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MAURITIUS

METEOROLOGICAL RESULTS

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1884

National Oceanic and Atmospheric Administration

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MAURITIUS

METEOROLOGICAL RESULTS

FOR

1883. – 1886

Results of Meteorological Observations taken during the year 1883, *at the Royal Alfred Observatory, Mauritius, Lat.* 20° 5′ 39″ *S. Long.* 3 *hrs.* 50 *m.* 12 *s.* 6 *E.*

The Observatory is about 3 miles from the west coast and stands on a plain which is 179 English feet above the sea-level. From W.S.W., through West, to North, there is an uninterrupted view of the sea; and from the North, through East to S.E., the ground generally slopes from the Piton, the summit of which bears about four miles E. b. S., and is 917 feet (English) 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 2,874 feet above the sea. The nearest extremities of two spurs, which run N. and N.N.W. from the Pieterboth, are at a distance of three to four miles, and have an elevation of about 560 feet.

The island is of volcanic origin, and the rocks are more or less magnetic. Around the Observatory the soil has a depth of 3 to 14 feet, below which is solid basalt.

The Standard barometer (Hicks, No. 687,) has an index error (including capillary action) of— .004 inch, and the cistern is 180.86 feet above the sea-level.

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

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

The direction and velocity of the wind are recorded by a self-registering Kew anemometer by Casella.

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

During the year, five eye-observations of the principal elements have been taken daily, viz: at 6 and 9 A.M. and 1, 3 and 3.58 P.M.

The minimum thermometers have been read daily at 9 A.M. and the maximum at 3 P.M.

RESULTS OF OBSERVATIONS.

Table I has been derived from hourly values of the ordinates of the Barograph curves, these values having been obtained by measurement and then converted into absolute values. Tables showing the hourly readings for each day have been prepared, but their insertion here would occupy too much space.

Table II gives the daily and monthly means of the atmospheric pressure, derived from the hourly values. The observations are corrected for capillarity and temperature, but not reduced to sea-level. The other tables require no explanation.

TABLE I

HOURLY AND MONTHLY MEANS OF THE ATMOSPHERIC PRESSURE DURING THE YEAR 1883.

Hours.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Hourly means.	Variation + above − below mean.	Hours.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.		
1 A. M.	29.746	29.727	29.784	29.832	29.907	29.944	30.036	29.977	30.019	29.968	29.840	29.800	29.882	+ .007	1 A. M.
2 „	29.731	29.712	29.768	29.820	29.894	29.933	30.024	29.964	30.005	29.953	29.827	29.786	29.868	− .007	2 „
3 „	29.722	29.703	29.760	29.811	29.885	29.924	30.015	29.957	29.994	29.946	29.822	29.782	29.860	− .015	3 „
4 „	29.719	29.702	29.758	29.808	29.881	29.921	30.009	29.952	29.990	29.945	29.824	29.785	29.858	− .017	4 „
5 „	29.727	29.707	29.764	29.812	29.883	29.922	30.008	29.956	29.998	29.953	29.828	29.797	29.863	− .012	5 „
6 „	29.742	29.719	29.775	29.822	29.896	29.931	30.015	29.966	30.012	29.967	29.841	29.814	29.875	.000	6 „
7 „	29.754	29.731	29.788	29.837	29.911	29.943	30.030	29.978	30.027	29.979	29.851	29.826	29.888	+ .013	7 „
8 „	29.760	29.744	29.802	29.851	29.921	29.960	30.047	29.992	30.037	29.986	29.858	29.829	29.899	+ .024	8 „
9 „	29.762	29.752	29.809	29.860	29.932	29.971	30.062	30.002	30.042	29.986	29.859	29.829	29.905	+ .030	9 „
10 „	29.758	29.747	29.806	29.858	29.929	29.967	30.059	29.999	30.036	29.980	29.850	29.827	29.901	+ .026	10 „
11 „	29.750	29.737	29.798	29.846	29.915	29.954	30.047	29.984	30.023	29.966	29.841	29.818	29.890	+ .015	11 „
Noon	29.738	29.724	29.782	29.825	29.895	29.933	30.025	29.961	30.001	29.949	29.828	29.805	29.872	− .003	Noon.
1 P. M.	29.729	29.708	29.764	29.809	29.875	29.911	30.004	29.943	29.985	29.932	29.814	29.793	29.856	− .019	1 P. M.
2 „	29.716	29.696	29.752	29.793	29.862	29.900	29.990	29.927	29.968	29.917	29.800	29.782	29.842	− .033	2 „
3 „	29.706	29.689	29.742	29.787	29.860	29.897	29.986	29.924	29.965	29.912	29.793	29.769	29.836	− .039	3 „
4 „	29.701	29.685	29.743	29.791	29.866	29.901	29.989	29.930	29.967	29.916	29.793	29.768	29.837	− .038	4 „
5 „	29.706	29.690	29.751	29.802	29.878	29.910	30.000	29.939	29.978	29.926	29.805	29.777	29.847	− .028	5 „
6 „	29.720	29.706	29.767	29.817	29.888	29.923	30.010	29.951	29.994	29.943	29.822	29.795	29.861	− .014	6 „
7 „	29.737	29.725	29.782	29.829	29.902	29.935	30.023	29.964	30.012	29.962	29.842	29.814	29.877	+ .002	7 „
8 „	29.751	29.742	29.798	29.844	29.916	29.949	30.037	29.979	30.031	29.979	29.858	29.827	29.893	+ .018	8 „
9 „	29.763	29.753	29.810	29.856	29.923	29.957	30.045	29.989	30.043	29.991	29.867	29.835	29.903	+ .028	9 „
10 „	29.769	29.758	29.812	29.856	29.923	29.959	30.048	29.989	30.045	29.991	29.873	29.841	29.905	+ .030	10 „
11 „	29.766	29.755	29.806	29.851	29.921	29.958	30.046	29.988	30.042	29.988	29.865	29.836	29.902	+ .027	11 „
Midnight	29.754	29.744	29.796	29.842	29.912	29.953	30.040	29.984	30.034	29.977	29.849	29.820	29.892	+ .017	Midnight.
Monthly Means.	29.739	29.723	29.780	29.827	29.899	29.936	30.025	29.966	30.010	29.959	29.835	29.806	29.875		Monthly Means.
Monthly Means reduced to sea-level.	29.927	29.911	29.969	30.016	30.089	30.128	30.217	30.158	30.202	30.151	30.025	29.995	30.066		Monthly Means reduced to sea-level.

TABLE II

DAILY AND MONTHLY MEANS OF THE ATMOSPHERIC PRESSURE DURING 1883.

Days of Months.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.	Days of Months.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	
1st	29.910	29.700	29.823	29.892	29.837	29.935	30.012	29.954	29.940	30.038	29.960	29.761	29.897	1st
2nd	29.880	29.693	29.787	29.840	29.882	29.959	29.952	29.932	29.951	29.979	29.928	29.727	29.876	2nd
3rd	29.877	29.668	29.800	29.818	29.902	26.927	29.963	29.972	29.978	30.006	29.936	29.750	29.883	3rd
4th	29.895	29.668	29.792	29.880	29.885	29.875	29.994	30.019	30.012	30.040	29.903	29.771	29.894	4th
5th	29.891	29,675	29.737	29.904	29.851	29.858	29.995	30.002	29.991	30.044	29.859	29.785	29.883	5th
6th	29.856	29.683	29.729	29.859	29.824	29.828	29.983	29.960	29.979	30.045	29.861	29.687	29.858	6th
7th	29.834	29.666	29.803	29.832	29.795	29.845	30.012	29.933	29.994	30.047	29.892	29.679	29.861	7th
8th	29.855	29.705	29.877	29.881	29.781	29.900	30.094	29.941	29.977	30.060	29.907	29.805	29.899	8th
9th	29.829	29.721	29.848	29.907	29.813	29.922	30.145	29.937	29.980	30.044	29.911	29.858	29.910	9th
10th	29.779	29.750	29.809	29.917	29.843	29.903	30.106	29.938	30.007	30.017	29.905	29.882	29.905	10th
11th	29.760	29.735	29.803	29.898	29.925	29.901	30.094	29.938	29.988	30.005	29.836	29.872	29.896	11th
12th	29.768	29.657	29.763	29.846	29.971	29.913	30.082	29.959	29.970	30.000	29.764	29.857	29.879	12th
13th	29.721	29.616	29.768	29.849	29.932	29.950	30.048	30.035	30.028	29.983	29.783	29.836	29.879	13th
14th	29.683	29.683	29.782	29.879	29.891	29.984	29.984	30.026	30.011	29.947	29.785	29.814	29.872	14th
15th	29.688	29.707	29.723	29.872	29.935	29.983	30.001	30.017	29.997	29.937	29.744	29.837	29.870	15th
16th	29.673	29.719	29.694	29.814	29.979	29.962	30.030	30.008	30.011	29.943	29.726	29.880	29.870	16th
17th	29.671	29.696	29.754	29.758	29.942	29.948	30.050	30.003	30.036	29.930	29.754	29.897	29.870	17th
18th	29.717	29.659	29.790	29.716	29.903	29.941	30.025	29.983	30.098	29.916	29.833	29.862	29.870	18th
19th	29.735	29.666	29.779	29.706	29.935	29.947	30.015	29.954	30.091	29.881	29.850	29.766	29.860	19th
20th	29.696	29.738	29.801	29.749	29.979	29.948	30.041	29.966	30.073	29.858	29.801	29.747	29.866	20th
21st	29.580	29.772	29.831	29.750	29.987	29.947	30.033	29.984	30.051	29.854	29.769	29.794	29.863	21st
22nd	29.552	29.761	29.826	29.699	29.975	29.921	29.973	29.960	30.032	29.862	29.793	29.850	29.850	22nd
23rd	29.700	29.781	29.747	29.703	29.976	29.864	29.934	29.934	30.018	29.878	29.837	29.857	29.852	23rd
24th	29.666	29.815	29.650	29.783	29.964	29.878	29.958	29.945	29.994	29.899	29.836	29.836	29.852	24th
25th	39.681	29.817	29.645	29.833	29.922	29.980	29.962	29.925	29.998	29.897	29.833	29.835	29.861	25th
26th	29.736	29.815	29.718	29.833	29.908	29.997	30.028	29.936	30.017	29.895	29.828	29.818	29.877	26th
27th	29.686	29.838	29.795	29.807	29.906	30.004	30.093	29.984	30.009	29.926	29.832	29.786	29.889	27th
28th	29.611	29.844	29.805	29.849	29.889	30.003	30.073	29.984	29.989	29.939	29.830	29.750	29.880	28th
29th	29.640	.....	29.794	29.878	29.868	30.004	30.035	29.956	30.026	29.929	29.784	29.761	29.880	29th
30th	29.646	.....	29.827	29.872	29.829	30.042	30.034	29.942	30.063	29.955	29.785	29.767	29.887	30th
31st	29.679	.....	29.876	.....	29.840	.....	30.021	29.933	.....	29.976	.....	29.834	29.880	31st
Means	29.739	29.723	29.780	29.827	29.899	29.936	30.025	29.966	30.010	29.959	29.835	29.805	29.876	Means.

TABLE III

MONTHLY AND DAILY RANGE OF THE ATMOSPHERIC PRESSURE DURING 1883.

MONTHS	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Mean for Year.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
Highest Reading (Red. to sea-level	30.128	30.067	30.124	30.148	30.213	30.276	30.367	30.270	30.327	30.288	30.194	30.124	30.210
Lowest " " "	29.581	29.757	29.786	29.766	29.927	29.973	30.077	30.066	30.081	29.996	29.879	29.705	29.883
Range in Month	0.547	0.310	0.338	0.382	0.286	0.303	0.290	0.204	0.246	0.292	0.315	0.419	0.327
Mean Range from 4 a.m. to 9 p.m.....	0.043	0.050	0.051	0.052	0.051	0.050	0.053	0.050	0.052	0.041	0.035	0.044	0.047
" " 9 a.m. to 3 p.m.....	0.056	0.063	0.067	0.073	0.072	0.074	0.076	0.078	0.077	0.074	0.066	0.060	0.070
" " 3 p.m. to 10 a.m.....	0.063	0.069	0.070	0.069	0.063	0.062	0.062	0.065	0.080	0.079	0.080	0.072	0.069
" " 10 p.m. to 4 a.m.....	0.050	0.056	0.054	0.048	0.042	0.038	0.039	0.037	0.055	0.046	0.049	0.056	0.047
Mean Diurnal Range	0.053	0.059	0.060	0.060	0.057	0.056	0.057	0.057	0.066	0.060	0.057	0.058	0.058

TABLE IV

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 1883.

Months.	Barometer Readings corrected for capillarity and reduced to 32° Fah.			Barograph Readings.		
	9 A.M.	3 P.M.	Means.	9 A.M.	3 P.M.	Means.
	ins.	ins.	ins.	ins.	ins.	ins.
January...	29.762	29.707	29.734	29.762	29.706	29.734
February	29.753	29.690	29.721	29.752	29.689	29.720
March	29.810	29.743	29.776	29.809	29.742	29.775
April	29.858	29.786	29.822	29.860	29.787	29.823
May	29.931	29.860	29.895	29.932	29.860	29.896
June	29.971	29.899	29.935	29.971	29.897	29.934
July	30.060	29.988	30.024	30.062	29.986	30.024
August	30.002	29.926	29.964	30.002	29.924	29.963
September	30.040	29.964	30.002	30.042	29.965	30.003
October	29.984	29.913	29.948	29.986	29.912	29.949
November	29.857	29.793	29.825	29.859	29.793	29.826
December	29.828	29.768	29.798	29.829	29.769	29.799
Means	29.904	29.836	29.870	29.905	29.836	29.870

TABLE V

MEAN MONTHLY AND ANNUAL VARIATION OF THE ATMOSPHERIC PRESSURE, DEDUCED FROM NINE YEARS' OBSERVATIONS MADE IN 1875-83.

Hours.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.	Hours.
1 A.M. ...	+ .004	+ .006	+ .007	+ .007	+ .006	+ .008	+ .010	+ .010	+ .010	+ .007	+ .004	+ .001	+ .007	1 A.M.
2 " ...	− .009	− .009	− .007	− .006	− .005	− .004	− .002	− .002	− .003	− .006	− .009	− .012	− .006	2 "
3 " ...	− .017	− .017	− .017	− .015	− .014	− .012	− .009	− .010	− .012	− .013	− .014	− .018	− .014	3 "
4 " ...	− .018	− .019	− .021	− .019	− .019	− .016	− .014	− .015	− .016	− .014	− .013	− .018	− .017	3 "
5 " ...	− .009	− .015	− .016	− .015	− .016	− .016	− .014	− .013	− .009	− .006	− .007	− .009	− .012	5 "
6 " ...	+ .005	− .005	− .006	− .005	− .005	− .007	− .006	− .001	+ .004	+ .007	+ .008	+ .006	.000	6 "
7 " ...	+ .016	+ .009	+ .007	+ .009	+ .010	+ .006	+ .007	+ .011	+ .017	+ .019	+ .019	+ .017	+ .012	7 "
8 " ...	+ .020	+ .018	+ .020	+ .021	+ .023	+ .023	+ .023	+ .025	+ .029	+ .028	+ .024	+ .022	+ .023	8 "
9 " ...	+ .022	+ .023	+ .028	+ .031	+ .034	+ .034	+ .036	+ .036	+ .034	+ .031	+ .026	+ .022	+ .030	9 "
10 " ...	+ .017	+ .020	+ .026	+ .029	+ .031	+ .030	+ .033	+ .033	+ .028	+ .022	+ .017	+ .018	+ .025	10 "
11 " ...	+ .010	+ .013	+ .019	+ .017	+ .017	+ .018	+ .021	+ .020	+ .014	+ .010	+ .008	+ .011	+ .015	11 "
Noon. ...	− .002	+ .001	+ .001	− .004	− .004	− .002	− .001	− .003	− .008	− .008	− .007	− .002	− .003	Noon.
1 P.M. ...	− .012	− .014	− .016	− .021	− .023	− .023	− .021	− .020	− .026	− .024	− .021	− .013	− .019	1 P.M.
2 " ...	− .026	− .026	− .030	− .035	− .036	− .035	− .035	− .037	− .042	− .039	− .035	− .026	− .033	2 "
3 " ...	− .036	− .035	− .038	− .040	− .038	− .037	− .039	− .041	− .047	− .046	− .042	− .036	− .040	3 "
4 " ...	− .040	− .037	− .037	− .036	− .034	− .033	− .035	− .038	− .044	− .044	− .043	− .039	− .038	4 "
5 " ...	− .033	− .031	− .029	− .025	− .023	− .023	− .026	− .030	− .034	− .035	− .032	− .031	− .029	5 "
6 " ...	− .017	− .016	− .016	− .013	− .012	− .012	− .015	− .018	− .018	− .016	− .014	− .015	− .015	6 "
7 " ...	+ .001	+ .002	.000	+ .002	+ .003	+ .002	− .003	− .004	.000	+ .003	+ .004	+ .002	+ .001	7 "
8 " ...	+ .015	+ .017	+ .017	+ .020	+ .018	+ .015	+ .011	+ .013	+ .017	+ .019	+ .020	+ .016	+ .016	8 "
9 " ...	+ .026	+ .029	+ .030	+ .029	+ .025	+ .023	+ .020	+ .022	+ .029	+ .030	+ .029	+ .026	+ .026	9 "
10 " ...	+ .034	+ .035	+ .033	+ .030	+ .026	+ .025	+ .022	+ .023	+ .030	+ .031	+ .035	+ .033	+ .030	10 "
11 " ...	+ .030	+ .031	+ .028	+ .025	+ .024	+ .022	+ .020	+ .022	+ .027	+ .028	+ .029	+ .030	+ .026	11 "
Midnight...	+ .016	+ .019	+ .018	+ .018	+ .016	+ .016	+ .015	+ .017	+ .020	+ .016	+ .015	+ .016	+ .017	Midnight.

TABLE VI

TEMPERATURE OF AIR, EVAPORATION, AND DEW POINT.

Observations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.
	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
Temperature of Air.													
(Dry Bulb. Ther. in Shade.)													
Monthly Means	78.6	78.2	78.0	76.3	73.3	71.2	69.3	69.3	69.8	71.1	74.1	76.7	73.8
Mean at 6 a.m.	75.7	75.1	74.2	73.2	70.2	68.0	66.4	66.1	66.4	67.3	70.2	73.3	70.5
" 9 "	79.7	79.2	79.2	77.2	74.0	71.2	69.5	70.1	70.7	73.2	76.2	78.4	74.9
" 1 p.m.	81.8	81.4	82.1	79.5	76.5	74.6	72.2	73.0	73.7	75.8	78.6	80.7	77.5
" 3 "	81.6	81.3	81.9	79.4	76.4	74.4	72.2	72.6	73.2	74.9	78.1	80.2	77.2
Highest Readings	84.3	83.8	86.1	83.7	80.7	79.4	76.5	77.5	76.6	80.3	82.6	85.0	81.4
Lowest "	72.5	70.4	68.4	66.1	63.5	59.4	58.0	58.6	58.5	62.0	65.5	64.8	64.0
Range in Month	11.8	13.4	17.7	17.6	17.2	20.0	18.5	18.9	18.1	18.3	17.1	20.2	17.4
Mean of Highest Daily Readings..	82.9	82.5	83.4	81.1	77.7	75.8	73.4	74.1	74.9	76.9	79.7	82.2	78.7
" Lowest " ...	75.2	74.6	73.5	72.1	69.2	65.2	64.1	64.2	64.7	66.2	69.5	72.5	69.2
Approximate Means.....	79.0	78.5	78.4	76.6	73.4	70.5	68.8	69.1	69.8	71.5	74.6	77.3	74.0
Mean Diurnal Range	7.7	7.9	9.9	9.0	8.5	10.6	9.3	9.9	10.2	10.7	10.2	9.7	9.5
Greatest "	10.9	12.0	13.8	14.8	13.0	18.3	16.2	16.2	16.0	15.0	13.0	15.2	14.5
Least "	4.6	4.6	4.2	2.1	3.8	3.2	4.0	5.7	6.1	6.9	7.7	3.6	4.7
Temperature of Evaporation.													
(Wet Bulb. Ther. in Shade.)													
Monthly Means	73.3	73.3	73.1	72.3	68.7	65.5	63.4	63.8	64.0	65.4	68.6	71.8	68.6
Mean at 6 a.m.	72.3	71.8	71.3	70.8	67.0	63.6	62.2	62.3	62.5	63.9	67.4	70.5	67.1
" 9 "	74.0	74.1	73.5	73.3	69.8	66.6	64.4	65.0	64.9	66.1	69.6	72.3	69.5
" 1 p.m.	74.5	74.9	75.2	73.8	70.8	67.5	64.9	65.5	65.6	67.1	70.1	73.0	70.2
" 3 "	74.4	74.9	74.9	73.9	70.5	67.4	64.6	65.3	65.6	67.0	69.9	73.1	70.1
Highest Readings	78.6	79.2	78.7	77.5	76.1	74.0	72.0	71.4	69.5	72.3	74.6	76.7	75.0
Lowest "	68.1	67.1	64.6	64.3	60.2	57.0	54.1	54.5	55.0	55.5	62.9	62.0	60.4
Range in Month	10.5	12.1	14.1	13.2	15.9	17.0	17.9	16.9	14.5	16.8	11.7	14.7	14.6
Mean of Highest Daily Readings..	75.8	76.3	76.5	75.8	72.0	69.0	66.4	66.8	67.0	68.5	71.3	74.4	71.6
" Lowest " ...	71.4	71.3	70.5	69.7	65.8	61.9	60.3	60.7	61.2	62.8	66.8	69.6	66.0
Approximate Means.....	73.6	73.8	73.5	72.7	68.9	65.4	63.3	63.7	64.1	65.6	69.0	72.0	68.8
Mean Diurnal Range	4.4	5.0	6.0	6.1	6.2	7.1	6.1	6.1	5.8	5.7	4.5	4.8	5.6
Greatest "	9.0	8.2	10.5	11.4	9.6	12.4	11.3	10.4	13.0	9.8	8.0	9.3	10.2
Least "	2.5	2.8	3.8	3.7	4.0	3.9	2.3	1.8	1.7	2.7	1.4	1.8	2.7
Dew Point.													
(Deduced.)													
Monthly Means	69.7	70.0	69.7	69.5	65.3	61.2	58.8	59.5	59.7	61.2	64.8	68.3	64.8
Mean at 6 a.m.	69.8	69.4	69.2	68.9	64.5	60.2	58.7	59.2	59.4	61.1	65.3	68.4	64.5
" 9 "	70.2	70.7	71.3	70.6	66.7	63.1	60.4	61.0	60.5	60.9	65.0	68.1	65.7
" 1 p.m.	69.5	70.5	70.6	69.9	66.7	62.3	59.3	60.0	59.7	61.0	64.2	67.9	65.1
" 3 "	69.6	70.6	70.3	70.2	66.2	62.2	59.0	59.9	60.0	61.3	64.3	68.2	65.1
Highest in Month	74.7	74.8	76.0	74.3	73.6	69.7	68.1	68.1	66.5	68.0	71.9	73.9	71.6
Lowest "	61.9	64.5	60.6	63.4	57.0	52.6	50.1	49.0	51.4	48.2	56.1	60.7	56.3
Range "	12.8	10.3	15.4	10.9	16.6	17.1	18.0	19.1	15.1	19.8	15.8	13.2	15.3
Greatest Diurnal Range	5.5	5.1	8.9	8.7	6.8	6.4	9.5	7.2	8.7	5.5	6.4	4.1	6.9
Least "	0.4	0.4	0.8	0.7	1.0	0.4	1.1	1.7	0.9	1.0	0.6	1.0	0.8

TABLE VII

ELASTIC FORCE OF VAPOUR, RELATIVE HUMIDITY, CLOUD AND RAINFALL

Observations.	January	Feb.	March	April	May	June	July	August	Septem.	October	Novem.	Decem.	Means.
Elastic Force of Vapour. (Deduced.)	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
Monthly Means	.729	.737	.731	.725	.629	.544	.502	.515	.515	.546	.615	.696	.624
Mean at 6 A.M.	.731	.723	.719	.709	.610	.523	.499	.509	.510	.544	.626	.699	.617
" 9 "	.741	.753	.771	.751	.659	.582	.529	.542	.530	.541	621.	.693	.643
" 1 P.M.	.726	.748	.750	.732	.660	.566	.511	.524	.516	.541	.603	.685	.630
" 3 "	.728	.751	.744	.741	.648	.565	.505	.522	.521	.548	.605	.694	.631
Highest in Month	.860	.863	.900	.849	.831	.726	.688	.688	.650	.684	.782	.839	.780
Lowest "	.554	.608	.530	.585	.464	.397	.362	.347	.380	.339	.450	.530	.462
Range "	.306	.255	.370	.264	.367	.329	.326	.341	.270	.345	.332	.309	.318
Greatest Diurnal Range	.124	.124	.201	.204	.146	.143	.149	.137	.154	.112	.117	.100	.144
Least "	.007	.012	.018	.016	.024	.007	.019	.030	.016	.021	.013	.025	.017
Relative Humidity. (Deduced, Comp. Sat.=100.)	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.	Rel.
Monthly Means	74.7	76.5	76.4	80.1	76.5	71.2	70.2	71.8	71.1	72.1	73.6	75.9	74.2
Mean at 6 A.M.	81.9	82.8	84.6	86.4	82.1	76.3	76.8	78.7	78.6	80.9	84.3	84.7	81.5
" 9 "	73.1	75.2	77.0	80.2	78.2	75.8	73.0	73.1	70.2	65.6	68.7	71.1	73.4
" 1 P.M.	67.2	69.8	68.4	73.0	72.1	66.0	64.1	64.3	61.8	60.5	61.6	65.3	64.5
" 3 "	67.6	70.3	68.2	73.8	71.0	66.1	63.7	64.9	63.7	63.3	62.9	67.2	66.9
Highest in Month	90.0	89.5	92.7	93.5	91.5	89.0	91.0	88.0	88.0	92.2	91.5	94.0	90.9
Lowest "	51.0	58.2	53.3	58.2	58.2	51.7	47.7	49.7	49.4	47.6	50.0	53.9	52.4
Range "	39.0	31.3	39.4	35.3	33.3	37.3	43.3	38.3	38.6	44.6	41.5	40.1	38.5
Greatest Diurnal Range	29.5	25.2	25.6	25.7	24.1	26.2	28.0	25.0	33.6	30.7	33.5	31.8	28.2
Least "	4.5	4.0	4.5	3.5	2.5	4.1	6.0	3.5	7.5	13.7	12.1	4.5	5.9
Upper Cloud. (10=Overcast.)													
Monthly Means	2.1	0.7	2.1	1.0	0.9	0.1	0.3	0.7	0.5	0.3	0.4	1.3	0.9
Mean at 6 A.M.	2.6	0.7	2.0	1.6	0.6	0.1	0.4	1.1	0.5	0.1	0.2	1.0	0.9
" 9 "	2.0	0.5	2.0	0.9	1.1	0.0	0.6	0.8	0.5	.0.2	0.5	1.2	0.9
" 1 P.M.	1.8	0.9	2.3	0.7	1.0	0.3	0.2	0.4	0.7	0.6	0.4	1.2	0.9
" 3 "	1.9	0.7	2.1	1.0	1.0	0.1	0.2	0.5	0.5	0.4	0.5	1.7	0.9
Lower Cloud. (10=Overcast.)													
Monthly Means	5.5	5.5	4.4	4.9	4.4	4.2	5.0	5.3	5.4	5.6	4.4	5.0	5.0
Mean at 6 A.M.	4.4	4.8	3.6	4.0	4.6	3.3	4.0	3.9	4.6	4.2	2.8	4.0	4.0
" 9 "	5.8	5.7	4.5	5.2	3.9	4.1	5.1	5.4	5.7	5.4	4.4	5.1	5.0
" 1 P.M.	5.7	5.7	4.6	5.4	5.0	4.4	5.7	6.0	5.5	5.9	5.4	5.6	5.4
" 3 "	6.0	5.0	5.1	5.2	4.2	5.0	5.1	6.0	5.9	7.0	5.2	5.5	5.4
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
Rainfall	7.44	4.38	4.99	12.22	6.25	1.97	0.72	1.33	1.07	1.89	1.41	4.02	47.69
No. of days on which rain fell...	19	19	14	19	18	13	12	16	13	13	11	13	180
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
Mean Rainfall for the years 1875-83	6.78	6.70	6.72	6.65	4.37	1.96	2.32	2.07	1.45	1.69	2.25	5.77	48.73
Excess or Defect in 1883	+0.66	−2.32	−1.73	+5.57	+1.88	+0.01	−1.60	−0.74	−0.38	+0.20	−0.84	−1.75	−1.04

TABLE VIII

NUMBER OF TIMES THE WIND BLEW FROM

Months.	North. 0.0 0.5	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. 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. N. 29.0 29.5	N. N. W. 30.0 30.5	N. b. W. 31.0 31.5	Calms.	Totals.	Months.
January	9	18	22	32	68	99	145	140	85	40	32	13	9	4	...	...	1	...	1	1	3	3	...	2	...	...	...	1	1	1	5	3	...	738	January.
February.....	5	1	10	12	24	35	34	59	52	91	166	70	21	10	8	8	2	2	...	1	2	6	7	5	12	6	9	7	2	4	...	...	1	672	February.
March	17	9	3	10	7	28	76	93	132	87	97	59	25	14	5	1	1	...	1	3	1	3	6	9	8	5	6	5	2	10	14	7	...	744	March.
April	5	1	6	12	5	13	52	104	138	115	140	51	24	6	1	...	1	1	...	1	...	3	8	13	2	1	4	2	1	4	4	2	...	720	April.
May	2	8	3	9	19	17	33	37	74	109	238	117	42	11	3	1	...	...	...	...	...	...	...	...	1	10	1	2	...	4	3	...	...	744	May.
June.....	2	...	1	1	1	1	10	20	41	79	183	141	61	78	36	15	16	7	1	...	2	4	5	3	4	1	2	1	1	2	...	1	...	720	June.
July	1	1	...	...	...	3	10	25	59	125	211	178	52	36	19	6	4	2	1	...	1	2	1	...	...	2	...	...	...	1	...	4	...	744	July.
August.....	...	...	...	...	...	...	12	33	62	102	162	168	94	42	21	12	5	5	6	...	3	4	2	1	3	1	1	...	2	1	1	1	...	744	August.
September ...	3	...	...	...	...	1	5	10	41	95	231	182	51	27	10	11	9	4	2	1	1	2	4	7	5	7	6	2	1	...	2	...	...	720	September.
October	...	...	1	1	1	6	31	74	85	102	172	148	42	32	9	1	1	...	2	2	7	7	7	5	1	...	6	1	...	...	...	...	...	744	October.
November ...	2	2	1	2	5	12	50	84	89	140	179	64	40	3	1	2	2	...	1	...	...	2	5	1	3	3	7	14	3	...	...	3	...	720	November.
December ...	13	15	21	39	41	53	77	80	43	37	72	68	93	7	4	5	...	2	1	1	5	...	5	3	2	3	3	7	8	5	17	10	4	744	December.
Totals	59	55	68	118	171	268	535	759	901	1122	1883	1259	554	270	117	62	42	23	16	10	25	36	50	49	41	39	45	42	21	32	46	31	5	8754	Totals.
Percentages...	0.67	0.63	0.78	1.35	1.95	3.06	6.11	8.67	10.29	12.82	21.51	14.38	6.33	3.08	1.34	0.71	0.48	0.26	0.18	0.11	0.29	0.41	0.57	0.56	0.47	0.45	0.51	0.48	0.24	0.37	0.53	0.35	0.06	100.00	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 IX

OBSERVED MEAN HOURLY VELOCITY OF THE WIND IN 1883.

Hours.	January. Velocity in miles per hour.	February. Velocity in miles per hour.	March. Velocity in miles per hour.	April. Velocity in miles per hour.	May. Velocity in miles per hour.	June. Velocity in miles per hour.	July. Velocity in miles per hour.	August. Velocity in miles per hour.	September. Velocity in miles per hour.	October. Velocity in miles per hour.	November. Velocity in miles per hour.	December. Velocity in miles per hour.	Means. Velocity in miles per hour.	Hours.
1 A.M.	7.7	7.8	7.0	7.9	7.9	8.9	8.8	8.1	8.7	7.2	8.5	7.8	8.0	1 A.M.
2 „	8.3	7.7	7.4	8.1	7.9	9.1	8.8	8.3	8.4	8.2	8.1	7.6	8.2	2 „
3 „	8.1	7.9	6.9	8.0	8.6	9.3	9.1	8.6	8.6	7.5	7.9	8.2	8.2	3 „
4 „	8.0	7.8	6.4	7.4	8.8	9.3	9.3	9.0	8.8	7.7	8.4	7.9	8.2	4 „
5 „	7.4	8.3	6.8	7.8	8.8	8.9	9.6	8.5	8.9	7.4	8.8	7.8	8.2	5 „
6 „	7.7	8.1	7.1	7.9	8.8	8.7	9.3	9.0	8.7	7.6	8.8	7.6	8.3	6 „
7 „	9.7	9.0	6.3	7.9	8.5	9.2	9.5	8.7	9.5	9.2	11.2	9.4	9.0	7 „
8 „	14.2	11.9	7.9	9.7	9.4	9.0	10.6	11.1	12.1	13.1	14.3	12.6	11.3	8 „
9 „	16.6	14.0	10.9	12.9	13.1	12.3	13.5	15.4	15.1	15.1	14.8	13.8	14.0	9 „
10 „	17.0	14.6	11.5	13.3	13.4	12.7	16.3	16.4	16.9	15.5	15.8	14.2	14.8	10 „
11 „	17.7	15.3	12.7	13.5	15.6	14.3	17.5	17.5	17.5	16.1	16.1	14.1	15.7	11 „
Noon	16.8	16.1	13.1	13.7	15.4	14.5	17.1	18.0	18.0	16.1	15.9	14.8	15.8	Noon.
1 P.M.	16.8	16.4	13.0	14.2	15.0	14.7	17.5	17.4	17.8	16.5	15.8	14.6	15.8	1 P.M.
2 „	16.3	16.1	12.7	13.9	15.5	14.7	18.1	17.4	17.6	16.3	16.1	14.1	15.7	2 „
3 „	15.9	15.8	12.6	12.5	14.8	14.5	17.8	16.5	16.9	15.5	15.8	13.7	15.2	3 „
4 „	15.4	15.1	11.9	12.5	13.6	13.9	17.1	15.7	17.4	14.4	15.3	13.0	14.6	4 „
5 „	14.7	14.8	11.0	11.3	10.7	11.4	13.4	13.3	15.0	12.8	13.8	12.7	12.9	5 „
6 „	13.0	12.6	8.5	8.7	8.2	9.4	10.2	11.0	11.6	10.5	11.6	11.4	10.6	6 „
7 „	10.5	9.6	7.3	7.8	8.7	9.0	9.1	9.6	9.9	8.6	9.7	8.7	9.0	7 „
8 „	8.7	8.6	7.1	7.8	8.7	8.2	9.5	9.6	9.8	8.6	8.8	8.1	8.6	8 „
9 „	8.9	8.7	7.4	7.7	8.3	8.9	8.9	8.7	9.7	8.8	8.9	7.8	8.6	9 „
10 „	8.9	8.0	7.5	7.7	8.0	9.2	8.4	8.0	9.5	8.5	8.8	7.8	8.4	10 „
11 „	8.8	8.1	7.7	7.8	8.1	8.8	8.6	7.8	8.9	7.9	8.4	7.7	8.2	11 „
Midnight ...	8.3	7.8	7.4	8.3	7.9	9.0	8.7	7.7	9.2	7.9	8.5	8.0	8.2	Midnight.
Means	11.9	11.3	9.1	9.9	10.6	10.8	11.9	11.7	12.3	11.1	11.7	10.6	11.1	Means.

TABLE X

OBSERVED MEAN DAILY AND MONTHLY VELOCITY OF THE WIND IN 1883.

Days of Months.	January. Velocity in miles per hour.	February. Velocity in miles per hour.	March. Velocity in miles per hour.	April. Velocity in miles per hour.	May. Velocity in miles per hour.	June. Velocity in miles per hour.	July. Velocity in miles per hour.	August. Velocity in miles per hour.	September. Velocity in miles per hour.	October. Velocity in miles per hour.	November. Velocity in miles per hour.	December. Velocity in miles per hour.	Means. Velocity in miles per hour.	Days of Months.
1st	11.5	17.6	7.3	9.5	10.9	10.4	16.2	12.7	6.9	13.5	14.0	10.1	11.7	1st
2nd	11.2	13.7	7.1	8.4	10.7	8.7	8.4	5.6	7.5	9.7	16.7	8.6	9.7	2nd
3rd	11.1	8.6	8.1	8.5	23.0	8.2	9.1	7.1	12.2	9.7	18.7	9.0	11.1	3rd
4th	13.4	6.5	6.3	10.7	17.4	5.4	11.0	13.9	12.4	10.8	15.6	7.4	10.9	4th
5th	14.3	6.6	6.8	11.8	11.5	6.6	9.6	12.6	12.9	12.7	16.4	13.1	11.2	5th
6th	9.4	11.4	5.5	9.6	8.5	6.9	9.0	13.4	11.5	13.8	15.7	28.6	11.9	6th
7th	8.2	22.2	7.2	9.6	8.2	6.6	12.3	10.6	12.6	12.3	9.5	24.7	12.0	7th
8th	8.6	17.2	7.0	10.5	8.9	6.1	17.3	10.7	7.3	10.7	7.3	8.6	10.0	8th
9th	9.6	12.1	9.5	11.3	9.3	9.0	13.9	13.6	6.3	10.9	10.8	5.3	10.1	9th
10th	10.0	10.5	9.5	11.4	6.0	6.4	11.3	11.3	6.2	10.9	16.4	5.9	9.6	10th
11th	11.1	12.0	8.9	12.3	10.2	7.4	10.8	7.7	6.8	10.1	11.8	12.6	10.1	11th
12th	11.6	14.3	8.2	11.3	11.6	6.9	12.9	14.2	11.4	9.8	6.9	13.3	11.0	12th
13th	13.0	6.5	7.1	12.8	9.0	13.9	12.6	14.3	13.1	13.1	6.4	8.8	10.9	13th
14th	14.8	8.3	7.7	13.9	8.9	13.0	10.5	9.9	9.2	16.2	5.3	8.4	10.5	14th
15th	12.6	13.1	6.7	13.5	11.0	11.2	15.4	9.4	7.1	12.9	7.6	8.1	10.7	15th
16th	16.0	11.3	7.0	14.0	13.4	10.4	17.0	6.8	7.2	11.7	6.0	10.6	10.9	16th
17th	9.9	16.0	5.9	10.1	8.9	7.8	14.9	6.1	10.2	14.2	11.1	12.1	10.6	17th
18th	9.3	11.7	8.9	11.4	8.1	10.5	10.3	9.4	15.5	11.1	18.9	11.2	11.4	18th
19th	13.3	4.9	18.5	7.2	10.1	10.8	12.6	12.0	18.7	9.0	14.9	8.3	11.7	19th
20th	16.0	5.6	13.2	5.6	12.3	9.6	10.9	16.0	20.5	7.7	13.5	8.5	11.6	20th
21st	12.5	4.2	11.6	6.5	12.4	9.3	8.8	14.9	15.1	5.7	11.0	9.0	10.1	21st
22nd	18.2	7.2	13.1	8.9	10.6	8.5	6.7	13.9	15.0	7.6	7.9	12.4	10.8	22nd
23rd	8.4	10.8	9.0	5.6	13.8	7.1	9.1	5.6	14.0	7.1	9.7	9.7	9.2	23rd
24th	7.3	12.0	10.1	4.8	12.4	14.2	8.1	15.2	16.2	7.2	10.9	9.3	10.6	24th
25th	12.3	12.7	16.9	9.7	11.9	20.4	6.6	14.8	17.1	7.7	10.8	10.9	12.6	25th
26th	9.8	13.8	7.1	11.1	11.0	18.5	11.2	21.0	15.6	8.9	11.0	10.9	12.5	26th
27th	10.5	13.0	9.2	8.8	11.0	16.4	17.3	19.2	14.2	14.3	11.2	8.5	12.8	27th
28th	9.0	11.1	11.7	11.1	8.3	16.5	16.6	12.8	12.8	11.9	11.6	8.3	11.8	28th
29th	12.0	.....	9.9	10.3	5.7	19.2	13.0	10.6	15.5	12.9	10.8	8.7	11.7	29th
30th	15.7	.....	8.9	7.4	6.9	18.3	10.4	9.2	17.4	15.1	11.5	9.9	11.9	30th
31st	16.1	.....	7.7	.....	5.4	.....	16.3	8.9	.....	15.9	.....	6.5	11.0	31st
Means ..	11.8	11.2	9.1	9.9	10.6	10.8	11.9	11.7	12.3	11.1	11.7	10.6	11.1	Means.

TABLE XI

MEAN HOURLY AND MONTHLY NORTH AND EAST COMPONENTS OF THE WIND IN 1883.

Months.	January.		February.		March.		April.		May.		June.		July.		Months.
Hours.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	Hours.
1 A.M.	+ 0.84	+ 6.43	− 1.64	+ 6.49	− 0.94	+ 5.33	− 1.82	+ 6.98	− 2.71	+ 6.98	− 5.25	+ 6.53	− 4.56	+ 7.14	1 A.M.
2 „	+ 0.63	+ 6.49	− 1.59	+ 6.57	− 1.35	+ 5.62	− 1.39	+ 7.11	− 2.84	+ 7.02	− 5.33	+ 6.43	− 4.23	+ 7.30	2 „
3 „	+ 0.52	+ 5.98	− 1.62	+ 6.71	− 1.52	+ 5.39	− 1.69	+ 7.04	− 3.42	+ 7.45	− 5.88	+ 6.42	− 4.72	+ 7.36	3 „
4 „	+ 0.79	+ 5.84	− 1.62	+ 6.53	− 1.51	+ 4.94	− 2.12	+ 6.52	− 3.73	+ 7.32	− 5.64	+ 6.37	− 4.37	+ 7.63	4 „
5 „	+ 0.24	+ 5.68	− 1.75	+ 6.69	− 1.36	+ 5.09	− 1.66	+ 6.67	− 3.34	+ 7.33	− 4.92	+ 6.53	− 4.58	+ 7.80	5 „
6 „	+ 0.78	+ 6.22	− 1.87	+ 6.51	− 1.44	+ 5.02	− 2.25	+ 6.71	− 3.38	+ 7.30	− 5.04	+ 6.54	− 4.41	+ 7.60	6 „
7 „	+ 2.09	+ 7.58	− 1.74	+ 7.98	− 1.69	+ 4.90	− 1.82	+ 6.77	− 2.37	+ 7.32	− 5.19	+ 6.86	− 4.77	+ 7.65	7 „
8 „	+ 5.65	+ 10.38	− 0.81	+ 10.66	− 0.96	+ 5.83	− 1.30	+ 8.82	− 3.33	+ 7.96	− 4.97	+ 6.91	− 4.82	+ 8.87	8 „
9 „	+ 7.27	+ 12.40	+ 0.13	+ 11.86	+ 0.75	+ 7.75	− 1.02	+ 11.34	− 2.56	+ 11.17	− 5.84	+ 9.28	− 5.42	+ 11.14	9 „
10 „	+ 8.18	+ 12.42	− 0.20	+ 12.14	+ 2.11	+ 7.70	+ 1.12	+ 12.16	− 1.99	+ 11.55	− 4.70	+ 10.69	− 5.88	+ 13.94	10 „
11 „	+ 8.47	+ 13.09	+ 1.41	+ 11.92	+ 3.15	+ 8.39	+ 2.14	+ 11.89	− 1.29	+ 13.41	− 5.31	+ 10.83	− 4.97	+ 14.95	11 „
Noon.	+ 7.75	+ 12.58	+ 1.67	+ 12.19	+ 3.43	+ 6.71	+ 2.50	+ 11.50	− 1.88	+ 13.19	− 4.97	+ 10.16	− 5.27	+ 14.66	Noon.
1 P.M.	+ 7.74	+ 12.77	+ 1.80	+ 11.84	+ 3.95	+ 7.12	+ 1.94	+ 10.60	− 1.75	+ 13.01	− 4.98	+ 10.56	− 5.14	+ 14.95	1 P.M.
2 „	+ 7.05	+ 12.81	+ 0.97	+ 10.72	+ 3.89	+ 7.70	+ 1.47	+ 11.40	− 1.85	+ 12.96	− 4.78	+ 10.43	− 4.86	+ 15.52	2 „
3 „	+ 6.59	+ 12.00	+ 0.81	+ 10.57	+ 3.28	+ 8.32	+ 0.94	+ 10.08	− 1.85	+ 12.60	− 4.89	+ 10.91	− 5.33	+ 14.92	3 „
4 „	+ 5.96	+ 11.87	+ 0.57	+ 10.56	+ 2.50	+ 7.54	− 1.03	+ 10.36	− 1.95	+ 11.51	− 5.53	+ 10.60	− 6.38	+ 14.39	4 „
5 „	+ 4.98	+ 11.63	− 1.19	+ 10.81	+ 2.05	+ 7.89	− 1.53	+ 9.57	− 1.75	+ 9.22	− 5.06	+ 8.59	− 5.22	+ 11.55	5 „
6 „	+ 3.67	+ 10.71	− 0.98	+ 9.35	+ 0.60	+ 6.10	− 1.10	+ 6.14	− 2.21	+ 7.01	− 5.13	+ 6.91	− 4.77	+ 8.59	6 „
7 „	+ 2.62	+ 8.62	− 1.20	+ 7.14	+ 0.39	+ 5.63	− 1.13	+ 7.15	− 3.21	+ 7.34	− 4.56	+ 6.84	− 4.12	+ 7.71	7 „
8 „	+ 2.01	+ 7.21	− 2.04	+ 7.01	− 0.06	+ 5.34	− 1.38	+ 7.10	− 3.31	+ 7.30	− 5.05	+ 7.15	− 4.25	+ 8.19	8 „
9 „	+ 2.32	+ 7.86	− 1.89	+ 7.43	− 0.16	+ 5.62	− 1.46	+ 7.00	− 2.91	+ 6.87	− 4.89	+ 6.92	− 4.09	+ 7.43	9 „
10 „	+ 1.33	+ 7.34	− 1.37	+ 7.23	− 0.77	+ 5.86	− 1.17	+ 7.06	− 3.14	+ 6.68	− 4.94	+ 7.08	− 4.03	+ 7.08	10 „
11 „	+ 0.59	+ 6.90	− 1.41	+ 7.04	− 0.48	+ 6.04	− 1.65	+ 6.83	− 3.02	+ 6.89	− 4.52	+ 6.99	− 3.95	+ 7.16	11 „
Midnight ...	+ 1.13	+ 7.13	− 1.57	+ 6.57	− 0.77	+ 5.70	− 1.29	+ 7.01	− 3.12	+ 6.97	− 5.05	+ 6.64	− 3.74	+ 7.32	Midnight.
Means	+ 3.68	+ 9.22	− 0.71	+ 8.85	+ 0.54	+ 6.31	− 0.70	+ 8.49	− 2.62	+ 9.01	− 5.10	+ 8.05	− 4.74	+ 10.04	Means.

TABLE XI.—*(Continued.)*

MEAN HOURLY AND MONTHLY NORTH AND EAST COMPONENTS OF THE WIND IN 1883.

Months.	August.		September.		October.		November.		December.		Means for the Year.		Variation.		Months.
Hours.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	Hours.
1 A.M.	− 4.16	+ 6.51	− 3.97	+ 7.16	− 3.03	+ 6.20	− 2.92	+ 7.17	− 1.22	+ 6.36	− 2.61	+ 6.61	− 0.67	− 2.20	1 A.M.
2 „	− 4.46	+ 6.40	− 4.23	+ 6.72	− 3.51	+ 6.96	− 2.65	+ 7.16	− 0.80	+ 5.77	− 2.67	+ 6.63	− 0.73	− 2.18	2 „
3 „	− 4.83	+ 6.73	− 4.34	+ 6.97	− 3.25	+ 6.43	− 2.52	+ 7.22	− 0.49	+ 6.06	− 2.81	+ 6.65	− 0.87	− 2.16	3 „
4 „	− 4.89	+ 6.99	− 4.55	+ 7.11	− 3.32	+ 6.47	− 2.73	+ 7.58	− 0.23	+ 5.99	− 2.83	+ 6.61	− 0.89	− 2.20	3 „
5 „	− 4.54	+ 6·52	− 4.66	+ 7.19	− 3.64	+ 6.04	− 2.77	+ 7.94	− 0.47	+ 5.91	− 2.79	+ 6.62	− 0.85	− 2.19	5 „
6 „	− 4.81	+ 6.90	− 4.40	+ 7.04	− 3.66	+ 6.16	− 2.86	+ 7.98	− 0.25	+ 5.55	− 2.80	+ 6.63	− 0.86	− 2.18	6 „
7 „	− 4.35	+ 6.88	− 4.57	+ 7.90	− 3.88	+ 7.75	− 2.69	+ 10.35	+ 0.17	+ 6.65	− 2.57	+ 7.38	− 0.63	− 1.43	7 „
8 „	− 4.84	+ 9.18	− 4.93	+ 10.71	− 3.25	+ 11.68	− 1.50	+ 13.30	+ 1.75	+ 9.66	− 1.94	+ 9.50	0.00	+ 0.69	8 „
9 „	− 5.77	+ 13.24	− 5.64	+ 12.64	− 2.66	+ 13.94	− 0.68	+ 13.72	+ 2.82	+ 9.89	− 1.55	+ 11.53	+ 0.39	+ 2.72	9 „
10 „	− 6.26	+ 14.30	− 5.51	+ 14.29	− 2.14	+ 14.32	+ 0.57	+ 13.84	+ 3.03	+ 9.80	− 0.97	+ 12.26	+ 0.97	+ 3.45	10 „
11 „	− 5.11	+ 15.33	− 5.12	+ 13.83	− 1.38	+ 14.12	+ 0.72	+ 13.18	+ 4.44	+ 9.21	− 0.24	+ 12.51	+ 1.70	+ 3.70	11 „
Noon	− 5.69	+ 14.95	− 5.05	+ 14.44	− 0.94	+ 13.88	+ 0.55	+ 12.80	+ 4.85	+ 8.73	− 0.25	+ 12.15	+ 1.69	+ 3.34	Noon.
1 P.M.	− 6.73	+ 13.25	− 5.52	+ 13.49	− 0.84	+ 12.26	− 0.63	+ 11.74	+ 4.75	+ 8.57	− 0.45	+ 11.68	+ 1.49	+ 2.87	1 P.M.
2 „	− 6.19	+ 13.54	− 5.70	+ 13.33	− 2.40	+ 11.68	− 0.08	+ 12.49	+ 4.48	+ 7.91	− 0.67	+ 11.71	+ 1.27	+ 2.90	2 „
3 „	− 6.36	+ 12.93	− 5.65	+ 13.28	− 2.60	+ 9.66	− 1.24	+ 12.36	+ 3.88	+ 8.46	− 1.03	+ 11.34	+ 0.91	+ 2.53	3 „
4 „	− 6.00	+ 11.72	− 6.78	+ 12.84	− 3.51	+ 10.09	− 1.12	+ 12.83	+ 3.03	+ 7.74	− 1.69	+ 11.00	+ 0.25	+ 2.19	4 „
5 „	− 4.73	+ 10.23	− 5.87	+ 11.92	− 3.69	+ 9.65	− 1.76	+ 11.64	+ 2.11	+ 8.58	− 1.80	+ 10.11	+ 0.14	+ 1.30	5 „
6 „	− 4.47	+ 8.75	− 4.60	+ 9.20	− 3.88	+ 8.24	− 2.14	+ 10.05	+ 0.16	+ 7.93	− 2.07	+ 8.25	− 0.13	− 0.56	6 „
7 „	− 4.88	+ 7.58	− 4.17	+ 7.75	− 3.09	+ 7.05	− 2.57	+ 8.62	− 1.02	+ 6.88	− 2.24	+ 7.36	− 0.30	− 1.45	7 „
8 „	− 4.46	+ 7.87	− 4.37	+ 7.96	− 3.49	+ 7.05	− 2.57	+ 7.91	− 1.44	+ 6.60	− 2.53	+ 7.22	− 0.59	− 1.59	8 „
9 „	− 3.68	+ 7.35	− 4.63	+ 7.78	− 3.56	+ 7.71	− 2.24	+ 8.10	− 1.25	+ 6.50	− 2.37	+ 7.21	− 0.43	− 1.60	9 „
10 „	− 4.30	+ 6.20	− 4.66	+ 7.95	− 3.16	+ 7.47	− 2.48	+ 7.91	− 1.15	+ 6.30	− 2.49	+ 7.01	− 0.55	− 1.80	10 „
11 „	− 4.01	+ 6.04	− 4.55	+ 7.34	− 2.98	+ 6.98	− 2.36	+ 7.43	− 1.02	+ 6.30	− 2.45	+ 6.83	− 0.51	− 1.98	11 „
Midnight ...	− 4.34	+ 5.77	− 4.53	+ 7.55	− 3.31	+ 6.51	− 2.72	+ 7.26	− 1.20	+ 6.26	− 2.54	+ 6.72	− 0.60	− 2.09	Midnight.
Means	− 4.99	+ 9.38	− 4.92	+ 9.85	− 2.98	+ 9.10	− 1.73	+ 10.02	+ 1.04	+ 7.40	− 1.93	+ 8.81			Means.

TABLE XII

COMPUTED MEAN HOURLY AND MONTHLY DIRECTION AND VELOCITY OF THE WIND IN 1883.

Months.	January.		February.		March.		April.		May.		June.		July.		Months.
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.	Velocity in miles per hour.	Direction.	Hours.
1 A.M....	6.48	N 82°—33′E	6.69	S 75°—49′E	5.41	S 80°—00′E	7.20	S 75° —23′E	7.49	S 68° —47′E	8.38	S 51° —12′E	8.47	S 57° —26′E	1 A.M.
2 „ ...	6.51	N 84 —27 E	6.76	S 76 —24 E	5.78	S 76 —30 E	7.24	S 78 —56 E	7.57	S 67 —58 E	8.35	S 50 —21 E	8.43	S 59 —54 E	2 „
3 „ ...	6.01	N 85 —02 E	6.91	S 76 —26 E	5.60	S 74 —15 E	7.24	S 76 —30 E	8.20	S 65 —21 E	8.71	S 47 —31 E	8.74	S 57 —20 E	3 „
4 „ ...	5.90	N 82 —18 E	6.73	S 76 —04 E	5.16	S 73 —00 E	6.85	S 71 —59 E	8.22	S 63 —00 E	8.51	S 48 —29 E	8.79	S 60 —12 E	4 „
5 „ ...	5.69	N 87 —35 E	6.92	S 75 —21 E	5.26	S 75 —02 E	6.87	S 76 —01 E	8.05	S 65 —30 E	8.18	S 53 —00 E	9.05	S 59 —35 E	5 „
6 „ ...	6.27	N 82 —51 E	6.77	S 73 —58 E	5.22	S 74 —00 E	7.08	S 71 —28 E	8.04	S 65 —09 E	8.26	S 52 —23 E	8.78	S 59 —52 E	6 „
7 „ ...	7.86	N 74 —35 E	8.17	S 77 —42 E	5.18	S 70 —58 E	7.01	S 74 —57 E	7.69	S 72 —03 E	8.62	S 52 —55 E	9.01	S 58 —03 E	7 „
8 „ ...	11.81	N 61 —26 E	10.68	S 85 —39 E	5.91	S 80 —39 E	8.92	S 81 —37 E	8.63	S 67 —18 E	8.51	S 54 —17 E	10.10	S 61 —29 E	8 „
9 „ ...	14.37	N 59 —37 E	11.87	N 89 —22 E	7.78	N 84 —28 E	11.40	S 84 —52 E	11.45	S 77 —05 E	10.96	S 57 —49 E	12.38	S 64 —03 E	9 „
10 „ ...	14.87	N 56 —38 E	12.15	S 89 —03 E	7.99	N 74 —41 E	12.20	N 84 —44 E	11.71	S 80 —13 E	11.68	S 66 —16 E	15.13	S 67 —08 E	10 „
11 „ ...	15.59	N 57 —06 E	12.00	N 83 —15 E	8.96	N 69 —25 E	12.08	N 79 —48 E	13.46	S 84 —30 E	12.06	S 63 —53 E	15.76	S 71 —37 E	11 „
Noon ...	14.78	N 58 —22 E	12.30	N 82 —12 E	7.53	N 62 —55 E	11.77	N 77 —44 E	13.31	S 81 —53 E	11.31	S 63 —56 E	15.58	S 70 —14 E	Noon.
1 P.M....	14.93	N 58 —47 E	11.97	N 81 —21 E	8.14	N 60 —59 E	10.78	N 79 —38 E	13.12	S 82 —20 E	11.67	S 64 —45 E	15.81	S 71 —02 E	1 P.M.
2 „ ...	14.62	N 61 —10 E	10.77	N 84 —50 E	8.63	N 63 —12 E	11.49	N 82 —39 E	13.10	S 81 —53 E	11.47	S 65 —23 E	16.27	S 72 —37 E	2 „
3 „ ...	13.69	N 61 —14 E	10.60	N 85 —37 E	8.94	N 68 —29 E	10.11	N 84 —40 E	12.74	S 81 —39 E	11.95	S 65 —51 E	15.84	S 70 —20 E	3 „
4 „ ...	13.28	N 63 —20 E	10.59	N 86 —55 E	7.94	N 71 —39 E	10.40	S 84 —19 E	11.67	S 80 —23 E	11.96	S 62 —27 E	15.74	S 66 —05 E	4 „
5 „ ...	12.65	N 66 —49 E	10.87	S 83 —43 E	8.15	N 75 —26 E	9.69	S 80 —55 E	9.38	S 79 —15 E	9.80	S 58 —55 E	12.68	S 65 —41 E	5 „
6 „ ...	11.32	N 71 —05 E	9.40	S 84 —01 E	6.13	N 84 —23 E	6.24	S 79 —51 E	7.35	S 72 —30 E	8.61	S 53 —25 E	9.82	S 60 —57 E	6 „
7 „ ...	9.01	N 73 —06 E	7.25	S 80 —28 E	5.64	N 86 —02 E	7.25	S 81 —01 E	8.01	S 66 —23 E	8.22	S 56 —18 E	8.74	S 61 —53 E	7 „
8 „ ...	7.48	N 74 —25 E	7.30	S 73 —46 E	5.34	S 89 —21 E	7.23	S 79 —00 E	8.02	S 65 —37 E	8.75	S 54 —46 E	9.23	S 62 —35 E	8 „
9 „ ...	8.19	N 73 —33 E	7.67	S 75 —44 E	5.61	S 88 —22 E	7.15	S 78 —13 E	7.46	S 67 —03 E	8.47	S 54 —45 E	8.48	S 61 —10 E	9 „
10 „ ...	7.46	N 79 —44 E	7.36	S 79 —16 E	5.91	S 82 —31 E	7.15	S 80 —35 E	7.38	S 64 —49 E	8.63	S 55 —06 E	8.15	S 60 —21 E	10 „
11 „ ...	6.91	N 85 —06 E	7.18	S 78 —40 E	6.07	S 85 —28 E	7.03	S 76 —25 E	7.52	S 66 —20 E	8.33	S 57 —07 E	8.18	S 61 —07 E	11 „
Midnight	7.22	N 81 —00 E	6.76	S 76 —34 E	5.75	S 82 —18 E	7.12	S 79 —34 E	7.63	S 65 —53 E	8.34	S 52 —45 E	8.22	S 62 —56 E	Midt.
Means...	9.93	N 68°—15′E	8.88	S 85°—25′E	6.34	N 85°—07′E	8.51	S 85° —17′E	9.38	S 73° —47′E	9.53	S 57° —39′E	11.11	S 64° —44′E	Means.

TABLE XII.—*(Continued.)*

COMPUTED MEAN HOURLY AND MONTHLY DIRECTION AND VELOCITY OF THE WIND IN 1883.

Months.	August.		September.		October.		November.		December.		Means for the Year.		Variations.		Months.
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.	+ = Above − = Below Mean velocity.	N=North S=South of Mean Direction.	Hours.
1 A.M. ...	7.72	S 57°—25′E	8.19	S 61°—00′E	6.90	S 63°—57′E	7.74	S 67°—50′E	6.47	S 79°—08′E	7.11	S 68°—27′E	− 1.91	S 9°—12′	1 A.M.
2 „ ...	7.80	S 55 —08 E	7.94	S 57 —49 E	7.95	S 61 —11 E	7.63	S 69 —41 E	5.82	S 82 —06 E	7.15	S 68 —04 E	− 1.87	S 9 —35	2 „
3 „ ...	8.28	S 54 —20 E	8.21	S 58 —05 E	7.20	S 63 —11 E	7.65	S 70 —46 E	6.09	S 85 —23 E	7.22	S 67 —05 E	− 1.80	S 10 —34	3 „
4 „ ...	8.53	S 55 —01 E	8.44	S 57 —23 E	7.27	S 62 —50 E	8.06	S 70 —12 E	6.00	S 87 —48 E	7.19	S 66 —49 E	− 1.83	S 10 —50	4 „
5 „ ...	7.94	S 55 —09 E	8.57	S 57 —03 E	7.05	S 58 —56 E	8.41	S 70 —46 E	5.92	S 85 —27 E	7.19	S 67 —09 E	− 1.83	S 10 —30	5 „
6 „ ...	8.41	S 55 —07 E	8.30	S 58 —00 E	7.33	S 59 —17 E	8.48	S 70 —17 E	5.55	S 87 —25 E	7.20	S 67 —06 E	− 1.82	S 10 —33	6 „
7 „ ...	8.14	S 57 —42 E	9.13	S 59 —57 E	8.67	S 63 —24 E	10.70	S 75 —26 E	6.65	N 88 —32 E	7.81	S 70 —48 E	− 1.21	S 6 —51	7 „
8 „ ...	10.38	S 62 —12 E	11.79	S 65 —17 E	12.12	S 74 —27 E	13.39	S 83 —34 E	9.82	N 79 —44 E	9.70	S 78 —28 E	+ 0.68	N 0 —49	8 „
9 „ ...	14.44	S 66 —27 E	13.84	S 65 —57 E	14.20	S 79 —12 E	13.76	S 87 —10 E	10.28	N 74 —05 E	11.64	S 82 —21 E	+ 2.62	N 4 —42	9 „
10 „ ...	15.60	S 66 —21 E	15.32	S 68 —55 E	14.48	S 81 —30 E	13.80	N 87 —38 E	10.26	N 72 —49 E	12.32	S 85 —29 E	+ 3.30	N 7 —50	10 „
11 „ ...	16.16	S 71 —34 E	14.75	S 69 —41 E	14.18	S 84 —25 E	13.17	N 86 —52 E	10.20	N 64 —16 E	12.50	S 88 —54 E	+ 3.48	N 11 —15	11 „
Noon ...	16.00	S 69 —10 E	15.30	S 70 —44 E	13.94	S 86 —08 E	12.78	N 87 —32 E	9.99	N 60 —57 E	12.16	S 88 —49 E	+ 3.14	N 11 —10	Noon.
1 P.M. ...	14.86	S 63 —04 E	14.58	S 67 —45 E	12.30	S 86 —05 E	11.78	S 86 —56 E	9.80	N 61 —00 E	11.69	S 87 —48 E	+ 2.67	N 10 —09	1 P.M.
2 „ ...	14.89	S 65 —26 E	14.50	S 66 —51 E	11.92	S 78 —23 E	12.49	S 89 —38 E	9.09	N 60 —28 E	11.72	S 86 —43 E	+ 2.70	N 9 —04	2 „
3 „ ...	14.41	S 63 —49 E	14.43	S 66 —57 E	10.00	S 74 —56 E	12.41	S 84 —16 E	9.31	N 65 —22 E	11.40	S 84 —49 E	+ 2.38	N 7 —10	3 „
4 „ ...	13.16	S 62 —53 E	14.52	S 62 —01 E	10.68	S 70 —49 E	12.89	S 85 —01 E	8.31	N 68 —37 E	11.13	S 81 —16 E	+ 2.11	N 3 —37	4 „
5 „ ...	11.27	S 65 —11 E	13.29	S 63 —48 E	10.33	S 69 —08 E	11.77	S 81 —24 E	9.04	N 76 —11 E	10.26	S 79 —54 E	+ 1.24	N 2 —15	5 „
6 „ ...	9.82	S 62 —56 E	10.29	S 63 —26 E	9.11	S 64 —47 E	10.28	S 77 —59 E	8.09	N 78 —36 E	8.51	S 75 —55 E	− 0.51	S 1 —44	6 „
7 „ ...	9.01	S 57 —13 E	8.80	S 61 —43 E	7.70	S 66 —20 E	9.00	S 73 —24 E	6.95	S 81 —34 E	7.69	S 73 —04 E	− 1.33	S 4 —35	7 „
8 „ ...	9.05	S 60 —28 E	9.08	S 61 —14 E	7.87	S 63 —40 E	8.32	S 72 —00 E	6.76	S 77 —42 E	7.65	S 70 —41 E	− 1.37	S 6 —58	8 „
9 „ ...	8.22	S 63 —24 E	9.05	S 59 —14 E	8.49	S 65 —13 E	8.40	S 74 —32 E	6.62	S 79 —07 E	7.59	S 71 —48 E	− 1.43	S 5 —51	9 „
10 „ ...	7.54	S 55 —15 E	9.21	S 59 —37 E	8.11	S 67 —04 E	8.29	S 72 —36 E	6.40	S 79 —39 E	7.46	S 70 —27 E	− 1.56	S 7 —12	10 „
11 „ ...	7.25	S 56 —25 E	8.63	S 58 —12 E	7.59	S 66 —53 E	7.80	S 72 —23 E	6.38	S 80 —48 E	7.26	S 70 —16 E	− 1.76	S 7 —23	11 „
Midnight..	7.22	S 53 —03 E	8.80	S 59 —02 E	7.30	S 63 —03 E	7.75	S 69 —28 E	6.37	S 79 —09 E	7.19	S 69 —18 E	− 1.83	S 8 —21	Midt.
Means ...	10.62	S 61°—59′E	11.01	S 63°—27′E	9.57	S 71°—52′E	10.16	S 80°—12′E	7.47	N 82°—00′E	9.02	S 77°—39′E			Means.

TABLE XIII

MEAN DAILY AND MONTHLY NORTH AND EAST COMPONENTS OF THE WIND IN 1883.

Months.	January.		February.		March.		April.		May.		June.		Months.
Days.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	Days.
1st	+ 0.47	+ 11.27	− 4.28	+ 16.91	− 1.14	+ 6.86	− 0.47	+ 9.35	− 7.31	+ 7.70	− 6.40	+ 7.85	1st
2nd	+ 0.90	+ 10.86	− 4.65	+ 12.57	− 0.07	+ 6.58	+ 1.00	+ 7.90	− 5.49	+ 8.79	− 1.45	+ 8.23	2nd
3rd	+ 3.09	+ 10.60	− 1.57	+ 7.89	− 0.92	+ 7.61	+ 0.65	+ 8.09	− 12.09	+ 19.42	− 0.83	+ 7.67	3rd
4th	+ 5.53	+ 12.03	− 1.50	+ 3.45	− 1.13	+ 0.13	+ 0.34	+ 10.42	− 4.95	+ 16.37	− 1.96	+ 2.33	4th
5th	+ 7.85	+ 11.69	− 2.60	+ 3.39	− 2.70	+ 0.11	+ 0.38	+ 11.69	− 3.03	+ 10.86	− 4.30	+ 4.50	5th
6th	+ 6.87	+ 4.93	− 3.97	+ 10.43	− 1.41	− 1.34	− 2.27	+ 9.10	− 1.51	+ 7.95	− 3.63	+ 2.18	6th
7th	+ 2.80	+ 6.95	− 0.53	+ 21.85	+ 0.70	+ 5.91	− 3.51	+ 8.62	+ 3.45	+ 6.45	− 3.19	+ 1.59	7th
8th	+ 1.44	+ 7.99	+ 8.58	+ 14.57	− 0.05	+ 6.19	− 3.06	+ 9.85	+ 3.71	+ 7.83	− 3.09	+ 4.67	8th
9th	+ 3.01	+ 8.74	+ 7.31	+ 9.20	− 0.32	+ 9.22	− 3.15	+ 10.59	+ 4.78	+ 5.63	− 3.65	+ 7.42	9th
10th	+ 3.12	+ 8.91	+ 3.79	+ 9.62	+ 0.09	+ 9.33	− 3.63	+ 10.50	− 0.43	+ 4.87	− 4.17	+ 4.23	10th
11th	+ 5.39	+ 9.31	+ 6.65	+ 9.46	+ 0.74	+ 8.83	− 4.31	+ 11.41	− 4.85	+ 8.60	− 6.00	+ 3.48	11th
12th	+ 4.84	+ 10.43	+ 11.36	+ 7.28	+ 0.86	+ 7.51	− 0.89	+ 10.82	− 4.73	+ 10.45	− 5.85	+ 2.86	12th
13th	+ 3.72	+ 12.10	+ 2.45	− 0.76	0.00	+ 6.55	− 1.66	+ 12.37	− 2.58	+ 8.26	− 9.64	+ 9.35	13th
14th	+ 4.42	+ 13.77	+ 1.52	+ 7.54	+ 2.75	+ 6.79	− 3.20	+ 13.38	− 3.72	+ 7.56	− 7.34	+ 10.27	14th
15th	+ 6.92	+ 9.45	+ 1.35	+ 12.95	+ 4.46	+ 2.06	− 0.34	+ 13.14	− 4.58	+ 9.62	− 3.86	+ 10.28	15th
16th	+ 11.45	+ 10.52	− 0.81	+ 10.99	+ 4.55	+ 3.81	+ 2.38	+ 13.58	− 3.99	+ 12.55	− 4.57	+ 8.61	16th
17th	+ 6.16	+ 6.36	− 4.74	+ 15.07	+ 1.20	+ 0.83	+ 2.25	+ 9.05	− 3.19	+ 8.26	− 2.96	+ 6.87	17th
18th	+ 2.99	+ 8.28	− 6.01	+ 9.63	− 2.08	+ 8.18	+ 2.30	+ 10.00	− 2.69	+ 7.24	− 2.05	+ 9.98	18th
19th	+ 0.73	+ 13.20	− 2.46	− 1.10	− 2.79	+ 18.10	+ 2.12	− 1.41	− 3.41	+ 9.22	− 2.36	+ 10.35	19th
20th	− 2.73	+ 15.54	+ 0.75	− 2.40	+ 1.30	+ 12.99	− 1.79	+ 1.29	− 3.40	+ 11.53	− 1.87	+ 9.25	20th
21st	− 8.11	+ 6.12	− 0.25	− 2.25	− 0.79	+ 11.30	+ 0.75	+ 4.87	− 6.43	+ 10.44	− 1.43	+ 8.65	21st
22nd	+ 10.31	− 7.65	− 3.64	+ 4.91	− 1.65	+ 12.85	− 1.48	+ 3.07	− 5.79	+ 8.68	− 0.97	+ 7.94	22nd
23rd	+ 5.47	+ 5.32	− 3.87	+ 9.80	+ 1.46	+ 8.66	− 0.55	+ 2.42	− 5.96	+ 12.05	− 2.21	− 0.03	23rd
24th	+ 1.27	+ 7.04	− 4.17	+ 11.09	+ 8.36	+ 4.17	− 1.00	− 0.86	− 3.16	+ 11.70	− 13.39	+ 2.89	24th
25th	+ 5.68	+ 10.63	− 5.62	+ 11.26	+ 15.62	− 5.52	− 0.58	+ 8.82	− 3.82	+ 11.14	− 16.28	+ 11.79	25th
26th	+ 5.36	+ 7.71	− 6.20	+ 12.10	− 2.12	− 2.25	− 0.31	+ 10.67	− 1.51	+ 10.67	− 8.77	+ 15.99	26th
27th	+ 4.50	+ 8.72	− 4.01	+ 12.11	− 5.36	+ 5.23	− 1.77	+ 8.45	− 0.06	+ 10.84	− 8.42	+ 16.27	27th
28th	+ 7.16	+ 3.59	− 2.82	+ 10.30	− 4.44	+ 10.33	+ 0.55	+ 10.95	+ 0.98	+ 8.06	− 7.00	+ 14.70	28th
29th	+ 5.44	+ 10.12			− 0.09	+ 9.02	+ 0.25	+ 10.04	+ 0.66	+ 5.08	− 9.52	+ 16.46	29th
30th	− 3.56	+ 14.95			+ 1.25	+ 8.23	+ 0.13	+ 6.53	+ 4.41	+ 1.10	− 5.80	+ 17.16	30th
31st	+ 1.09	+ 15.92			+ 0.63	+ 7.42			− 0.53	+ 0.52			31st
Means	+ 3.68	+ 9.22	− 0.72	+ 8.86	+ 0.54	+ 6.31	− 0.70	+ 8.49	− 2.62	+ 9.01	− 5.10	+ 8.05	Means.

TABLE XIII.—*(Continued.)*

MEAN DAILY AND MONTHLY NORTH AND EAST COMPONENTS OF THE WIND IN 1883.

Months.	July.		August.		September.		October.		November.		December.		Months.
Days.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	Days.
1st	− 4.00	+ 15.29	− 3.54	+ 11.94	− 3.16	+ 1.63	− 2.68	+ 11.47	− 5.84	+ 12.59	+ 1.52	+ 9.58	1st
2nd	0.00	+ 8.17	− 1.80	+ 3.89	− 1.50	+ 6.85	− 1.86	+ 9.19	− 6.30	+ 15.26	+ 2.39	+ 6.32	2nd
3rd	− 2.08	+ 8.65	− 2.75	+ 1.41	− 5.59	+ 10.65	− 1.82	+ 8.79	− 5.77	+ 17.68	+ 5.88	+ 6.61	3rd
4th	− 1.02	+ 10.70	− 10.57	+ 8.81	− 5.73	+ 10.85	− 3.64	+ 9.92	− 3.50	+ 14.60	− 0.71	+ 4.91	4th
5th	− 1.72	+ 8.86	− 6.75	+ 10.42	− 6.36	+ 11.08	− 9.23	+ 8.19	− 4.36	+ 15.58	− 6.39	+ 11.11	5th
6th	− 2.41	+ 8.49	− 9.49	+ 9.07	− 5.64	+ 9.67	− 10.93	+ 7.87	− 1.47	+ 15.23	− 10.04	+ 25.87	6th
7th	− 9.83	+ 7.06	− 5.66	+ 8.83	− 4.43	+ 11.30	− 7.60	+ 9.10	+ 0.89	+ 9.11	+ 19.05	+ 12.85	7th
8th	− 12.80	+ 11.21	− 4.34	+ 9.40	− 3.41	+ 5.05	− 6.07	+ 8.38	− 1.93	+ 2.89	+ 8.07	− 1.41	8th
9th	− 7.49	+ 11.59	− 1.92	+ 13.38	− 0.56	+ 0.28	− 3.11	+ 10.02	− 4.55	+ 9.64	+ 0.89	− 1.67	9th
10th	− 5.30	+ 9.68	− 2.05	+ 10.75	− 2.51	+ 1.74	− 2.24	+ 10.09	− 6.30	+ 14.90	− 2.04	+ 2.47	10th
11th	− 4.90	+ 9.27	− 3.47	+ 3.61	− 1.90	− 0.69	− 3.93	+ 9.00	− 3.52	+ 11.06	− 6.36	+ 10.41	11th
12th	− 5.71	+ 11.31	− 11.97	+ 6.67	− 8.08	+ 0.64	− 4.46	+ 8.19	+ 0.14	+ 0.00	− 5.80	+ 11.45	12th
13th	− 4.57	+ 11.38	− 9.36	+ 10.25	− 7.61	+ 9.97	− 5.45	+ 11.74	+ 1.53	− 2.88	− 4.22	+ 7.15	13th
14th	− 3.33	+ 9.71	− 5.11	+ 7.78	− 3.22	+ 8.11	− 1.12	+ 15.81	+ 1.39	+ 0.88	− 4.19	+ 3.62	14th
15th	− 7.69	+ 13.24	− 3.59	+ 8.26	− 3.24	+ 5.85	− 1.69	+ 11.71	− 3.38	+ 6.22	− 4.05	+ 1.85	15th
16th	− 7.06	+ 15.22	− 1.53	+ 5.97	− 5.19	+ 4.22	− 0.15	+ 11.27	− 3.84	+ 2.42	− 5.32	+ 8.62	16th
17th	− 2.98	+ 14.31	− 2.59	+ 2.57	− 4.32	+ 8.99	+ 0.18	+ 13.85	− 2.96	+ 10.29	− 4.73	+ 10.55	17th
18th	− 0.77	+ 10.02	− 3.89	+ 8.16	− 5.43	+ 14.30	− 0.79	+ 10.55	− 3.07	+ 18.33	− 0.50	+ 10.65	18th
19th	− 1.57	+ 12.15	− 5.26	+ 10.50	− 7.57	+ 16.47	− 0.36	+ 8.45	− 3.37	+ 14.33	+ 1.57	+ 5.43	19th
20th	− 1.61	+ 10.32	− 6.49	+ 14.31	− 6.92	+ 19.07	− 0.38	+ 6.76	− 0.10	+ 13.10	+ 3.75	+ 5.39	20th
21st	− 4.43	+ 7.21	− 3.40	+ 14.08	− 5.23	+ 13.88	− 0.32	+ 3.58	+ 2.22	+ 10.47	+ 3.51	+ 7.77	21st
22nd	− 4.58	+ 2.75	− 5.53	+ 12.58	− 6.85	+ 13.21	− 3.46	+ 2.66	+ 3.77	+ 5.45	+ 5.07	+ 11.02	22nd
23rd	− 8.23	+ 2.76	− 3.77	+ 3.02	− 6.56	+ 12.22	− 3.46	+ 1.21	+ 1.06	+ 8.80	+ 2.18	+ 9.33	23rd
24th	− 5.02	+ 5.86	− 12.56	+ 7.84	− 7.81	+ 14.09	− 2.84	+ 4.34	− 2.38	+ 10.38	+ 3.42	+ 8.30	24th
25th	− 1.03	+ 2.39	− 10.24	+ 10.27	− 7.63	+ 15.02	− 3.34	+ 0.56	− 1.61	+ 10.52	+ 1.70	+ 10.64	25th
26th	− 6.71	+ 8.47	− 4.68	+ 20.18	− 4.76	+ 14.75	− 2.71	+ 2.72	− 0.28	+ 10.49	+ 3.03	+ 10.30	26th
27th	− 7.49	+ 15.37	− 3.44	+ 18.48	− 5.92	+ 12.76	− 2.92	+ 13.63	− 0.89	+ 10.77	+ 3.40	+ 6.85	27th
28th	− 3.69	+ 15.75	− 2.41	+ 12.12	− 3.97	+ 11.95	+ 0.22	+ 11.45	− 0.68	+ 11.16	+ 5.73	+ 5.20	28th
29th	− 4.92	+ 11.57	+ 0.42	+ 10.06	− 4.14	+ 14.63	− 1.00	+ 12.14	+ 0.76	+ 10.42	+ 4.39	+ 5.85	29th
30th	− 5.89	+ 8.49	− 2.84	+ 8.62	− 2.26	+ 16.92	0.00	+ 14.65	+ 2.57	+ 11.08	+ 7.16	+ 6.08	30th
31st	− 8.26	+ 13.85	− 4.23	+ 7.69			− 5.18	+ 14.70			+ 3.82	− 3.65	31st
Means	− 4.74	+ 10.04	− 4.99	+ 9.38	− 4.92	+ 9.85	− 2.98	+ 9.10	− 1.73	+ 10.02	+ 4.04	+ 7.40	Means.

TABLE XIV

COMPUTED MEAN DAILY AND MONTHLY DIRECTION AND VELOCITY OF THE WIND IN 1883.

Months.	January.		February.		March.		April.		May.		June.		Months.
Days.	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.	Days.
1st ...	11.30	N 87°—37′E	17.45	S 75°—48′E	6.96	S 80°—34′E	9.84	S 87°— 8′E	10.62	S 46°—29′E	10.13	S 50°—49′E	1st
2nd ...	10.91	N 85 —16 E	13.40	S 69 —42 E	6.58	S 89 —23 E	7.96	N 82 —47 E	10.36	S 58 —01 E	8.35	S 80 —00 E	2nd
3rd ...	11.04	N 73 —45 E	8.05	S 78 —45 E	7.66	S 83 —06 E	8.10	N 85 —24 E	22.88	S 58 —06 E	7.71	S 83 —49 E	3rd
4th ...	13.24	N 65 —19 E	3.76	S 66 —30 E	1.14	S 6 —34 E	10.44	N 88 —08 E	17.11	S 73 —11 E	3.04	S 49 —55 E	4th
5th ...	14.08	N 56 —07 E	4.27	S 52 —31 E	2.70	S 2 —20 E	11.71	N 88 —08 E	11.28	S 74 —25 E	6·22	S 46 —18 E	5th
6th ...	8.46	N 35 —40 E	11.16	S 69 —10 E	1.95	S 43 —32 W	9.38	S 76 —00 E	8.10	S 79 —15 E	4.23	S 30 —59 E	6th
7th ...	7.49	N 68 —03 E	21.86	S 88 —37 E	5.96	N 83 —15 E	9.31	S 67 —51 E	7.32	S 61 —52 E	3.56	S 26 —30 E	7th
8th ...	8.12	N 79 —47 E	16.90	N 59 —30 E	6.19	S 89 —32 E	10.32	S 72 —45 E	8.67	N 64 —39 E	5.60	S 56 —30 E	8th
9th ...	9.24	N 71 —00 E	11.75	N 51 —32 E	9.25	S 88 —01 E	11.05	S 73 —26 E	7.38	N 49 —40 E	8.27	S 63 —48 E	9th
10th ...	9.44	N 70 —42 E	10.34	N 68 —30 E	9.33	N 89 —27 E	11.11	S 70 —56 E	4.88	N 84 —57 E	5.94	S 45 —25 E	10th
11th ...	10.75	N 59 —56 E	11.56	N 54 —53 E	8.85	N 85 —12 E	12.19	S 69 —18 E	9.87	S 60 —35 E	6.94	S 30 —07 E	11th
12th ...	11.50	N 65 —06 E	13.49	N 32 —39 E	7.56	N 83 —28 E	10.86	S 85 —18 E	11.47	S 65 —39 E	6.51	S 26 —03 E	12th
13th ...	12.66	N 72 —55 E	2.57	N 18 —04 W	6.55	East	12.50	S 82 —22 E	8.65	S 72 —39 E	13.43	S 44 —08 E	13th
14th ...	14.46	N 72 —12 E	7.69	N 78 —36 E	7.32	N 67 —57 E	13.76	S 76 —33 E	8.43	S 63 —48 E	12.62	S 54 —27 E	14th
15th ...	11.71	N 53 —47 E	13.02	N 84 —03 E	4.91	N 24 —47 E	13.14	S 88 —31 E	10.66	S 64 —33 E	10.98	S 69 —25 E	15th
16th ...	15.55	N 42 —35 E	11.02	S 85 —47 E	5.93	N 39 —57 E	13.80	N 80 —04 E	13.17	S 72 —22 E	9.74	S 62 —02 E	16th
17th ...	8.85	N 45 —55 E	15.79	S 72 —32 E	1.46	N 34 —40 E	9.32	N 76 —02 E	8.85	S 68 —53 E	7.48	S 66 —41 E	17th
18th ...	8.80	N 70 —09 E	11.35	S 58 —02 E	8.44	S 75 —44 E	10.26	N 77 —03 E	7.72	S 69 —37 E	10.20	S 78 —24 E	18th
19th ...	13.21	N 86 —50 E	2.69	S 24 — 5 W	18.31	S 81 —14 E	2.55	N 33 —38 W	9.83	S 69 —42 E	10.61	S 77 —09 E	19th
20th ...	15.77	S 80 —02 E	2.51	N 72 —39 W	13.05	N 84 —17 E	2.21	S 35 —47 E	12.02	S 73 —34 E	9.43	S 78 —34 E	20th
21st ...	10.16	S 37 —03 E	2.26	S 83 —39 W	11.32	S 86 —00 E	4.93	N 81 —15 E	15.43	S 58 —22 E	8.77	S 80 —37 E	21st
22nd ...	12.84	N 36 —34 W	6.10	S 53 —23 E	12.96	S 82 —41 E	3.41	S 64 —16 E	10.43	S 56 —18 E	8.00	S 83 —02 E	22nd
23rd ...	7.63	N 44 —12 E	10.54	S 68 —27 E	8.78	N 80 —26 E	2.48	S 77 —12 E	13.44	S 63 —41 E	2.21	S 0 —46 W	23rd
24th ...	7.15	N 79 —46 E	11.85	S 69 —24 E	9.34	N 26 —31 E	1.32	S 40 —42 W	12.11	S 74 —53 E	13.70	S 12 —11 E	24th
25th ...	12.05	N 61 —53 E	12.59	S 63 —29 E	16.57	N 19 —28 W	8.83	S 86 —14 E	11.77	S 71 —04 E	20.10	S 35 —55 E	25th
26th ...	9.39	N 55 —12 E	13.59	S 62 —52 E	3.09	S 46 —42 W	10.67	S 88 —20 E	10.78	S 81 —57 E	18.23	S 61 —15 E	26th
27th ...	9.81	N 62 —42 E	12.76	S 71 —41 E	7.49	S 44 —18 E	8.63	S 78 —10 E	10.84	S 89 —41 E	16.27	S 58 —50 E	27th
28th ...	8.01	N 26 —38 E	10.68	S 74 —41 E	11.24	S 66 —44 E	11.00	N 87 —08 E	8.12	N 83 —04 E	16.28	S 64 —32 E	28th
29th ...	11.49	N 61 —44 F	.....	.....	9.02	S 89 —26 E	10.04	N 88 —34 E	5.12	N 82 —36 E	19.01	S 59 —57 E	29th
30th ...	15.36	S 76 —36 E	.....	.....	8.33	N 81 —22 E	6.53	N 88 —52 E	4.54	N 14 —00 E	18.11	S 71 —19 E	30th
31st ...	15.96	N 86 —05 E	.....	.....	7.45	N 85 —09 E	.....	.....	0.74	S 44 —27 E	.....	.....	31st
Means ...	9.93	N 68°—15′E	8.88	S 85°—25′E	6.34	N 85°—07′E	8.51	S 85°—17′E	9.38	S 73°—47′E	9.53	S 57°—39′E	Means.

TABLE XIV.—*(Continued.)*

COMPUTED MEAN DAILY AND MONTHLY DIRECTION AND VELOCITY OF THE WIND IN 1883.

Months.	July.		August.		September.		October.		November.		December.		Months.
Days.	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.	Days.
1st ...	15.80	S 75°—20′E	12.45	S 73°—29′E	3.47	S 27°—17′E	11.78	S 76°—51′E	13.88	S 65°—07′E	9.70	N 80°—59′E	1st
2nd ...	8.17	East	4.29	S 65 —10 E	7.01	S 77 —39 E	9.37	S 78 —38 E	16.51	S 67 —34 E	6.76	N 69 —17 E	2nd
3rd ...	8.90	S 76 —29 E	3.09	S 27 —09 E	12.03	S 62 —18 E	8.98	S 78 —18 E	18.61	S 71 —56 E	8.85	N 48 —21 E	3rd
4th ...	10.74	S 84 —33 E	13.76	S 39 —49 E	12.27	S 62 —10 E	10.56	S 69 —51 E	15.01	S 76 —31 E	4.95	S 81 —45 E	4th
5th ...	9.03	S 79 —01 E	12.42	S 57 —04 E	12.78	S 60 —09 E	12.34	S 41 —35 E	16.18	S 74 —22 E	12.82	S 60 —06 E	5th
6th ...	8.82	S 74 —09 E	13.13	S 43 —42 E	11.19	S 59 —45 E	13.47	S 35 —45 E	15.29	S 84 —29 E	27.74	S 68 —47 E	6th
7th ...	12.10	S 35 —41 E	10.49	S 57 —20 E	12.14	S 68 —36 E	11.85	S 50 —08 E	9.15	S 84 —25 E	22.98	N 34 —01 E	7th
8th ...	17.02	S 41 —13 E	10.35	S 65 —13 E	6.09	S 55 —58 E	10.35	S 54 —05 E	3.47	S 56 —16 E	8.19	N 9 —55 W	8th
9th ...	13.80	S 57 —08 E	13.52	S 81 —50 E	0.65	S 30 —00 E	10.49	S 72 —45 E	10.66	S 64 —44 E	1.89	N 61 —57 W	9th
10th ...	11.04	S 61 —18 E	10.94	S 79 —12 E	3.05	S 34 —44 E	10.34	S 77 —29 E	16.18	S 67 —05 E	3.20	S 50 —27 E	10th
11th ...	10.48	S 62 —08 E	5.01	S 46 —08 E	2.04	S 21 —17 W	9.82	S 66 —25 E	11.61	S 72 —21 E	12.20	S 58 —35 E	11th
12th ...	12.67	S 63 —12 E	13.70	S 29 —08 E	8.10	S 4 —33 E	9.33	S 61 —26 E	0.14	North	12.83	S 63 —08 E	12th
13th ...	12.26	S 68 —07 E	13.88	S 47 —36 E	12.54	S 52 —39 E	12.94	S 65 —06 E	3.27	N 62 —01 W	8.30	S 59 —27 E	13th
14th ...	10.26	S 71 —04 E	9.31	S 56 —42 E	8.73	S 68 —21 E	15.89	S 85 —57 E	1.64	N 32 —20 E	5.54	S 40 —50 E	14th
15th ...	15.31	S 59 —51 E	9.00	S 66 —30 E	6.69	S 61 —01 E	11.82	S 81 —47 E	7.08	S 61 —29 E	4.45	S 24 —33 E	15th
16th ...	16.78	S 65 —07 E	6.17	S 75 —38 E	6.69	S 39 —07 E	11.27	S 89 —14 E	4.54	S 32 —13 E	10.13	S 58 —19 E	16th
17th ...	14.61	S 78 —14 E	3.65	S 44 —47 E	9.97	S 64 —20 E	13.85	N 89 —15 E	10.69	S 73 —57 E	11.56	S 65 —51 E	17th
18th ..	10.03	S 85 —36 E	9.21	S 65 —01 E	15.29	S 69 —12 E	10.56	S 85 —43 E	18.57	S 80 —29 E	10.68	S 87 —19 E	18th
19th ...	12.24	S 82 —38 E	11.74	S 63 —23 E	18.13	S 65 —19 E	8.46	S 87 —33 E	14.72	S 76 —46 E	5.65	N 73 —52 E	19th
20th ...	10.44	S 81 —08 E	15.71	S 65 —36 E	20.28	S 70 —03 E	6.77	S 86 —47 E	13.10	S 89 —34 E	6.56	N 55 —10 E	20th
21st ...	8.46	S 58 —26 E	14.47	S 76 —25 E	14.83	S 69 —21 E	3.58	S 84 —53 E	10.71	N 78 —02 E	8.52	N 65 —41 E	21st
22nd ...	5.34	S 30 —59 E	13.74	S 66 —16 E	14.88	S 62 —36 E	4.37	S 37 —33 E	6.63	N 55 —20 E	12.13	N 65 —18 E	22nd
23rd ...	8.68	S 18 —32 E	4.83	S 38 —42 E	13.86	S 61 —46 E	3.67	S 19 —17 E	8.87	N 83 —08 E	9.58	N 76 —51 E	23rd
24th ...	7.72	S 49 —25 E	14.80	S 31 —58 E	16.11	S 61 —00 E	5.19	S 56 —48 E	10.65	S 77 —05 E	8.97	N 67 —36 E	24th
25th ...	2.60	S 66 —41 E	14.50	S 45 —05 E	16.84	S 63 —04 E	3.39	S 9 —31 E	10.64	S 81 —18 E	10.77	N 80 —55 E	25th
26th ...	10.81	S 51 —37 E	20.73	S 76 —57 E	15.50	S 72 —07 E	3.84	S 45 —06 E	10.49	S 88 —28 E	10.73	N 73 —36 E	26th
27th ...	17.10	S 64 —01 E	18.79	S 79 —27 E	14.07	S 65 —07 E	13.93	S 77 —54 E	10.77	S 85 —17 E	7.65	N 63 —36 E	27th
28th ...	16.18	S 76 —49 E	12.35	S 78 —45 E	12.59	S 71 —37 E	11.46	N 79 —07 E	11.16	S 86 —31 E	7.74	N 42 —13 E	28th
29th ...	12.84	S 66 —58 E	10.10	N 87 —37 E	15.20	S 74 —12 E	12.16	S 85 —17 E	10.46	N 85 —50 E	7.31	N 53 —07 E	29th
30th ...	10.33	S 55 —15 E	9.07	S 71 —46 E	17.09	S 82 —24 E	14.65	East	11.37	N 76 —56 E	9.39	N 40 —20 E	30th
31st ...	16.12	S 59 —11 E	8.78	S 61 —11 E	.....	.....	15.58	S 70 —35 E	.....	.....	5.28	N 43 —42 W	31st
Means ..	11.11	S 64°—44′E	10.62	S 61°—59′E	11.01	S 63°—27′E	9.57	S 71°—52′E	10.16	S 80°—12′E	7.47	N 82°—00′E	Means.

TABLE XV

1876–1883.

MEAN MONTHLY NORTH AND EAST COMPONENTS OF THE WIND.

Months.	Monthly Means.		Variation from Mean of Year.	
	N.	E.	N.	E.
January	+ 0.46	+ 9.03	+ 2.99	— 0.64
February	— 1.88	+ 8.70	+ 0.65	— 0.97
March	— 1.61	+ 8.01	+ 0.92	— 1.66
April	— 2.99	+ 9.01	— 0.46	— 0.66
May	— 3.74	+ 8.68	— 1.21	— 0.99
June	— 5.10	+ 9.58	— 2.57	— 0.09
July...	— 4.99	+ 11.07	— 2.46	+ 1.40
August	— 3.95	+ 11.48	— 1.42	+ 1.81
September	— 3.57	+ 10.87	— 1.04	+ 1.20
October	— 2.21	+ 10.40	+ 0.32	+ 0.73
November	— 0.91	+ 9.50	+ 1.62	— 0.17
December	+ 0.18	+ 9.74	+ 2.71	+ 0.07
Means	— 2.53	+ 9.67		

TABLE XVI

1876–1883.

COMPUTED DIRECTION AND VELOCITY OF THE WIND.—MONTHLY MEANS.

Months.	1876—1883.		1883.		1883 Deviation from average.	
	Velocity miles per hour.	Direction.	Velocity miles per hour.	Direction.	Velocity + Above — Below	Direction N=North S=South.
January	9.04	N 87°—05′E	9.93	N 68°—15′E	+ 0.89	N 18°—50′
February	8.90	S 77 —48 E	8.88	S 85 —25 E	— 0.02	N 7 —37
March	8.17	S 78 —38 E	6.34	N 85 —07 E	— 1.83	N 16 —15
April	9.49	S 71 —38 E	8.51	S 85 —17 E	— 0.98	N 13 —39
May	9.45	S 66 —41 E	9.38	S 73 —47 E	— 0.07	N 7 —06
June	10.85	S 61 —58 E	9.53	S 57 —39 E	— 1.32	S 4 —19
July	12.14	S 65 —44 E	11.11	S 64 —44 E	— 1.03	S 1 —00
August	12.14	S 71 —01 E	10.62	S 61 —59 E	— 1.52	S 9 —02
September	11:44	S 71 —49 E	11.01	S 63 —27 E	— 0.43	S 8 —22
October	10.63	S 78 —00 E	9.57	S 71 —52 E	— 1.06	S 6 —08
November	9.55	S 84 —32 E	10.16	S 80 —12 E	+ 0.61	S 4 —20
December	9.67	N 88 —56 E	7.47	N 82 —00 E	— 2.20	N 6 —56
Means	9.99	S 75°—20′E	9.02	S 77°—35′E	— 0.97	N 2°—15′

TABLE XVII

THUNDER AND LIGHTNING.

Months.	Days.	
January	21	From 10.23 a.m. to 2.35 p.m., distant thunder at S. Wrd., Srd., S. Erd., Erd. and N. Erd. At 1 p.m., thunder nearer at Erd., N. Erd. and Wrd.
,, ...	26	At 8.30 p.m., several flashes of lightning at S. Wrd.
,, ...	31	At 8.30 p.m., two flashes of lightning at Nrd.
February	12	From 5.53 to 6.30 p.m., thunder at Wrd. From 7.20 to 7.50 p.m., thunder and lightning at S. Erd.
,, ...	13	At 6.30 p.m., distant thunder at E. S. Erd. From 7.30 to 9.30 p.m., thunder and lightning at Nrd., and lightning at Wrd.
,, ...	19	At 10.52 a.m., thunder at N. Erd.
March	6	From 12.44 to 2.20 p.m., thunder at Srd.
,, ...	7	In evening, lightning at N. N. Wrd. and Wrd.
,, ...	8	At 3 a.m., vivid lightning at Nrd. In evening much sheet lightning at Nrd.
,, ...	14	At 2.14 and 2.40 p.m., thunder at S. S. Wrd.
,, ...	15	At about 9 p.m., lightning at Nrd. and thunder at S. Wrd.
,, ...	16	At 7.20 p.m., lightning at E. S. Erd.
,, ...	17	From 12.15 to 3.50 p.m., thunder at S. Erd.
,, ...	,,	In evening, lightning at N. Wrd.
,, ...	18	From 1.35 to 1.50 p.m., thunder at S. Erd. Distant thunder at N. Wrd. during night.
,, ...	19	At 5.15 a.m., thunder and lightning at N. Wrd. At 6.12 a.m. thunder at N. Wrd. and at about 10 p.m., thunder.
,, ...	20	At 2.18 and 2.33 p.m., thunder at S. Erd. At about 7.30 p.m., lightning at Wrd. and S. Wrd.
,, ...	25	In evening and night, distant thunder and lightning at Wrd. and S. Wrd.
April	7	In evening, lightning at N. Wrd.
,, ...	8	In morning, lightning at N. Wrd. At 5.30 a.m., thunder and lightning at S. Erd.
,, ...	9	In evening, lightning at W. N. Wrd.
,, ...	15	In evening and night, distant thunder and lightning at Nrd. and Wrd.
,, ...	17	During night, distant thunder and lightning at N. Wrd.
,, ...	18	From 1 to 5 a.m., thunder and lightning from N. Wrd., overhead, S. Erd. and Erd. From 7.10 to 8 a.m., heavy thunder with lightning at N. Wrd. and overhead. From 8.50 to 11.2 a.m., heavy thunder with lightning at N. Wrd., Erd., S. Erd., overhead, N. Erd. and Nrd.
,, ...	21	In evening, lightning at S. Erd.
,, ...	22	From 4.10 to 6 p.m., thunder-storm, with frequent and vivid lightning at N. Wrd., Wrd. to S. Wrd.; and from 6 to 7 p.m., it passed overhead to Srd., S. Erd., Erd., N. Erd. and Nrd.
,, ...	23	In early morning distant thunder and lightning, and from 8.35 to 9.25 a.m., thunder at Wrd., S. Wrd. and Srd.
,, ...	25	At 7 p.m., distant thunder at S. Wrd., and in evening lightning at S. Wrd. and Srd.
,, ...	26	In evening, lightning at S. Wrd.
May	9	At 9.45 a.m., a loud peal of thunder at Wrd.
November... ...	22	In evening, sheet lightning at Wrd.
December	1	During night, sheet lightning at Erd.
,, ...	2	In evening, lightning at W. S. Wrd.
,, ...	3	From 2.15 and 2.25 p.m., distant thunder at S. S. Wrd.
,, ...	24	In evening, thunder and lightning at S. Erd.
,, ...	25	In evening, lightning at S. Erd. and E. S. Erd.
,, ...	26	In evening, lightning at S. Erd.
,, ...	29	In evening, lightning at W. N. Wrd.
,, ...	30	At 9.13 a.m., a peal of thunder and several others up to 10 a.m.
,, ...	30–31	At 7 p.m., thunder with vivid lightning at N. Wrd., and later on all round the horizon and overhead; lasted till next morning.
,, ...	31	At 6.20 a.m., a peal of thunder.
,, ...	,,	From 4.30 to 7 p.m., thunder and lightning.

TABLE XVIII

MEANS AND EXTREMES OF THE PRINCIPAL ELEMENTS IN 1883 AND FOR THE PERIOD 1875—83.

Elements.	1883.	1875—83.
Mean Atmospheric Pressure (Red. to sea-level.)	30.066 inches	30.085 inches.
Highest ,, ,, ,, ...	30.367 ,, July 9 ...	30.468 June 20, 1877.
Lowest ,, ,, ,, ...	29.581 ,, Jan. 22 ...	29.032 March 21, 1879.
Mean Temperature in Shade...	73°.8	74°.1.
Highest ,, ,, ...	86.1 March 14	88.8 January 6, 1878.
Lowest ,, ,, ...	58.0 July 25	54.6 July 3, 1878.
Mean Temperature of Evaporation	68.6	68.6.
Highest ,, ,, ...	79.2 Feb. 13	81.3 March 10, 1878.
Lowest ,, ,, ...	54.1 July 25	53.1 July 3, 1878.
Mean Dew Point	64.8	64.7.
Highest ,, ...	76.0 March 26	76.9 February 20, 1876.
Lowest ,, ...	48.2 Octob. 6	46.8 September 5, 1880.
Mean Vapour-Tension	.624 inch.	.620 inch.
Highest ,, ...	.900 ,, March 26 ...	.926 ,, February 20, 1876.
Lowest ,, ...	.339 ,, Octob. 6 ...	.320 ,, Sept. 5, 1880.
Mean Relative Humidity	74.2 (100=Saturation)	73.2.
Highest ,, ...	94.0 December 20 ...	95.3 December 23, 1881.
Lowest ,, ...	47.6 October 6	38.4 October 31, 1878.
Mean Hourly Velocity of Wind	11.1 miles	12.0 miles, (Mean for 8 years).
Greatest ,, ...	44.9 ,, Dec. 7 ...	80.3 ,, March 21, 1879.
Rainfall ,, ...	47.69 inches	48.73 inches.
Days on which rain fell	180	202.
Greatest fall in 24 hours	3.94 inches, April 18 ...	7.45 inches, March 21, 1879.
Days of Lightning or Thunder	39	29.

TABLE XIX

MEAN MONTHLY MAXIMUM AND MINIMUM TEMPERATURE AT THREE STATIONS IN THE INTERIOR OF THE ISLAND IN 1883.

Districts.	Pamplemousses.		Moka.		Plaines Wilhems.	
Approximate height above sea-level.	Botanical Gardens. 225 feet.		Lynnwood, 900 feet.		Beau Séjour, 950.	
Months.	Mean Maximum.	Mean Minimum.	Mean Maximum.	Mean Minimum.	Mean Maximum.	Mean Minimum.
	°	°	°	°	°	°
January	82.6	77.1	80.7	72.1	80.5	72.3
February	82.0	76.6	80.2	71.8	80.7	72.1
March	82.3	75.7	80.5	71.2	81.6	71.5
April	78.9	74.0	78.1	69.5	81.7	70.6
May	77.4	67.4	73.7	65.8	76.4	66.5
June	75.3	62.5	71.4	61.8	74.8	63.5
July	74.1	60.7	68.7	60.6	71.9	61.3
August	76.0	61.3	69.8	61.5	72.7	61.6
September.....	78.3	62.1	71.2	61.9	73.2	62.9
October	81.3	63.8	74.7	63.9	74.7	64.4
November	83.3	67.3	78.0	67.0	77.5	67.7
December	85.0	68.9	80.9	70.0	79.8	70.2
Means	79.7	68.1	75.7	66.4	77.1	67.0

TABLE XX

ABSOLUTE MAXIMUM AND MINIMUM TEMPERATURES AT THE SAME THREE STATIONS IN THE INTERIOR OF THE ISLAND IN 1883.

Months.	Pamplemousses.		Moka.		Plaines Wilhems.	
	Botanical Gardens.		Lynnwood.		Beau Séjour.	
	Maximum.	Minimum.	Maximum.	Minimum.	Maximum.	Minimum.
	°	°	°	°	°	°
January	86.4	73.9	83	70	83	70
February	84.2	73.6	82	69	82	69
March	85.1	72.7	83	66	85	67
April	82.2	69.6	83	65	83	66
May	82.2	62.5	78	61	81	62
June	77.7	56.8	75	58	79	60
July	77.1	55.0	72	57	75	58
August	78.3	55.8	73	56	77	56
September.....	80.9	57.8	74	58	77	58
October	86.9	58.4	80	59	79	59
November	87.4	63.1	82	63	82	65
December	88.7	62.1	85	64	82	64
Means	83.1	63.4	79.2	62.2	80.4	62.8

TABLE XXI.—SHOWING THE AMOUNT OF RAINFALL AND THE NUMBER OF DAYS ON WHICH RAIN FELL AT VARIOUS STATIONS IN MAURITIUS DURING 1883.

Months.	Flacq.							
	Rigny. Dr. Bouchet.		Union. A. Jadin.		Sans-Souci. F. Montocchio.		Etoile. E. de la Hogue.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	13.42	21	8.97	19	12.93	...	11.94	14
February	13.89	20	8.66	19	9.15	...	12.48	23
March	11.35	17	6.89	16	11.69	...	9.72	13
April	14.99	20	17.64	23	13.73	...	12.28	16
May	7.47	17	10.80	17	24.04	...	17.40	19
June	4.71	15	6.85	16	7.58	...	6.34	7
July	2.21	14	.....	...	3.85	...	2.71	11
August	3.49	14	2.30	12	8.30	...	4.79	11
September	2.56	17	.....	...	7.06	...	4.19	9
October	4.04	...	.....	...	6.58	...	4.40	5
November	3.70	...	2.73	11	4.43	...	3.05	8
December	3.80	...	5.15	17	11.61	...	8.70	10
Fall in 1883	85.63	...	.....	...	120.95	...	98.00	146
Fall in 1882	81.29	...	101.84	166	172.30	...	130.62	169
Fall in 1881	127.19	227	70.60	188	121.84	263	132.96	198
Fall in 1880	96.89	209	53.36	176	.....	...	.....	...
Fall in 1879	85.90	183	57.52	164	.....	...	.....	...
Fall in 1878	88.33	207	73.81	175	.....	...	.....	...
Fall in 1877	116.70	280	102.41	291	.....	...	.....	...
Fall in 1876	97.59	225	72.35	262	.....	...	.....	...
Fall in 1875	99.44	268	.....	...	.....	...	.....	...
Fall in 1874	102.16	288	.....	...	.....	...	.....	...
Fall in 1873	100.22	297	.....	...	.....	...	.....	...
Fall in 1872	.....	...	.....	...	.....	...	.....	...
Fall in 1871	.....	...	.....	...	.....	...	.....	...
Fall in 1870	.....	...	.....	...	.....	...	.....	...
Fall in 1869	.....	...	.....	...	.....	...	.....	...
Fall in 1868	.....	...	.....	...	.....	...	.....	...
Fall in 1867	.....	...	.....	...	.....	...	.....	...
Fall in 1866	.....	...	.....	...	.....	...	.....	...
Fall in 1865	.....	...	.....	...	.....	...	.....	...
Fall in 1864	.....	...	.....	...	.....	...	.....	...
Fall in 1863	.....	...	.....	...	.....	...	.....	...
Fall in 1862	.....	...	.....	...	.....	...	.....	...
Means	98.30	243	75.98	203	138.36	...	120.53	171

TABLE XXI.—SHOWING THE AMOUNT OF RAINFALL, &c.—(*Continued.*)

Months.	Rivière du Rempart.							
	Labourdonnais. H. Wiehé.		St. Antoine. E. Trouchet.		Union. C. Mauvis.		Poudre d'Or. E. Trouchet.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	7.64	17	7.10	14	5.23	12	6.27	11
February	7.89	16	8.59	12	3.99	8	6.67	14
March	9.00	12	7.43	11	3.85	7	7.18	13
April	18.64	17	13.49	14	13.18	8	12.95	20
May	7.58	14	8.19	15	4.87	8	8.81	14
June	4.26	9	1.91	8	.....	...	2.10	7
July	1.20	8	1.64	15	.....	...	1.46	9
August	1.89	9	1.10	9	.....	...	1.49	8
September	1.77	12	1.29	8	.....	...	1.33	6
October	2.33	11	2.07	6	.....	...	2.08	7
November	1.69	9	0.73	6	.....	...	1.50	7
December	6.19	13	6.09	12	.....	...	6.63	12
Fall in 1883	70.08	147	59.63	130	.....	...	58.47	128
Fall in 1882	75.98	139	66.72	141	58.19	69	69.16	133
Fall in 1881	55.62	155	44.50	145	34.41	93	42.76	93
Fall in 1880	40.79	155	31.87	121	33.64	128	39.46	125
Fall in 1879	62.80	159	42.99	125	39.02	142	.....	...
Fall in 1878	52.86	131	45.40	129	.....	...	.....	...
Fall in 1877	103.34	163	84.12	170	.....	...	.....	...
Fall in 1876	70.60	142	43.81	...	.....	...	.....	...
Fall in 1875	76.00	138	45.37	...	.....	...	.....	...
Fall in 1874	64.48	105	56.41	...	.....	...	.....	...
Fall in 1873	70.04	120	.....	...	.....	...	.....	...
Fall in 1872	44.20	98	.....	...	.....	...	.....	...
Fall in 1871	50.52	102	.....	...	.....	...	.....	...
Fall in 1870	59.06	116	.....	...	.....	...	.....	...
Fall in 1869	63.73	108	.....	...	.....	...	.....	...
Fall in 1868	70.46	119	.....	...	.....	...	.....	...
Fall in 1867	56.99	125	.....	...	.....	...	.....	...
Fall in 1866	50.29	108	.....	...	.....	...	.....	...
Fall in 1865	87.63	149	.....	...	.....	...	.....	...
Fall in 1864	57.25	120	.....	...	.....	...	.....	...
Fall in 1863	70.72	129	.....	...	.....	...	.....	...
Fall in 1862	52.23	111	.....	...	.....	...	.....	...
Means	63.89	129	52.08	137	41.31	108	52.46	120

TABLE XXI.—SHOWING THE AMOUNT OF RAINFALL, &c.—(*Continued.*)

Months.	Pamplemousses.									
	St. André. G. Couve.		Observatory* C. Meldrum.		Botanical Gardens. J. Horne.		Mon Rocher. F. de Chazal.		La Rosalie. B. de St. Romain.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	7.54	18	7.44	19	10.28	20	.....	...	12.58	15
February...	2.87	12	4.38	19	4.82	17	.....	...	6.52	18
March	5.55	11	4.99	14	8.68	17	.....	...	9.29	14
April	11.39	15	12.22	19	14.19	19	.....	...	13.22	18
May	4.71	10	6.25	18	7.51	18	.....	...	9.03	20
June	2.46	7	1.97	13	3.64	14	.....	...	3.44	6
July	0.50	4	0.72	12	1.12	13	.....	...	1.79	11
August	1.43	4	1.33	16	2.58	16	.....	...	3.25	10
September	0.46	4	1.07	13	1.61	12	.....	...	2.77	9
October	0.68	3	1.89	13	3.42	11	.....	...	2.73	5
November	0.75	3	1.41	11	2.03	8	.....	...	2.23	4
December	4.02	5	4.02	13	10.02	14	.....	...	5.90	10
Fall in 1883	42.36	96	47.69	180	69.90	179	.....	...	72.75	140
Fall in 1882	48.18	115	56.06	209	75.87	145	74.62	101	88.29	...
Fall in 1881	46.54	155	45.32	219	62.35	144	55.33	100	64.54	165
Fall in 1880	27.53	146	34.03	198	43.33	168	39.60	120	.....	...
Fall in 1879	39.27	156	49.16	205	59.23	177	61.00	128	.....	...
Fall in 1878	38.04	136	43.25	174	52.44	162	55.45	103	.....	...
Fall in 1877	70.24	170	71.36	225	87.69	186	99.51	158	.....	...
Fall in 1876	36.44	182	41.87	198	50.23	167	.....	...	.....	...
Fall in 1875	46.43	160	49.98	212	56.05	186	54.58	149	.....	...
Fall in 1874	55.39	138	64.82	216	73.77	180	65.12	123	.....	...
Fall in 1873	56.87	143	75.54	219	81.39	164	71.67	133	.....	...
Fall in 1872	38.76	133	47.76	202	53.99	169	.....	...	.....	...
Fall in 1871	33.38	...	42.62	182	55.57	155	.....	...	.....	...
Fall in 1870	41.48	...	45.57	143	66.89	159	.....	...	.....	...
Fall in 1869	33.69	...	54.57	120	64.97	117	.....	...	.....	...
Fall in 1868	63.07	...	64.18	138	91.21	102	.....	...	.....	...
Fall in 1867	42.39	142	35.97	117	.....	...	.....	...	.....	...
Fall in 1866	40.83	132	20.74	117	.....	...	.....	...	.....	...
Fall in 1865	60.95	173	44.74	154	85.37	118	.....	...	.....	...
Fall in 1864	42.65	157	24.15	138	51.56	111	.....	...	.....	...
Fall in 1863	64.27	197	33.42	147	.....	...	.....	...	.....	...
Fall in 1862	41.84	141	28.40	124	.....	...	.....	...	.....	...
Means	45.94	148	46.42	174	65.66	155	64.10	124	75.19	153

* Previous to 1871, the Observatory was at Port Louis.

TABLE XXI.—SHOWING THE AMOUNT OF RAINFALL, &c.—(*Continued.*)

Months.	Moka.									
	Alma. E. Régnard.		Gentilly. J. H. Finniss.		Lynnwood. C. F. Shand.		Minissy. L. Hardy.		The Bower. C. F. Shand.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	21.03	23	19.51	16	14.39	26	15.19	22	.....	...
February	10.40	21	10.32	13	8.02	22	7.86	12	.....	...
March	14.00	20	9.40	10	4.49	18	11.81	15	.....	...
April	19.28	23	16.81	13	14.84	26	12.30	15	14.16	29
May	14.40	21	9.50	17	9.30	24	7.28	11	7.41	24
June	7.48	17	4.07	12	3.45	22	2.42	7	2.91	24
July	3.94	21	2.22	14	1.56	20	1.56	9	1.41	21
August.....	6.17	23	3.11	5	3.23	22	2.26	5	2.11	25
September	5.96	22	2.11	15	2.23	17	1.60	9	1.36	22
October	7.00	21	2.39	7	2.94	16	2.14	8	1.94	18
November	5.94	17	3.16	14	2.53	16	2.80	8	1.92	21
December	15.54	18	13.21	14	12 44	16	12.50	13	9.38	22
Fall in 1883	131.14	247	95.81	150	79.42	245	79.72	134	.....	...
Fall in 1882	140.66	255	95.82	198	80.81	253	79.09	131	.....	...
Fall in 1881	113.17	266	80.30	207	61.86	250	.....	...	.....	...
Fall in 1880	101.75	269	45.08	203	41.85	248	.....	...	.....	...
Fall in 1879	138.18	260	*78.03	214	71.15	244	.....	...	.....	...
Fall in 1878	109.85	228	72.90	182	58.69	200	.....	...	.....	...
Fall in 1877	175.24	272	119.31	224	94.06	217	.....	...	.....	...
Fall in 1876	116.42	247	75.84	191	62.36	194	.....	...	.....	...
Fall in 1875	.....	...	76.05	183	.....	...	.....	...	.....	...
Fall in 1874	167.12	256	92.52	192	.....	...	.....	...	.....	...
Fall in 1873	134.46	245	.....	...	.....	...	.....	...	.....	...
Fall in 1872	124.91	257	.....	...	.....	...	.....	...	.....	...
Fall in 1871	.....	...	63.28	194	44.72	158	.....	...	.....	...
Fall in 1870	.....	...	68.15	180	50.64	170	.....	...	.....	...
Fall in 1869	.....	...	75.38	154	61.39	168	.....	...	.....	...
Fall in 1868	.....	...	123.09	206	115.32	191	.....	...	.....	...
Fall in 1867	.....	...	73.67	181	60.82	170	.....	...	.....	...
Fall in 1866	.....	...	.....	...	40.68	193	.....	...	.....	...
Fall in 1865	.....	...	.....	...	79.44	217	.....	...	.....	...
Fall in 1864	.....	...	.....	...	56.61	205	.....	...	.....	...
Fall in 1863	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1862	.....	...	.....	...	.....	...	.....	...	.....	...
Means	132.09	255	82.35	191	66.24	208	79.40	132	.....	...

On 21st March, 1879, the gauge at Gentilly overflowed.

TABLE XXI.—SHOWING THE AMOUNT OF RAINFALL, &c.—(*Continued.*)

Months.	Plaines Wilhems.															
	Beau Séjour. Hon. R. Stein.		Westra. H. Wilson.		Trianon. A. Régnard.		Phœnix. A. Lenferna.		Reunion. G. Robinson.		La Marie. J. Shand.		Henrietta. J. Shand.		Curepipe Nursery. J. Horne.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	15.37	20	13.51	25	12.27	19	15.00	19	15.05	22	14.00	19	12.23	23	15.48	28
February	10.63	15	7.96	24	10.05	17	7.66	15	9.38	21	11.32	21	9.10	22	12.01	26
March	9.42	13	10.06	19	8.55	15	8.94	12	9.91	15	13.29	15	11.20	28	17.05	29
April	14.05	21	11.99	26	11.10	23	11.95	21	9.14	23	13.09	21	10.41	25	12.29	28
May	7.72	19	7.84	26	6.79	24	7.43	18	6.34	20	10.14	19	7.12	22	10.76	27
June	2.72	11	3.31	19	3.31	19	3.69	12	5.38	16	7.49	12	8.11	25	8.25	25
July	1.31	14	2.50	24	1.32	18	2.19	20	2.17	19	2.63	20	2.31	24	6.42	26
August	2.10	15	3.27	24	2.14	17	3.51	20	5.57	19	7.05	20	5.25	22	9.79	28
September	1.39	13	3.23	16	1.40	15	2.68	17	3.38	17	5.30	16	3.28	16	7.26	24
October	1.37	10	1.95	17	1.40	14	1.86	17	2.54	14	4.84	18	2.30	19	4.55	23
November	1.78	13	1.60	16	1.54	17	1.84	15	2.36	18	3.05	16	2.07	17	6.98	21
December	9.98	16	11.38	15	11.17	14	12.78	15	15.92	15	13.67	12	11.65	17	6.85	19
Fall in 1883 ...	77.84	180	78.60	251	71.04	212	79.53	201	87.14	219	105.87	209	85.03	260	117.69	304
Fall in 1882 ...	71.60	184	84.91	294	63.18	176	79.39	220	98.15	235	122.80	227	103.11	257	.....	...
Fall in 1881 ...	60.44	195	69.57	270	47.78	231	58.90	223	70.28	250	91.94	221	68.12	238	.....	...
Fall in 1880 ...	43.43	204	57.20	264	36.90	240	50.31	...	61.44	250	.....	...	.....	...	.....	...
Fall in 1879 ...	62.89	190	*78.39	244	53.70	185	63.37	...	85.84	230	.....	...	.....	...	.....	...
Fall in 1878 ...	63.65	171	69.95	...	55.79	135	66.73	189	78.83	...	.....	...	.....	...	.....	...
Fall in 1877 ...	92.91	235	109.52	...	86.13	175	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1876 ...	58.29	207	69.68	...	64.09	171	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1875 ...	60.92	191	73.81	204	66.63	153	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1874 ...	110.36	201	103.09	175	102.41	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1873 ...	82.89	199	80.73	200	84.49	180	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1872 ...	62.68	184	73.16	197	62.70	181	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1871 ...	45.97	179	67.82	191	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1870 ...	54.49	192	80.85	215	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1869 ...	67.58	179	80.67	213	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1868 ...	95.65	216	122.36	215	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1867 ...	64.58	187	81.34	195	60.16	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1866 ...	44.55	181	.....	...	43.24	150	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1865 ...	87.11	209	.....	...	81.19	152	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1864 ...	54.60	189	.....	...	48.58	149	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1863 ...	99.76	193	.....	...	80.66	182	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1862 ...	69.17	147	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Means	69.61	191	81.27	223	65.22	178	66.37	208	80.28	237	106.87	219	85.42	252	.....	...

* On 21st March, 1879, the gauge at Westra overflowed.

TABLE XXI.—SHOWING THE AMOUNT OF RAINFALL, &c.—(*Continued.*)

Months.	Grand Port.									
	Cluny. T. Audibert.		Midlands. Hon. E. Icery.		Gros Bois. R. Lemerle.		Beau Vallon. E. Guillebert.		Joli Bois. A. de Labory.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	13.52	14	16.24	21	15.09	13	10.91	18	18.25	18
February...	12.71	22	10.38	25	8.95	16	6.14	17	10.74	20
March	18.41	19	.....	...	16.31	16	6.49	15	19.56	15
April	14.80	21	.....	...	11.46	13	7.13	12	12.40	20
May	11.93	20	.....	...	11.95	16	15.49	22	13.45	18
June	7.45	16	.....	...	5.85	8	6.48	17	5.78	7
July	3.91	13	.....	...	1.24	5	1.22	18	2.55	14
August	7.29	18	.....	...	6.52	11	1.85	14	5.18	11
September	4.61	17	.....	...	5.21	11	1.96	13	3.81	9
October	7.65	21	.....	...	3.83	10	1.67	10	4.17	9
November	3.33	15	.....	...	3.53	10	1.43	13	4.29	6
December	13.48	14	.....	...	12.20	13	7.01	15	9.05	9
Fall in 1883	119.09	210	.....	...	102.14	142	67.78	184	109.23	156
Fall in 1882	181.18	188	186.25	229	126.40	148	95.24	229	.....	...
Fall in 1881	109.45	181	132.53	228	101.68	200	50.83	201	106.91	179
Fall in 1880	107.44	185	125.04	254	82.59	245	41.10	200	100.43	...
Fall in 1879	132.36	213	160.69	263	91.98	239	61.25	225	127.41	...
Fall in 1878	133.10	181	143.57	213	112.06	208	59.00	197	136.94	...
Fall in 1877	203.50	243	177.50	232	110.60	257	77.39	235	178.11	201
Fall in 1876	.....	...	129.46	231	74.45	241	50.90	213	97.74	160
Fall in 1875	.....	...	131.56	230	110.78	227	67.64	226	122.31	173
Fall in 1874	177.59	273	185.25	231	120.26	253	71.86	205	134.93	201
Fall in 1873	171.32	264	165.09	244	98.09	229	65.27	197	119.91	225
Fall in 1872	146.83	288	.....	...	90.08	228	53.99	201	100.55	251
Fall in 1871	133.71	279	.....	...	99.25	214	58.38	208	105.01	270
Fall in 1870	160.43	273	.....	...	102.40	229	68.64	216	.....	...
Fall in 1869	129.37	290	.....	...	94.77	212	69.94	233	.....	...
Fall in 1868	183.74	292	.....	...	137.29	253	81.60	248	.....	...
Fall in 1867	141.05	269	.....	...	83.69	216	61.05	233	.....	...
Fall in 1866	121.97	285	.....	...	70.24	256	51.05	233	.....	...
Fall in 1865	192.45	292	.....	...	135.21	259	100.84	242	.....	...
Fall in 1864	122.48	288	.....	...	83.36	234	.....	...	.....	...
Fall in 1863	147.09	273	.....	...	.....	...	.....	...	.....	...
Fall in 1862	122.54	261	.....	...	.....	...	.....	...	.....	...
Means	146.83	251	153.69	235	101.37	224	65.99	217	119.96	202

TABLE XXI.—SHOWING THE AMOUNT OF RAINFALL, &c.—(*Continued.*)

Months.	Grand Port.—(*Continued.*)										Savanne.			
	Riche-en-Eau.	L. de Rochecouste.	Deux Bras.	J. Gilmer.	Anse Jonchée.	H. Portal.	St Hubert.	H. Portal.	Astrœa.	C. Barlow.	St Aubin.	E. Maingard.	L'Union.	J. Lemaire.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	12.89	19	11.69	...	8.95	13	15.52	15	15.50	20	12.70	21	8.34	12
February	8.04	25	8.07	...	13.47	15	12.72	24	10.60	23	6.32	19	4.81	12
March	11.81	24	13.77	...	9.54	11	17.98	19	14.43	21	11.91	20	13.36	15
April	9.26	19	10.10	...	10.55	15	14.34	22	10.54	22	9.52	24	5.97	14
May	15.56	24	14.73	...	17.25	13	22.94	25	13.29	24	10.68	25	8.64	16
June	4.95	17	4.80	...	7.12	9	7.37	15	6.66	18	7.68	20	3.11	10
July	2.40	22	2.92	...	0.94	7	3.50	19	2.91	19	2.81	24	1.98	8
August	3.08	18	4.27	...	2.64	7	6.86	21	4.62	17	4.98	20	3.35	16
September	2.53	17	2.99	...	1.76	6	5.17	17	4.11	16	3.70	18	3.39	10
October	4.99	20	4.90	...	4.18	8	8.32	21	5.23	19	3.63	15	2.55	7
November	2.36	22	3.07	...	0.84	3	4.05	12	3.57	16	3.00	15	1.05	5
December	9.51	21	9.63	...	11.48	12	14.29	16	11.50	18	16.61	20	10.65	11
Fall in 1883	87.38	248	90.94	...	88.72	119	133.06	226	102.96	233	93.54	241	67.20	136
Fall in 1882	121.76	259	132.85	...	130.57	124	178.30	255	139.05	233	104.17	222	109.86	146
Fall in 1881	79.80	261	86.34	205	85.84	143	114.09	258	.....	...	76.51	247	58.27	124
Fall in 1880	67.06	247	72.72	227	72.92	139	98.86	218	.....	...	64.53	226	49.51	113
Fall in 1879	81.13	260	83.43	216	.....	...	.....	...	.....	...	75.26	226	57.14	107
Fall in 1878	86.60	221	.....	...	.....	...	.....	...	.....	...	92.58	195	76.00	124
Fall in 1877	.....	...	.....	...	.....	...	.....	...	.....	...	117.97	227	120.43	191
Fall in 1876	.....	...	.....	...	.....	...	.....	...	.....	...	67.92	196	71.35	112
Eall in 1875	.....	...	.....	...	.....	...	.....	...	.....	...	84.94	220	86.03	135
Fall in 1874	.....	...	.....	...	.....	...	.....	...	.....	...	88.68	215	94.31	110
Fall in 1873	.....	...	.....	...	.....	...	.....	...	.....	...	89.08	205	90.56	130
Fall in 1872	.....	...	.....	...	.....	...	.....	...	.....	...	76.10	230	78.62	144
Fall in 1871	.....	...	.....	...	.....	...	.....	...	.....	...	82.02	225	70.30	122
Fall in 1870	.....	...	.....	...	.....	...	.....	...	.....	...	82.39	226	76.25	149
Fall in 1869	.....	...	.....	...	.....	...	.....	...	.....	...	76.66	234	58.34	117
Fall in 1868	.....	...	.....	...	.....	...	.....	...	.....	...	112.12	260	.....	...
Fall in 1867	.....	...	.....	...	.....	...	.....	...	.....	...	71.66	229	.....	...
Fall in 1866	.....	...	.....	...	.....	...	.....	...	.....	...	70.51	245	.....	...
Fall in 1865	.....	...	.....	...	.....	...	.....	...	.....	...	115.60	251	.....	...
Fall in 1864	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1863	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1862	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Means	87.29	249	93.26	216	94.51	131	131.08	239	121.00	233	86.44	227	77.61	130

TABLE XXI.—SHOWING THE AMOUNT OF RAINFALL, &c.—(*Continued.*)

Months.	Savanne.—(*Continued.*)										Black River.			
	Colmar.	J. Charon.	Fontenelle.	J. Charon.	Riche Bois.	E. Deschamps.	Bel Air.	J. Anderson.	Bois Chéri.	H. Rouillard.	Chamarel.	C. Mauvis.	Bambous.	Ed. Nairac.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	12.65	12	12.23	15	13.25	16	14.76	21	19.55	...	7.91	11	.....	...
February	7.25	14	5.58	18	4.73	16	6.17	21	7.95	...	6.74	13	.....	...
March	13.90	13	14.35	18	18.10	17	10.85	24	22.70	...	14.57	14	.....	...
April	9.45	13	7.44	17	12.41	21	8.90	24	13.65	...	7.42	14	.....	...
May	9.85	13	7.99	18	10.45	20	6.43	28	.....	...	9.88	11	.....	...
June	5.30	7	3.97	15	6.91	14	5.12	21	.....	...	6.66	7	.....	...
July	1.85	5	2.65	20	2.65	20	1.69	23	.....	...	3.14	7	.....	...
August	4.95	9	4.71	14	10.58	20	2.88	22	.....	...	5.16	10	0.68	9
September	2.82	10	2.88	17	3.81	18	2.74	20	.....	...	3.85	11	0.29	9
October...	3.51	9	3.53	20	3.64	15	2.83	21	.....	...	2.47	8	0.62	8
November	1.97	11	2.65	20	3.32	20	1.32	16	.....	...	1.23	1	1.01	13
December	10.37	14	12.73	15	10.00	13	12.33	19	.....	...	8.30	8	3.57	12
Fall in 1883	83.87	130	80.71	207	99.85	210	76.02	260	.....	...	77.33	115	.....	...
Fall in 1882	.....	...	98.99	193	132.88	221	.....	...	187.35	...	109.27	183	.....	...
Fall in 1881	89.48	145	72.69	213	92.94	...	.....	...	136.88	...	79.86	165	.....	...
Fall in 1880	65.42	135	57.34	186	.....	...	.....	...	106.15	...	59.95	205	.....	...
Fall in 1879	87.41	193	79.43	193	.....	...	71.66	276	134.37	...	71.42	...	.....	...
Fall in 1878	109.64	180	88.55	183	.....	...	78.00	215	118.09	...	75.33	...	.....	...
Fall in 1877	130.58	236	109.32	206	.....	...	107.62	278	.....	...	110.26	...	.....	...
Fall in 1876	74.92	210	67.21	197	.....	...	.....	...	.....	...	72.98	...	.....	...
Fall in 1875	109.90	201	85.84	190	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1874	99.74	219	93.16	180	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1873	96.15	202	86.03	163	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1872	83.71	219	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1871	89.39	241	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1870	94.13	233	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1869	88.91	214	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1868	125.58	236	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1867	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1866	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1865	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1864	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1863	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1862	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Means	95.26	200	83.57	192	108.56	215	83.32	257	136.57	...	82.05	167	.....	...

TABLE

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

Dates.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels by which experienced.	Wind. Direction.	Max. Force.
Jan.							Beaufort.
4— 5	40° S	.....	17° E	22° E	Peggie Doy	N., N.W., W., W.S.W. ...	9
13—16	38 „	39° S	44 „	57 „	Albatross, Peggie Doy ...	N.E., N., N.W., W.S.W ...	9
20—26	18 „	40 „	60 „	51 „	Seraglio, Caroline, Empreza, Albatross, &c.	All points.	11
22 ...	5 „	.....	83 „	.....	Simla	W.S.W., W.	8
Feb.							
6—10	10° S	.....	106°E	104°E	Jane Bell	W.N.W. to W.	9
11—15	24 „	41° S	17 „	61 „	Buston Vale, Belle Isle, &c. ...	S.E. b. E. & N.E., N., N. W., W.	9
17—19	38 „	41 „	124 „	128 „	Jasper	N.W., W.S.W.	10
March							
7— 8	38° S	39° S	20° E	23° E	Lioness	S., S.S.E., S.W., W. ...	9
16—21	36 „	42 „	38 „	82 „	Charlotte, Aros Bay, Bells, &c.	N.E., N., N.W., W., S.W.	10
17—18	35 „	36 „	124 „	125 „	Castleton	W., W.S.W., S.S.W., S. ...	9
18—25	2 „	22 „	94 „	89 „	Duke of Edinburg, Pensée, &c.	N.W. to W., S.W., S., S.E., E.	10
24—27	25 „	36 „	51 „	65 „	Aros Bay, John Milton, Tage, &c.	E.S.E., S.E., S., S.W., N.W.	11
24—31	36 „	43 „	110 „	129 „	Doris, Ocean Ranger, &c. ...	N., N.W., W., S.W. ...	10
25—26	39 „	.....	4 „	8 „	Ringdove	N.N.W., N.	8
April							
2— 7	38° S	39° S	29° E	47° E	Ringdove, Earnest, Alcestis ...	N., N.W., W., W.N.W. ...	9
6— 7	35 „	39 „	117 „	126 „	Hannah Nicholson, Ocean Ranger	N., N.W., W., S.W. ...	9
13—19	25 „	39 „	13 „	58 „	Eulie, Ringdove, Earnest, &c.	E., N.E., N., N.W., W. & S.W.	10
17—18	29 „	39 „	108 „	113 „	Hannah Nicholson, Ocean Ranger	N., N.W., W. & S.W. ...	10
20—30	33 „	42 „	10 „	48 „	Lyra, Pembroke Castle, Eulie, &c.	N., N.W., S.W., S. & S.E.	9

XXII

GALES AND HURRICANES IN THE INDIAN OCEAN IN 1883.

Barometer.		Remarks.	Barometer at Mauritius reduced to sea-level.		Temperature of Air at Mauritius.		Wind at Mauritius.	
From	To		From	To	From	To	Direction.	Max. velocity per hour.
Inches	Inches		Inches	Inches	Deg.	Deg.		Miles.
29.70	29.96	Heavy gale with hard squalls.	30.071	30.072	83.7	75.0	E.N.E, N.E.	21.8
29.66	29.95	Hard squalls, rain and heavy cross sea.	29.903	29.854	83.6	74.5	E. b. N. to N.N.E. ...	23.9
30.18	28.90	Cyclone. Terrific squalls & rain.	29.925	29.740	84.3	73.4	E., S.E., S., S.W., W. N.W., N., N.E.	29.2
29.95	.....	Fierce squalls & heavy rain ...	29.740	.....	82.0	74.0	S.W., W., N.W., N. ...	29.2
.....	.....	Hard gale with hurricane squalls.	29.850	29.938	83.8	74.3	E. b. S., E., E.N.E. & N.E.	28.4
29.84	29.57	Heavy cross sea, terrific squalls	29.921	29.798	83.4	75.2	N.E. & Northerly, var.	24.1
29.80	29.50	Heavy sea, violent squalls. ...	29.875	29.842	82.7	74.6	E., S.E., S., W. ...	23.5
30.10	30.48	Tremendous heavy sea, much lightning.	29.975	30.067	82.2	68.4	Var. from S.E. to N. ...	12.4
30.30	29.12	Fearful gale, lost masts, &c.	29.870	30.020	86.1	74.0	Var. from S.E. to N. ...	26.2
.....	.....	Heavy sea and squalls. ...	29.939	29.969	86.1	74.0	,, ,, ,, ...	15.9
30.00	29.30	Hove to, fierce gusts and violent rain.	30.020	29.822	86.1	73.0	E.S.E., E., N.E., N., N. N.W.	26.2
29.95	29.30	Blowing a complete hurricane.	29.822	29.983	83.7	73.0	N., N.W., W., S.W., S.E.	22.3
29.90	29.44	Terrific gale, hove to. ...	29.822	30.066	83.9	71.0	N., N.W., W., S.W., S. & S.E. to E.N.E.	22.3
.....	.....	Heavy sea.	29.822	29.894	83.7	77.4	E.N.E., E. & E.S.E. ...	22.3
30.20	29.50	Heavy squalls, thunder and lightning.	30.070	30.017	83.7	71.3	E. b. N., E. & E.S.E. ...	19.8
30.20	29.34	Strong gale & hail squalls...	30.038	30.017	83.0	72.0	E., E.S.E.	16.7
30.50	29.80	Coup de vent, tremendous cross sea.	30.070	29.884	82.1	69.4	E.S.E., E., N., N.W., W., S.W. & S.	21.6
30.20	29.45	Strong gale, sudden shift. ...	29.944	29.907	74.7	70.0	Var. from E. to N.E. ...	21.6
30.00	28.90	Furious gale, lightning and heavy rain.	29.872	30.062	82.2	66.1	Var., Westerly & East ...	21.7

TABLE

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

Dates.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels by which experienced.	Wind. Direction.	Max. Force.
May							Beaufort.
2— 3	8° S	9° S	47° E	46° E	Peggie Doy	S.E. b. E., E. & S.E. ...	8
4 —9	26 „	36 „	47 „	56 „	Amelie, Fleetwood, &c. ...	S.E., E., N.E., N.W. ...	10
10—12	21 N	.....	88 „	.....	Dalswinton	S.W., S.S.W.	9
11—14	38 S	39 S	42 „	71 „	Catherine Marie, Tantallon Castle, &c.	N.E., N., N.W., S.W. ...	9
14—19	34 „	39 „	9 „	26 „	George Ville, Amelie, &c. ...	N., N.N.W. & N.W. ...	11
26—31	31 „	40 „	23 „	68 „	Callirhœ, Rio Loge, Eden, &c.	N. to W., S.W. & S. ...	10
29	29 „	30 „	107 „	112 „	Janet, Fleur de Maurice ...	N.N.W., W., S.W. ...	9
28—29	14 „	16 „	89 „	86 „	Actœa	S.S.E., S.E.	9
June							
3—11	8° N	16° N	96° E	89° E	Orissa, Eugenie	W.S.W. & S.W.	10
6—16	32 S	47 S	83 „	124 „	Ocean Ranger, Buston Vale, E. J. Spence, &c.	N. to W. & S.W.	9
8—11	36 „	42 „	4 „	32 „	Maria, Commerçant, Carlotta, &c.	W., S.W, S.E., E. & N.E.	10
16—27	32 „	44 „	19 „	63 „	Carnavonshire, Maria, Tynron, &c.	N., N.W., W., S.W. & S.E.	10
19—29	35 „	37 „	117 „	122 „	E. J. Spence, Farningham ...	N. to W. & S.W.	9
22—30	37 „	40 „	71 „	96 „	Hannah Nicholson	N.N.E., N., N.W., W. b. S.	9
23—26	23 „	24 „	51 „	53 „	Peggie Doy	S.W. b. W., S.W., S., S.E, E.S.E.	9
23—26	10 N	18 N	90 „	85 „	Calcutta, West Australian ...	W.S.W., S.W., S.S.W. ...	9
July							
1— 8	36° S	43° S	81° E	128° E	Hannah Nicholson, Farningham Golden Russet, &c.	N., N.W., W., S.W., S.S.W.	10
2— 7	35 „	40 „	20 „	53 „	Rapido, Nyverheid, Jane Porter	N.W., W.S.W.	...
4— 7	14 N	20 N	88 „	90 „	Formica, Dalswinton	N.N.W., W., W.S.W., S.W.	9
14—15	36 S	37 S	117 „	119 „	Golden Russet...	W.N.W., W. b. N. W.S.W. S. & S.E.	9
18—26	28 „	41 „	19 „	52 „	Peggie Doy, Maria, Brussels ...	N., N.W., W., S.W., S. ...	10
23—26	35 „	36 „	119 „	120 „	Lord Tredegar	N.N.W. to W. & S.W. b. S.	10
27—28	33 „	35 „	86 „	90 „	Tynron	W.N.W., W.	9
28—31	32 „	39 „	17 „	31 „	Peggie Doy, Maria, Huntley Castle	N.W., N., N.E. & S.W. ...	10
28—31	14 „	15 „	99 „	75 „	Buston Vale, Barbadian ...	S.S.E., S.E., E.S.E. ...	9

XXII.—(*Continued.*)

GALES AND HURRICANES IN THE INDIAN OCEAN IN 1883.

Barometer.		Remarks.	Barometer at Mauritius reduced to sea-level.		Temperature of Air. at Mauritius.		Wind at Mauritius.	
From	To		From	To	From	To	Direction.	Max. Velocity per hour.
Inches	Inches		Inches	Inches	Deg.	Deg.		Miles.
29.72	29.70	Heavy cross sea, rain and lightning.	30.069	30.093	79.4	71.1	S.E. & E.S.E.	30.8
30.40	29.75	Terrific gale, tremendous sea.	30.077	29.982	79.2	69.6	E.S.E., E., N.E., N. ...	26.0
.....	.....	Heavy cross sea	30.025	30.156	79.2	70.0	S.E., N.E., S.E. & E.S.E.	19.1
30.12	29.94	Stiff gales, hail, thunder and lightning.	30.156	30.069	79.2	66.5	S.E., E.S.E. & E. ...	19.1
29.65	29.25	Tempête, mer affreuse ...	30.175	30.081	77.9	63.5	,, ,, ,, ...	21.4
30.18	29.10	Hard gale, hail squalls and lightning.	30.097	30.009	78.9	66.4	E., N.E., N., W., & var.	18.6
30.20	29.90	Heavy sea, furious rain squalls	30.045	.....	78.1	66.4	E.S.E. to N.E.	9.0
.....	.....	Heavy cross sea	30.078	30.045	78.1	66.4	,, ,, ,, ...	13.4
29.95	29.85	Hurricane squalls, lightning and thunder.	30.119	30.015	79.4	59.4	Var., E., S.E. & S. ...	16.5
30.10	28.90	Hard gales, rain & lightning	30.015	30.181	79.4	59.4	Var., E. to S.E. & S. ...	22.1
30.35	29.33	Heavy gale, lost masts, &c....	30.105	30.088	76.8	59.4	E. to S.E. & S.	16.5
30.24	28.98	Heavy gales, terrific hail squalls.	30.052	30.197	77.1	61.9	E. to S.E., S., S.W. & S.E.	29.8
30.28	29.80	Terrific gale, heavy sea ...	30.052	30.200	77.1	61.9	,, ,, ,, ,,	29.8
30.20	29.33	Hard squalls and rain ...	30.052	30.243	77.1	61.9	E., Sly., & S.E. to E. ...	29.8
30.20	29.95	Heavy gale, hard squalls and heavy sea.	30.052	30.191	77.1	61.9	,, ,, ,, ...	29.8
30.06	29.88	Violent gale, terrific squalls	30.052	30.191	77.1	61.9	,, ,, ,, ...	29.8
30.43	28.80	Terrific gales, hurricane squalls and hail.	30.131	30.288	76.5	63.9	E., S.E.	24.2
29.05	29.80	Dangerous sea, terrific hail squalls.	30.131	30.202	76.5	63.9	,, ...	19.5
.....	.....	Heavy gales, terrific squalls of rain.	30.167	30.202	76.5	64.7	,, ...	19.5
30.30	29.76	Hard gale	30.173	30.200	74.1	63.8	E.S.E.	27.5
30.36	28.70	Terrific gale, fearful sea ...	30.234	30.120	74.8	58.0	E., S.E., S., W., N., S.E.	24.4
.....	.....	,, ,, violent squalls & rain.	30.120	30.214	74.2	58.0	S., S.E., W., N., S.E. ...	24.4
.....	.....	Heavy sea and squalls ...	30.298	30.265	72.5	63.3	E.S.E. to E.	26.0
30.29	29.75	Sudden shift, frightful sea ...	30.265	30.219	73.0	62.3	E.S.E., S.E. b. E. ...	27.6
29.90	.....	Heavy cross sea, squalls & rain	30.265	30.219	73.0	62.3	,, ,, ,, ...	27.6

TABLE

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

Dates.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels by which experienced.	Wind. Direction.	Max. Force.
August							Beaufort.
1—13	34° S	40° S	15° E	31° E	Gazelle, Maria, Ralston, &c. ...	E.N.E., N., N.W., W., S.W., S.	11
8—11	13 „	.....	89 „	86 „	Formica...	Var. from E.N.E. to S.E. b.S.	9
13—21	35 „	36 „	121 „	130 „	Onyx, Hannah Nicholson ...	W.S.W., W., N.W. & back to S.W.	9
17—18	2 N	3 N	89 „	.....	Castleton	W. b. S. to S.W.	9
18—26	32 S	40 S	14 „	59 „	Spinaway, County of Lancaster, Peggie Doy, Maria, &c.	N.E., N., N.W., W., S.W. S. & S.E.	10
22	17 „	.....	92 „	.....	Rio Loge	S.E. b. E., S.E.	9
25—26	24 „	21 „	60 „	.....	Ralston	E.S.E., S.E. b. E.	9
28	33 „	.....	17 „	.....	Catherine Marie	S., S.S.W.	10
Sept.							
2	17° N	19° N	87° E	86° E	Daylight	S.W., W., S.S.W. ...	9
7— 8	27 S	28 S	45 „	.....	Hettie	E.S.E. to E.	9
8— 9	39 „	.....	5 „	.....	Louis Eugène	E., S.E.	10
9—12	35 „	39 „	108 „	128 „	Day Dawn, Farningham ...	N.W., W., S.W.	10
11—16	31 „	37 „	21 „	59 „	Star of Devon, Hettie, Gazelle, &c.	N.N.E., N., N.W., W., S.W.	9
23—25	37 „	.....	26 „	.....	Elizabeth, Mathilda	S.E., E. & E.N.E.... ...	9
28—30	38 „	40 „	8 „	24 „	Berryer, Deux Amis, Parthenope	N., N.W., W., S.W., S.S.E.	10
October							
3— 8	32° S	41° S	37° E	86° E	Rio Loge, Deux Amis, Parthenope, &c.	N.W., W., S.W. & N.E. & N.	10
5— 6	4 N	2 N	83 „	82 „	Buston Vale	West	9
5— 6	21 S	22 S	57 „	56 „	Hannah Nicholson	S.S.E.	9
9—12	35 „	40 „	31 „	74 „	Parthenope, Adele, &c. ...	S., S.E., E. & N.W., S.W. S. b. W.	9
19—25	36 „	37 „	117 „	122 „	Farningham, Doris, Loongana	N., S.W., W., W.N.W. ...	10
23—31	35 „	39 „	17 „	48 „	Lady Harewood, Wandering Chief, Formica, &c.	N.N.E., S.S.E., S.E., E.S.E.	9
25—27	29 „	22 „	52 „	56 „	S. S. Anerley	S.E. to E. b. S.	9
28—31	38 „	40 „	100 „	109 „	Hannah Nicholson	N.N.W., W.S.W. to S. ...	9

XXII—*Continued.*

GALES AND HURRICANES IN THE INDIAN OCEAN IN 1883.

Barometer.		Remarks.	Barometer at Mauritius reduced to sea-level.		Temperature of Air at Mauritius.		Wind at Mauritius.	
From	To		From	To	From	To	Direction.	Max. velocity per hour.
Inches	Inches		Inches	Inches	Deg.	Deg.		Miles.
30.45	29.41	Heavy storm, mountainous seas.	30.225	30.117	75.4	60.5	Ely., N.Wly., S.E. to E. & back to S.E.	25.1
.....	.....	Heavy sea, continual rain. ...	30.132	30.126	75.4	60.5	S.E. to E. & var. ...	21.5
30.20	29.62	Furious hail squalls. ...	30.225	30.133	74.4	58.6	S.E., E.S.E., E. ...	24.5
29.90	.....	Strong gale & squally weather	30.202	30.168	74.1	58.6	E.S.E., S.W., E.S.E. ...	17.1
30.30	29.46	Heavy gales, torrents of rain, thunder and lightning.	30.168	30.119	75.6	58.6	E.S.E., S.E., S. & S.E. ...	28.0
30.20	.....	Heavy sea.	30.149	.....	74.0	68.2	E.S.E.	20.8
30.40	30.30	Heavy sea & very squally. ...	30.119	30.137	74.0	65.0	S.E. to E b. S.	28.0
30.18	30.20	Heavy gale.	30.172	.....	74.0	62.5	E.S.E., E.	20.8
.....	.....	Thick rain.	30.136	.....	74.2	65.3	S. to E.N.E.	14.0
.....	.....	Dreadful cross sea.	30.182	30.154	76.0	63.4	E.S.E.	20.5
.....	.....	Ouragan.	30.154	30.162	76.0	58.5	S.E., W. & N.	13.2
30.40	29.30	Heavy S.W. gale, mountainous sea.	30.186	30.151	76.0	58.5	S.E., Wly. & S.	21.1
30.58	29.75	Terrific squalls with torrents of rain.	30.151	30.207	75.4	59.5	S.E., Wly., S. to E.S.E.	23.4
30.30	29.80	Heavy rain, thunder and lightning.	30.197	30.171	76.3	65.2	E.S.E.	26.8
30.50	29.60	Coup de vent. Rain and hail squalls.	30.165	30.247	75.9	64.5	E.S.E. & E.	26.2
30.56	29.80	Coup de vent. Sudden shift.	30.196	30.238	78.4	62.0	E. to S.S.E.	22.6
29.70	29.80	Lightning to N.W., constant rain.	30.217	30.222	75.3	63.4	S.E., S.S.E.	22.6
30.25	30.30	Heavy cross sea, sharp squalls.	30.217	30.222	75.3	63.4	,, ,, ...	,,
29.50	30.00	Shift to S.W., heavy rain & hail.	30.221	30.188	76.4	62.9	E.S.E.	18.8
29.60	30.50	Terrific gale, shift to S.W. ...	30.037	30.068	80.3	65.2	E., E.N.E., S.W., & var.	15.6
30.59	30.06	Sudden shift, thick misty rain	30.048	30.158	80.3	64.4	Var. from S.E. & W.S.W. & W. & then Ely.	24.3
30.34	30.30	Heavy gale, rain squalls and heavy cross sea.	30.036	30.074	79.7	64.4	Var. from S.E. & W. & Ely.	24.0
30.15	29.97	Sudden shift, vivid lightning.	30.071	30.118	78.7	68.6	E.S.E., E. & E.N.E. ...	24.3

TABLE

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

Dates.	Localities.				Vessels by which experienced.	Wind.	
	Latitude.		Longitude.				
	From	To	From	To		Direction.	Max. Force.
Nov.							Beaufort.
5— 6	17° S	18° S	74° E	70° E	Daylight	S.S.E.	9
11—12	32 „	43 „	54 „	64 „	Rio, Minister of Marine ...	N.N.E., E. b. S. & W. ...	9
13—18	34 „	39 „	3 „	26 „	Emulation, Catherine Marie,&c.	N.W., W., S.W., S.S.E. ...	9
17—20	24 „	29 „	54 „	79 „	Maria, Minister of Marine ...	S.E., E.	9
26—27	37 „	39 „	29 „	31 „	Emulation	E. b. S. to N.E.	9
Dec.							
4— 8	35° S	42° S	9° E	51° E	Vigilant, Catherine Marie, &c.	N., N.W., W.	9
6— 8	20 „	28 „	59 „	55 „	Royal Edward, Callirhœ, Marie Ange, Earnest, &c.	All points	12
10—17	16 „	18 „	93 „	87 „	Electra, Mistley Hall, &c. ...	All points	12
13	40 „	.....	93 „	.....	Hattonburn	N.W., W.N.W.	9
18—20	37 „	39 „	42 „	50 „	Jessie	W.N.W., W., S.W. ...	9
24—25	38 „	.....	19 „	35 „	Marion Niel, Marie Thérèse ...	E., S.E., S., W.S.W. ...	10

XXII.—(*Continued.*)

GALES AND HURRICANES IN THE INDIAN OCEAN IN 1883.

Barometer.		Remarks.	Barometer at Mauritius reduced to sea-level.		Temperature of Air. at Mauritius.		Wind at Mauritius.	
From	To		From	To	From	To	Direction.	Max. Velocity per hour.
Inches	Inches		Inches	Inches	Deg.	Deg.		Miles.
30.40	.....	Violent squalls, heavy sea and rain.	30.031	30.040	79.0	68.7	E., E.S.E.	25.2
.....	.....	Heavy gale, some squalls. ...	30.012	29.929	78.0	67.0	E. b. S., E.S.E., W., S.E.	16.5
30.35	29.78	Tremendous seas, furious squalls.	29.916	30.025	80.3	65.5	S.E., N.W., N.N.E., E. S.E., S.E., & E.	25.6
30.00	30.12	Cross sea & heavy rain. ...	29.931	30.037	80.3	68.2	E.S.E., E. b. S., E. ...	25.6
.....	.....	Furious head sea.	30.005	30.009	82.5	70.4	E. b. S., E. b. N. ...	19.7
30.35	29.37	Heavy gale, mountainous sea and hail.	29.874	30.041	85.0	72.8	E.S.E., E.N.E., S.W., E. S.E., E., N.E., N.	44.9
30.15	29.57	Cyclone, tremendous seas, lost masts, &c.	29.987	29.874	84.0	75.2	E.S.E., E., N.E., N. ...	44.9
30.01	28.10	Cyclone. Blowing a fearful hurricane, lost sails, rudder, &c.	30.076	29.990	82.0	64.8	Var., S.E. to E. b. S. var., E.S.E.	21.5
29.60	.....	Westerly gale, nasty sea. ...	30.016	.....	81.3	70.3	S.E. to E.	12.9
.....	.....	Heavy sea and rain... ...	30.041	29.919	82.9	68.1	E.S.E. to N., S.E., N.E.	16.6
29.70	30.40	Coup de vent. Hove to. ...	30.011	30.007	83.0	72.0	E., E. b. N., N.E. ...	15.7

STORM-WARNINGS.

Telegraphic storm-warnings were sent to Port Louis and different parts of the Colony on four occasions, viz., January 21, January 30, February 7, and December 6 and 7.

(1.) Between the 20th and 26th of January a Cyclone travelled from the Cargados Garayos to 39° S. and 57°E. From the 20th to the 22nd the barometer at Mauritius fell two tenths of an inch, the wind backing from E. b. S. to S. and S.W., and on the 21st it was announced that there was no danger.

(2.) On the 30th of January, the wind being from E.S.E. at the rate of 25 miles an hour, the barometer falling, and the weather threatening, it was announced that there was no danger for the next 48 hours, at the least, and before the expiration of that time the weather improved.

(3.) At 4 p.m. on the 7th of February, the wind being from East at the rate of 28 miles an hour, and the barometer falling, it was stated that there was no danger. On this occasion a Cyclone passed at a safe distance north-west of Mauritius.

(4.) Three telegrams were sent on the 6th of December. The first, at 3 50 p.m., announced that the wind was from S.E. b. E. at the rate of 25 to 30 miles an hour, the barometer falling, and a cyclone approaching; the second, at 5.30, that the cyclone would pass north of Mauritius, and that the force of the wind would not exceed 8 of Beaufort's scale; and the third, at 7.35, that the wind, which was then from E.S.E. at the rate of 31 miles an hour, was slowly veering, and the barometer still falling, but that there was no danger of more than a gale. At 7 a.m. on the 7th, the wind being from N.E. b. N. at the rate of 40 miles an hour, and the barometer rising, it was stated that the weather would gradually improve. When the centre of this small cyclone was near St. Benoit on the east coast of Bourbon at 10 a.m. on the 7th, the wind at Mauritius was from N.N.E. ½ N.

C. MELDRUM,

Director.