QC
994.5
.R38
1876

Results of Meteorological Observations taken during the year 1876, *at the Royal Alfred Observatory, Mauritius, Lat.* 20° 6' 6" *S. Long.* 3 *hrs.* 50 *m.* 12 *s.* 6. *E.*

INTRODUCTION.

The Observatory is about three miles from the West coast and stands on a plain which is 179 feet above the sea-level. From W.S.W., through West, to North, there is an uninterrupted view of the sea ; and from North, through East, to S E., the ground, generally, slopes from the Piton, which bears about four miles E.b.S., and is 850 feet above the sea-level. Between S.E. and S.W. there is a chain of mountains, the highest peak of which, the Pieterboth, bears nearly six miles due South, and has an altitude of 2,685 feet above the sea. The nearest extremities of two spurs, which run respectively N.E. and N.W. from the Pieterboth, are at a distance of three to four miles, and have an elevation of about 560 feet.

All the rocks and mountains are of volcanic origin.

Around the Observatory the soil has a depth of 3 to 14 feet, below which is solid basalt.

The Standard Barometer (No. 128, Newman) has a diameter of .564 inch, and its cistern is 181 feet above the sea-level.

All the Thermometers, which are by Casella, have been verified. They have a southern exposure and are 6 feet above the ground.

The mouth of the Rain-gauge (Glaisher's) is 8 inches in diameter, and 10 inches above the surface of the ground.

Since February (1875) a self-registering Kew Anemometer by Casella has been at work on the highest part of the building.

A continuous record of the atmospheric pressure is obtained from a Barograph, by Beck, placed in the Magnetic Observatory, the floor of which is 13 feet below the surface of the ground.

A Thermograph has been received, but not yet mounted, the building intended for it not being ready.

During the year four eye-observations of the principal meteorological elements have been taken daily, viz : at 6 and 9 A.M., and at 1 and 3 P.M., The minimum Thermometers have been read daily at 9 A.M., and the maximum at 3 P M.

ATMOSPHERIC PRESSURE.

The following Table has been compiled from hourly numerical values of the ordinates of the Barograph curves ; these values having been obtained by measurement, and then converted into their corresponding barometric values. Tables showing the hourly readings for each day have been prepared, but their insertion here would occupy too much space.

National Oceanic and Atmospheric Administration

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TABLE I

HOURLY AND MONTHLY MEANS OF THE ATMOSPHERIC PRESSURE DURING THE YEAR 1876.

Hours.	January	February	March	April	May	June	July	August	September	October	November	December	Hourly Means.	Variation, + above, — below mean.	Hours.
1 A.M.	29.669	29.651	29.809	29.846	29.967	30.028	30.074	30.053	30.044	29.956	29.870	29.869	29.903	+ .007	1 A.M.
2 "	29.655	29.633	29.797	29.834	29.957	30.016	30.061	30.041	30.032	29.940	29.857	29.856	29.890	— .006	2 "
3 "	29.647	29.626	29.789	29.826	29.947	30.008	30.055	30.034	30.023	29 933	29.851	29.851	29.882	— .014	3 "
4 "	29.646	29.623	29.787	29.820	29.942	30 002	30.051	30.029	30.018	29.931	29.852	29.850	29.879	— .017	4 "
5 "	29.654	29.631	29.793	29.824	29.944	30.002	30.051	30.031	30.025	29.939	29.859	29.859	29.884	— .012	5 "
6 "	29.669	29.640	29.802	29.834	29.954	30.010	30.060	30.041	30.038	29.952	29.874	29.875	29.896	.000	6 "
7 "	29.682	29.652	29.814	29.849	29.970	30.024	30.075	30.055	30.051	29.967	29.884	29.887	29.909	+ .013	7 "
8 "	29.685	29.657	29.823	29.856	29.979	30.037	30.089	30.067	30.063	29.974	29.889	29.892	29.918	+ .022	8 "
9 "	29.687	29.666	29.831	29.869	29.991	30.048	30.100	30.078	30.068	29.978	29.890	29.892	29.925	+ .029	9 "
10 "	29.683	29.663	29.827	29.866	29.989	30.044	30.098	30.077	30.062	29.970	29.883	29.887	29.921	+ .025	10 "
11 "	29.674	29.658	29.819	29.854	29.976	30.033	30.086	30.064	30.047	29.959	29.873	29.878	29.910	+ .014	11 "
Noon	29.662	29.646	29.804	29.834	29.956	30.015	30.064	30.041	30.024	29.941	29.858	29.863	29.892	— .004	Noon.
1 P.M.	29.651	29.632	29 788	29.818	29.936	29.995	30.043	30.021	30.007	29.927	29.843	29.852	29.876	— .020	1 P.M.
2 "	29.634	29.619	29.775	29.805	29.922	29.982	30.030	30.007	29.992	29.913	29.831	29.840	29.862	— .034	2 "
3 "	29.623	29.611	29.767	29.804	29.921	29.980	30.026	30.001	29.988	29.907	29.822	29.829	29.857	— .039	3 "
4 "	29.617	29.608	29.769	29.806	29.923	29.984	30.029	30.003	29.992	29.909	29.821	29.825	29.857	— .039	4 "
5 "	29.625	29.613	29.778	29.816	29.934	29.994	30.037	30.012	30.002	29.918	29.830	29.832	29.866	— .030	5 "
6 "	29.643	29.629	29.791	29.826	29.946	30.003	30.045	30.023	30.018	29.936	29.848	29.848	29.880	— .016	6 "
7 "	29.663	29.647	29.809	29.843	29.963	30.019	30.059	30.039	30.036	29.953	29.867	29.865	29.897	+ .001	7 "
8 "	29.677	29.661	29.824	29.858	29.977	30.031	30.072	30.055	30.053	29.968	29.882	29.879	29.911	+ .015	8 "
9 "	29.691	29.672	29.837	29.869	29.986	30.040	30.083	30.065	30.063	29.980	29.892	29.889	29.922	+ .026	9 "
10 "	29.700	29.678	29.837	29.870	29.984	30.042	30.085	30.068	30.064	29.981	29.898	29.896	29.925	+ .029	10 "
11 "	29.698	29.673	29.833	29.867	29.983	30.039	30.082	30.067	30.062	29.978	29.891	29.894	29.922	+ .026	11 "
Midnight	29.685	29.660	29.824	29.859	29.976	30.031	30.077	30.063	30.055	29 964	29.879	29.880	29.913	+ .017	Midnight.
Monthly Means	29.663	29.644	29.805	29.840	29.959	30.017	30.064	30.043	30.034	29.949	29.864	29.866	29.896	.....	Monthly Means.
Monthly Means reduced to sea-level	29.850	29.831	29.994	30.029	30.150	30.209	30.257	30.235	30.226	30.139	30.053	30.054	30.086	.....	Monthly Means reduced to sea-level.

TABLE II

MONTHLY AND DAILY RANGE OF THE ATMOSPHERIC PRESSURE DURING 1876.

	January	February	March	April	May	June	July	August	September	October	November	December	Means for Year.
Highest Reading	30.922	30.036	30.163	30.163	30.294	30.410	30.375	30.349	30.366	30.325	30.187	30.210	30.242
Lowest "	29.390	29.115	29.682	29.818	29.970	29.952	30.120	30.043	30.113	29.986	29.929	29.901	29.835
Range in Month	0.632	0.921	0.481	0.345	0.324	0.458	0.255	0.306	0.253	0.339	0.258	0.309	0.407
Mean Range from 4 A.M. to 9 A.M.	0.041	0.043	0.044	0.049	0.049	0.046	0.049	0.049	0.050	0.047	0.038	0.042	0.046
Mean Range from 9 A.M. to 3 P.M.	0.064	0.055	0.064	0.065	0.070	0.068	0.074	0.077	0.080	0.071	0.068	0.063	0.068
Mean Range from 3 P.M. to 10 P.M.	0.077	0.067	0.070	0.066	0.063	0.062	0.059	0.067	0.076	0.074	0.076	0.067	0.069
Mean Range from 10 P.M. to 4 A.M.	0.054	0.055	0.050	0.050	0.042	0.040	0.034	0.039	0.046	0.050	0.046	0.046	0.046
Mean Diurnal Range	0.059	0.055	0.057	0.057	0.056	0.054	0.054	0.058	0.063	0.060	0.057	0.054	0.057

TABLE III

COMPARISON OF THE MEANS OF THE STANDARD BAROMETER READINGS WITH THE MEANS OF THE BAROGRAPH READINGS FOR THE HOURS OF 9 A.M. AND 3 P.M. DURING THE YEAR 1876.

Months.	Barometer Readings corrected for Capillarity and reduced to 32° Fahr.		Means.	Barograph Readings.		Means.
	9 A.M.	3 P.M.		9 A.M.	3 P.M.	
January	29.689	29.622	29.655	29.687	29.623	29.655
February	29.665	29.612	29.638	29.666	29.611	29.638
March	29.833	29.765	29 799	29.831	29.767	29.799
April	29.873	29.801	29.837	29.869	29.804	29 836
May	29.995	29.918	29.956	29.991	29.921	29 956
June	30.050	29.980	30.015	30.048	29.980	30.014
July	30.101	30.026	30.063	30.100	30.026	30.063
August	30.079	30.000	30.039	30.078	30.001	30.039
September	30.068	29.983	30.025	30.068	29.988	30.028
October	29.977	29.904	29.940	29.978	29.907	29.942
November	29.889	29.817	29.853	29.890	29.822	29.856
December	29.891	29.827	29.859	29.892	29.829	29.860
Means	29.926	29.855	29.890	29.925	29.857	29.890

The mean ranges of the diurnal barometric oscillations (Table II) are almost the same as in 1875, the only difference being that in 1876 the range from 4 A.M. to 9 A.M. was 0.046, whereas in 1875 it was 0.045.

The results of the comparisons of the barometer and barograph readings (Table III) are also almost the same as those for 1875, and with new constants deducible from the larger number of observations now available a closer approximation will probably be obtained in future years.

TABLE IV

TEMPERATURE OF AIR, EVAPORATION, AND DEW POINT.

Observations.	January	February	March	April	May	June	July	August	September	October	November	December	Means
Temperature of Air. (*Dry Bulb Ther. in Shade.*)	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Monthly Means	79.7	79.1	77.4	76.5	72.4	69.9	67.9	69.1	70.1	72.2	76.5	78.9	74.1
Mean at 6 A.M.	76.8	76.2	74.0	73.4	69.2	67.0	65.1	66.1	66.0	68.0	72.1	74.7	70.7
Mean at 9 "	81.9	80.9	79.1	78.0	73.4	70.6	68.2	70.2	71.8	74.5	79.5	81.4	75.8
Mean at 1 P.M.	83.5	82.3	81.3	79.8	76.0	73.3	71.1	72.7	74.5	76.7	81.3	83.3	78.0
Mean at 3 "	82.7	82.1	80.9	79.6	75.7	72.8	70.8	72.2	74.2	76.5	80.9	83.1	77.6
Highest readings	86.7	86.2	84.3	84.3	78.8	78.5	74.2	76.3	77.5	80.6	85.7	86.1	81.6
Lowest "	70.4	68.8	68.2	66.6	62.7	60.0	60.6	59.7	57.1	61.8	65.5	67.2	64.0
Range in month	16.3	17.4	16.1	17.7	16.1	18.5	13.6	16.6	20.4	18 8	20.2	18.9	17.5
Mean of highest daily readings	84.9	84.0	82.8	81.2	77.3	74 4	72.4	73.5	75.3	77.7	82.1	84.2	79.1
Mean of lowest "	76.1	75.7	72.8	71.8	67.1	65.7	64.0	65.0	64.9	67.3	71.1	73.9	69.6
Mean diurnal range	8.8	8.3	10.0	9.4	10.2	8.7	8.4	8.5	10.4	10.4	11.0	10.3	9.5
Greatest "	14.6	13.9	15.9	14.7	15.6	14.7	10.7	12.6	18.2	17.5	15.2	15.5	14.9
Least "	3.4	3.0	4.7	6.0	6.9	4.2	6.1	5.6	6.7	4.8	7.3	5.0	5.3
Temperature of Evaporation. (*Wet Bulb Ther. in Shade.*)													
Monthly Means	74.9	74.7	72.4	70.9	67.0	64.4	62.4	63.9	64.0	66.6	70.2	72.2	68.6
Mean at 6 A.M.	73.5	73.0	70.3	69.3	65.0	63 0	61.2	62.5	62.3	64.6	68.5	70.6	67.0
Mean at 9 "	76.1	75.9	73.7	72.5	68.2	65.5	63.2	64.7	65.0	68.0	71.5	73 7	69.8
Mean at 1 P.M.	76.6	76.2	74.9	72.7	69.4	66.3	63.6	65.6	65.9	68.8	71.8	74.0	70.5
Mean at 3 "	76.4	76.4	74.6	72.6	69.1	65.9	63.6	65.4	65.8	68.7	71.9	73.9	70.4
Highest readings	79.4	79.6	79.4	77.1	72.9	71.8	68.6	70.0	63.7	75.4	75.5	77.3	74.6
Lowest "	67.5	66.8	65.1	63.4	59.9	56.0	57.3	55.6	55.3	59.7	63.5	63.2	61.1
Range in month	11.9	12.8	14.3	13.7	13.0	15.8	11.3	14.4	13.4	15.7	12.0	14.1	13.5
Mean of highest daily readings	77.9	77.6	75.7	74.1	70.5	67.6	65.4	66.9	67.1	70.1	73.2	75.4	71.8
Mean of lowest "	72.9	72.5	69.5	68.3	63.7	61.6	59.9	61.2	61.4	64.1	67.7	70.0	66.1
Mean diurnal range	5.0	5.1	6.2	5.8	6.8	6 0	5.5	5.7	5.7	6.0	5.5	5.4	5.7
Greatest "	9.5	9.2	10.3	10.0	12.1	10.1	7.5	9.8	12.0	12.0	9.8	9.3	10.1
Least "	2.5	2.8	2.9	2.8	3.9	2.7	2.9	3.1	2.4	2.3	3.4	3.5	2.9
Dew Point (*deduced.*)													
Monthly Means	71.6	71.7	69.0	67.0	63.1	60.2	58.0	59.8	59.6	62.6	65.8	67.7	64.7
Mean at 6 A.M.	71.2	70 8	67.6	66.2	61.7	59.8	58.0	59.5	59.4	62.0	65.8	67.7	64.1
Mean at 9 "	72.3	72.5	69.9	68.7	64.4	61.6	59.2	60.6	59.9	63.4	66.1	68.5	65.6
Mean at 1 P.M.	72.0	72.2	70.6	67.9	64.7	61.1	57.9	60.3	59.6	63.3	65.5	67.9	65.2
Mean at 3 "	72.1	72.6	70.4	67.8	64.5	60.7	58.1	60.2	59.8	63.2	65.9	67.8	65.3
Highest in month	75.6	76.9	76.7	73.3	68.6	67.9	64.4	66.1	63.7	72.1	70.8	73.5	70.8
Lowest "	66.0	65.4	62.7	59.1	56.5	53.0	49.1	53.1	53.0	56.8	57.2	60.2	57.7
Range "	9.6	11.5	14.0	14.2	12.1	14.9	15.3	13.0	10.7	15.3	13.6	13.3	13.1
Greatest diurnal range	5.3	6.4	7.6	5.9	8.5	9.4	6.7	7.7	7.8	9.0	6.1	5.7	7.2
Least "	1.1	0.4	1.3	1.5	0.7	1.1	0.4	0.7	0.9	0.5	1.5	0.9	0.9

The monthly means in the above Table have been deduced from the observations taken at 6 A.M. and 3 P.M. The mean temperature thus found (74°.15) is the mean temperature for the twenty-four hours, as appears from the hourly variation given last year.

TABLE V

ELASTIC FORCE OF VAPOUR, RELATIVE HUMIDITY, CLOUD, AND RAINFALL.

Observations.	January	February	March	April	May	June	July	August	September	October	November	December	Means.
ELASTIC FORCE OF VAPOUR (*deduced.*)	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
Monthly Means	.778	.779	.712	.666	.581	.528	.485	.519	.512	.572	.639	.682	.621
Mean at 6 A M.....	.767	.757	.678	.648	.553	.519	.484	.513	.509	.560	.639	.681	.609
Mean at 9 „	.793	.798	.735	.707	.607	.552	.506	.532	.520	.586	.644	.701	.640
Mean at 1 P M.....	.788	.793	.750	.687	.612	.544	.483	.527	.512	.585	.629	.684	.633
Mean at 3 „	.789	.801	.746	.685	.609	.538	.486	.526	.516	.584	.639	.683	.633
Highest in month ..	.883	.926	.920	.822	.701	.684	.603	.641	.591	.788	.753	.825	.761
Lowest „ ..	.641	626	.572	.503	.457	.401	.349	.405	.402	.462	.466	.522	.484
Range „ ..	.242	.300	.348	.319	.244	.283	.254	.236	.189	.326	.287	.303	.278
Greatest diurnal range	.130	.156	.175	.141	.177	.174	.097	.141	.131	.180	.128	.144	.148
Least „	.032	.007	.030	.029	.018	.020	.005	.014	.017	.013	.034	.023	.020
RELATIVE HUMIDITY (*ded.*) (*Comp. Sat.*=100.)	Rel.	Rel.	Rel.	Rel	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel..	Rel.
Monthly Means	76.7	78 2	75.6	73.0	72.8	72.0	71.2	73.1	70.2	72.6	70.6	69.5	73.0
Mean at 6 A.M.....	82.6	83.4	80.8	78.6	77.1	78.1	78.2	79.9	79.7	81.5	80.8	79.0	80.0
Mean at 9 „	72.9	76.0	73.6	73.2	73.7	73.3	73.1	71.6	66.4	68.5	64.0	65.3	71.0
Mean at 1 P.M.....	73.3	72.0	70.3	67.2	68.1	65.9	63.1	65.2	60.0	63.6	58.7	59.9	65.6
Mean at 3 „	70.9	73.0	70.5	67.4	68.5	65.9	64.2	66.3	60.8	63.8	60.5	60.1	66.0
Highest in month ..	88.0	94.2	93.0	88.8	86.5	85.5	88.8	88 0	88.1	90.4	92.8	95 2	89.9
Lowest „ ..	57.3	59.0	57.5	56.1	56.2	53.1	47 0	51.9	46.6	53.2	46.1	43 8	52.3
Range „ ..	30.7	35 2	35.5	32.7	30.3	32.4	41.8	36.1	41.5	37.2	46.7	51.4	37.6
Greatest diurnal range	23.4	25.0	20.6	20.6	21.1	25.8	27.0	24.6	35.9	28.7	31.8	30.2	26.2
Least „	4.5	2.6	6.1	1.5	6.1	5.5	6 9	7.5	11.3	10.6	8.4	5.0	6.3
CLOUD (10=*overcast*)													
Monthly Mean.....	6.6	6.6	5.6	5.3	4 9	5.4	5.8	5.9	4.6	5.3	4.4	5.5	5.5
Mean at 6 A M.....	6.2	6.4	4.6	5.1	3.8	5.3	6.1	6.4	4.3	4.7	2.9	4.9	5.1
Mean at 9 „	6.3	6.3	5.1	5.4	4.8	5.0	5.7	5.2	4.4	5.3	4.4	5.9	5.3
Mean at 1 P.M.....	7.0	6.7	6.4	5.4	5.7	5.8	5.8	6.1	4.8	5.5	5.2	5.7	5.8
Mean at 3 „	7.1	7.1	6.3	5.5	5.4	5.4	5.8	6.0	4.8	5 6	5.3	5.4	5.8
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
RAINFALL.	10.81	7.88	4.80	5.48	2.43	1.31	1.49	1.67	0.51	2.65	0.66	2.18	41.87 3.49
	Days	Days	Days	Days	Days	Days	Days	Days	Days	Days	Days	Days	Days
No. of days on which rain fell.....	19	18	17	18	18	18	25	23	10	12	4	16	198 16
	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
Mean rainfall for the 6 years 1871—76..	9.38	9.12	10.28	5 40	3.89	2.31	1.80	1.94	1.33	1.99	1.36	4.96	53.76 4.48
Excess or Defect in 1876	+1.43	—1.24	—5.48	+0.08	—1.46	—1.00	—0.31	—0.27	—0.82	+0.66	—0.70	—2 78	--11.89 —0.99

TABLE VI

MEAN MONTHLY MAXIMUM AND MINIMUM TEMPERATURE AT FIVE STATIONS IN THE INTERIOR OF THE ISLAND IN 1876.

1876.	Moka.				Plaines Wilhems.		Grand Port.		Savanne.	
	Lynwood. Altitude 800 feet.		Bonne Veine. Altitude 1,500 feet.		Dry Burn. Altitude 1,300 feet.		Midlands. Altitude 1,400 feet.		Colmar. Altitude 700 feet.	
Months.	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.
January	79.9	72.3	83.0	69.0	81.0	69 0	81.1	73.2	80.9	75.2
February	83.3	72.1	81.7	68.9	79.0	69 0	80.6	73.5	80.8	75 2
March	78.4	69.4	79.4	65.9	78.0	66.0	80.8	70.8	79.4	73.1
April	76.2	67.3	77.6	65.0	76.0	65.0	78.8	69.6	76 8	71.2
May	72.3	63.2	72.9	60.5	73.0	61.0	76.1	65.1	73 2	66.7
June	69.1	61.1	70.0	57.9	70.0	58.0	76.1	63.0	70.4	64.2
July	67 4	59.3	67 3	56.5	67.7	56.9	69.7	57.2	68.4	62.8
August	69.0	59.7	69.0	59.9	69.0	58.0	73.6	62.6	69 8	63.6
September	71.3	59.7	72.6	59.9	71.9	58.1	75.6	63.3	71.6	63.8
October	74.5	62.5	77.6	59.5	73.5	60.5	75.9	65.5	75.3	66.1
November	79.8	66.6	83.7	63.8	77.5	64.5	80.0	69.5	79.2	69.6
December	81.4	70.7	85.0	65.1	79.8	68.0	80 6	71.5	80.2	72.1
Means	75.2	65.3	76.6	62.7	74.7	62.8	77.4	67.1	75.5	68.6

TABLE VII

ABSOLUTE MAXIMUM AND MINIMUM TEMPERATURES AT THE SAME FIVE STATIONS IN 1876.

1876.	Moka.				Plaines Wilhems.		Grand Port.		Savanne.	
	Lynwood.		Bonne Veine.		Dry Burn.		Midlands.		Colmar.	
Months.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min:
January	84.0	69.0	89.0	65.0	87.0	66.0	84.5	69.0	83.0	73.0
February	84:0	69 0	89.0	65.0	85.0	65.0	84.5	69.0	84.0	72.0
March	83.0	68.0	85.0	64.0	83.0	61.0	85.5	65.0	83.0	71.0
April	80 0	63.0	81.0	63.0	80 0	57.0	87.5	64 0	81.0	67.0
May	75.0	61.0	76.0	58.0	78.0	58.0	81.0	59.5	76.0	64.0
June	74.0	58.0	75.0	54.0	75.0	53.0	81.5	59.5	76.0	61.0
July	71.0	57 0	70.0	54.0	73 0	51 0	81.0	59.0	71.5	61.0
August	71.0	58.0	71.0	56.0	73 0	54.0	81 5	58.0	73.0	60.0
September	74.0	51.0	78.0	54.0	77 0	53.0	80.0	58.0	74.5	60.0
October	80 0	58·0	81.0	57.0	77.0	55.0	81.0	61.0	81.0	63.0
November	83.0	63.0	90.0	59.0	81.0	61.0	84.5	63.0	82.0	65.0
December	83.0	69.0	91.0	62.0	85.0	62.0	84.0	65.0	84.0	68.0
Means	78.5	62.0	81.3	59.2	79.5	58.0	83.0	62.5	79.1	65.4

TABLE VIII

COMPUTED MEAN HOURLY AND MONTHLY VELOCITY AND DIRECTION OF THE WIND IN 1876.

Hour.	January.		February.		March.		April.		May.		June.		July.		Hour.
	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	
1 A.M.	7.93	E 9° —39' S	8.01	E 18° —02' S	..	.....	8.74	E 27° —55' S	8.68	E 28° —11' S	9.18	E 28° —29' S	11.02	E 24° —51' S	1 A.M.
2 „	7.64	E 11 —01 S	7.43	E 21 —23 S	..	.....	8.27	E 27 —26 S	8.81	E 25 —42 S	9.53	E 28 —35 S	10.25	E 26 —17 S	2 „
3 „	7.46	E 12 —09 S	7.37	E 21 —25 S	..	.....	8.44	E 26 —05 S	8.53	E 27 —46 S	9.32	E 28 —31 S	9 85	E 25 —41 S	3 „
4 „	8.14	E 11 —50 S	8.43	E 26 —21 S	..	.....	8.18	E 26 —15 S	8.86	E 29 —01 S	9.44	E 28 —23 S	10.65	E 27 —27 S	4 „
5 „	7.54	E 13 —53 S	7.97	E 29 —43 S	..	.....	8.27	E 24 —07 S	8.34	E 28 —15 S	9.02	E 24 —17 S	10.78	E 29 —02 S	5 „
6 „	8.03	E 13 —24 S	8.51	E 28 —57 S	..	.....	9.64	E 24 —29 S	8.42	E 29 —22 S	10.21	E 29 —42 S	10.16	E 29 —01 S	6 „
7 „	9.30	E 13 —07 S	8.86	E 25 —59 S	..	.....	9.05	E 24 —45 S	8.46	E 26 —27 S	10.28	E 29 —12 S	10.64	E 29 —33 S	7 „
8 „	11.34	E 7 —36 S	11 71	E 23 —08 S	..	.....	11.21	E 19 —52 S	8.85	E 27 —36 S	11.67	E 22 —53 S	11.60	E 25 —28 S	8 „
9 „	12.93	E 1 —57 S	11.89	E 21 —34 S	..	.....	13.73	E 15 —20 S	13.28	E 21 —25 S	15.70	E 19 —02 S	15.06	E 20 —29 S	9 „
10 „	12.44	E 3 —08 N	11.37	E 21 —05 S	..	.....	14.89	E 14 —28 S	14.52	E 19 —13 S	16.60	E 15 —35 S	16.86	E 18 —30 S	10 „
11 „	12.96	E 6 —12 N	9.96	E 20 —05 S	..	.....	15.28	E 12 —26 S	16.17	E 14 —30 S	18 81	E 18 —11 S	19.74	E 16 —25 S	11 „
Noon..	13.01	E 4 —51 N	10.88	E 17 —46 S	..	.....	14.80	E 14 —02 S	15.83	E 18 —02 S	18.36	E 18 —33 S	19.12	E 18 —44 S	Noon.
1 P.M.	13.48	E 7 —30 N	10.24	E 18 —02 S	..	.....	15.59	E 11 —46 S	16.12	E 16 —30 S	17.82	E 16 —48 S	19.77	E 20 —44 S	1 P.M.
2 „	13.37	E 1 —12 N	9.21	E 19 —13 S	..	.....	15.66	E 11 —34 S	16.49	E 15 —11 S	17.41	E 19 —59 S	20.36	E 20 —21 S	2 „
3 „	13.24	E 2 —28 N	10.48	E 28 —37 S	..	.....	14.65	E 14 —33 S	14.98	E 17 —00 S	15.64	E 18 —18 S	18.77	E 21 —44 S	3 „
4 „	12.36	B 3 —12 S	10.81	E 25 —07 S	..	.....	13.76	E 15 —31 S	14.24	E 17 —22 S	15.09	E 21 —35 S	17 87	E 22 —03 S	4 „
5 „	11.66	E 8 —50 S	11.12	E 24 —47 S	..	.....	12.15	E 19 —52 S	11.67	E 23 —03 S	12.33	E 22 —33 S	15.59	E 23 —21 S	5 „
6 „	12.52	E 11 —31 S	10.46	E 26 —57 S	..	.....	9.48	E 18 —54 S	9.52	E 23 —04 S	10.28	E 26 —05 S	12.54	E 21 —22 S	6 „
7 „	9.86	E 13 —01 S	8.91	E 28 —16 S	..	.....	9.90	E 20 —46 S	9 00	E 25 —01 S	10.21	E 28 —07 S	11.61	E 23 —33 S	7 „
8 „	8.98	E 15 —22 S	9.60	E 26 —08 S	..	.....	9.28	E 23 —50 S	8.79	E 22 —36 S	9.47	E 27 —58 S	11.62	E 21 —33 S	8 „
9 „	8.98	E 9 —56 S	9 90	E 26 —55 S	..	.....	9 55	E 25 —38 S	8 84	E 21 —42 S	9.49	E 25 —19 S	11.43	E 21 —46 S	9 „
10 „	8.61	E 13 —46 S	9.93	E 23 —53 S	..	.....	9.51	E 24 —00 S	8.63	E 22 —38 S	9.12	E 29 —07 S	10.76	E 21 —19 S	10 „
11 „	8.13	E 10 —55 S	10.69	E 24 —36 S	..	.....	9.08	E 22 —20 S	7.80	F 24 —22 S	9.85	E 28 —26 S	11.24	E 24 —19 S	11 „
Mid...	8.31	E 10 —32 S	11.41	E 24 —53 S	..	.....	8.45	E 22 —19 S	8.03	E 24 —43 S	9.41	E 28 —58 S	11.20	E 23 —42 S	Midt.
Means.	10.26	E 5° —39' S	9.78	*E 23° —49' S	..	†	11.06	E 19° —06' S	10.92	E 21° —43' S	12.21	E 23° —09' S	13.66	E 22° —33' S	Means.

* Mean for 18 days.

† From 19th February until 25th March the vane of Anemometer was out of order,—having been broken in the gale on 19th February.

TABLE VIII—*Continued.*

COMPUTED MEAN HOURLY AND MONTHLY VELOCITY AND DIRECTION OF THE WIND IN 1876.

Hours	August.		September.		October.		November.		December.		Means.		Variation.		Hours
	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	—Below +above mean.	S=South of mean. N=North of mean.	
													Miles.		
1 A.M.	11·29	E 19° —01' S	9·70	E 20° —42' S	7·71	E 16° —35' S	6·92	E 17° —04' S	8·35	E 16° —38' S	8·82	E 20° —59' S	—2·34	S 6° —02'	1 A.M.
2 „	10 93	E 20 —37 S	10·11	E 22 —04 S	7·28	E 16 —01 S	6·79	E 21 —03 S	7·76	E 13 —20 S	8·58	E 21 —36 S	—2 58	S 6 —39	2 „
3 „	11·10	E 19 —15 S	10·14	E 21 —27 S	7·58	E 17 —01 S	7·07	E 19 —29 S	7·32	E 12 —42 S	8·53	E 21 —23 S	—2·63	S 6 —26	3 „
4 „	10·29	E 19 —07 S	9·93	E 22 —38 S	7·68	E 17 —44 S	6·83	E 18 —37 S	7·61	E 13 —41 S	8·69	E 22 —15 S	—2·47	S 7 —18	4 „
5 „	10·29	E 16 —40 S	10·08	E 24 —33 S	7·52	E 17 —44 S	6·98	E 15 —38 S	7·67	E 14 —53 S	8·54	E 22 —04 S	—2·62	S 7 —07	5 „
6 „	10·46	E 15 —18 S	10 06	E 23 —52 S	8·00	E 15 —04 S	7·19	E 14 —44 S	7·85	E 13 —20 S	8·81	E 21 —56 S	—2·35	S 6 —59	6 „
7 „	10·72	E 18 —33 S	10 65	E 19 —11 S	10 05	E 16 —28 S	9·96	E 12 —10 S	11·05	E 9 —10 S	9 84	E 20 —13 S	—1·32	S 5 —16	7 „
8 „	13·30	E 14 —06 S	14·41	E 20 —18 S	13·72	E 9 —01 S	12·01	E 1 —23 S	13·30	E 3 —32 S	11 96	E 15 —28 S	+0·80	S 0 —31	8 „
9 „	16·98	E 9 —17 S	15 88	E 13 —44 S	14·32	E 0 —24 N	10·96	E 3 —46 N	13·25	E 7 —04 N	13·78	E 10 —32 S	+2·62	N 4 —25	9 „
10 „	18·20	E 7 —06 S	16 25	E 7 —00 S	14·08	E 2 —07 S	10·31	E 6 —31 N	13·07	E 11 —39 N	14·18	E 8 —21 S	+3·02	N 6 —36	10 „
11 „	19.89	E 5 —55 S	17·68	E 10 —06 S	14·25	E 5 —14 N	10·38	E 9 —59 N	14·36	E 9 —42 N	15·15	E 7 —03 S	+3·99	N 7 —54	11 „
Noon.	18·09	E 5 —14 S	16·80	E 11 —07 S	14·40	E 6 —30 N	10·57	E 10 —05 N	13 47	E 13 —21 N	14 73	E 7 —27 S	+3·57	N 7 —30	Noon.
1 P.M.	18·76	E. 5 —45 S	16·68	E 8 —54 S	13.54	E 8 —04 N	10·17	E 15 —20 N	12 83	E 6 —40 N	14·69	E 7 —00 S	+3.53	N 7 —57	1 P.M.
2 „	19·94	E. 5 —28 S	17·13	E 13 —49 S	13·43	E 5 —10 N	9·88	E 12 —52 N	13·69	E 5 —32 N	14·88	E 8 —37 S	+3.72	N 6 —20	2 „
3 „	18·38	E 7 —51 S	14·90	E 15 —13 S	12·77	E 0 —35 N	9·23	E 4 —36 N	11·69	E 6 —23 N	13 81	E 10 —51 S	+2.65	N 4 —06	3 „
4 „	18·30	E 10 —33 S	15·09	E 19 —55 S	12·54	E 3 —01 S	9·45	E 4 —44 N	12·10	E 1 —11 S	13 61	E 13 —10 S	+2.45	N 1 —47	4 „
5 „	17·11	E 12 —52 S	15·57	E 19 —26 S	13·28	E 4 —32 S	9·63	E 0 —25 S	11 35	E 4 —36 S	12·74	E 15 —20 S	+1.58	S 0 —23	5 „
6 „	14·27	E 14 —49 S	12·50	E 19 —00 S	11·15	E 8 —46 S	9·23	E 5 —17 S	11·87	E 4 —50 S	11·16	E 16 —17 S	0.00	S 1 —20	6 „
7 „	12·48	E 17 —26 S	11·26	E 20 —26 S	9·07	E 11 —42 S	8·03	E 6 —09 S	9·08	E 6 —50 S	9·87	E 18 —37 S	—1.29	S 3 —40	7 „
8 „	11·96	E 15 —46 S	10·51	E 22 —15 S	8 96	E 13 —41 S	7·76	E 12 —07 S	8·34	E 10 —22 S	9·53	E 19 —30 S	—1.63	S 4 —33	8 „
9 „	11·69	E 14 —16 S	10·55	E 22 —55 S	8 53	E 13 —17 S	7·32	E 15 —08 S	8·56	E 8 —36 S	9·48	E 18 —58 S	—1.68	S 4 —01	9 „
10 „	11·63	E 13 —59 S	10·53	E 23 —06 S	8·69	E 14 —11 S	7·20	E 15 —13 S	8·31	E 8 —39 S	9·30	E 19 —20 S	—1.86	S 4 —23	10 „
11 „	11·43	E 16 —06 S	10·44	E 21 —14 S	8·74	E 14 —43 S	6·85	E 17 —19 S	8·61	E 9 —05 S	9·31	E 19 —43 S	—1.85	S 4 —46	11 „
Midnt	11·49	E 15 —05 S	9·77	E 20 —30 S	7·67	E 15 —07 S	6·57	E 14 —11 S	8·15	E 9 —11 S	9·08	E 19 —30 S	—2.08	S 4 —33	Midnt
Means	14·06	E 12° —14' S	12·72	E 17° —31' S	10·50	E 6° —24' S	8·45	E 3° —56' S	10·22	E 2° —18' S	11·16	E 14° —57' S	....	.....	Means

TABLE IX*

NUMBER OF TIMES WIND BLEW FROM

MONTHS.	North. 0.0 32.0	N. b. E. 1.0 1.5	N. N. E. 2.0 2.5	N. E. b. N. 3.0 3.5	N. E. 4.0 4.5	N. E. b. E. 5.0 5.5	E. N. E. 6.0 6.5	E. b. N. 7.0 7.5	East. 8.0 8.5	E. b. S. 9.0 9.5	E. S. E. 10.0 10.5	S. E. b. E. 11.0 11.5	S. E. 12.0 12.5	S. E. b. S. 13.0 13.5	S. S. E. 14.0 14.5	S. b. E. 15.0 15.5	South. 16.0 16.5	S. b. W. 17.0 17.5	S. S. W. 18.0 18.5	S. W. b. S. 19.0 19.5	S. W. 20.0 20.5	S. W. b. W. 21.0 21.5	W. S. W. 22.0 22.5	W. b. S. 23.0 23.5	West. 24.0 24.5	W. b. N. 25.0 25.5	W. N. W. 26.0 26.5	N. W. b. W. 27.0 27.5	N. W. 28.0 28.5	N. W. b. W. 29.0 29.5	N. N. W. 30.0 30.5	N. b. W. 31.0 31.5	Calms.	Totals.	MONTHS.
January	5	....	1	10	5	22	62	99	153	212	70	18	13	11	18	8	6	3	....	5	5	9	3	1	....	1	1	....	....	....	2	1	....	744	January
February (18 days)	2	....	....	....	1	1	9	24	50	125	82	39	11	14	13	7	5	....	2	9	5	4	5	3	6	4	1	....	1	....	1	....	1	425	February 18 days
March (5½ days)	1	....	1	....	....	1	6	23	9	41	32	13	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	131	March 5½ days
April	1	3	....	3	2	3	11	34	115	145	159	115	49	28	14	1	1	2	1	8	....	8	....	1	3	2	2	....	1	2	3	3	....	720	April
May	....	....	....	....	....	....	17	64	59	107	289	166	21	13	....	2	....	1	....	....	....	....	1	2	1	....	....	....	....	....	....	....	....	743	May
June	2	2	....	....	4	9	7	25	38	144	283	120	53	9	3	6	1	2	1	3	....	1	1	3	1	1	....	....	....	....	....	1	....	720	June
July	....	....	....	....	....	....	6	20	51	152	318	146	45	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	744	July
August	2	....	....	4	10	5	12	54	143	204	200	70	15	2	1	3	10	....	....	....	....	....	1	....	....	....	5	....	....	1	1	1	....	744	August
September	1	....	....	1	2	2	10	27	77	172	304	66	2	14	1	....	....	1	2	2	1	3	3	6	3	4	....	....	....	....	....	....	....	704	September
October	8	7	15	18	16	28	56	59	108	136	116	83	28	2	....	6	....	2	2	1	1	11	3	21	3	3	3	3	2	1	....	2	....	744	October
November	16	3	5	7	57	31	59	92	58	82	117	76	47	6	....	....	....	....	3	1	1	4	10	24	5	2	7	2	....	2	....	3	....	720	November
December	1	7	4	9	8	26	81	139	137	97	98	48	5	4	14	3	1	1	2	17	3	4	6	3	8	8	3	1	....	1	2	3	....	744	December
Totals	39	22	26	52	105	128	336	660	998	1618	2068	960	292	109	64	36	24	12	13	46	16	44	33	64	30	25	22	6	4	7	9	15	1	7883	Totals
Percentages	0.49	0.28	0.33	0.66	1.33	1.62	4.26	8.37	12.66	20.52	26.23	12.18	3.70	1.39	0.84	0.46	0.30	0.15	0.16	0.59	0.20	0.56	0.42	0.84	0.38	0.32	0.28	0.01	0.00	0.01	0.01	0.19	0.00	....	Percentages

* This Table has been compiled from hourly tabulations of the anemograms, taking 32 points and giving the number of times the wind came from an arc of 5° 37′ in advance of each point.

TABLE X.—SHOWING THE AMOUNT OF RAINFALL AND THE NUMBER OF DAYS ON

MONTHS.	Flacq.										Rivière du Rempart.	
	Riche Mare.	D. Durup.	Rigny.	Dr. Lejuge.	La Gaiete.	F. Margeot.	St. Julien	Rev. J. Stuart.	The Orchard.	Dr. Stone.	Labourdonnais.	H. Wiehé.
	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days
January	10.50	24	19.20	27	12.87	13	13.30	25	....	..	17.99	18
February	7.39	22	14.23	23	12.56	16	5.90	26	8.47	19	12.33	16
March	7.88	19	13.95	21	12.60	10	12.91	22	8.94	20	4.92	10
April	6.32	18	12.81	20	8.27	12	10.42	18	6.02	15	9.27	8
May	4.13	20	6.74	26	6.69	11	4.98	22	4.50	21	5.44	15
June	3.14	20	4.53	22	3.54	8	3.83	26	3.38	21	3.50	15
July	2.16	24	4.46	27	2.95	14	4.00	28	3.23	26	2.80	18
August	2.16	19	3.87	23	1.69	9	3.12	19	2.28	18	2.42	13
September	1.33	10	3.16	16	2.09	6	2.68	18	1.03	8	2.08	9
October	2.29	14	5.81	20	2.76	6	4.12	20	2.33	16	3.32	6
November	0.50	7	1.82	12	0.39	1	1.67	16	0.73	10	0.76	4
December	3.91	15	7.01	18	4.72	6	5.22	22	4.03	18	5.77	10
Fall in 1876	51.71	212	97.59	255	71.13	112	72.15	262	....	..	70.60	142
Fall in 1875	52.62	224	99.44	268	78.64	138	....	..	....	..	76.00	138
Fall in 1874	75.97	215	102.16	288	128.26	177	....	..	....	..	64.48	105
Fall in 1873	64.85	184	100.22	297	....	..	....	..	....	..	70.04	120
Fall in 1872	58.40	231	....	..	....	..	....	..	....	..	44.20	98
Fall in 1871	61.88	209	....	..	86.64	154	....	..	...	..	50.52	102
Fall in 1870	....	..	....	..	84.88	150	....	..	....	..	59 06	116
Fall in 1869	....	..	....	..	82.79	170	....	..	....	..	63.73	109
Fall in 1868	....	..	....	..	99.66	228	....	..	....	..	70.46	119
Fall in 1867	....	..	....	..	76.13	204	....	..	....	..	56.99	125
Fall in 1866	....	..	....	..	57.77	173	....	..	....	..	50.29	108
Fall in 1865	....	..	....	..	97.55	174	....	..	....	..	87.63	150
Fall in 1864	....	..	....	..	....	..	....	..	....	..	57.25	121
Fall in 1863	....	..	....	..	....	..	....	..	....	..	70.72	129
Fall in 1862	....	..	....	..	....	..	....	..	....	..	52.23	..
Means	60.90	212	99.85	277	86.34	168	....	..	....	..	62.95	120

WHICH RAIN FELL, AT VARIOUS STATIONS IN MAURITIUS, DURING THE YEAR 1876.

Pamplemousses.						Moka.									
St André. G. Couve.		Observatory. C. Meldrum.		Bot. Gardens. J. Horne.		Espérance. R. Telfair.		Bonne Veine. W. Mackintosh		Gentilly. J. H. Finniss.		Alma. E. Régnard		Lynnwood. W.H.B. Wilson	
Inches.	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days
7.95	17	10.81	19	12.05	17	20.63	30	17.70	19	19.23	18	24.49	21	15.32	22
7.09	19	7.88	18	10.46	14	18.42	28	25.02	22	15.18	14	24.98	21	16.11	19
4.79	17	4.80	17	4.98	13	14.80	28	11.76	18	9.28	15	12.57	20	7.16	19
3.55	13	5.48	18	5.96	17	7.98	26	8.13	25	4.40	16	8.35	22	3.23	17
2.62	23	2.43	18	3.00	21	5.65	25	6.29	27	3 53	18	5.55	21	2.93	18
1.20	15	1.31	18	2.09	13	5.36	27	7.36	25	3.47	20	6 89	25	2.10	13
1.63	23	1.49	25	2.46	22	6.22	31	7.93	31	4.06	23	7.90	31	3.44	21
0.92	19	1.67	23	2.26	15	4.60	31	5.04	26	3.07	25	5.18	26	2.88	25
0.54	7	0.51	10	1.01	6	3.12	22	2.91	12	1.34	8	3.43	18	0.99	11
2.29	11	2.65	12	2.53	10	4.82	27	3.79	19	5.97	14	8.51	18	3.99	11
0.44	6	0.66	4	0.60	5	2.39	14	1.36	6	3.65	11	1.29	7	2.09	8
3.42	12	2.18	16	2.83	14	4.31	19	6.74	17	2.66	9	7.28	17	2.12	10
36.44	182	41.87	198	50.23	167	98.30	308	104.03	247	75.84	191	116.42	247	62.36	194
46.43	160	49.98	212	56.05	186	109.50	293	104.42	216	76.05	183	....	..	....	..
55.39	138	64.82	216	73.77	180	139.08	311	118.38	181	92.52	192	167.12	256	....	..
56.87	133	75.54	219	81.39	164	124.75	293	121.06	224	....	..	134.46	245	....	..
38.76	133	47.76	202	53 99	169	115.99	313	119.34	235	....	..	124.91	257	....	..
....	..	42.62	182	55.57	155	117.33	293	120.83	246	63.28	194	....	..	44.72	158
....	..	45.57	143	66.89	159	109.06	295	113.09	260	68.15	180	....	..	50.64	170
....	...	54.57	121	61.85	117	113.99	258	118.93	254	75.38	154	....	..	61.39	168
....	..	64.18	138	91.21	102	130.15	256	....	..	123.09	206	....	..	115.32	..
42.39	142	35.97	117	....	..	99.94	301	....	..	73.67	181	....	..	60.82	..
40.81	132	20.74	117	....	..	88.02	306	....	..	....	..	....	..	40.68	..
60 95	173	44.74	154	85 37	118	147.74	320	....	..	....	..	....	..	79.44	..
42.65	157	24.15	138	51.56	111	....	..	....	..	....	..	....	..	56.61	..
64.27	197	33.42	147	....	..	....	..	....	..	....	..	....	..	....	..
41.84	..	28.40	123	....	..	....	..	....	..	....	..	....	..	....	..
47.89	155	44 96	162	66.17	148	116.15	296	115.05	233	81.00	185	135.73	251	63.55	172

X

TABLE X.—SHOWING THE AMOUNT OF RAINFALL AND THE NUMBER OF DAYS ON

MONTHS.	Plaines Wilhems.													
	Beau Séjour.	Hon. R. Stein.	Trianon.	A. Régnard.	Westra.	H. Wilson.	Dry Burn.	A. J. W. Arnott	Highlands.	W. Mackintosh.	Gros Bois.	R. Lemerle.	Beau Vallon.	A. de Rochecouste.
	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days
January	14.90	20	16.75	16	14.41	16	15.08	18	17.20	19	17.93	25	11.78	26
February	14.76	20	16.56	15	15.45	19	12.95	23	9.65	14	7.59	20	7.07	14
March	5.98	20	7.49	18	6 78	17	5.19	18	8.93	18	9.02	18	6.67	16
April	2.54	19	2.45	10	2.69	13	1 96	20	3.50	16	5.37	21	3.72	16
May	1.99	19	2.63	13	3.28	16	2.22	19	4.08	17	6.18	21	5.63	19
June	2.20	21	2.39	19	4.27	20	2 95	23	5.60	27	6.40	22	3.31	20
July	2.88	25	3.14	27	4.51	28	3.20	29	4.85	26	3.29	24	2.12	22
August	1.78	23	2.21	21	4·46	..	3 27	27	3.94	27	4.17	25	1.49	19
September	0.77	10	0.88	9	1.95	..	1.35	16	1.81	14	2.61	12	0.94	13
October	5.51	12	4.56	11	6.20	..	5.03	16	8.04	15	3.70	19	1·67	12
November	2.00	7	1.58	4	0.73	..	1.06	10	0.58	4	1.70	15	0.25	18
December	2.98	11	3.45	8	4.95	..	4.20	14	5.17	11	6.49	13	6.25	18
Fall in 1876	58.29	207	64.09	171	69.68	..	58.46	233	73.35	208	74.45	241	50.90	213
Fall in 1875	60.92	191	66.63	153	73.81	204	59.05	168	78.72	184	110.78	227	67.64	226
Fall in 1874	110.36	201	102.41	..	103.89	175	88.16	199	122.20	182	120.26	253	71.86	205
Fall in 1873	82.89	199	84.49	180	80.73	200	..	..	..	..	98 09	229	65.27	197
Fall in 1872	62.68	184	62.70	181	73.16	197	..	..	..	..	90.08	228	53.99	201
Fall in 1871	45.97	179	..	..	67.82	191	..	..	..	..	99.25	214	58.38	208
Fall in 1870	54.49	192	..	..	80.85	215	..	..	..	..	102.40	229	68.64	216
Fall in 1869	67.58	180	..	..	80.67	213	..	..	..	..	94.58	212	69.94	233
Fall in 1868	95.65	..	..	..	122.36	215	..	..	..	..	137.29	251	81.60	248
Fall in 1867	65.50	..	60.16	...	81.34	195	..	..	..	..	83.59	215	61.05	233
Fall in 1866	44.55	..	43.24	150	..	..	..	..	..	..	70 24	255	51.05	233
Fall in 1865	87 11	..	81.19	152	..	..	..	..	..	..	135.21	259	100.84	242
Fall in 1864	54.60	..	48.58	149	..	..	..	..	..	..	83.36	230	..	..
Fall in 1863	99.76	193	80.66	182	..	..	..	..	..	..	..	..	..	..
Fall in 1862	69.07	..	..	..	..	..	..	..	..	..	..	.	..	..
Means	70.63	192	69.41	165	83.43	201	68.56	200	91.42	191	99.97	234	66.76	221

WHICH RAIN FELL, AT VARIOUS STATIONS IN MAURITIUS, DURING THE YEAR 1876.

Grand Port.						Savanne.									
Joli Bois. C. Vallet.		Midlands. Hon. E. Icery.		Cluny.		Colmar. A. Hirth.		L'Union. J. Lemaire.		St. Aubin. Hon. H. Pitot.		Fontenelle. J. Mallet.		Bel Air. J. Anderson.	
Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
20.07	18	25.97	24	....	..	19.25	22	25.17	15	21.13	20	19 17	22	....	..
10.18	12	17.17	19	....	..	8.03	20	8.45	7	6.53	18	7.52	14	....	..
11.39	11	13.78	19	....	..	9.61	17	5.27	6	6.14	14	5.37	8	....	..
6.47	16	10.96	17	....	..	4.65	16	2.21	7	4 19	17	3.55	12	....	..
6.70	11	9.74	22	....	..	5.34	18	5.17	9	6.62	15	6.26	16	5.38	15
13.00	18	8.61	25	10.78	28	5.75	17	2.95	6	3.65	24	3.60	20	2.99	19
5.82	22	8.35	26	10.05	25	3.22	21	5.23	23	2.45	22	2.81	22	2.23	22
5.13	13	9.26	22	8.64	19	3.21	19	4.04	16	2.29	19	2.78	22	1.84	20
3.85	5	5.99	12	7.02	11	2.57	12	3.14	9	2.77	9	3.14	12	2.04	13
4.47	12	8.33	19	11.93	20	3.32	19	3.15	4	2.77	13	3.43	19	1.64	18
2.42	4	1.20	7	3.50	6	3.60	12	3.83	5	2.96	10	4.21	11	1.15	16
8.24	18	10.10	19	16.88	18	6.37	17	2.74	5	6.42	15	5.37	19	4.30	21
97.74	160	129.46	231	....	..	74.92	210	71.35	112	67.92	196	67.21	197	....	..
122.31	173	131.56	230	....	..	109.90	201	86.03	135	83.94	220	85.84	190	....	..
134.93	201	185.25	231	177.59	..	99.74	219	94.31	110	88.68	215	93 16	180	....	..
119.91	225	165.09	244	171.32	264	96.15	202	90.56	130	89.08	205	86.03	163	....	..
100.55	251	....	..	146.83	288	83.71	219	78.62	144	76.10	230	....	..	....	..
105.01	270	....	..	133.71	279	89.39	241	70.30	122	82.02	225	....	..	....	..
....	..	....	..	160.43	273	94.13	233	76.25	149	82.39	226	....	..	....	..
....	..	....	..	129.37	289	88.91	214	58.34	117	76.66	234	....	..	....	..
....	..	....	..	183.74	292	125.58	236	....	..	112.12	260	....	..	....	..
....	..	....	..	141.05	268	....	..	....	..	71.66	229	....	..	....	..
....	..	....	..	129.02	280	....	..	....	..	70.51	245	....	..	....	..
....	..	....	..	192.45	292	....	..	....	..	115.60	251	....	..	....	..
....	..	....	..	122.48	288	....	..	....	..	....	..	....	..	....	..
....	..	....	..	147.09	273	....	..	....	..	....	..	....	..	....	..
....	..	....	..	122.54	..	....	..	....	..	....	..	....	..	....	..
113.41	213	152.84	234	150.59	281	95.83	219	78.22	127	84.72	228	83.06	182	....	..

TABLE

GIVING APPROXIMATELY THE DATES, LOCALITIES, &c., OF GALES AND

Date.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels, &c., by which experienced.	Wind. Direction.	Max. Force
1876							Beaufort.
January.							
4	....	33°17' S.	....	32°56'E	Mary Hicks	S. W.	9
5—13 ..	17°31' S.	20°45' „	57°30'E	61°17' „	Jules Rose, Zélie, Nevada, Traite-d'Union, Espérance, Mary Hicks.	S. E., S., W., N., S. E.	11
12—15 ..	19°40' „	21°21' „	65°13' „	67°50' „	Silas Curtis, Ophir	E.S.E., N N.W., W. b. N.	10
14—16 ..	34°47' „	43°11' „	17°08' „	28°00' „	Ocean Ranger, Royal Alexandra.	S.S E., W.S.W.....	9
15—16 ..	38°14' „	40°01' „	130°29' „	129°54' „	St. Marc.....	W.N.W.....	8
21	....	7°43' „	....	78°56' „	Maori	W., N.W.	9
22	....	40°48' „	....	101°51' „	Glen Albyn	W.	9
25&29 ..	15°50' „	10°40' „	53°48' „	49°14' „	Diamant	N.E., E., N.W	..
February.							
2	29°31' S.	33°03' S	79°38'E	110°17'E.	Mathilde, Royal Alexandra.	N.W., W., E. b. S..	9
4	44°20' „	....	120°19' „	....	Garmouth	N.	9
4— 6 ..	28°38' „	37°11' „	18°53' „	58°13' „	Divatte, Banfield, Espiègle, Actœa, Eleanor Miller, Helen.	S.S.E. to E.N.E. & S.W.	9
9—10 ..	34°47' „	39°08' „	43°12' „	47°21' „	Banfield, Actœa	S S E., E. b S.	9
15—21 ..	17°29' „	37°30' „	52°33' „	61°10' „	Actœa, Rio, St. Marc, Emily, Briton, Chocola, Général Chanzy, Pie IX, Cumberland Lassie.	S.S.E. to N.E. & N. to S.W.	10
17	....	5°34' „	....	83°54' „	Taitsing	W. b. S.	..
15—17 ..	34°48' „	33°30' „	27°34' „	27°13' „	Espiègle	S.E., S., N.W.	11
24—29 ..	13°29' „	35°28' „	42°48' „	58°48' „	Ada, Tullochgorum, Pioneer, Banfield.	S.S.E., E., N , W..	9
23—25 ..	9°44' „	8°57' „	87°50' „	84°46' „	Trois Frères	W.N W. to W.	8
27—29 ..	42°15' „	41°16' „	2°39' „	12°32' „	Condor	W.N.W. & N W. ..	8
28—1 Mch.	....	23°45' „	....	68°15' „	Chalgrove, New Republic.	N. E., E. N. E., S., W.S.W.	11
March.							
10—18 ..	26°23' S.	42°45' S.	24°20'E.	53°20'E	St. Anne, Condor, Emilia, Marie Célina.	N., N.W., S.W., S S E, E. b S.	9
10—13 ..	42°45' „	42°40' „	126°42' „	....	Bothwell Castle.....	.....	..
15 & 20 ..	41°02' „	44°17' „	90°40' „	95°33' „	Helen, Conference.....	E.N.E., N N E, N. W., S.S.W., S.E.	10
23—27 ..	34°23' „	37°22' „	17°31' „	17°10' „	Wild Wave	S E., S.W., S E...	10
31	....	38°57' „	....	13°40' „	Frenchry	E.	9
April.							
Mch.31—4	32°23' S.	37°57' S	26°40'E	32°27'E.	Wild Wave, Illovo	S. to N E.	10
4— 5 ..	36°19' „	35°59' „	125°49' „	125°50' „	Madeleine	S W., S.S.W	10
12—14 ..	32°32' „	45°05' „	106°25' „	115°13' „	Madeleine, Beautiful Star, Lass of Gawler.	N.N.W. to S.W....	9
19	....	38°20' „	....	24°47' „	Trazu	E.	9
20—22 ..	27°34' „	21°58' „	60°15' „	58°14' „	Albeona, Frenchry	S.S.W. & S.E.	9
25—27 ..	27°06' „	24°43' „	103°37' „	96°45' „	Lass of Gawler	S.E.	9

XI

HURRICANES EXPERIENCED IN THE INDIAN OCEAN IN 1876.

Barometer Readings.		Remarks.	Mean Bar: at Mauritius reduced to sea-level.		Mean Temp. of air at Mauritius		Wind at Mauritius.	
From	To		From	To	From	To	Direction.	Max. Force.
Inches.	Inches.		Inches.	Inches.	Deg.	Deg.		Beaufort.
..	..	.....	29.980	....	80.7	..	E.	5.0
29.95	29.05	Mer terrible, ouragan, pluie torrentielle.	29.948	29.584	81.6	78.7	E. by S.	6.0
29.50	29.74	Heavy gale, little rain, cross sea.	29.584	29.825	80.8	78.7	S.W. to E.	5.0
..	..	.....	29.715	29·903	80 0	81.2	S.S.E., N., S.W., S.E.	4.0
757.0	752.5	Mer très grosse	29.825	29.903	80.7	81.2	S.E. to N.E.	4 5
..	..	Violent squalls	29.855	....	80 1	..	E. to N.E.	4.0
..	..	.....	29.844	...	80.3	..	E. to N.E.	4.0
..	..	Stiff gale	29.874	29.917	79.8	80.8	Easterly	4.0
..	..	Heavy gale	29.857	....	77.9	..	E. by S.	4.0
..	..	.....	29.781	....	79.4	..	S.S E. to S.W.	4.5
..	..	Mer très grosse, tremendous gale	29.781	29.936	79.4	75.9	Westerly	4.5
..	..	Heavy gusts	29 982	30.003	78.4	80.2	East	4.5
29.50	30.11	Two gales. Sea very high, blowing terrifically, confused sea.	29.488	29.930	81.4	77.4	E N.E. to S.S.E.	10.0
..	..	Furious squalls	29.893	.....	80.2	..	E. to E.S.E.	4.0
..	..	Terrific gale with thunder and lightning and heavy rain.	29.877	29.911	79.3	81.4	Easterly	4.0
..	..	Strong gales—fearful sea	29.811	29.560	80.2	77.9	E.S.E. to S.E. & S.W.	8.5
..	..	Rafales, mer très grosse	29.840	....	78.9	80.2	S.E. to E.S.E.	6.0
..	..	Grains très forts	29.569	29.767	79.5	77.9	S.S.E. to W.	6.0
29.20	28.30	Severe hurricane; sea in pyramids.	29.649	29.846	80.1	75.8	W.S.W. to N.	5.0
760.0	752.6	Mer très grosse, tempête	29.920	30.128	76.6	78.8	S.E. to E.S.E. & W..	6.0
..	..	Heavy gale: hurricane in squalls	29.920	30.000	78.1	76.6	S.E. to W.	3.5
..	..	Severe gale	30.128	30.035	78.8	77.5	S.E. to E.	6.0
..	..	Heavy gale	29.985	30.021	78.4	75.7	E. to S.E.	4.5
..	..	.....	29.991	....	78.6	..	E.S.E.	4.0
..	..	.....	29 937	30.060	76.4	79.4	S.S.E., E. & N.	4.5
..	..	.....	30 060	30.062	78.8	79.2	East	4.5
29.90	29 74	Heavy gale, terrific squalls	30.008	29.890	77.0	75.6	N.E, E., S.W.	4.5
..	..	Hard gale	30 035	....	76.1	..	S.E.	4.0
..	...	.....	30.046	30.034	76.3	74.1	S.E. to E.	5.0
..	..	.....	30.112	30.028	77.5	75.5	E. to S.E. & S.W....	4.5

TABLE

GIVING APPROXIMATELY THE DATES, LOCALITIES, &c., OF GALES AND

Date.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels, &c., by which experienced.	Wind. Direction.	Max. Force
1876							Beaufort.
May.							
6— 8 ..	11°25' S.	12°56' S.	80°37'E.	81°32'E	Glenroy, Trois Frères	N.W. to S.W.	9
12—15 ..	27°28' „	41°24' „	42°53' „	71°58' „	Actœa, Bessie	E.S E, W.S.W....	9
17—21 ..	27°55' „	35°58' „	104°28' „	112°56' „	Glen Albyn, Helen	N.E., W, N.W....	9
25—27 ..	36°20' „	37°40' „	29°54' „	33°45' „	Mathilde, Isabella Blyth ..	N.W.	8
26	....	38°40' „	....	13°50' „	Annie Florence.....	N.W. to W.	9
27—30 ..		Tamatave Harbour			Zélie	S W. to S.S.E.	9
28	....	38°17' S.	....	117°36'E.	Hannah Nicholson	S.W.	8
June.							
4— 6 ...	33°55' S	38°56' S.	106°10'E.	129°42'E	Pioneer, Lile, Trazu.....	N.E., N.W., S W	10
4— 7 ..	37°31' „	35°04' „	43°35' „	53°17' „	Annie Florence	W.N.W. to N.N.W.	9
9—16 ..	15°46' „	18°28' S.	40°58' „	49°51' „	Eleanor Miller, Africa	S.S.W.	9
11—13 ..	36°35' „	39°03' „	115°00' „	123°37' „	Greyhound, Pioneer	N., N.W, W.	10
11—14 ..	37°56' „	36°31' „	40°31' „	55°37' „	Grecian	N E, N W., W....	9
15—17 ..	34°42' „	41°58' „	92°43'''	117°40' „	Bothwell Castle, Greyhound, Lile.	N.W., W., S.W....	9
19—23 ..	15°02' „	18°43' S.	79°01'''	64°26' „	Warren Hastings	E., E.S E.	8
23—24 ..	33°27' „	34°39' „	29°15'''	13°03' „	Albion, Eleanor Miller....	W.N.W., S W. ...	9
25	....	34°28' „	....	113°32' „	Pioneer	S.W., S S W.....	10
27—28 ..	....	30°41' „	....	43°13' „	Garmouth	E.N.E.,N.E.,N.N.W.	9
July.							
June 30—6	33°13' S.	39°42' S.	3°21'E.	28°18'E.	Cheviot, Eleanor Miller, Sarah Dreyfus, Gauloise, Zulie.	N.W. to W.	10
2—13 ..	18°25'N.	9°10'N.	87°58' „	87°44' „	Verena Collet	S.W., W.	8
6	29°44' S.	....	39°01' „	....	Helen	S.W.	8
10—24 ..	42°11' „	35°12' S.	14°31' „	22°24' „	Christina, Helen, Robina..	N.N.E, N.W., S.W., S.S.E.	9
10—14 ..	38°17' „	41°41' S	94°35' „	108°21' „	Aline	E N.E., N.W., S E.	9
19—25 ..	19°20'N.	17°33'N.	80°30' „	90°37' „	Shah Jehan, Canada, Glenroy.	S.S.W. to W.S.W., N.W.	9
23—25 ..	40°09' S.	34°00' S.	26°00' „	39°20' „	Fanny, St Brycedale.....	N.N.E., S.W.	9
28	40°05' „	....	123°26' „	....	James Service	S.W.	..
29—2 Aug.	40°43' „	36°39' S.	7°32' „	19°50' „	Octavie, Sempiternel, Suzon, Julie.	S.S W, W.S.W., N. W.	10
August.							
2— 5 ..	39°07' S.	35°13' S.	116°13'E.	121°06'E	James Service, E. J. Spence	S.E., N E., N.W., W.S.W.	10
6—12 ..	38°49' „	30°30' S.	19°01' „	29°46' „	Suzon, Farningham, Russel	S., S.S.W., W.S.W.	10
12	19°15'N.	....	87°53' „	....	Gainsborough	S W.	8
13—21 ..	26°28' S.	41°00' S.	18°07' „	58°06' „	Octavie, Illovo, Belle Alliance, Jacques Cœur, &c.	N N.E., N.W., S.W., S S.W, S.E.	11
19—20 ..	19°17' „	19°37' S.	83°41' „	79°11' „	James Service	E.S.E.	8
22—23 ..	35°38' „	....	119°50' „	....	Oceania	N.N.W. & S.W. .	9
22—29 ..	36°33' „	38°12' S.	00°43' „	19°42' „	Caledonian, George Croshaw	N.E, N.W, W.S.W.	9
28—31 ..	33°45' „	33°23' S.	45°40' „	51°35' „	Wodan	N.E., S.W.....	9
30—31 ..	37°10' „	....	113°30' „	....	Lady St. Aubin.....	N.W., S.W.	...

XI

HURRICANES EXPERIENCED IN THE INDIAN OCEAN IN 1876.

Barometer Readings.		Remarks.	Mean Bar: at Mauritius reduced to sea-level.		Mean Temp. of air at Mauritius		Wind at Mauritius.	
From	To		From	To	From	To	Direction.	Max. Force.
Inches	Inches.		Inches.	Inches.	Deg.	Deg		Beaufort.
..	..	Coup de vent, tremendous squalls	30.016	30.138	73.2	72.5	E.N.E to S.E. & W..	5.0
..	..	Heavy gale	30.150	30.249	73.2	71.4	E to S E.	5.5
30.16	29.70	Terrific squalls, tremendous sea	30.188	30.138	70.8	72.8	E. to S E.	4.5
..	..	.....	30.165	30.202	72.0	72.8	E. to E S.E.	4.0
..	..	.....	30 195	..	72.8	..	E.S.E	4.0
..	..	Grains violents, mer grosse	30.202	30.174	72.8	74.7	S.E. to E.	4.5
..	..	....	30.189	....	74.7	..	E S.E.....	4 5
..	..	Dreadful sea, hard gale.....	30.091	30.117	72.8	73.3	E.S.E to E & S W..	4.5
..	..	.....	30.117	30.063	73.3	72.1	E S.E. to E.N.E & S. W.	4.5
..	..	Heavy gale, mer grosse	30.002	30.316	72.0	66.7	E. to S.E.	6.5
..	29.60	Furious gale, tremendous sea ..	30.244	30.166	66.7	69.8	E S.E.	5.0
29.84	30.14	.....	30 244	30.166	66 7	69.8	E S.E.	5.0
..	..	Heavy gale	30.278	30.336	67.5	69.2	E.S.E.	6.0
..	..	....	30.351	30.258	68.9	70.5	E. to E.S.E.	5.5
..	..	Heavy gale	30.273	30.266	70.5	70.9	E S.E. to E.	5.0
..	..	....	30.275	....	69.8	..	E S E.	5.0
..	..	Furious gale, tremendous squalls	30.285	30.265	68.9	68.0	E.S.E. to E.....	5.0
29.95	30.35	Hurricane, violent squalls	30.237	30.169	68.0	69.3	E. to S.E.	5.0
..	..	Temps orageux, mer très grosse	30.169	30.314	69.5	67.1	E. to S.E.	5.5
..	..	.....	30.185	....	69.2	..	E.S.E	4.5
29.60	29 75	Fresh breezes and strong gale ..	30.323	30.225	67.0	69.5	E N.E. to S.E.	6.0
..	..	Terrific squalls	30.284	30.323	68.3	67.0	E S.E.....	5.5
29.90	29.65	Very heavy gale and sea	30.225	30.328	67.5	69.5	E.N.E. to S E.	6.0
776. 2	777. 1	La mer furieuse	30.253	30.328	67 9	67.6	S.E. to E.	6.0
30.18	..	Furious gale, heavy sea	30.259	....	68.1	..	E S.E.	5.0
762. 2	..	Coup de vent, pluie torrentielle	30.258	30.173	66.6	68.6	E S.E. & W.	5.0
29.80	29.67	.....	30.198	30.253	66.9	68.3	E. to E.S.E.....	5.0
..	..	Tremendous squalls	30.297	30.160	67.7	69.1	E. to E.S E & W N.W.	5.5
..	..	Gale	30 160	...	69 1	..	E S.E & W.N.W....	3.0
760. 0	..	Coup de vent, terrific squalls ..	30.096	30.294	72 5	68.7	Variable and E.....	5.5
..	..	.....	30.271	30.241	70.8	68.7	E.S.E. to E N E	5.0
..	..	.....	30.269	30.297	70.7	68 3	E. to E S.E	5.0
..	..	.....	30.307	30 178	70.7	68.3	E.S E. to E	6.0
..	..	Heavy gale	30.218	30.288	70 0	70.8	E.S E. to E N.E.	6.0
..	..	Sea tremendous.....	30.288	30.279	70.4	70 8	E.N.E. to E S.E.	5.5

TABLE

GIVING APPROXIMATELY THE DATES, LOCALITIES, &c., OF GALES AND

Date.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels, &c., by which experienced.	Wind. Direction.	Max. Force
1876							Beaufort.
September							
4— 6 ..	40°00' S.	39°37' S.	96°09' E.	103°51'E.	Summer Morn	N.W.	9
5	17°14' „	....	....	59°21' „	Lile.....	S S E.	9
6—11 ..	39°00' „	39°06' „	16°00' „	30°06' „	Henriette, George Croshaw	S , S.E., E.N.E., N. W.S.W.	9
11—16 ..	33°09' „	36°51' „	31°47' „	33°12' „	Farningham	E.S E., N.E.	9
13—14 ..	1°39' „	4°13'N.	90°05' „	91°10' „	Allum Ghier, Centeure ..	W. to S.W.....	9
15—23 ..	36°36' „	39°21' S	0°30' „	27°54' „	Alice Mary, Esmeralda, Kaffir, Cape Race, Henriette.	N.W. to S.W.	9
21—26 ..	34°36' „	40°17' „	35°20' „	53°45' „	Caledonian, Dunloe, Marbehan.	E.N E ,N.E.,N.W., W.	10
October							
Sept 30—2	32°59' S.	36°07' S.	38°24' E.	52°54'E	Breiz Izel, Parejero	S.W., S.S.E., E.S.E., N.E.	9
2— 3 ..	12°13' „	10°08' „	62°44' „	63°36' „	Warren Hastings	S.E., E.S.E.	9
5— 7 ..	16°22'N	17°02'N	87°19' „	87°07' „	Barentin.....	N.E. to N.N.W., W., S.	10
12—16 ..	34°44' S	40°07' S.	20°02' „	38°25' „	Pioneer, Eleanor, Salus, Ensign.	N.W. to S.W.	9
15—25 ..	23°51' „	39°56' „	41°30' „	54°24' „	Retriever, Parana, Oregan, Huntly Castle.	N., W., S.W., S. ..	10
21—24 ..	33°09' „	36°13' „	10°26' „	13°57' „	Mozambique, Cancardia ..	S., S.E.	9
22—23 ..	30°00' „	....	31°47' „	....	Illovo	E.S.E., S.E , S.W..	9
31	19°50'N.	....	88°20' „	....	Scottish Chieftain.....	N. E., N., N. W. ..	12
November							
Oct 31—2	40°48' S.	31°25' S	25°10' E.	32°30'E.	Balcarry, Retriever ...	S.E , S. by W.	10
10—16 ..	28°32' „	39°57' „	16°00' „	52°25' „	Olive, Fleetwood, Oleander, Julia, &c.	S.S.E , E.S.E., W.N. W., W S.W.	10
17—18 ..	9°56' „	9°39' „	57°14' „	56°57' „	Success	S S.W., W	9
25—1 Dec.	12°10' „	39°48' „	82°57' „	46°16' „	Romeo, Mozambique, Eugénie.	S.E to E.N.E., W. N.W.	9
December							
3	23°00' S	....	63°00' E.	....	Otter	S.S E., N.N.W.....	11
4— 8 ..	33°24' „	40°52' S	43°12' „	48°13'E	Clara, Sir J. Mandeville ..	N., W S.W., N.E...	9
6—11 ..	38°30' „	40°46' „	26°22' „	30°46' „	Charlotte, Patrie	N.E., N., W., S.W.	9
15—22 ..	38°36' „	42°22' „	15°14' „	30°36' „	Letterfouire, Moskiva, Auguste Marie.	N.W., W.N.W.....	9
25	36°44' „	....	119°40' „	....	Elizabeth	S W.	9
29	13°13' „	....	102°37' „	....	Warren Hastings	W.S.W., S.W.	8

XI

HURRICANES EXPERIENCED IN THE INDIAN OCEAN IN 1876.

Barometer Readings.		Remarks.	Mean Bar: at Mauritius reduced to sea-level.		Mean Temp. of air at Mauritius		Wind at Mauritius.	
From	To		From	To	From	To	Direction.	Max. Force.
Inches	Inches		Inches.	Inches.	Deg.	Deg.		Beaufort.
..	..	.....	30.200	30.185	70.1	70.3	E S.E.	5.5
..	..	.....	30.185	....	70.3	..	E.S E.	5 0
30.60	29.80	Mer affreuse, grains violents....	30.222	30.195	67.2	70.8	E S.E. to E.N.E. &S.W.	5.5
30.10	29.95	.....	30.159	30.298	67 5	71.3	Wly. & E.S.E. to E	6.0
..	..	Grains toujours violents	30.159	30.192	67.6	69.3	N.E., Wly., Easterly	4.0
757.0	759.0	Mer grosse, hurricane	30.323	30 197	68.2	72.5	E. to E.S.E.....	6.0
..	..	Coup de vent	30.261	30.192	72.5	69.9	E.N.E. to E.S.E.....	5.0
..	..	.....	30.239	30.266	72.4	71.1	E. to E.S.E.	5.5
..	..	Blowing a gale	30.266	30.277	71.5	70.9	E. to E.S.E.	5.5
..	..	Tempête affreuse	30.191	30.212	69.8	72.8	E.S E. to E.N.E. ...	5.0
..	..	Hard gales.....	30.180	30.056	69.9	72.8	E.S E. to S., E.N.E. to N.	4.5
..	..	Terrific squalls, torrents of rain	30.032	30.135	69.6	76.4	Nly, Wly., Easterly..	5.0
..	..	.....	30.080	30.135	73.2	71.9	Wly. and Easterly....	5.0
..	..	.....	30.113	30.135	73.2	72.1	E.S.E.	5.0
29.80	29.00	Hurricane	30.085	....	76.1	..	E. S. E. to E. N. E...	4.0
..	..	.....	30 135	30.084	76.4	74.6	E S.E. to E.N.E.....	5 0
29.80	30.30	Heavy gale, very hard squalls ..	29.988	30.082	77.9	75.4	E.S E. to N.E. & Wly.	4 5
.	..	Rafales très violentes	30.116	30.135	75.9	75.4	S.E. to E.S.E.....	4.5
29.70	28.25	Mauvais temps, mer monstrueuse, sea like a cauldron.	30.093	30.016	77.9	80.1	Nly., Ely., S.W.....	4.5
29.10	..	Cyclone	29.997	....	80.7	..	E.S.E. to S.S.E.....	4.5
..	..	Heavy gale, terrific sea.....	29.949	30.160	74.4	80.9	S., W., N.N.W, E.N.E	6.0
...	..	Tempête	30.160	30.060	74.4	80.9	S.W, N.N.W, E.N.E	5 0
..	..	Hurricane	30.105	30.040	78.2	80.9	E S.E. to E.N.E.....	5 5
29.75	..	.....	30.049	....	78.9	..	E N.E. & W.....	4.0
..	..	Gale	29.998	....	78.8	..	E.S.E. toE.N.E	4.0

THUNDER AND LIGHTNING.

1876.

January 13.—At 5.30 P.M. two faint peals of thunder at S.Wrd.
" 27.—From 7 to 10 P.M. a good deal of sheet lightning on western horizon.
" 28.—Much lightning at Wrd. during evening.
" 29.—Some peals of thunder at Wrd. about 3.30 P.M.
February 3.—At 9.30. A.M., distant thunder at Nrd., and at 11 A.M. at Wrd.
" 19—From 3 to 4.30 A.M., observed several flashes of lightning at Srd., S.W., and W.
March 1.—At 7 P.M., distant peals of thunder at S.Erd., and lightning at Nrd at 9.30 P.M.
" 2.—Distant thunder and lightning during night.
April 10.—Lightning at N.Erd. and Nrd. in evening. From 7 to 8 P.M. distant thunder at N.Erd and Nrd.
" 13—Lightning all round the horizon in evening. Some distant peals of thunder at W S.Wrd.
" 14.—At 9.06 A.M., a rattling peal of thunder at Wrd Thunder since 11.20 A.M. at Srd. to nearly overhead. At 2 P.M., thunder from S E. to N. and overhead.
October 16—From 8 to 9 P.M., several faint flashes of lightning at S W.
" 19.—From 7.25 to 8 P.M., frequent sheet lightning in the ~~Erd.~~ Srd.
December 11.—A good deal of sheet lightning in evening at W S.Wrd.
" 24.—Between 2 and 3 A.M., frequent lighning at Wrd.
" " —Between noon and 1 P.M., distant thunder at Srd. At 5.35 P.M. a thunder-storm at S.W.
" 29.—At 11.35 P.M., some thunder and lightning at Erd., continued during night.
" 30.—At 6 A.M., distant thunder at E b.S. Thunder during the day.
" " —From 7.15 to 9 P.M., lightning at Erd.; heard thunder twice.
" 31.—Thunder at Srd during the day.

METEORS.

Day.	Hour.	Number seen.	Remarks.
1876			
January 6	9.9 P.M.	1	Yellow, 1st magnitude, passed from between the Moon and the Pleiades to Nrd. in about 3 seconds, with a train of light.
June 7	8.45 "	1	White, of the magnitude of Mars, descended at an angle of about 45° slightly to Wrd of the Great Bear.
August 15	9 to 11.30 "	9	One small meteor described an arch just above horizon to the East of Draco, the other eight were seen in Cygnus, Corona, and Scorpio.
September .. 26	10 "	1	White, of the magnitude of Jupiter, descended slowly from Pegasus to Cygnus at an angle of 40° to the horizon. Midway in its course a spark seemed to fall off; and just before disappearing the meteor took a horizontal course at a greatly increased rate.
November .. 14	6.59 "	1	Yellow, with a greenish tinge, larger than Venus and as bright, passed from N E to S W.
" .. "	8.00 "		From 8 p.m. of 14th to 4 a.m. of 15th. 33 small meteors were seen, chiefly in the N E. There was no unusual display.
" .. 15	to 4.00 A.M.	33	
" .. 21	8.11 P.M.	1	White, of the magnitude of Venus, descended from Andromeda through Cassiopeia.
December .. 8	12.40 A.M.	2	Large, passed from Taurus to the Wrd at an interval of two or three minutes; that part of the sky was cloudy, and the meteors were not seen during their whole course.

REMARKS

Mean atmospheric pressure of year (corrected and reduced to sea-level)..	30·086 inches	
Highest " " ..	30 410 "	June 18.
Lowest " " ..	29.1:5 "	Feb. 19.
Mean temperature for year	74.1°	
Highest reading of Max. Dry Bulb Ther. in Shade	86.7	Jan. 3.
Lowest " Min. " "	57 1	Sept. 12.
Highest reading of Max. Wet Bulb Ther. in Shade.....	79.6	Feb. 12 & 13.
Lowest " Min. " "	55.3	Sept. 12.
Highest Dew Point	76.9	Feb 20.
Lowest "	49.1	July 29.
Highest Vapour-Tension	.926	Feb. 20.
Lowest "	.349	July 29.
Highest Relative Humidity.....	95.2	Dec. 31.
Lowest "	43 8	Dec. 1.
Rainfall during the year	41.87 inches	
Greatest fall in 24 hours	3.97 "	April 15.
Number of days on which rain fell.....	198	

TABLE XII

MEAN MONTHLY AND YEARLY BAROMETRIC PRESSURE FROM 1853 TO 1874.

MONTHS.	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	Means	MONTHS.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
January	29.945	29.955	29.380	30.006	29.885	29.906	29.995	29.847	29.910	29.899	29.921	29.952	30.007	29.953	29.957	29.871	29.985	29.956	29.944	29.969	29.888	29.951	29.936	January.
February	29.886	29.839	29.939	29.840	29.369	29.960	29.991	29.843	29.666	29.890	29.824	29.937	29.836	29.914	29.939	29.943	29.903	29.912	30.006	29.888	29.904	29.963	29.895	February.
March	29.941	29.964	29.911	29.949	29.954	29.979	29.980	29.860	29.951	29.944	29.929	29.923	29.960	29.969	30.009	29.879	29.970	29.961	30.010	30.025	29.944	29.767	29.944	March.
April	29.990	30.001	29.982	29.979	29.987	30.029	30.039	30.027	30.036	30.009	29.958	29.986	29.990	29.965	29.987	29.996	30.055	29.979	29.998	29.996	30.017	30.042	30.002	April.
May	30.065	30.050	30.072	30.010	30.087	30.056	30.079	30.049	30.051	30.062	30.102	30.086	30.080	30.062	30.054	30.054	30.079	30.110	30.134	30.089	30.019	30.078	30.069	May.
June	30.113	30.145	30.142	30.140	30.091	30.106	30.180	30.166	30.128	30.093	30.170	30.195	30.190	30.160	30.149	30.129	30.195	30.168	30.210	30.088	30.211	30.151	30.151	June.
July	30.193	30.144	30.233	30.131	30.194	30.140	30.211	30.197	30.183	30.151	30.161	30.219	30.237	30.195	30.184	30.161	30.200	30.159	30.227	30.168	30.217	30.210	30.187	July.
August	30.152	30.190	30.206	30.186	30.201	30.154	30.206	30.168	30.188	30.174	30.184	30.206	30.221	30.212	30.182	30.230	30.208	30.202	30.249	30.198	30.264	30.207	30.199	August.
September	30.145	30.141	30.187	30.154	30.172	30.192	30.188	30.143	30.194	30.151	30.147	30.258	30.196	30.221	30.178	30.195	30.190	30.190	30.204	30.184	30.213	30.194	30.183	September.
October	30.156	30.100	30.148	30.129	30.083	30.133	30.166	30.103	30.117	30.139	30.115	30.142	30.136	30.152	30.096	30.097	30.169	30.119	30.144	30.124	30.142	30.134	30.129	October.
November	30.003	30.043	30.075	30.009	30.047	30.077	30.055	30.089	30.027	29.992	30.057	30.064	30.085	30.102	30.095	30.101	30.056	30.085	30.106	30.030	30.064	30.128	30.063	November.
December	29.989	29.988	30.001	29.951	29.980	30.009	29.988	29.994	29.944	29.921	30.012	30.017	29.935	30.072	29.978	30.058	29.996	29.974	30.030	29.971	30.011	29.976	29.991	December.
Means	30.048	30.047	30.065	30.040	30.046	30.062	30.090	30.040	30.033	30.035	30.048	30.082	30.073	30.081	30.067	30.059	30.084	30.068	30.105	30.061	30.074	30.067	30.062	Means.

TABLE XIII

MEAN MONTHLY AND YEARLY TEMPERATURE OF THE AIR FROM 1853 TO 1874.

Months	Caudan, Height above sea, 20 feet							Old Observatory, Height above sea, 30 feet									Little Mountain Street, Height above sea, 30 feet					Maison Boulle, Height above sea, 212 feet										Months
	1853	1854	1855	1856	1857	1858	Means	1859	1860	1861	1862	1863	1864	1865	1866	Means	1867	1868	1869	1870	Means	1871	1872	1873	1874	Means	Caudan	Old Observatory	Little Mountain Street	Maison Boulle	Means	
January	80.9	82.2	82.9	82.4	80.5	79.6	81.4	79.6	81 2	82.8	81.4	82.3	81.4	82.2	80.6	81 4	85.3	83.2	84.4	83.2	84.0	79.2	78.4	80.2	79.1	79.2	81.8	81.4	81.3	81.7	81.5	January
February ..	82.4	81.9	81.7	81.6	80.4	79.9	81.3	80.6	80.9	79.9	81.1	81.5	81.0	82.1	80.0	80.9	84.9	85.2	84.3	83.8	84.5	79.6	79.0	79.1	78.8	79.1	81 7	80.9	81.8	81.6	81.5	February
March	80.1	81.1	81.6	81.0	79.3	79.2	80.4	79.8	80.1	79 7	79.9	81.5	80.4	80.9	81.9	80.5	85.3	83.7	82 8	83.9	83.9	78.6	77.3	78.0	78.1	78.0	80.8	80.5	81.2	80.5	80.7	March
April	78.9	79.9	79.8	80.2	79.0	78.4	79.4	78.3	78.9	79.3	79.7	80.6	79.1	80.5	80.8	79.6	82.6	82.2	82.8	81.2	82.2	76.3	76.7	76.8	76.4	76.5	79 8	79.6	79.5	79.0	79.5	April
May	76.4	77.5	75.7	76.0	74.8	75.1	75.9	74.8	76.6	76.7	76.0	77.8	75.0	76.7	76.2	76.2	79.5	78 6	79.6	79.6	79.3	72.2	73.9	72.9	75.3	73.6	76.3	76.2	76.6	76.1	76.3	May
June	73.8	74.2	72.7	73.1	73.2	71.9	73.1	72.5	73.4	73.0	73.3	74.0	73.1	72.9	73.8	73.2	77.2	75.7	76.1	75.1	76.0	69.7	71.2	70.0	71.1	70.5	73.5	73.2	73.3	73 0	73.2	June
July	72.1	71.8	71.4	71.3	70.4	72.5	71.6	71.6	72.8	71.9	72.7	71.0	71.3	71.7	71.8	71.8	74.5	74.9	75.6	73.9	74.7	68.4	69.4	69.0	67.9	68.7	72 0	71.8	72.0	71.2	71.7	July
August	72.4	72.6	71.7	71.4	69.7	72.9	71.8	71.6	73.1	71.3	73.9	72.0	71.4	71.8	71.9	72.1	76.4	74.9	72.8	73.7	74.4	68.4	70.1	68.4	68.9	68.9	72.2	72,1	71.7	71.4	71.8	August
September..	74.1	73.7	71.0	72.4	71.6	73.1	72.6	73.1	74.1	72.6	74.6	73.0	72.5	72 9	71.9	73.1	76.1	76.0	75.4	75.0	75.6	69.5	71.1	70.4	70.5	70.4	73.0	73.1	72.9	72.9	73 0	September
October	74.7	75.7	73.1	73.9	74.0	75 0	74.4	74.5	75.5	75.6	76.3	74.3	76.0	75.3	73.6	75.1	78.9	79.7	75.6	78.0	78.0	73.9	74.3	72.9	73.9	73.7	74.8	75.1	75.3	76.2	75.3	October
November ..	78.4	78.8	76.5	76.8	76.0	77.0	77.2	78.4	79.3	78.3	79.1	76.5	78.5	78.9	78.4	78.4	81.1	81.5	79.5	79.4	80.4	75.7	75.7	76.6	75.8	75.9	77.6	78.4	77.7	78.4	78.0	November
December ..	81.0	80.3	79.9	78.3	78.5	78.7	79.4	80.2	81.0	81.2	82.3	79.7	80.5	79.3	80.6	80.6	83.1	82.7	81.9	81.3	82.2	77.8	78 4	78.1	78.4	78.2	79.8	80.6	79.5	80.7	80.1	December
Means	77.1	77.5	76.5	76.5	75.6	76.1	76.5	76.2	77.2	76.9	77.5	77.0	76.7	77.1	76.8	76.9	80.4	79.9	79.2	79.0	79.6	74.1	74.6	74.4	74.5	74.4	76.9	76.9	76.9	76.9	76.9	Means

TABLE XIV

MEAN MONTHLY AND YEARLY TEMPERATURE OF EVAPORATION FROM 1853 TO 1874.

Months.	Caudan							Old Observatory									Little Mountain Street					Maison Boulle					Caudan	Old Observatory	Little Mountain Street	Maison Boulle	Means	Months.
	1853	1854	1855	1856	1857	1858	Means	1859	1860	1861	1862	1863	1864	1865	1866	Means	1867	1868	1869	1870	Means	1871	1872	1873	1874	Means						
January.....	73.7	75.0	76.2	73.9	74.4	74.2	74.6	72.9	74.9	75.4	74.9	75 4	73.8	74.8	74.0	74.5	76.4	76.5	76.4	74 2	75.9	72.8	74.0	76 1	74.6	74.4	74.7	74.5	74.8	75.1	74.8	January
February	75.3	75.7	75.9	76.5	74.1	73.9	75.2	74.7	75.4	74.1	74.9	76.5	74.0	75 8	74.7	75.0	75.8	76.1	76.7	75.4	76.0	73.5	74.7	75.3	74.1	74.4	75.3	75.0	74.9	75.1	75.1	February
March	73.1	74 3	74.3	74.8	74.2	72.8	73.9	73.9	73.9	73.1	72.9	74.9	73.8	73.9	74.4	73.8	76.0	76.5	75.2	75.3	75.7	73.1	73.2	73.7	74.6	73.6	74.0	73.8	74.6	74.3	74.2	March
April	71.5	73 5	72.6	74.0	74.0	71.2	72.8	72.6	72.0	72.5	73 .3	73.0	72 5	73.0	73.6	72.8	73.6	74.9	73.6	72.8	73.7	71.1	72.3	73.1	71 8	72.1	72.9	72.8	72.6	72.8	72.8	April
May	70.2	70.8	67.3	69.0	70.9	69.7	69.6	69.4	70.1	70.3	69.6	70.0	67.7	69.0	68.8	69.4	70 7	71.6	70.6	70.5	70.8	66.4	69.1	68.1	70.6	68.5	69.7	69.4	69.7	69.2	69.5	May
June	67.3	66.7	64.6	66.0	66.3	67.1	66.3	66.5	65.6	65.6	65.2	66.9	65.9	66 0	66.4	66.0	69.0	67.4	67.4	66.7	67.6	64.4	66.9	64.5	66.9	65.7	66.4	66.0	66.5	66.4	66.3	June
July	64.7	64.5	63.3	64.2	64.5	65.1	64.4	65.2	67.1	64.5	66.5	64.0	64.7	64.8	64.3	65.1	66.4	66.4	66.7	66.2	66.4	63.2	64.9	64.0	63.2	63.8	64.5	65.1	65.3	64.5	64.8	July
August	65.6	65.3	64.5	64.5	62 9	66.7	64 9	65.5	68.0	65.0	67.0	65.0	64.8	65.0	64 6	65.6	68.3	66.8	64.3	65.4	66.2	63.4	65.1	63.3	64 3	64.0	65 0	65.6	65.1	64.7	65.1	August
September ..	67.3	65.9	63.7	65.3	65.5	68.3	66.0	66.0	67.9	64.7	67.1	65.6	64.6	65.6	64.5	65.7	67.6	67.2	65 7	66.0	66.6	63.4	65.3	65.1	65.0	64.7	66.1	65.7	65.5	65.4	65.7	September
October.....	67.1	68.7	67.3	66.6	66.9	69.5	67.7	68.5	68.7	68 4	67.9	66.8	68.7	68.0	66.1	67.9	69.4	71.0	66.5	69.6	69.1	67.8	68.3	68.0	67.2	67.8	67.8	67.9	68 0	68.5	68.0	October
November....	72.2	71.2	69.7	71.0	69.2	70.1	70.6	70.8	71.0	71.4	71.8	69.3	71 5	71.5	69.4	70.8	72.9	71.5	69.6	70.7	71.2	69.4	69.5	71.3	69.1	69.8	70.7	70.8	70.1	70.5	70.5	November
December....	73.9	71.8	72.6	72.6	72.9	72.8	72.8	73 7	74.2	74.3	74.1	73.0	72.9	73 4	72.4	73.5	74.9	74.0	72.4	74.1	73.8	72 7	72.9	73.2	72.0	72.9	72.9	73.5	72.7	73.6	73.2	December
Means	70.2	70.3	69.3	69.9	69.6	70.1	69.9	70.0	70.7	69.9	70.4	70.0	69.6	70.1	69.4	70.0	71.7	71.7	70.4	70.6	71.1	68.4	69.7	69.6	69.5	69.3	70.0	70.0	70.0	70.0	70.0	Means

TABLE XV

MEAN MONTHLY AND YEARLY ELASTIC FORCE OF VAPOUR FROM 1853 TO 1874.

Months	Caudan							Old Observatory									Little Mountain Street					Maison Boulle					Caudan	Old Observatory	Little Mountain Street	Maison Boulle	Means	Months
	1853	1854	1855	1856	1857	1858	Means	1859	1860	1861	1862	1863	1864	1865	1866	Means	1867	1868	1869	1870	Means	1871	1872	1873	1874	Means						
January ..	.706	.738	.777	.691	.741	.747	.733	.693	.750	.745	.747	.754	.701	.730	.722	.730	.750	.785	.763	.689	.747	.696	.759	.821	.774	.762	.732	.730	.744	.750	.739	January
February ..	.748	.774	.786	.815	.730	.729	.764	.752	.778	.737	.751	.816	.715	.775	.762	.761	.732	.739	.777	.730	.744	.718	.780	.805	.757	.765	.759	.760	.741	.752	.753	February
March	.693	.726	.719	.749	.752	.696	.722	.731	.726	.699	.688	.745	.718	.714	.718	.717	.733	.777	.736	.724	.742	.717	.743	.752	.790	.750	.719	.716	.737	.737	.727	March
April	.649	.713	.678	.729	.749	.644	.694	.701	.667	.682	.708	.681	.685	.682	703	.689	.676	.734	.673	.665	.687	.672	.715	747	.699	.708	·690	.689	.683	.699	.690	April
May	.636	.643	.542	.596	.688	.637	.624	.629	.629	.636	.618	.609	.566	.588	.587	.608	.610	.657	.605	.602	.618	.558	.630	.608	.669	.616	.618	.609	.615	.602	.611	May
June	.568	.542	.494	.533	.542	.586	.544	.557	.517	.521	.505	.551	.530	.535	.537	.532	.581	.546	.540	.531	.549	.522	.590	.524	.591	.557	.541	.531	.547	.548	.542	June
July	.504	.501	.470	.497	.519	.511	.500	.526	.574	.500	.555	.494	.513	.512	.495	.521	·528	.523	.525	.529	.526	.502	.543	.517	.509	.518	.498	.520	524	.508	.512	July
August	.529	.517	.502	.506	.476	.559	.515	.536	.602	.522	.555	.514	.515	.516	.503	.533	.567	.536	.483	.507	.523	.508	.543	.505	.530	.521	.512	.533	.521	.512	519	August
September.	.563	.523	.485	.519	.536	.614	.540	.533	.583	.498	.550	.521	.496	.523	.500	.525	.547	.535	.496	.510	.522	.493	.535	.538	.533	.525	.537	.523	.520	.516	.524	September
October ..	.548	.591	.577	.543	.551	.631	.573	.599	.594	.581	.554	.544	.585	.571	.530	.570	.573	.617	.519	.591	.575	.584	.595	.604	.563	.584	.571	.571	.572	.576	.572	October
November.	.683	.639	.616	.661	.603	.624	.638	.629	.623	.653	.657	.601	·654	.649	.579	.631	.670	.613	.572	.612	.617	.616	.620	.676	.603	.629	.638	.629	.614	.618	.625	November
December..	.711	.639	.676	.701	.710	.703	.690	.716	.73~~2~~ 23	.725	.700	.695	.679	.719	.658	.702	.719	.689	.640	.715	.691	.714	.712	.729	.712	.717	.690	.702	.687	.705	.696	December
Means	.628	.629	.610	.628	.633	.640	.628 -3	.633	.647	.625	.632	.627	.613	.626	.608	.627 -1	.640	.646	.611	.617	.628 -1	.608	.647	.652	.644	.638 -1	.625	.626	.625	.627	.626	Means

TABLE XVI

MEAN MONTHLY AND YEARLY RELATIVE HUMIDITY FROM 1853 TO 1874.

Months.	Caudan.							Old Observatory.								
	1853	1854	1855	1856	1857	1858	Means.	1859	1860	1861	1862	1863	1864	1865	1866	Means.
January	66.2	67.2	69.2	62.4	70.6	73.6	68.2	68.2	70.8	66.4	70.0	68.4	66.0	66.6	68.6	68.1
February ..	67.6	71.2	72.8	75.6	69.8	71.0	71.3	71.4	73.4	71.9	71.2	76.0	68.0	70.8	73.8	72.1
March	67.0	68.8	66.8	71.2	74.8	69.4	69.7	71.4	70.2	68.6	67.0	69.6	68.6	67.0	66.0	68.5
April	66.3	69.4	66.2	70.2	75.0	66.6	68.9	72.2	67.4	67.8	69.4	64.6	68.6	65.0	66.2	67.6
May	70.2	68.2	61.1	67.0	79.5	72.4	69.7	72.8	69.0	69.4	69.4	63.8	64.8	64.2	65.6	67.4
June	68.0	64.0	60.6	65.6	66.4	74.0	66.4	69.5	63.2	64.4	61.9	65.6	65.3	65.4	64.4	65.0
July	63.4	63.8	61.0	64.6	69.4	63.4	64.3	67.4	71.3	63.4	68.7	65.0	66.6	65.4	63.0	66.3
August	65.8	63.8	64.2	65.4	64.8	68.9	65.5	68.6	73.6	67.8	65.4	65.0	66.6	65.8	63.8	67.2
September..	66.8	63.5	63.8	64.6	68.6	75.1	67.1	65.6	69.2	61.4	64.0	64.4	61.4	63.8	63.4	64.1
October	63.6	66.0	70.8	64.8	65.6	72.0	67.1	70.0	66.8	65.2	61.7	64.0	65.8	64.8	64.0	65.3
November ..	70.2	65.4	67.8	71.8	67.8	67.4	68.4	65.0	62.1	67.7	65.9	66.2	67.5	66.3	59.7	65.0
December	67.6	61.3	65.8	72.2	72.0	71.4	68.4	69.0	68.8	68.4	63.5	68.2	65.1	71.4	62.8	67.1
Means.....	[illegible].9	66.0	65.8	67.9	70.4	70.4	67.9	69.3	68.8	66.9	66.6	66.7	63.2	66.1	65.[illegible]	67.0

Months.	Little Mountain Street.					Maison Boulle.					Caudan.	Old Observatory.	Little Mountain Street.	Maison Boulle.	Means.	Months.
	1867	1868	1869	1870	Means.	1871	1872	1873	1874	Means.						
January	61.3	69.2	64.4	60.2	63.8	69.4	77.4	79.7	77.6	76.0	67.6	68.4	70.0	69.6	68.9	January
February ..	60.5	60.7	65.9	63.2	62.6	70.6	78.5	81.1	76.3	76.6	70.4	71.4	68.4	70.0	70.0	February
March	60.1	67.2	65.6	62.5	63.8	73.0	73.8	77.8	81.6	77.8	67.8	68.2	69.6	70.2	68.9	March
April	60.6	67.0	60.0	62.6	62.5	74.2	77.7	80.5	76.6	77.2	67.4	67.8	67.4	70.2	68.2	April
May	60.3	67.6	59.6	59.2	61.7	70.2	75.9	75.9	73.8	74.4	68.6	67.8	67.4	67.4	67.8	May
June	62.2	61.5	60.3	60.5	61.1	72.2	76.7	71.0	77.1	74.2	65.6	65.2	66.8	67.6	66.3	June
July	61.6	60.0	59.0	63.2	60.9	72.0	73.9	73.0	74.5	73.3	63.0	66.2	66.2	66.2	65.4	July
August	63.0	61.6	59.0	61.5	61.3	73.0	73.1	72.5	75.0	73.4	64.2	67.0	66.6	66.2	66.0	August
September..	61.1	59.8	55.9	58.0	58.7	68.0	69.8	71.9	71.0	70.2	66.4	64.5	63.4	63.0	64.3	September
October	57.9	60.9	58.2	61.4	59.6	69.6	70.0	75.4	67.2	70.5	66.0	65.3	64.8	64.4	65.1	October
November ..	63.3	56.5	56.3	60.6	59.2	68.8	69.2	73.8	67.2	69.7	67.4	65.0	64.6	63.8	65.2	November
December	63.3	61.9	58.9	67.2	62.8	74.6	73.0	75.4	73.0	74.0	67.4	66.6	67.8	66.6	67.1	December
Means.....	61.3	62.8	60.3	61.7	61.5	71.3	74.5	75.7	74.4	73.9	66.8	66.9	66.9	67.1	66.9	Means

STORM-WARNINGS.

Although, in 1876, the number of cyclones in the Indian Ocean was much below the average, yet the centres of a few which took place in January and February passed so near the Island that telegrams announcing their existence, probable bearings, and movements, were sent to Port Louis, and thence to different parts of the Colony.

From the 5th to the 14th January there were at the Observatory three successive barometric depressions, with some extraordinary changes in the direction of the wind, and during a part of that period twelve weather-telegrams were despatched. The first four announced that there was a cyclone about 150 miles to the North of Mauritius, but that from the gradual veering of the wind to the N.E.rd. there was no danger. The barometer attained its minimum (29·590 inches) at 4 P.M. on the 8th, the wind being then fresh from East. Pressure then gradually increased to 29.776 at 10 P.M. on the 9th. The wind, which was then moderate from N.E., began to back to East, with a falling barometer, and by 3 P.M. on the 11th it was fresh from E. S. E., with the barometer at 29.598, from which it gradually rose to 29.755 at 9 A.M. on the 13th, the wind, which had all the time been backing, being then light from S. W. b. S. During this second fall and rise of the barometer, and the backing of the wind from N.E. to S.W b.S., three telegrams were sent to Port Louis, stating that there was no danger from a cyclone which was probably passing N.E., East, and S.E. of the Island. On the whole of the 12th the barometer was rising and at 9 P.M. was at 29.779, with the wind, which had gone right round the compass, back again to N.E.b.E. in light breezes. At 2 A.M on the 13th, however, the barometer began to fall for the third time, the wind being then light from N.E. ½ E., and it continued falling till 5 P.M. when it was at 29.390, which was the lowest point attained. By this time the wind was light from S.W.b.W., having, as on the 10th, 11th, and 12th, backed, but much more rapidly, being N.b W. at 1 P.M. and S.E. at 2.30 P M. on the 13th. Soon after 5 P.M., it shifted from S.W to S.E.b.E., increasing to a strong breeze, and then gradually backed to W.S.W., reaching that point at noon on the 14th, with the barometer at 29.718. The telegrams despatched on this third occasion stated that as we were probably in the belt of variables between the trade-wind and monsoon, with stormy weather North and South of us, precaution was necessary. It was afterwards ascertained from log-books that from the 5th to the 15th the trade-wind and monsoon were in collision from about 17° to 21° S. and 67° to 57° E., and that, though there was no great cyclone, yet some small ones of short duration, but occasionally of great violence, took place between the two winds. At Mauritius the greatest velocity of the wind was only 30 miles per hour.

Storm-warnings were also issued on the 18th February. The barometer began to fall in the afternoon of the 17th, with the wind fresh from the S.Erd. At noon on the 18th, the barometer being at 29.700 and falling, with the wind from S.E b.S. at the rate of 20 to 30 miles an hour, it was announced that the weather was threatening; and at 3 P M., when the barometer was at 29.615, and the wind still from the same quarter at the rate of 32 miles an hour, it was stated that a cyclone was approaching the Island. At 4 P.M., the barometer being at 29.596, and the wind from S.E. at the rate of 33 miles an hour, another telegram was despatched, stating that the wind would probably increase towards next morning, but that there was no danger of a hurricane during the next forty-eight hours. Shortly after 6 P.M., the barometer tending to rise, and the velocity of the wind (from S.E b.S.) being only 30 miles an hour, it was announced that there was no great danger for the night. As anticipated, the wind increased, veering towards the East, and from midnight of the 18th to 8 A.M. on the 19th, it blew a strong to a whole gale from S.E.b.E. to East, the barometer attaining its lowest point (29.116) at 4 A.M. By 4 P.M. the wind was from N.E. at the rate of 40 miles an hour, and the barometer at 29.601. This was a small cyclone which travelled at an unusual rate, apparently reaching the Capital of Madagascar (Antananarivo) on the night of the 21st. It did not commit much damage in Mauritius; but of seven vessels which left the roadsteads of Réunion on the 19th, and scudded to the N.W. before the wind, only two returned.

On the 22nd February, the barometer began to fall once more, with the wind from E.S.Erd, and on the 24th the Observatory telegraphed that a cyclone was approaching. During that and the next three days, forty-four telegrams were despatched, announcing the changes in the barometric pressure and the direction and velocity of the wind, together with the probable bearings and distance of the storm's centre At 6 P.M. on the 25th, with the barometer at 29.648, and the wind from S E. to S.S.E. at the rate of 32 miles an hour, it was estimated that the centre was about 270 miles to the N.Erd. Throughout the whole of the 26th, the barometer was gradually falling, and at 3 P.M. was at 29.510 (lowest), with the wind from S.S.E. at the rate of 40 miles per hour. At length, towards 9 P M. on that day the wind began to back to South, and on the morning of the 27th it was announced that all danger was over. At 1 A.M. the wind was from S.b E. to S.b.W., and the barometer at 29.567. During the day the wind was slowly backing, and on the 28th was from S.W. to W.S.W., with the barometer at noon at 29.645. The greatest velocity of the wind was 56 miles an hour (from S.S.E.) at 10 A.M. on the 26th. It was afterwards ascertained that at noon on the 26th the centre of the cyclone was about 280 miles E.N.E. of the Observatory, and at noon on the 28th about 540 miles E.S.E. of it. On the 28th and 29th, when

the storm was travelling to the S.Erd, the *Chalgrove* and *New Republic* were dismasted. Rodrigues suffered both from the violence of the wind and from storm-waves. Fortunately for Mauritius, the storm altered its course to South and S.E. at a safe distance.

A cyclone passed to the N.Erd, Erd, and Srd of Rodrigues from the 2nd to the 5th December. It was too small and remote to attract public attention at Mauritius, especially as the weather there was fine; but a notice of its existence was sent to the newspapers at the time. The barque *Otter* encountered it on the 3rd in 23° S. and 62° E.

These were the only tropical cyclones during the year, in the Indian Ocean, South of the Equator, of which information has been received.

C. MELDRUM.

APPENDIX TO METEOROLOGICAL RESULTS FOR 1876.

The following tables, which could not be prepared in time for the Blue Book, are given as an Appendix.

TABLE I shows the daily and monthly means of the atmospheric pressure during the year, as obtained from the barograms, without reduction to the sea-level.

The greatest monthly depressions almost invariably coincided with gales at sea. This will be seen from the following tabular statement.

Days of Barometric Depression.	Greatest mean daily depression below mean for month		Localities of Gales at sea.
	Inch.	Day of month	
January			
7—15	·264	13	Several small cyclones from 17° to 21° S. and 65° to 57° E.
February			
2— 5	·102	3	Heavy gale from 28° to 37° S. and 18° to 79° E.
17—21	·342	19	Cyclone passed North of Mauritius.
24—29	·269	26	" " East and South-East of Mauritius.
March			
2— 4	·248	3	Strong gale from 26° to 33° S. and 28° to 46° E.
9—13	·073	11	Heavy gale in 26° to 42° S. and 24° to 53° E.
April			
1— 3	·091	1	Whole gale in 32° to 38° S. and 26° to 38° E.
12—17	·174	15	Strong gale in 38° S. and 25° E., and also in 32° to 43° S. and 106° to 115° E.
May			
4—8	·133	6	Heavy gale in 11° to 13° S. and 80° to 81° E.
June			
6—10	·205	9	Strong gale in 37° to 35° S. and 43° to 53° E., and a whole gale in 34° to 39° S. and 106° to 130° E.
July			
6—7	·087	5	Fresh gale in 30° S. and 39° E.
August			
11—16	·137	14	Storm in 26° to 41° S. and 18° to 58° E.
September			
11—15	·067	13	Strong gale in 34° S. and 32° E.
October			
14—22	·106	20	Whole gale in 23° to 40° S. and 41° to 54° E.
November			
3— 6	066	4	No information of bad weather.
9—13	·065	11	Whole gale in 28° to 40° S. and 16° to 40° E.
December			
1— 5	·104	4	Cyclone passed East and South of Rodrigues.
30—31	·090	30	No information of bad weather.

Whether all these gales were cyclonic is not known, only a few of them having as yet been examined.

Table II gives the diurnal variation of the atmospheric pressure for each month and for the year, as obtained from the barograms for 1875 and 1876. The variation is nearly the same as that obtained from the term-day observations given in the Results for 1875.

Table III contains the mean N. and E components of the wind for each hour, except for a part of February and the whole of March, when the anemometer was out of order.

At first it was intended to compute all the components according to the usual formulæ, but this was found to take up so much time that ultimately a traverse table was used throughout.

It will be seen from the two last columns but one that both components have on the whole a diurnal variation corresponding with the diurnal variation of the temperature. The discrepancies will probably disappear when the observations are more numerous.

The resultant velocities and directions in Table VIII (of the Results) have been derived from the components iu Table III.

Table IV gives the observed mean velocities of the wind.

TABLE I

DAILY AND MONTHLY MEANS OF THE ATMOSPHERIC PRESSURE DURING THE YEAR 1876.

Days of Month	January	February	March	April	May	June	July	August	September	October	November	December	Days of Month
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1st. ..	29.738	29.741	29.658	29.749	29.893	29.969	30.002	29.981	30.051	30.053	29.946	29.840	1st.
2nd. ..	29.747	29.669	29.653	29.762	29.904	29.940	30.040	30.005	30.039	30.074	29.894	29.845	2nd.
3rd. ..	29.783	29.542	29.557	29.855	29.932	29.921	30.015	30.012	30.010	30.085	29.827	29.809	3rd.
4th. ..	29.792	29.594	29.638	29.872	29.923	29.901	30.012	30.018	30.008	30.054	29.798	29.762	4th.
5th. ...	29.762	29.697	29.754	29.874	29.860	29.927	29.977	30.060	29.993	30.017	29.821	29.810	5th.
6th. ..	29.727	29.748	29.818	29.866	29.826	29.924	29.993	30.104	30.004	30.000	29.854	29.883	6th.
7th. ..	29.644	29.710	29.832	29.841	29.878	29.873	30.023	30.100	30.030	30.021	29.881	29.970	7th.
8th. ..	29.491	29.719	29.853	29.819	29.948	29.820	30.025	30.083	30.020	29.997	29.844	29.932	8th.
9th. ..	29.508	29.793	29.843	29.845	29.944	29.812	30.026	30.063	30.002	29.969	29.862	29.881	9th.
10th. ..	29.541	29.815	29.781	29.868	29.910	29.965	30.091	30.094	30.020	29.998	29.832	29.872	10th.
11th. ..	29.477	29.781	22.732	29.866	29.926	30.052	30.120	30.044	30.015	30.010	29.799	29.896	11th.
12th. ..	29.549	29.772	29.735	29.819	29.960	30.001	30.091	29.968	29.974	29.988	29.845	29.903	12th.
13th. ..	29.399	29.753	29.811	29.755	30.013	29.975	30.093	29.922	29.967	29.958	29.893	29.892	13th.
14th. ..	29.529	29.715	29.873	29.702	30.056	30.029	30.129	29.906	30.000	29.915	29.852	29.896	14th.
15th. ..	29.638	29.690	29.887	29.666	30.058	30.086	30.103	29.974	30.051	29.887	29.801	29.914	15th.
16th. ..	29.716	29.724	29.912	29.783	30.022	30.122	30.091	30.013	30.105	29.866	29.836	29.917	16th.
17th. ..	29.736	29.706	29.939	29.867	29.996	30.143	30.057	30.071	30.105	29.820	29.927	29.896	17th.
18th. ..	29.725	29.471	29.898	29.865	29.986	30.177	30.090	30.101	30.084	29.907	29.946	29.904	18th.
19th. ..	29.711	29.302	29.846	29.846	29.979	30.158	30.103	30.079	30.114	29.872	29.898	29.883	19th.
20th. ..	29.681	29.705	29.846	29.848	29.948	30.113	30.081	30.049	30.129	29.843	29.840	29.852	20th.
21st. ..	29.668	29.743	29.873	29.856	29.948	30.066	30.042	30.033	30.069	29.890	29.872	29.886	21st.
22nd. ..	29.657	29.689	29.850	29.844	29.984	30.067	30.033	30.077	30.006	29.923	29.906	29.872	22nd.
23rd. ..	29.628	29.653	29.796	29.856	29.967	30.081	30.060	30.103	30.006	29.945	29.877	29.857	23rd.
24th. ..	29.649	29.624	29.799	29.896	29.947	30.074	30.117	30.114	30.020	29.901	29.863	29.864	24th.
25th. ..	29.687	29.507	29.832	29.923	29.974	30.083	30.134	30.069	30.000	29.909	29.872	29.861	25th.
26th. ..	29.706	29.375	29.832	29.871	30.004	30.055	30.117	30.007	30.025	29.954	29.904	29.864	26th.
27th. ..	29.720	29.384	29.820	29.838	30.011	30.093	30.085	29.986	30.045	29.927	29.903	29.862	27th.
28th. ..	29.730	29.464	29.818	29.883	29.998	30.072	30.066	30.026	30.045	29.894	29.872	29.857	28th.
29th. ..	29.730	29.580	29.838	29.940	29.992	30.019	30.065	30.094	30.053	29.897	29.835	29.810	29th.
30th. ..	29.731	.....	29.834	29.914	29.983	29.989	30.041	30.095	30.048	29.878	29.828	29.776	30th.
31st. ..	29.766	.....	29.803	.....	29.966	.....	30.000	30.086	.....	29.907	.....	29.787	31st.
Means ..	29.663	29.644	29.805	29.840	29.959	30.017	30.064	30.043	30.034	29.949	29.864	29.866	Means.

TABLE II

MEAN MONTHLY AND ANNUAL DIURNAL VARIATION OF THE ATMOSPHERIC PRESSURE, DEDUCED FROM TWO YEARS' OBSERVATIONS MADE IN 1875 AND 1876.

Hours.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.	Hours.
1 A. M.	+ .003	+ .009	+ .007	+ .006	+ .007	+ .009	+ .011	+ .010	+ .011	+ .006	+ .004	+ .001	+ .007	1 A.M.
2 "	— .010	— .006	— .006	— .006	— .004	— .002	— .001	— .002	— .001	— .007	— .010	— .012	— .006	2 "
3 "	— .016	— .015	— .013	— .014	— .014	— .011	— .007	— .009	— .010	— .013	— .016	— .016	— .013	3 "
4 "	— .017	— .017	— .019	— .019	— .019	— .016	— .012	— .015	— .016	— .015	— .014	— .017	— .017	4 "
5 "	— .006	— .013	— .015	— .014	— .017	— .017	— .011	— .013	— .009	— .006	— .007	— .007	— .011	5 "
6 "	+ .008	— .003	— .004	— .003	— .007	— .008	— .003	— .004	+ .003	+ .006	+ .007	+ .007	.000	6 "
7 "	+ .019	+ .010	+ .006	+ .010	+ .009	+ .006	+ .009	+ .010	+ .017	+ .020	+ .019	+ .019	+ .013	7 "
8 "	+ .021	+ .016	+ .016	+ .018	+ .022	+ .020	+ .023	+ .022	+ .027	+ .026	+ .022	+ .023	+ .021	8 "
9 "	+ .022	+ .023	+ .025	+ .029	+ .033	+ .031	+ .035	+ .034	+ .033	+ .030	+ .024	+ .024	+ .029	9 "
10 "	+ .018	+ .019	+ .023	+ .027	+ .032	+ .029	+ .033	+ .033	+ .028	+ .022	+ .018	+ .020	+ .025	10 "
11 "	+ .010	+ .013	+ .016	+ .016	+ .018	+ .018	+ .022	+ .020	+ .013	+ .010	+ .009	+ .013	+ .015	11 "
Noon	— .002	.000	.000	— .003	— .002	— .001	.000	— .001	— .010	— .007	— .005	.000	— .003	Noon.
1 P. M.	— .012	— .014	— .016	— .022	— .023	— .023	— .022	— .021	— .028	— .023	— .019	— .011	— .020	1 p.m.
2 "	— .028	— .027	— .029	— .035	— .036	— .036	— .035	— .036	— .045	— .036	— .031	— .023	— .033	2 "
3 "	— .038	— .035	— .038	— .038	— .036	— .037	— .039	— .042	— .049	— .044	— .038	— .034	— .039	3 "
4 "	— .043	— .038	— .037	— .035	— .033	— .032	— .036	— .039	— .045	— .043	— .040	— .039	— .038	4 "
5 "	— .035	— .033	— .029	— .023	— .023	— .023	— .028	— .030	— .033	— .033	— .030	— .032	— .029	5 "
6 "	— .018	— .018	— .017	— .014	— .011	— .012	— .018	— .019	— .017	— .016	— .014	— .017	— .016	6 "
7 "	+ .003	.000	+ .001	+ .001	+ .004	+ .002	— .005	— .003	+ .002	+ .002	+ .004	— .002	+ .001	7 "
8 "	+ .016	+ .014	+ .016	+ .018	+ .018	+ .015	+ .009	+ .012	+ .019	+ .017	+ .018	+ .012	+ .015	8 "
9 "	+ .028	+ .026	+ .030	+ .028	+ .026	+ .023	+ .019	+ .021	+ .029	+ .029	+ .028	+ .022	+ .026	9 "
10 "	+ .035	+ .032	+ .033	+ .030	+ .025	+ .025	+ .021	+ .025	+ .030	+ .030	+ .034	+ .029	+ .029	10 "
11 "	+ .032	+ .029	+ .028	+ .026	+ .023	+ .023	+ .018	+ .025	+ .028	+ .027	+ .028	+ .028	+ .026	11 "
Midnight	+ .018	+ .018	+ .019	+ .018	+ .016	+ .016	+ .013	+ .020	+ .021	+ .014	+ .016	+ .014	+ .017	Midt.

TABLE III.

MEAN HOURLY AND MONTHLY N. AND E. COMPONENTS OF THE WIND IN 1876.

Hours.	January.		February.		April.		May.		June.		July.		Hours.
	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	
1 A. M.	— 1.33	+ 7.82	— 2.48	+ 7.62	— 4.09	+ 7.72	— 4.10	+ 7.65	— 4.38	+ 8.07	— 4.63	+ 10.00	1 A. M.
2 ,,	— 1 46	+ 7.50	— 2.71	+ 6.92	— 3.81	+ 7.34	— 3.82	+ 7.94	— 4 56	+ 8.37	— 4.54	+ 9.19	2 ,,
3 ,,	— 1.57	+ 7.29	— 2.69	+ 6.86	— 3.71	+ 7.58	— 3.95	+ 7.50	— 4.45	+ 8.19	— 4.27	+ 8.88	3 ,,
4 ,,	— 1.67	+ 7.97	— 3.74	+ 7.55	— 3.62	+ 7.34	— 4.30	+ 7.75	— 4.49	+ 8.31	— 4 91	+ 9.45	4 ,,
5 ,,	— 1.81	+ 7.32	— 3.95	+ 6.92	— 3.38	+ 7.55	— 3.95	+ 7.35	— 3.71	+ 8.22	— 5.23	+ 9.42	5 ,,
6 ,,	— 1.86	+ 7.81	— 4 12	+ 7.45	— 3.58	+ 7.86	— 4.13	+ 7.34	— 5.06	+ 8 87	— 4.93	+ 8.89	6 ,,
7 ,,	— 2.11	+ 9.06	— 3.88	+ 7.96	— 3.79	+ 8.22	— 3.77	+ 7.58	— 4.99	+ 8.93	— 5.25	+ 9.26	7 ,,
8 ,,	— 1.50	+ 11.25	— 4.60	+ 10.77	— 3.81	+ 10.54	— 4.10	+ 7.84	— 4.54	+ 10.76	— 4.99	+ 10.48	8 ,,
9 ,,	— 0.44	+ 12.96	— 4.37	+ 11.06	— 3.63	+ 13.24	— 4.85	+ 12.37	— 5.12	+ 14.85	— 5.27	+ 14.11	9 ,,
10 ,,	+ 0.68	+ 12.40	— 4.09	+ 10.61	— 3.72	+ 14.41	— 4.78	+ 13 71	— 4.46	+ 15.99	— 5.35	+ 15.99	10 ,,
11 ,,	+ 1.40	+ 12.88	— 3.42	+ 9.35	— 3.29	+ 14.93	— 4.05	+ 15.66	— 5.87	+ 17.87	— 5.58	+ 18.93	11 ,,
Noon	+ 1.10	+ 12.96	— 3.32	+ 10.36	— 3.59	+ 14.36	— 4.90	+ 15.05	— 5.84	+ 17.40	— 6.14	+ 18.10	Noon
1 P. M.	+ 1.76	+ 13.36	— 3.17	+ 9 74	— 3.18	+ 15.27	— 4.58	+ 15.46	— 5.15	+ 17.05	— 7.00	+ 18.49	1 P. M.
2 ,,	+ 0.28	+ 13.43	— 3.03	+ 8.69	— 3.14	+ 15 35	— 4.32	+ 15.92	— 5.95	+ 16.36	— 7.08	+ 19.09	2 ,,
3 ,,	+ 0.57	+ 13.26	— 5.02	+ 9.20	— 3.68	+ 14.17	— 4.38	+ 14.32	— 4.91	+ 14.84	— 6.95	+ 17.44	3 ,,
4 ,,	— 0.69	+ 12.34	— 4.59	+ 9.79	— 3.68	+ 13.25	— 4.25	+ 13.59	— 5.55	+ 14.03	— 6.71	+ 16.56	4 ,,
5 ,,	— 1.79	+ 11.52	— 4 66	+ 10.09	— 4.13	+ 11.43	— 4.57	+ 10.74	— 4.73	+ 11.39	— 6.18	+ 14.32	5 ,,
6 ,,	— 2 50	+ 12.27	— 4.74	+ 9.32	— 3.07	+ 8.97	— 3,73	+ 8.76	— 4 52	+ 9.23	— 4.57	+ 11.68	6 ,,
7 ,,	— 2.22	+ 9.60	— 4.22	+ 7.85	— 3.51	+ 9.26	— 3.81	+ 8.16	— 4.81	+ 9.00	— 4.64	+ 10 65	7 ,,
8 ,,	— 2.38	+ 8.66	— 4 23	+ 8.62	— 3.75	+ 8.49	— 3.38	+ 8.12	— 4.44	+ 8.36	— 4.27	+ 10.81	8 ,,
9 ,,	— 1.55	+ 8.85	— 4.48	+ 8.82	— 4.13	+ 8.61	— 3.27	+ 8 22	— 4.06	+ 8.58	— 4.24	+ 10 62	9 ,,
10 ,,	— 2.05	+ 8.37	— 4.02	+ 9.08	— 3 87	+ 8.69	— 3.32	+ 7.96	— 4.44	+ 7.97	— 3.91	+ 10.02	10 ,,
11 ,,	— 1.54	+ 7.99	— 4.45	+ 9.72	— 3.45	+ 8.40	— 3.22	+ 7.11	— 4.69	+ 8.66	— 4.63	+ 10.25	11 ,,
Midt.	— 1.52	+ 8 17	— 4.80	+ 10.35	— 3.21	+ 7 82	— 3.36	+ 7.30	— 4.56	+ 8.24	— 4.50	+ 10.25	Mid
Means.	— 1.01	+ 10.21	— 3 95*	+ 8.95	— 3.62	+ 10.45	— 4 04	+ 10.14	— 4.80	+ 11.23	— 5.24	+ 12.62	Means.

* Mean for 18 days.

TABLE III—*Continued.*

Hours.	August.		September.		October.		November.		December.		Means for year.		Variation from Mean.		Hours.
	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	
1 A. M.	— 3.68	+ 10.68	— 3.43	+ 9·08	— 2·20	+ 7·39	— 2·03	+ 6·61	— 2.39	+ 8·00	— 3·16	+ 8·24	— 0·28	— 2·54	1 A. M.
2 „	— 3.85	+ 10.23	— 3.80	+ 9·37	— 2·01	+ 7·00	— 2.44	+ 6·34	— 1·79	+ 7·55	— 3·16	+ 7·98	— 0·28	— 2·80	2 „
3 „	— 3.66	+ 10.48	— 3.71	+ 9·44	— 2·22	+ 7·25	— 2.36	+ 6·67	— 1·61	+ 7·14	— 3·11	+ 7·94	— 0·23	— 2·84	3 „
4 „	— 3.37	+ 9.72	— 3.82	+ 9·16	— 2·34	+ 7·32	— 2·18	+ 6.47	— 1·80	+ 7·39	— 3·19	+ 8·04	— 0·41	— 2·74	4 „
5 „	— 2.95	+ 9.85	— 4.19	+ 9·17	— 2·29	+ 7·16	— 1·88	+ 6·72	— 1·97	+ 7·41	— 3·21	+ 7·92	— 0·33	— 2·86	5 „
6 „	— 2.76	+ 10.09	— 4.07	+ 9·20	— 2·08	+ 7·73	— 1·83	+ 6·96	— 1·81	+ 7·64	— 3·29	+ 8·17	— 0·41	— 2·61	6 „
7 „	— 3.41	+ 10.16	— 3.50	+ 10·06	— 2·85	+ 9·64	— 2·10	+ 9·74	— 1·76	+ 10·90	— 3·40	+ 9·23	— 0·52	— 1·55	7 „
8 „	— 3.24	+ 12.90	— 5.00	+ 13·52	— 2.15	+ 13·55	— 0·29	+ 11·97	— 0·82	+ 13·25	— 3 19	+ 11·53	— 0·31	+ 0·75	8 „
9 „	— 2.74	+ 16.77	— 3.77	+ 15·42	+ 0·10	+ 14·25	+ 0·72	+ 10·95	+ 1·63	+ 13·16	— 2·52	+ 13·56	+ 0·36	+ 2·78	9 „
10 „	— 2.25	+ 18.06	— 1.98	+ 16·12	— 0·52	+ 14·03	+ 1·17	+ 10·25	+ 2·64	+ 12·80	— 2·06	+ 14·03	+ 0·82	+ 3·25	10 „
11 „	— 2.05	+ 19.79	— 3.10	+ 17·39	+ 1·30	+ 14·18	+ 1·80	+ 10·25	+ 2·42	+ 14·15	— 1·87	+ 15·04	+ 1·02	+ 4·26	11 „
Noon.	— 1.65	+ 18.03	— 3.24	+ 16·50	+ 1·63	+ 14·30	+ 1.85	+ 10·40	+ 3·11	+ 13·10	— 1·91	+ 14·60	+ 0·97	+ 3·82	Noon.
1 P. M.	— 1.88	+ 18.68	— 2.58	+ 16·49	+ 1·90	+ 13·40	+ 2·69	+ 9·81	+ 1·49	+ 12·74	— 1·79	+ 14·59	+ 1·09	+ 3·81	1 P. M.
2 „	— 1.90	+ 19.85	— 4.09	+ 16·63	+ 1·21	+ 13 37	+ 2·20	+ 9·63	+ 1·32	+ 13·61	— 2·23	+ 14 72	+ 0·65	+ 3·94	2 „
3 „	— 2.51	+ 18.19	— 3.91	+ 14·37	+ 0·13	+ 12·65	+ 0·74	+ 9 21	+ 1.30	+ 11·61	— 2·61	+ 13·57	+ 0·27	+ 2·79	3 „
4 „	— 3.35	+ 17.99	— 5.14	+ 14·18	— 0·66	+ 12·50	+ 0.78	+ 9·42	— 0·25	+ 12·10	— 3·10	+ 13·25	— 0·22	+ 2·47	4 „
5 „	— 3.81	+ 16.67	— 5.18	+ 14·68	— 1·05	+ 13·26	— 0·07	+ 9.79	— 0·91	+ 11.30	— 3·37	+ 12·29	— 0·49	+ 1·51	5 „
6 „	— 3.65	+ 13.80	— 4.07	+ 11·82	— 1·70	+ 11·02	— 0·85	+ 9·20	— 1·00	+ 11·82	— 3·13	+ 10·72	— 0·25	— 0·06	6 „
7 „	— 3.74	+ 11.91	— 3.93	+ 10·55	— 1·84	+ 8·89	— 0·86	+ 7.98	— 1·08	+ 9·01	— 3·15	+ 9·35	— 0·27	— 1·43	7 „
8 „	— 3.25	+ 11.51	— 3.98	+ 9·73	— 2·12	+ 8·71	— 1.63	+ 7·59	— 1·50	+ 8·20	— 3·18	+ 8 98	— 0·30	— 1·80	8 „
9 „	— 2.88	+ 11.32	— 4.11	+ 9·72	— 1·96	+ 8·30	— 1·91	+ 7·06	— 1.28	+ 8·46	— 3·08	+ 8·96	— 0·20	— 1·82	9 „
10 „	— 2.81	+ 11.28	— 4.13	+ 9·68	— 2·13	+ 8 43	— 1·89	+ 6·95	— 1·25	+ 8·22	— 3·08	+ 8·74	— 0·20	— 2·00	10 „
11 „	— 3.17	+ 10.98	— 3.78	+ 9·74	— 2·22	+ 8·45	— 2·04	+ 6·54	— 1·36	+ 8·51	— 3·14	+ 8·76	— 0·26	— 2·02	11 „
Mid.	— 2.99	+ 11.10	— 3.42	+ 9·15	— 2·00	+ 7·40	— 1·61	+ 6·37	— 1·30	+ 8·04	— 3·03	+ 8·56	— 0·15	— 2·22	Mid.
Means.	— 2.98	+ 13.75	— 3.83	+ 12·13	— 1·17	+ 10·42	— 0·58	+ 8·45	— 0·41	+ 10·25	— 2·88	+ 10·78	.....	.....	Means

TABLE IV.

OBSERVED MEAN HOURLY VELOCITY AND DIRECTION OF THE WIND IN 1876.

Hours.	January.	February.	March.	April.	May.	June,	July.	August.	September.	October.	November.	December.	Means.	Hours.
	Velocity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	Velecity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	Velocity in miles per Hour.	
1 A. M.	8.6	14.0	8.4	9.5	9.1	9 7	11.3	11 8	9.8	9.5	8.2	9.4	9.9	1 A. M.
2 „	8.3	14.5	8.2	8.8	9.0	9.9	10.4	11 4	10.2	8.9	8.0	8.7	9.7	2 „
3 „	8.4	14.4	7.8	9.0	8.8	9.9	10.1	11.5	10.3	9.3	8.4	8.5	9.7	3 „
4 „	8.9	14.6	7.9	8.8	9.2	10.2	10.8	10.8	10.0	9.5	8.2	8.7	9.8	4 „
5 „	8.2	14 4	7.8	8.6	8.7	9.7	10.9	11.0	10.2	9.2	8.2	8.8	9.6	5 „
6 „	8.8	14.8	8.2	9.0	8.7	10.5	10.4	11.0	10.1	9.3	8.4	8.6	9.8	6 „
7 „	10.2	14.6	8.5	9.4	8.7	10.9	10 9	11.2	10.8	12.0	11.2	11.9	10.9	7 „
8 „	12.7	17.6	10.7	11.9	9.4	11.9	12.0	13.8	14.5	15.6	13.8	15.1	13.2	8 „
9 „	14.9	19.2	13.4	14.9	13.7	16.1	15.5	17.7	16.5	16.6	14.6	16.2	15.8	9 „
10 „	15.0	19.5	13.0	16.3	15.1	17.3	17.3	19.2	17.7	17.4	14.8	17.0	16.6	10 „
11 „	15 8	19.8	14 5	18.2	17.0	19.8	20.5	20.9	18.8	19.0	16.1	18.3	18.2	11 „
Noon	15.9	19.4	15.1	17 6	16.5	19.9	20.0	19.7	19.2	18.6	15.8	18.0	18.0	Noon.
1 P.M.	16.5	19.7	15.3	18.0	17.5	19.1	20.3	20.4	19.8	18.1	16.0	18.4	18.3	1 P. M.
2 „	16.5	20.0	14.9	17.9	18.0	19.1	20.9	21.2	19.5	19.1	16.0	18.8	18.5	2 „
3 „	16.2	19.3	14.8	17.0	16.0	17.5	19.1	19.5	18.0	17.6	14.8	17.4	17.3	3 „
4 „	15 7	18.7	13.7	15.5	14.9	16.6	18.3	19.5	17.8	16.6	14.3	16.8	16.5	4 „
5 „	15.0	17.4	13.2	14.2	12.1	13.5	15.8	18.0	16.7	16.2	14.2	15.7	15.2	5 „
6 „	13.6	16.3	10.9	10.9	9.8	11.2	12.8	14.9	12.9	13 4	12.3	13.8	12.7	6 „
7 „	11.0	13.2	8.7	10.7	9.2	11.0	11.9	13.0	11.3	11.1	10.1	10.9	11.0	7 „
8 „	9.9	13.5	8.1	10.0	9.1	10.2	12.0	12.4	10.6	10.3	9.4	9.8	10.4	8 „
9 „	10.1	13.5	8.0	10.1	9.1	9.9	11.7	12.1	10.6	9.9	9.4	9.8	10.3	9 „
10 „	9.4	13.4	7.7	10.0	8.9	9.4	11.0	12.0	10.6	10.3	8.5	9.7	10.1	10 „
11 „	8.8	13.4	8 6	9.7	8.2	10.2	11 5	11.8	10.4	10.0	7.9	9.8	10.0	11 „
Midnight	9.1	14.0	9.0	8.9	8.3	9.8	11.4	11.9	9 9	9.4	7.7	9.2	9.9	Midnight.
Means	12.0	16.0	10.6	12.3	11.5	13.1	14.0	14.8	13.6	13.2	11.5	12.9	13.0	Means.

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