88·0	83·5	92·0	86·5	89·0	87·7
Lowest in month	52·5	54·0	55·7	52·0	49·8	55·3	54·5	54·2	55·3	52·0	53·3	57·2	53·8
Range in month	32·5	32·5	33·3	37·3	36·7	32·7	34·1	33·8	28·2	40·0	33·2	31·8	33·9
Greatest diurnal range	29·5	25·0	25·0	33·6	24·7	27·6	28·0	22·5	22·5	31·4	22·4	20·7	26·1
Least diurnal range..	2·5	5·2	5·5	1·5	5·0	3·1	7·0	8·5	9·6	4·5	10·9	9·2	6·0
AMOUNT OF CLOUD. (10 = <i>overcast.</i>)													
Mean of month	5·5	4·3	3·9	5·2	4·2	5·0	4·4	5·8	5·4	4·5	4·6	4·6	4·8
Mean at 3½ A.M.	3·7	3·2	2·3	4·2	2·6	4·7	3·3	5·4	5·2	3·4	3·9	3·0	3·7
Mean at 9½ A.M.	6·7	5·7	5·3	5·5	5·4	6·2	5·3	6·5	6·5	6·0	5·7	5·4	5·8
Mean at 3½ P.M.	7·8	6·0	6·1	7·2	5·6	5·6	5·5	6·1	6·4	5·7	5·2	6·7	6·2
Mean at 9½ P.M.	3·7	2·2	2·1	4·0	3·3	3·7	3·4	5·4	3·4	2·8	3·7	3·2	3·4
RAINFALL (<i>Inches in depth.</i>)	14·72	4·29	2·75	3·05	1·11	1·94	1·40	1·87	1·00	1·67	2·11	6·71	42·62 3·55
No. of days on which rain fell	15	17	16	13	11	19	19	20	9	8	13	22	182 15
WIND.													
Prevailing direction {	S.E. to East	E.S.E. to E.N.E.	E.S.E. to East	S.S.E. to East	S.S.E. to East	S.E.	S.E.	S.S.E. to E.S.E.	S.E. to E.S.E.	S.E. to East	E.S.E. to E.N.E.	East to E.N.E.	E.S.E.
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
Mean force of month	0·28	0·33	0·22	0·16	0·24	0·32	0·44	0·64	0·58	0·46	0·60	0·33	0·38
Mean force at 3½ A.M.	0·18	0·16	0·14	0·08	0·09	0·19	0·23	0·30	0·20	0·30	0·33	0·17	0·20
Mean force at 9½ A.M.	0·27	0·43	0·28	0·20	0·25	0·34	0·35	0·60	0·80	0·50	0·70	0·50	0·43
Mean force at noon..	0·38	0·45	0·31	0·23	0·35	0·48	0·67	0·90	0·90	0·70	0·75	0·50	0·55
Mean force at 3½ P.M.	0·34	0·42	0·28	0·20	0·37	0·41	0·71	1·00	0·80	0·60	0·80	0·40	0·53
Mean force at 9½ P.M.	0·22	0·17	0·11	0·10	0·12	0·19	0·22	0·40	0·20	0·20	0·40	0·10	0·20
Mean max. force. . . .	1·48	0·59	0·36	0·27	0·41	0·57	0·87	1·11	1·35	0·75	1·03	0·56	0·78

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 N.	Calm.	Variable.	Total.
3½ A. M.	0	0	2	10	27	98	81	27	3	0	0	0	0	0	0	0	112	1	361
9½ A. M.	0	1	5	19	62	126	90	34	6	3	1	1	4	2	0	3	5	2	364
Noon	2	2	3	36	60	89	78	27	8	2	1	6	7	7	2	2	4	0	336
3½ P. M.	0	5	6	28	50	125	69	26	11	2	0	4	18	6	2	3	7	1	363
9½ P. M.	0	1	1	8	49	94	73	13	3	1	0	0	0	1	0	0	116	0	360
Total ..	2	9	17	101	248	532	391	127	31	8	2	11	29	16	4	8	244	4	1784

THUNDER AND LIGHTNING.

1871.

- January 29.—At sunset some peals of thunder. At 9 P. M. vivid lightning at Srd.
 „ 30.—At 7.35 P. M. lightning at N. Erd. From 9 P. M. to midnight loud thunder and broad flashes of lightning at N. Erd. and E. N. Erd.
 „ 31.—At 3½ P. M. a few loud peals of thunder at N. Erd.
 March 15.—At 7.55 P. M. broad flashes of lightning at Erd. and a thunderstorm during night.
 „ 16.—Much thunder and lightning until 5 A. M.
 April 16.—A few peals of thunder at S. S. Wrd. at 4.20 P. M.
 „ 17.—At 3.30 A. M. lightning at S. Erd. At 11.30 A. M. some peals of thunder at Erd. At 1 P. M., loud thunder at S. Erd. At 3½ P. M. thunder at N. N. Erd.
 October 21.—Some thunder during day. Thunder and lightning in evening.
 November 25.—At 10 P. M. frequent flashes of lightning.
 „ 26.—At 9½ A. M. distant thunder. At 4 P. M. a heavy peal of thunder, and much distant thunder afterwards.
 „ 27.—Thunder at 2.30 P. M.
 „ 28.—Much thunder and lightning from 1 to 5 A. M.
 „ 29.—Lightning (faint) in evening.
 „ 30.—Lightning at 8 P. M.
 December 17.—Much thunder and lightning from 3 to 5 A. M.
 „ 26.—Some thunder at 4 A. M.

METEORS.

Day.	Hour.	Number secu.	REMARKS.
1871.			
March.. 15	3.10 A. M.	1	Small. Passed from 3° East of Crux to Nrd.
" .. 22	1.0 A. M.	1	" From S. Erd. to Wrd. overhead.
" .. "	9 to 10 P. M.	1	Mr. Timperley, Police Inspector, saw between 9 and 10 P. M. a most brilliant meteor. "The night was dark and cloudy with a little rain. Nearly the whole sky was illuminated, and the brilliancy was such as to light up the road. At first I thought it was sheet lightning, for the meteor, shooting behind a cloud, was only visible after it emerged. Its path appeared to be downward from the zenith in a southerly direction. It lasted only a few seconds, but was of extraordinary brilliancy, lighting up the sky and road even before it emerged from behind the clouds into the clear sky. It was perfectly dazzling." This splendid meteor was seen by other persons, some of whom described it as being nearly as large as the moon.
May .. 13	9.30 P. M.	1	Small. From near α Centauri towards Canopus.
" .. 14	8 to 9 P. M.	3	" From Crux towards Canopus.
" .. 26	9.30 P. M.	1	" From Corvus to W. S. Wrd.
" .. 28	8.35 P. M.	1	1st magnitude. From δ Lyrae to N. Erd. Yellow with short train.
June .. 25	9.30 P. M.	1	Small. From Nrd. to W. S. Wrd.
July .. 22	1.0 A. M.	1	" From Nrd. to Srd. near zenith.
" .. 27	9.50 to 10.40 P. M.	8	From Scorpio, Sagittarius, and Capricornus. Of different colours and magnitudes.
Augt. .. 12	3.35 to 4.35 A. M.	13	From Andromeda and Aries. Of different colours and magnitudes.
Sept. .. 11	9.12 P. M.	1	Small. From Srd. to Nrd. near horizon at East.
" .. "	9.14 P. M.	1	Very large and brilliant, with a short train. From Srd. to Nrd. near horizon at East.
Oct. .. 2	9.30 P. M.	1	Small, yellow with train. From Pegasus to W. S. Wrd.
" .. 7	8.0 P. M.	1	1st magnitude. From near Achernar to Nrd. Colour red.
" .. 18	4.0 A. M.	1	Small. From Capella to Wrd.
" .. "	9.30 P. M.	1	Large as Jupiter. Yellow, with a train. Passed from S. b. W. to N. b. E. near α Cygnus.
" .. 23	4.0 A. M.	1	Small. Yellow. From N. Erd. to E. S. Erd.
Nov. .. 7	7.45 P. M.	1	Small. Yellow, with train. From N. E. to North.
" .. 12	3.30 A. M.	1	Small. White. From S. S. Erd. to Erd.
" .. 14	2.30 to 4.50 A. M.	10	Chiefly from Leo. Of different colours and magnitudes.
Dec. .. 24	9.30 P. M.	1	Large as Jupiter. From e Argus to N. N. E. Reddish colour, with a train.

REMARKS.

The monthly means of the Barometer, Dry and Wet Bulb Thermometers, &c., have been derived from the observations taken daily at $3\frac{1}{2}$ A. M. and P. M. and $9\frac{1}{2}$ A. M. and P. M.

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

The mean height of the Barometer for the year (212 feet above sea-level) was	29.882 inches.	
Highest reading of Barometer (corrected for capillarity and reduced to 32° F.)	30.169 inches—Aug. . .	7
Lowest do. do. do.	29.231 " —Jan. . .	5
Mean daily Barometric Oscillation	0.059 inch.	
Mean Temperature of year	74.1	
Highest reading of Max. Dry Bulb in Shade	86.3	March 24
Lowest do. of Min. do. do.	60.9	July . . 30
Highest reading of Max. Wet Bulb Ther. in Shade	78.3	Dec. . . 31
Lowest do. of Min. do. do.	55.5	Sept. . . 5
Highest Dew Point (from the six-hourly observations)	75.5	March 9
Lowest do. do.	51.9	Aug. . . 15
Highest Vapour-tension	.885	March 9
Lowest do. do.	.386	Aug. . . 15
Highest Relative Humidity	92.0	Oct. . . 23
Lowest do. do.	49.8	May . . 27
Rainfall during the year	42.62 inches.	
Greatest fall in 24 hours	9.38 inches. . . .	Jan. . . 5
Number of days on which rain fell	182.	

TABLE SHOWING THE AMOUNT OF RAINFALL AND THE NUMBER OF DAYS ON WHICH												
MONTHS.	FLACQ.				PAMPLEMOUSSES.						RIVIÈRE DU REMPART.	
	La Gaieté. Hon. E. Icery.		Riche Mare. Mr. Régnard.		Mont Choisy. Mr. Poulin.		Botanical Gardens. Mr. Horne.		Observatory. Mr. Meldrum.		Labourdonnais. Mr. Béline.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	33.818	19	15.514	20	13.637	11	21.32	17	14.72	15	16.91	10
February	4.129	13	4.268	17	4.503	14	7.38	15	4.29	17	3.67	10
March	4.482	17	4.804	21	1.858	10	3.45	11	2.75	16	5.44	14
April	15.786	15	13.743	17	4.299	10	3.40	10	3.05	13	6.31	10
May	3.110	7	1.898	14	1.515	9	1.51	7	1.11	11	2.23	7
June	3.977	15	3.407	23	0.925	8	2.40	16	1.94	19	2.22	10
July	3.347	14	2.040	17	0.591	9	1.75	15	1.40	19	1.61	7
August	2.165	14	2.063	22	0.964	5	2.07	19	1.87	20	1.44	9
September	1.102	8	0.750	14	0.374	4	0.96	7	1.00	9	0.56	3
October	3.110	6	2.748	12	1.693	4	1.75	5	1.67	8	2.83	4
November	5.119	12	5.119	13	1.221	7	1.98	12	2.11	13	3.27	7
December	6.497	14	5.528	19	3.130	12	7.60	21	6.71	22	4.03	11
Fall in 1871	86.642	154	61.882	209	34.710	103	55.57	155	42.62	182	50.52	102
Fall in 1870	84.878	150	.....	..	48.807	152	66.89	159	45.57	143	59.06	116
Fall in 1869	82.793	170	.....	..	53.846	116	61.85	117	54.57	121	63.73	109
Fall in 1868	99.662	..	.....	..	55.545	..	91.21	..	64.18	..	70.46	..
Fall in 1867	76.126	..	.....	..	43.284	..	.....	..	35.97	..	56.99	..
Fall in 1866	57.772	..	.....	..	45.049	..	.....	..	20.74	..	50.29	..
Fall in 1865	97.546	..	.....	..	67.532	..	85.37	..	44.74	..	87.63	..
Fall in 1864 .....	.....	..	.....	..	48.894	..	51.56	..	24.15	..	57.25	..
Fall in 1863 .....	.....	..	.....	..	54.660	..	.....	..	33.42	..	70.72	..
Fall in 1862 .....	.....	..	.....	..	41.560	..	.....	..	28.40	..	52.23	..
Means	83.631	..	.....	..	49.388	..	68.74	..	39.34	..	61.89	..

RAIN FELL, AT VARIOUS STATIONS IN MAURITIUS, DURING THE YEAR 1871.

MOKA.

Espérance. Mr. Telfair.		Bonne Veine. Mr. Préaudet.		Croft-an-Righ. Mr. Young.		Elizabeth Cottage. Mr. de Lissa.		Gentilly. Mr. Finniss.		Hermitage. Elias Mallac & Co.		Valetta. Mr. Galéa.		Alma.	
Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
31.56	24	27.71	22	13.03	18	14.89	17	25.53	17	16.180	16	....	..	....	..
8.23	25	9.00	23	3.63	12	3.97	18	4.75	16	6.535	12	....	..	7.06	21
7.03	29	8.47	27	9.75	16	5.45	23	4.82	19	9.527	12	....	..	8.27	25
11.67	23	14.27	17	3.60	12	4.98	12	4.62	13	5.820	12	....	..	11.00	15
4.67	28	4.11	16	1.78	8	1.91	11	2.38	12	3.658	6	....	..	3.69	15
5.56	30	5.16	21	1.99	17	2.23	15	2.97	20	6.616	21	....	..	6.12	25
12.27	26	4.46	23	1.27	14	1.58	15	2.30	20	4.999	14	....	..	4.33	23
5.93	26	7.77	26	2.42	22	2.99	23	3.27	24	11.299	18	6.80	23	7.72	26
1.83	13	2.57	15	0.95	9	1.45	12	1.56	12	2.677	9	2.12	8	2.19	12
2.30	13	2.34½	11	0.94	3	1.01	5	0.97	4	1.221	2	1.82	2	2.35	13
10.58	29	15.58	18	1.33	10	2.61	11	3.85	18	6.537	15	9.98	13	11.83	23
15.70	27	19.39	27	4.03	17	4.46	16	6.26	19	10.711	15	16.21	17	22.83	27
117.33	293	120.83½	246	44.72	158	47.53	178	63.28	194	85.780	152	....	..	....	..
109.06	295	113.09	260	50.64	170	62.16	222	68.15	180	120.142	156	....	..	....	..
113.99	258	118.93	254	61.39	168	70.19	..	75.38	154	.....	..	....	..	....	..
130.15	..	.....	..	115.32	..	125.70	..	123.09	..	.....	..	....	..	....	..
99.94	..	.....	..	60.82	..	62.95	..	73.67	..	.....	..	....	..	....	..
88.02	..	.....	..	40.68	..	....	..	....	..	.....	..	....	..	....	..
147.74	..	.....	..	79.44	..	....	..	....	..	.....	..	....	..	....	..
.....	..	.....	..	56.61	..	....	..	....	..	.....	..	....	..	....	..
.....
.....
115.18	..	.....	..	63.70	..	73.71	..	80.71	..	.....	..	....	..	....	..

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

MONTHS.	PLAINES WILHEMS.													
	Beau Séjour. Hon. Mr. Stein.		Trianon. Hon. Mr. Barclay.		The Braes. Mr. Grant.		Solferino. Elias Mallac & Co.		Westra. Mr. Wilson.		Mesnil. Mr. Channell.		Forest Side. (Curepipe.) Hon. Mr. Dick.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	18.00	16	....	..	27.15	20	16.240	17	24.61	20	32.31	..	42.08	26
February	3.00	14	....	..	2.33	12	2.560	12	6.06	17	5.71	..	7.42	20
March.....	4.58	13	....	..	4.23	13	3.277	15	4.08	17	5.30	..	6.16	23
April	4.76	13	3.50	12	5.27	16	4.025	13	4.72	15	5.16	..	11.78	20
May	1.24	10	1.17	7	1.94	14	1.732	11	3.17	17	3.76	..	6.59	21
June	2.08	21	2.26	18	2.42	22	2.166	19	4.21	24	4.82	..	7.91	27
July	1.17	16	1.64	16	1.73	17	1.348	15	2.11	7	3.35	..	6.15	24
August	2.78 $\frac{1}{2}$	21	3.57	20	4.00	19	2.687	20	4.96	19	6.35	..	10.35	24
September	1.20	13	1.70	12	1.23	13	0.974	8	1.70	9	2.97	..	8.52	19
October	0.73 $\frac{1}{2}$	5	0.85	4	0.72	4	0.453	3	0.71	7	0.96	..	2.63	11
November	2.16	17	2.85	14	3.28	11	8.631	14	5.25	17	7.34	..	9.19	24
December	4.26	20	4.32	19	3.82	14	3.337	15	6.24	22	11.22	..	9.65	21
Fall in 1871	45.97	179	....	..	58.12	175	47.430	162	67.82	191	89.25	..	128.43	260
Fall in 1870	54.49	192	....	..	58.00	209	56.601	190	80.25	215	95.96	..	155.45	275
Fall in 1869	67.58 $\frac{1}{2}$	180	....	..	70.02	229	....	..	80.67	213	88.00	..	132.94	..
Fall in 1868	95.65	..	....	..	110.41	..	....	..	122.36	..	143.47	..	....	....
Fall in 1867	65.50	..	60.16	..	72.03	..	....	..	81.34 $\frac{1}{2}$	..	84.91	..	....	..
Fall in 1866	44.55 $\frac{1}{2}$	..	43.24	..	48.69	..	....	..	....	..	67.67	..	....	..
Fall in 1865	87.11 $\frac{1}{2}$	..	81.19	..	78.77	..	....	..	....	..	....	..	....	..
Fall in 1864	54.60	..	48.58	..	70.59	..	....	..	....	..	....	..	....	..
Fall in 1863	99.76	..	80.66	..	81.09	..	....	..	....	..	....	..	....	..
Fall in 1862	69.07	..	....	..	59.51	..	....	..	....	..	....	..	....	..
Means.....	68.43	..	62.77	..	70.72	..	....	..	86.61	..	94.88	..	....	..

RAIN FELL, AT VARIOUS STATIONS IN MAURITIUS, DURING THE YEAR 1871.

BLACK RIVER.		GRAND PORT.										SAVANNE.					
Gros Cailloux. Mr. Commins.		Mahebourg. Military Hospital. Dr. Catell.		Cluny. Mr. Macpherson.		Gros Bois. Mr. Vallet.		Beau Vallon. Mr. Rochecouste.		Joli Bois. Mr. Vallet.		Colmar. Mr. Hirth.		L'Union. Mr. Rouillard.		St. Aubin. Hon. Mr. Pitot.	
Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
9.90	8	12.93	17	31.06	24	19.54	17	14.54	19	28.40	21	19.99	22	28.56½	18	19.66½	20
0.65	5	2.00	17	12.04	21	5.35	19	3.51	15	5.60	22	5.83	21	2.94½	7	5.04	17
2.09	6	4.43	17	6.20	25	4.95	20	2.22	21	6.75	25	4.14	22	1.97½	7	3.94	19
3.94	8	....	..	18.36	21	20.81	17	11.10	18	14.26	21	15.75	15	13.76	10	15.58½	17
....	..	5.25	21	7.07	24	8.94	21	4.30	17	7.91	23	6.54	19	4.40½	12	4.74½	20
....	..	5.28	18	7.47	26	5.14	22	2.92	16	6.58	25	4.51	21	3.34½	11	3.67	23
....	..	3.69	20	8.60	25	3.51	21	1.54	20	4.94	29	3.39	27	2.34½	12	2.92½	20
....	..	5.18	18	11.10	24	5.65	21	2.37	23	5.77	28	4.93	27	1.96½	14	4.14	23
....	..	2.50	17	5.67	22	1.52	12	1.10	16	2.29	20	1.43	17	2.09	8	1.22	15
....	..	....	..	5.25	16	7.43	9	3.30	10	5.97	12	5.39	10	3.75½	5	3.85½	15
....	..	....	..	8.62	24	9.02	14	6.82	14	9.05	23	7.19	20	3.33	11	9.01	15
....	..	....	..	12.27	27	7.39	21	4.66	19	7.49	21	10.30	20	1.82½	7	8.23	21
....	..	....	..	133.71	279	99.25	214	58.38	208	105.01	270	89.39	241	70.30½	122	82.02½	225
25.27	94	....	..	160.43	273	102.40	229	68.64	216	....	..	94.13	233	76.25	149	82.39½	226
46.47	72	....	..	129.37	289	94.58	212	69.94	233	....	..	88.91	214	58.34½	...	76.66	234
50.98	..	....	..	183.74	..	137.29	..	81.60	..	....	..	125.58	..	....	..	112.12	..
35.12	..	....	..	141.05	..	83.59½	..	61.05	..	....	..	....	..	....	..	71.66	..
20.72	..	....	..	129.02	..	70.24½	..	51.05½	..	....	..	....	..	....	..	70.51	..
36.57	..	....	..	192.45	..	135.21	..	100.84½	..	....	..	....	..	....	..	115.60½	..
24.17	..	....	..	122.48	..	83.36	..	....	..	....	..	....	..	....	..	....	..
33.35	..	....	..	147.09	..	....	..	....	..	....	..	....	..	....	..	....	..
25.35	..	....	..	122.54	..	....	..	....	..	....	..	....	..	....	..	....	..
33.11	..	....	..	146.19	..	100.74	..	70.22	..	....	..	99.50	..	....	..	87.28	..

GALES AND HURRICANES IN THE INDIAN OCEAN IN 1871.

JANUARY.—There were four hurricanes in the Indian Ocean in the course of this month, namely, one from the 2nd to the 11th, which passed to the North of Mauritius on the 5th; another from the 6th to the 11th, in 10° to 24° S. and 88° to 75° E.; a third on the West Coast of India on the 15th and 16th; and a fourth from the 19th to the 27th in 5° to 25° S. and 90° to 75° E.

At the Observatory, the barometer began to fall on the 29th December, 1870, and by 3 30 P.M. on the 1st January, 1871, it had fallen to the extent of .090 inch, with a light breeze from S. Erd. and the weather fine. On the 2nd, it rose .046 inch, and then began to fall more rapidly, until at 3 P.M. on the 5th, it stood at 29.352 inches (212 feet above the sea-level). It then rose rapidly, and continued to rise until the 9th, on which day and the 10th it fell to the extent of .066 inch.

The wind gradually veered in strong gales and squalls from S.S.E. to East, and thence to N.E., and was strongest from East between 11 A.M. and 3 P.M. on the 5th. It remained at N.E. from noon on the 6th to 11 A.M. on the 7th, and then backed to E.S.E., from which point there was a fresh breeze on the 8th. On the 9th and 10th, it fell light and veered to East and N.E.

The hurricane from the 2nd to the 11th was encountered at sea by the *Anne Marie*, *Glen Isla*, *Jane Anna*, *Shannon* and *Christina Thompson*; and its track has been traced from 17° S. and 60° 45' E. at noon of the 4th to 30° 28' S. and 57° 48' E. at noon on the 10th.

Only three vessels, the *Latona*, *Spirit of the South*, and *Tasso*, experienced the hurricane of the 6th to the 11th. Its track has not been determined.

The hurricane of the 19th to the 27th was more or less felt by the *Alabama* and other vessels.—At Mauritius, the barometer fell from 29.996 at noon on the 19th to 29.774 at noon on the 25th, the weather being fine, and the wind chiefly from E.S.E., passing on the 25th to S.S.E. and South, and on the 26th to S.S.W.

During the passage of the hurricane of the 2nd to the 11th, to the Nrd. and N.Wrd. of Mauritius, 12.59 inches of rain fell at the Observatory, 9.38 inches of which fell in the 24 hours ending at 9 A.M. on the 5th.

FEBRUARY.—On the 21st and 22nd, the *Merchantman* had a heavy gale in 10° 30' S. and 91° E., from S.W. to West and N.W., with every appearance of a hurricane passing to the Srd. of her.

On the 22nd, the *Shand*, in 10° S. and 89° to 90° E., had a strong gale from W.S.W. to West, with hard squalls, and high sea from S.S.E. and South; barometer 29.80.—At Mauritius, the barometer fell from 29.970 at noon on the 25th to 29.890 at noon on the 27th, with light winds from E.N.Erd. and fine weather.

MARCH.—On the 1st and 2nd, the brig *Elaine*, in 33° 18' S. and 15° 36' E., had a strong gale from S.S.W. to S.b.E., and from the 3rd to the 6th, the *Blencathra*, in 40° to 41° S. and 53° to 61° E., had a strong gale from S.S.E. to E.N.E., N.N.E., and S.S.W.—At Mauritius, the barometer fell from 29.992 on the 2nd to 29.930 on the 6th, with the wind squally from E.S.E. to East.

On the 10th and 11th, the *Tasso*, in 39° 29' S. and 106° 33' E., had a gale from N.b.E. to N.W. On the 12th and 13th, the *Blencathra*, in 39° S. and 78° to 82° E., had a strong gale from N.E. to S.W.; and from the 13th to the 16th, the *Balgownie*, in 41° S. and 83° to 95° E., had strong gales from W.N.W. and West.—At Mauritius, the barometer fell from 29.974 at noon on the 9th to 29.878 at noon on the 11th, with the wind light from East to E.N.E. and fine weather. It then rose to 29.966 at noon on the 14th, and on the 15th and 16th fell .194 inch, with the wind from E.S.E. to N.E. and a thunderstorm early on the 16th.

From noon on the 17th to noon on the 25th, the barometer at Mauritius fell from 30.028 to 29.804, with the wind moderate from E.S.E. to S.E., passing on the 24th to S., and on the 25th to S.S.W., with fine weather. This would indicate the passage of a cyclone to the N.Erd. and Erd. of the Island, but no other evidence of its existence has been obtained.

APRIL.—On the 2nd, the *Duiveland*, in 38° 56' S. and 43° 08' E., had a strong gale from West, with hard squalls and rain. On the 3rd and 4th, the *Melrose*, in 41° S. and 98° E., had a hard gale from S.W.; with frequent squalls and a heavy sea; barometer 29.85. On the 6th, the *Orissa*, in 41° 40' S. and 26° 13' E., had a strong gale from West, with hard squalls and rain. On the 8th, the

Fathe Salem, in $17^{\circ} 47'$ N. and $84^{\circ} 58'$ E., had a strong gale from S.S.W; barometer 29.87.—At Mauritius, the barometer fell from 29.924 at noon on the 3rd to 29.842 at noon on the 5th, with a light breeze from East and fine weather.

On the 17th, the *Princess Alice*, in $39^{\circ} 16'$ S. and $112^{\circ} 16'$ E., had a strong gale from S.W. and a heavy sea. On the 21st and 22nd, the *Isabella Blyth*, in $38^{\circ} 45'$ S. and $39^{\circ} 03'$ E., had a strong gale from North to N.W., with "terrific squalls" and a high sea. On the 21st, the *Orissa*, in $21^{\circ} 12'$ S. and $85^{\circ} 17'$ E., had a strong gale from East, with severe squalls and heavy sea. On the 22nd and 23rd, the *Princess Alice*, in 39° S. and 126° E., had hard gales from West to S.W. with terrific squalls, heavy rains, and a high sea; barometer 29.64. On the 29th and 30th, the *Sarah*, in 40° S. and 112° E., had a strong gale from S.W. and S.S.W., with hard squalls, and a high sea; barometer 30.20.—At Mauritius, the barometer fell from 29.950 at noon on the 11th to 29.838 at noon on the 20th. On the 13th and 14th, there was a strong breeze from S.Erd., and on the 16th and 17th, thunder and lightning, with the wind light from E.S.E. From the 18th to the 21st, the wind was light from Wrd., and on the 22nd from South to S.S.E. From the 20th to the 25th, the barometer rose from 29.838 to 29.934, with the wind moderate from S.E. to S.S.E. and South. The barometer again fell to 29.894 at noon on the 30th, with light variable winds and calms.

MAY.—On the 1st and 2nd, the *Sarah*, in 37° to 38° S. and 116° to 119° E., had a strong gale from S.S.E. to South; barometer 30.20. On the 10th, the *Satsuma*, in $36^{\circ} 10'$ S. and $20^{\circ} 0'$ E., had a strong gale from N.W; barometer 29.64.—At Mauritius, the barometer fell .042 inch on the 9th, with the wind squally from S.E.

From the 16th to the 21st, the *Tasso*, in 38° to 33° S. and 112° to 110° E., had strong gales from N.Wrd., with terrific squalls and rain; barometer 29.50. On the 18th, the *Sea Chief*, in $40^{\circ} 32'$ S. and $27^{\circ} 06'$ E., had a strong gale from North. On the 19th and 20th, the *Robert Passenger*, in $7^{\circ} 40'$ N. and $82^{\circ} 38'$ E., had a strong gale from S.W.b.S. to W.S.W., with a heavy sea. On the 20th, the *Brani*, in 15° N. and 83° E., and the *Fathe Salem*, in 19° N. and 88° E., had strong gales from S.Wrd; barometer 29.65. On the 21st and 22nd, the *Leonidas*, in 37° S. and 2° E., had a strong gale from S.E. to East, and N.E; barometer 29.60; and the *Sea Chief*, a heavy gale from N.E. to W.N.W., in 41° S. and 41° E.—At Mauritius, the barometer fell from 30.128 at noon on the 13th to 29.936 at noon on the 18th, with the wind light from East to N.E. and West. It then rose to 30.078 at noon on the 21st, and again fell to 29.980 at noon on the 25th.

On the 26th and 27th, the *Leonidas*, in 40° S. and 16° E., had a strong gale from N.E., and the *Sea Chief*, a strong gale from N.W. to West, in 38° S. and 56° E. On the 27 and 28th, the *Prospero*, in 25° S. and 52° to 50° E., had a strong gale from W.S.W. to S.S.W. On the 29th, the *Corrido*, in 18° S. and 101° E., had a strong gale from S.E. On the 30th, the S. S. *Emirne*, in $11^{\circ} 19'$ N. and $51^{\circ} 45'$ E., had a strong gale from South and S.W. On the 30th and 31st, the *Alexandrine*, in 15° S. and 120° E., had a strong gale from South to S.E.—At Mauritius, the barometer fell from 30.008 on the 26th to 29.950 on the 27th, with the wind light from S.b.W. to W.S.W. and West, and then rose to 30.144 on the 30th, with the wind squally from South to S.S.E.

JUNE.—On the 2nd, the *Sharston*, in $39^{\circ} 24'$ S. and $52^{\circ} 03'$ E., had a strong gale from N.W. to W.S.W., with a heavy sea. From the 2nd to the 5th, the *Fathe Salem*, in 10° to 7° N. and 88° to 90° E., had a strong gale from S.Wrd;—barometer 29.75. On the 5th and 6th, the *Fleetwood*, in 38° S. and 9° to 13° E., had a heavy gale from S.W; barometer 28.87. On the 6th and 7th, the *Letitia*, in 42° S. and 98° E., had a strong gale from North to N.W. From the 6th to the 8th, the *Leonidas* in 38° to 35° S. and 48° to 51° E., had a strong gale from N.b E. to N.W.; barometer 29.60. On the 7th, the *Sir Robert Seppings*, in 38° S. and 26° E., had a strong gale from South to S.W., with terrific squalls and tremendous sea. On the 7th and 8th, the *Beaumaris Castle*, in 38° to 36° S. and 36° to 38° E., had strong gales from South to S.W.; and a heavy sea. From the 6th to the 8th, the *Robert Passenger*, in 8° to 12° S. and 77° to 72° E., had fresh gales and strong squalls from S.Erd., with a heavy sea.—At Mauritius, the barometer fell from 30.142 at noon on the 3rd to 30.018 at noon on the 9th, with the wind squally from S.E. to East and showery weather.

From the 10th to the 15th, the *Corrido*, in 32° to 38° S. and 102° to 110° E., had heavy gales from North to N.W. and S.W. On the 11th and 12th, the *Letitia*, in 43° S. and 109° to 112° E., had strong gales from W.N.W. From the 12th to the 15th, the *Kalahome*, in 38° to 36° S. and 113° to 114° E., had strong gales from W.N.W. and N.W. On the 17th and 18th, the *Fleetwood*, in 38° S. and 46° to 50° E., had a strong gale from N.W. to S.W. On the 18th, the *Dora*, in $38^{\circ} 49'$ S. and $12^{\circ} 39'$ E., had a strong gale from N.N.E. to W.N.W. and S.W. From the 16th to the 18th, the *Sharston*, in 12° to 10° S. and 80° E., had terrific squalls from E.S.E., with rain, lightning and very wild aspect. On the 20th, the *Fathe Allum*, in 17° N. and 85° E., had a strong gale from N.W. to West, with much lightning and torrents of rain.—At Mauritius, the barometer on the 10th and 11th rose .082 inch. On the 11th, it fell .030, and rose .066 from the 11th to the 15th. On the 16th and 17th it fell .050, and on the 18th and 19th rose .032. The wind throughout was variable from S.S.E. to East, and occasionally squally.

On the 21st, the *Sarah*, in 34° S. and 109° 49' E., had a strong gale from N.W. to West, with hard squalls. On the 22nd, the *Clara*, in 38° 22' S. and 3° 11' E., had a gale from S.W., with hard squalls and rain. On the 23rd, the *Princess Alice*, in 31° 46' S. and 33° 48' E., had a strong gale from N.Erd. On the 25th and 26th, the *Dora*, in 39° S. and 29° E., had strong gales from S.E. From the 26th to the 29th, the *Sir Robert Seppings*, in 28° to 21° S. and 80° to 81° E., had strong gales from S.E. to N.E., with terrific squalls, and a tremendous cross sea; barometer fell from 30·36 to 29·80. On the 28th, the *Princess Alice*, in 36° 40' S. and 52° 53' E., had a strong gale from N.N.W. On the 29th and 30th, the *Leonidas*, in 6° to 8° N. and 50° to 53° E., had strong gales from S.W.—At Mauritius, the barometer fell from 30·150 at noon on the 19th to 29·966 at noon on the 22nd, with the wind squally from E.S.E. to East on the 19th and 20th, falling light on the 21st, and calms and light Westerly airs on the 22nd. It then rose to 30·188 on the 25th, with the wind squally from South to S.S.E., and then fell to 30·028 at noon on the 29th, with the wind squally from S.S.E. to E.S.E. and the weather showery.

JULY.—This month was remarkable for a succession of strong gales and storms in 30° to 45° S.; and there was, apparently, a tropical cyclone, as shown by the log of the ship *Nimroud*, (Capt. Lowther). Without attempting to enumerate all these gales and the localities where they were experienced, the following particulars may be interesting: On the 4th, the *Clara*, in 39° 50' S. and 49° 22' E., and the *Red Gauntlet*, in 41° 37' S. and 59° 13' E., had a very heavy gale from N.Wrd., with terrific squalls, thunder and lightning. On the 7th, the *Princess Alice*, in 37° 27' S. and 89° 00' E., had a hard gale from North, with a heavy sea. On the 12th, the *Equateur* and *Providence*, in 36° to 30° S. and 33° to 35° E., had a storm from South and S.S.W., with a furious sea. From the 6th to the 12th, the *Nimroud*, in 9° to 14° S. and 103° to 92° E., had a whole gale from East to N.E., N.N.W., West and W.S.W., the barometer falling from 30·008 on the 6th to 29·412 at 4 A.M. on the 11th. There was much heavy rain, thunder and lightning, and a tremendous heavy sea and swell. On the 10th and 11th, the cross confused sea "was terrific." The winds and weather experienced by the vessels nearest to the *Nimroud* were such as would be expected on the supposition that the latter was in a cyclone.—At Mauritius, the barometer rose from 30·028 at noon on the 29th June to 30·128 at noon on the 4th July, with the wind squally from S.Erd. It then fell to 30·088 on the 7th, with the wind light from the same quarter, and again rose to 30·142 on the 10th, from which it fell to 30·130 on the 12th, with the wind strong and gusty from S.Erd., and the weather cloudy and showery.

On the 16th, the *Lord Palmerston*, in 39° 00' S. and 27° 50' E., had a strong gale from S.S.Erd. From the 18th to the 26th, a storm advanced from the meridian of Greenwich to at least as far as 60° E.; several of the vessels in it experienced a "perfect hurricane." On the 29th and 30th, the *Rothsay* and *Hindustan*, in 12° to 15° N. and 86° to 90° E., had heavy gales from S.Wrd; barometer 29·60.—At Mauritius, the barometer rose from 30·130 at noon on the 12th to 30·166 at noon on the 15th, with strong winds from S.Erd., and then fell to 30·076 at noon on the 20th, with a decreasing wind from S.Erd., and fine weather. It then fell from 30·194 at noon on the 23rd to 30·012 at noon on the 26th, with light winds from S.E. to East. From the 26th it rose to 30·110 on the 27th, and then, fell to 30·052 on the 30th, with light winds from S.E. to East. (An account of the gales of this month is given in the "Monthly Notices of the Meteorological Society of Mauritius," 30th November, 1871.)

AUGUST.—On the 4th and 5th, the *Providence*, in 30° S. and 54° E., had a strong gale and heavy squalls from N.Wrd. From the 5th to the 8th, the *Hindustan*, in 7° to 9° N. and 92° to 91° E., had a heavy gale from S.Wrd. and a high sea. From the 6th to the 8th, the *Sarah*, in 39° to 29° S. and 93° to 101° E., had a strong gale from North to N.W. and a high sea; barometer from 30·40 to 30·05. On the 6th, the *Middlesex*, in 30° 38' S. and 79° 30' E., had a strong gale from North to N.N.W. On the same day (6th), the *Tasso*, in 39° 30' S. and 128° 37' E., had a strong gale from West; barometer 29·70. On the 7th and 8th, the *Margaret Falconer*, in 39° to 34° S. and 2° to 7° E., had a strong gale from W.S.W., with very severe squalls and a high sea; barometer 29·80. On the 8th, the *Brani*, in 22° S. and 73° E., experienced strong winds with a very heavy sea. Bulwarks carried away, and lost sails, &c.—At Mauritius, the barometer fell from 30·134 at noon on the 1st to 30·102 on the 4th, with the wind light from E.S.E. to East and fine weather. It then rose to 30·240 at noon on the 7th, with strong breezes from S.S.E. and S.E., and then fell to 30·090 at noon on the 12th, with a decreasing breeze from S.E. to East and passing showers.

On the 15th, the *Hindustan*, in 0° 08' N. and 94° E., had a very hard gale from S.S.E. to S.W.; barometer 29·80. From the 15th to the 19th, the *Grasmere*, in 34° to 36° S. and 1° to 10° E., had heavy gales from N.W. to N.E. and S.W; barometer 29·62. From the 17th to the 19th, the *Mullah*, in 39° to 40° S. and 25° to 28° E., had hard gales from S.S.W. to E.S.E. and E.N.E.—At Mauritius, the barometer rose to 30·112 on the 14th, with strong breezes from S.Erd., and then fell to 30·058 on the 19th with gloomy showery weather.

From the 24th to the 31st, the *Evelyn*, in 41° to 38° S. and 22° to 52° E., and the *Joyse Phillips*, in 36° to 35° S. and 23° to 43° E., had strong gales from N.E. to N.W. and S.W. From the 25th to the 28th, the *Stag*, in 11° to 6° N. and 90° to 92° E., had strong gales from S.W. and W.S.W.—At Mauritius, the barometer rose to 30·236 on the 22nd, with the wind squally from S.Erd.,

and then fell to 30·128 on the 25th, with the wind decreasing and veering to East. On the 26th and 27th, it rose ·064 inch, and then fell to 30·056 on the 30th, with light winds from S.Erd. and fine weather.

SEPTEMBER.—On the 2nd and 3rd, the *Allum Ghier*, in 15° to 17° S. and 70° to 66° E, had fresh gales from S.E. with squally rainy weather and a high sea. From the 2nd to the 6th, the *Olivier Madeleine*, in 37° S. and 12° to 30° E., had heavy gales and violent squalls from N.W. to S.W.; barometer 29·568. On the 4th and 5th, the *Venus*, in 33° S. and 37° to 42° E., had a strong gale from N.W. to S.W., with a high sea. From the 2nd to the 6th, the *Joyse Phillips*, in 36° S. and 49° to 57° E., had hard gales from N.E. to S.W. On the 8th, the *Eva Joshua*, in 16° 40' S. and 61° 14' E., had violent winds and squalls from S.S.E. and a high sea from the same quarter. On the 8th, the *Evelyn*, in 33° 33' S. and 85° E., had a strong gale from North to N.W. From the 8th to the 11th, the *Olivier Madeleine*, in 38° to 34° S. and 38° to 45° E., had heavy gales from North to N.W., S.W. and S.E., with a tremendous sea.—At Mauritius, the barometer fell from 30·152 at noon on the 2nd to 30·058 at noon on the 7th, with the wind at first squally from S.E. and decreasing as it veered to East, N.E. and N.W.

On the 18th, the *Margaret Falconer*, in 34° S. and 17° E., had a strong gale from S.S.E.; barometer 29·90. On the 22nd, the *Leonidas*, in 13° S. and 78° E., and the *Victoria Bridge*, in 16° S. and 71° E., had a gale from S.Erd. From the 22nd to the 28th, the *Princess Alice*, from 38° to 35° S. and in 113° E., had strong gales from N.W. to S.W., with hard squalls and a high sea. From the 24th to the 26th, the *Lady Belmore*, in 38° S. and 131° to 128° E., had strong gales from N.W. to S.W., with hard squalls and a high sea.—At Mauritius, the barometer fell from 30·146 at noon on the 10th to 29·928 at noon on the 14th, with moderate breezes from S.E. to East, and then calms and variables. It then rose to 30·164 at noon on the 21st, with the wind squally from S.S.Erd. From the 21st to the 26th, it fell to 29·984, and then rose to 30·142 at noon on the 1st October.

OCTOBER.—On the 1st and 2nd, the *Princess Alice*, in 33° to 31° S. and 114° to 110° E., had strong gales from N.W. to West and S.W., with hard squalls. On the 1st, the *Sarah*, in 37° S. and 114° E., had a strong gale from S.Wrd and a high sea. On the 1st, the *Hartfield*, in 40° S. and 8° E., had a strong gale from N.E. to N.W. and a cross sea; barometer 29·50. On the 3rd and 4th, the *Chrysolite*, in 37° to 38° S. and 8° to 13° E., had a hard gale from W.S.W., and a fearful cross sea; barometer 29·87.—At Mauritius, the barometer fell ·042 on the 2nd, with the wind squally from S.S.E., and then rose to 30·160 on the 5th, from which it fell to 30·074 on the 8th, with the wind squally from Erd.

On the 11th and 12th, the *Confiance*, in 38° S. and 22° to 26° E., had a heavy gale from S.W., with hard squalls. On the 21st and 22nd, the *African Belle*, in 39° to 40' S. and 37° to 39° E., had a strong gale from E.b.N. to N.E., with a heavy sea. On the 27th and 28th, the *Lord Clyde*, in 40° to 38° S. and 36° to 38° E., had a storm from N.W. to S.W., with a very heavy sea, and on the same days the *Ironne*, in 39° S. and 37° E., and the *Shand*, in 39° S. and 27° to 31° E., had strong gales, the former vessel from S.W. to N.W., and the latter from S.W. to W.S.W.—At Mauritius, the barometer fell from 30·090 on the 9th to 29·996 on the 15th, with the wind squally from S.E. to East, and then rose to 30·070 on the 18th, from which it fell to 29·912 on the 21st, the wind being squally from E.S.E. to East. It then rose to 30·118 on the 28th, and again fell to 30·040 on the 30th, with light variable winds.

NOVEMBER.—From the 2nd to the 4th, the *Cheviot*, from 35° S. and 16° E., to Table Bay, had a hard gale from West to S.W. and South, with heavy squalls and a high sea; barometer 29·74. On the 4th, the *Pie IX*, in 38° S. and 24° E., had a gale from S.W. On the 5th and 6th, the *Amie*, in 9° S. and 97° E., had a gale from S.Erd. On the 8th, the *Lord Clyde*, in 38° S. and 51° E., had a very heavy gale from N.N.E. On the same day (8th), the *Amie*, in 13° S. and 93° E., had a fresh gale from S.E. On the 28th, the *Island Belle*, in 27° S. and 47° E., had a hard gale from E.N.E. to E.S.E.—At Mauritius, the barometer fell from 30·056 on the 1st to 30·032 on the 5th, with strong breezes from S.E. to East, and then rose to 30·076 on the 7th, after which it fell to 29·964 on the 13th, with the wind squally from E.S.Erd. The greatest fall in the month was from 30·036 on the 23rd to 29·886 on the 28th, with the wind from E.S.E. to East and North, and thunder and lightning on the 26th, 27th and 28th.

DECEMBER.—On the 9th, the *Cheviot*, in 37° 34' S. and 20° 17' E., had a hard gale from N.W., and on the 9th and 10th, the *Volta*, in 39° 30' S. and 17° to 22° E., had a hard gale from E.N.E. to W.N.W. On the 18th and 19th, the *Chateaubriand*, in 40° S. and 15° E., had a gale from S.S.E. to S.W. On the 19th, the *Ophir*, in 36° S. and 19° E., had a hard gale from S.S.W., and the *Isabella Blyth*, a hard gale from S.W. in 37° 32' S. and 16° 14' E. On the 28th, the *Chateaubriand*, in 40° S. and 46° E., had a hard gale from S.W.—At Mauritius, the barometer fell ·066 on the 2nd and 3rd. From the 3rd to the 13th, it rose from 29·864 to 30·054, and then fell to 29·928 on the 17th, with thunder and lightning on the latter day, and the wind from E.N.E. It then rose to 30·016 on the 20th, and again went down to 29·894 on the 26th, the wind having veered from E.S.E. to N.E., with thunder on the 26th.

C. MELDRUM.