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INDEX.

	Page.
Annual Departmental Report for 1889,	1
Rainband in China,	2
Time Service in 1889,	3
Five-yearly Time Ball Report,	4
Magnetic Observations made in 1889,	6
Annual Weather Report,	7
Weather Reports for 1889 :—	
January,	15
February,	25
March,	35
April,	45
May,	55
June,	65
July,	75
August,	85
September,	95
October,	105
November,	115
December,	125
	App.
Hourly readings of Tides in 1887 and 1888,	A.

HONGKONG OBSERVATORY,
24th April, 1890.

SIR,—My fifth volume of observations and researches was published early in spring last year and I have the honour to submit herewith my sixth volume in manuscript as ordered by His Excellency the Governor. It consists in addition to this, the annual departmental report, of the usual annual synopsis of meteorological and magnetic means and extremes. Then follow the usual twelve monthly reports for 1889, as ordered by the Secretary of State, on 120 pages. Appendix *A*. contains hourly readings of tides for 1887 and 1888 as well as the mean sea level obtained therefrom.

2. Curves from the automatic tide-gauge for 1889 are available and will be read off whenever assistants can be spared for such work.

3. Owing to the necessity of having meteorological observations made hourly from 7a. till 10p. inclusive and work connected with weather intelligence, storm-warnings, and tidal observations, which have been by degrees added by me with the approval of the Governor to the work ordered by the Secretary of State, and none of which latter may be discontinued, the staff is so hard worked that I ventured last summer to call His Excellency's attention to the necessity for appointing another European as chief assistant. His assistance would also be available during bad weather connected with typhoons, when as a rule the native assistants desert, as might be expected from them, and he would assist in collecting information about typhoons. Such an appointment would enable His Excellency to grant leaves of absence to which the officials are entitled. This is at present impossible without stopping some of the work, as substitutes cannot be found to act for half of the small salaries available.

4. Direct and efficient telegraphic connection with the Telegraph Companies' Offices in Queen's Road and also with the station at Victoria Peak, which are absolutely necessary for the issue of local storm-warnings, have been ordered and will probably be ready for use during next typhoon-season.

5. Very important returns are received monthly from South Cape (Formosa),—the most important meteorological station in the Far East. Telegraphic information from there would make a great advance in the storm-warnings but the necessary connections have not yet been established by the Chinese authorities. Meantime I receive messages from Anping, which although irregular and liable to interruption are of some importance. Returns from South Cape would not only furnish negative evidence in case of typhoons in the China Sea but would enable the isobars to be projected more exactly. It is to be remarked that observations made in Formosa and in Luzon are generally of comparatively inferior value owing to wind-deflection caused by the high mountain-chains, that form the backbones of those islands. This is more especially the case in Northern Formosa and telegrams from there would be only misleading but as proved in my paper in *Nature* referred to below, the returns from South Cape are usually not at all affected by the hills. For the exact determination of the situation of the centre of a typhoon raging in the China Sea, the latter should be by degrees surrounded by telegraphic reporting stations.

6. During a stay in June in the Government Pavilions at the Peak, which I had not before visited, I made observations, which shewed the importance of the signal-station for meteorological records but unfortunately also indicated that those kept there at present are not at all sufficient. I introduced some minor improvements and reported to the Governor concerning the extension required. His Excellency took my suggestions into consideration but deferred the final decision. The case is that a certain kind of typhoons is indicated much earlier at the Peak than in the Observatory, near sea level, so that information from there would be a great help for the issue of early warnings. This has been fully explained in the paper in *Nature* referred to below.

7. A self-recording anemometer, rain-gauge, and sunshine recorder (duplicates of the apparatus in Hongkong) have been erected by the Imperial Maritime Customs at South Cape, Formosa, and the curves are received regularly. A similar station is wanted at the Peak. Major-General PALMER, R.E., foresaw this many years ago and recommended an anemograph in his ably written report.

8. Some further information concerning the typhoons of 1888 has been collected, but the data are not yet complete. With reference to the past year in addition to observations made at over 40 stations on shore, the logs of 93 different vessels containing entries on 1216 days (counting those made on board different ships on the same date separately) are available. A number of log-books have of course been looked through without entries bearing on typhoons having been found. By order of His Excellency the Admiral, Commander-in-Chief, a copy of all meteorological observations made on board men-of-war belonging to the squadron stationed in these seas are sent to the Observatory and Commanders of foreign vessels of war send such observations as are requested direct or through the Commodore.—86 log-books or extracts of log-books were received through the Harbour Master's Office, 44 direct from the Captains or Owners, and 5 were copied on board ship in the harbour. Owing to the illness of one of the assistants it was impossible for me to have log-books inspected on board ship since October, so that the information available is not yet complete.

9. Information has been supplied to the Royal Engineers, the Royal Navy, the Imperial Maritime Customs of China, the Public Works and the Medical Departments, the Harbour Office and to masters of vessels trading in the Chinese Seas.

10. All necessary repairs to buildings were made by the Public Works Department last autumn, and the Honourable S. BROWN, Surveyor General, introduced several improvements of great value, but the building is at present too small for the purpose. This is a serious drawback, as it lessens the amount of work that can be done here. Even the transit-room has to be used for tabulation and drawing.

11. Among scientific men who visited the Observatory may be mentioned Professors MICHIE SMITH and S. A. HILL from India and Mr. WADA from Tokio.

12. The sudden snap of cold weather that set in during November caused a great deal of sickness in Kowloon and it became nearly impossible to continue the records without interruption.

13. The following papers were published in Europe in the course of the past year:—

"The Law of Storms in China," (*Nature*, Vol. XXXIX, p. 301).

"Rainfall in China in 1888," (Quart. Journ. R. Met. Sac. Vol. XV, No. 72.)

"Sunshine in Formosa in 1888."

"Meteorological Observations made at Ichang and South Cape in 1888."

"Mean pressure of the air in Iloilo" (Philippines) (*Meteorologische Zeitschrift.* VI p. 156).

A larger investigation of the climate of Hongkong from five years' observations on which much work has been expended is now nearly ready for press besides some papers of minor importance. Professor HANN in Vienna, who had previously published monthly means of air-pressure in Hongkong in which several years of observations made by the Royal Engineers were added to the series given in "Observations and Researches made during the year 1884" and who has also harmonically analysed the hourly means of air-pressure obtained during the last few years, has published an investigation of the rainfall in Hongkong on the basis of the hourly readings taken here from the beginning of 1884 till the end of 1888.

14. The volunteer, who last year contributed observations of crepuscular rays, observed during a portion of the past year the spectroscopic rain-band every morning at 10a. The figures from the 12th June till the 8th July were entered on the Peak. By comparing the intensity of the band (0–5) with the rainfall during the subsequent 24 hours, printed in inches and decimals beside the intensity of the rainband, it was noticed that intensities 0 and 1 forecast absence of rain very accurately, and that intensities 4 and 5 forecast as a rule very wet weather,—the latter indication moreover being frequently followed by great thunderstorms, that cannot be otherwise forecast from local observations. The following record from which the annual variation of the band is seen to be great, is therefore interesting.

TABLE I.

Rain-band in Hongkong in 1889.

Date.	April.		May.		June.		July.		August.		September.		October.		November.		December.	
1, ...	4	0.11	3	0.24	2	—	2	0.09	0	0.55	3	0.53	4	0.16	3	0.01	3	0.01
2, ...	3	0.88	3	—	2	0.71	3	—	4	0.29	3	0.09	3	0.01	2	—	2	—
3, ...	2	—	2	—	2	0.24	2	—	4	1.23	1	—	2	0.01	1	—	1	—
4, ...	3	0.07	2	—	2	0.06	1	—	5	2.58	0	—	1	—	1	—	0	—
5, ...	2	2.36	1	0.00	4	0.07	2	—	4	2.10	1	—	2	0.01	2	—	0	—
6, ...	4	0.08	2	—	2	0.65	2	—	3	0.39	1	—	2	0.01	2	0.01	2	—
7, ...	2	0.10	2	0.11	3	0.09	1	—	4	1.23	1	—	1	—	3	—	2	0.04
8, ...	3	0.01	3	—	4	0.85	1	—	3	0.01	3	3.99	1	—	3	—	2	0.01
9, ...	2	—	3	—	4	0.29	1	—	4	0.01	5	1.84	3	0.06	2	—	1	—
10, ...	2	—	2	—	3	0.08	1	—	2	0.09	1	0.04	3	—	1	—	1	—
11, ...	2	—	2	—	3	—	1	—	3	0.69	3	0.02	1	—	1	—	1	—
12, ...	3	—	2	—	2	—	2	—	4	0.75	2	—	2	—	1	—	0	—
13, ...	3	0.03	1	0.01	2	0.21	2	—	3	0.52	0	—	1	—	1	—	0	—
14, ...	2	—	1	—	2	0.36	1	—	4	2.48	1	—	1	—	0	—	0	—
15, ...	3	—	1	—	4	0.57	2	—	4	0.13	0	—	4	2.65	0	—	0	—
16, ...	2	0.01	2	—	4	2.61	2	0.94	3	0.04	1	0.05	5	1.10	0	—	2	—
17, ...	?	—	3	0.21	4	0.53	3	0.83	2	—	3	1.94	4	—	1	—	2	—
18, ...	?	0.22	3	4.83	3	0.23	3	0.26	2	—	4	0.12	2	—	0	—	1	—
19, ...	?	—	5	2.07	3	0.36	3	0.01	1	—	4	0.03	1	—	1	—	1	—
20, ...	2	—	5	1.95	3	0.03	1	0.04	1	0.38	3	—	3	0.18	0	—	1	—
21, ...	?	1.29	4	1.42	2	0.20	2	0.25	4	1.97	1	—	4	0.13	0	—	0	—
22, ...	?	—	4	1.55	2	0.41	3	0.04	3	0.42	1	—	4	0.10	3	0.43	0	—
23, ...	1	—	3	0.05	2	0.07	3	0.02	3	0.04	2	—	4	—	4	0.71	0	—
24, ...	?	0.10	3	0.02	2	0.53	2	—	4	2.18	3	0 06	3	—	4	0.06	1	—
25, ...	?	—	3	1.71	2	0.55	3	0.09	4	0.01	3	0.95	4	0.45	3	0.01	1	0.11
26, ...	?	—	4	0.43	2	0.18	2	—	2	—	4	0.82	5	3.16	2	0.08	2	—
27, ...	?	0.02	4	0.73	2	—	3	1.31	1	—	4	0.16	3	—	2	0.01	2	—
28, ...	?	0.01	3	6.06	1	0.18	3	—	1	—	3	0.55	2	—	3	—	2	—
29, ...	?	5.50	5	22.86	3	0.51	2	—	0	—	4	0.29	3	—	3	0.02	0	—
30, ...	4	1.47	5	4.53	3	0.24	2	—	1	0.04	4	0.92	2	—	4	0.01	0	—
31, ...	—	—	2	0.03	—	—	1	—	2	0.10	—	—	2	0.18	—	—	0	—
Mean,...	2.6	—	2.8	—	2.6	—	2.0	—	2.7	—	2.2	—	2.7	—	1.8	—	1.0	—

15. The number of transits observed during the past year was 367, and the inclination of the axis was determined 124 times. The mean daily rates during ten-days periods in 1889 are exhibited in the following table, where − means gaining and + losing rate. The rates are represented by the following formula:—

$$R_c = +0^s{\cdot}09 - 0^s{\cdot}00197t - 0^s{\cdot}0000018t^2 - 0^s{\cdot}063\ (\tau - 70^\circ).$$

where t is counted from the 3rd July 1889. The observed rate minus the computed rate is exhibited under the heading $R_o - R_c$.

TABLE II.

Rate of Sidereal Standard Clock in 1889.

Period.	Rate.	Temp.	R_o-R_c.
December 30– 9,	+0ˢ.59	66°.0	−0ˢ.05
January 9–19,	+0. 51	65. 8	−0. 13
" 19–29,	+0. 71	64. 9	+0. 03
" 29– 8,	+0. 69	64. 1	−0. 03
February 8–18,	+0. 81	64. 9	+0. 16
" 18–28,	+0. 60	66. 5	+0. 06
" 28–10,	+0. 53	66. 9	+0. 04
March 10–20,	+0. 42	66. 7	−0. 07
" 20–30,	+0. 40	66. 0	−0. 12
" 30– 9,	+0. 36	66. 5	−0. 11
April 9–19,	+0. 14	70. 9	−0. 04
" 19–29,	+0. 15	71. 4	+0. 02
" 29– 9,	−0. 14	77. 0	+0. 11
May 9–19,	−0. 39	81. 1	+0. 14
" 19–29,	−0. 35	77. 5	−0. 03
" 29– 8,	−0. 62	81. 4	−0. 03
June 8–18,	−0. 74	81. 6	−0. 13
" 18–28,	−0. 77	83. 7	−0. 02
" 28– 8,	−0. 77	85. 0	+0. 08
July 8–18,	−0. 78	85. 8	+0. 14
" 18–28,	−0. 82	84. 2	+0. 02
" 28– 7,	−0. 75	82. 3	0. 00
August 7–17,	−0. 80	81. 6	−0. 08
" 17–27,	−0. 90	83. 1	−0. 07
" 27– 6,	−0. 83	83. 1	+0. 02
September 6–16,	−0. 81	81. 3	−0. 06
" 16–26,	−0. 80	80. 6	−0. 07
" 26– 6,	−0. 87	81. 8	−0. 03
October 6–16,	−0. 90	82. 0	−0. 02
" 16–26,	−0. 89	80. 1	−0. 11
" 26– 5,	−0. 78	75. 6	−0. 27
November 5–15,	−0. 48	70. 7	−0. 25
" 15–25,	−0. 32	70. 2	−0. 09
" 25– 5,	−0. 28	69. 0	−0. 10
December 5–15,	−0. 08	66. 7	−0. 02
" 15–25,	−0. 02	66. 7	+0. 07
" 25– 4,	+0. 04	66. 4	+0. 14

16. As stated in the time-ball notice published in the *Government Gazette* on the 10th January, 1885, the ball is not dropped on Sundays and on Government Holidays. The ball was dropped every working day during the past year except on the 28th February, when it failed to drop owing to the spring in the lock not being tight enough, on the 3rd of May, when it failed owing to a broken wire in the reversing galvanometer, on the 11th November, when in failed owing to the discharging battery working badly, and on the 20th December, when it failed owing to the spring in the lock not being tight enough.—On the 29th and 30th May and on the 17th June the ball was not hoisted on account of thunderstorms, and on the 16th October owing to the absence of all the native assistants on account of bad weather.—On July 23rd the ball was not hoisted owing to the failure of one of the switches.—On the 13th June the ball could not be hoisted as it jammed against the mast and from the 21st to the 29th October it was under repair because the top of the ball was torn by the mast being out of shape, which was apparently due to the constant action of more or less strong monsoon.—New switches have been procured, new batteries have been ordered and it is intended to procure a new reversing galvanometer, as the old one requires to have all the covered wires renewed.

TABLE III.

Errors of Time-Ball in 1889.

— means too late. + means too early.

Date.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1,	...	0s.1	+0s.2	+0s.8	+0s.5	0s.1	0s.1	0s.1	...	0s.1	0s.1	...
2,	0s.1	0.1	+0.2	+0.8	+0.6	...	0.1	0.1	0s.1	0.1	0.1	−0s.5
3,	0.1	...	...	+0.9	...	+0.2	0.1	+0.2	0.1	−0.2	...	−0.2
4,	0.1	0.1	+0.3	+0.9	+0.7	0.1	+0.2	...	0.1	0.1	0.1	−0.5
5,	0.1	0.1	+0.4	+0.7	...	0.1	0.1	...	0.1	0.1	0.1	+0.2
6,	...	+0.2	0.1	0.1	0.1	0.1	0.1	+0.5	0.1	...	−0.2	0.1
7,	−0.5	0.1	0.1	...	−0.2	0.1	...	0.1	0.1	0.1	−0.2	0.1
8,	−0.7	−0.2	+0.2	0.1	0.1	0.1	0.1	0.1	...	0.1	−0.3	...
9,	0.1	−0.4	+0.2	+0.2	0.1	...	0.1	0.1	0.1	0.1	0.1	0.1
10,	0.1	...	...	+0.3	0.1	...	0.1	0.1	0.1	0.1	...	−0.2
11,	+0.2	−0.2	+0.4	+0.4	+0.2	0.1	0.1	...	−0.3	0.1	...	0.1
12,	+0.3	0.1	+0.5	0.1	...	0.1	0.1	0.1	0.1	0.1	0.1	0.1
13,	...	0.1	+0.6	+0.2	+0.4	...	+0.2	0.1	0.1	...	0.1	−0.3
14,	+0.7	+0.2	+0.2	...	+0.5	0.1	...	0.1	0.1	0.1	−0.2	−0.5
15,	0.1	0.1	+0.2	+0.5	+0.6	0.1	0.1	0.1	...	+0.2	0.1	...
16,	0.1	0.1	+0.3	+0.6	0.1	...	0.1	0.1	0.1	...	0.1	0.1
17,	−0.2	...	...	0.1	0.1	...	0.1	+0.3	0.1	+0.3	...	0.1
18,	−0.3	+0.2	0.1	0.1	0.1	0.1	0.1	...	0.1	0.1	+0.2	+0.2
19,	−0.5	0.1	−0.2	...	...	0.1	0.1	0.1	+0.2	0.1	+0.4	0.1
20,	...	+0.2	0.1	+0.2	−0.3	0.1	+0.2	0.1	0.1	...	+0.6	...
21,	−0.9	0.1	0.1	...	0.1	0.1	...	+0.3	0.1	...	0.1	0.1
22,	−1.1	0.1	0.1	...	0.1	0.1	+0.3	+0.4	...	...	+0.3	...
23,	0.1	0.1	+0.2	0.1	0.1	...	...	0.1	+0.2	...	+0.4	0.1
24,	−0.2	...	...	−0.2	...	0.1	+0.2	0.1	+0.3	...	...	...
25,	0.1	+0.2	+0.3	0.1	0.1	0.1	+0.2	...	+0.4	...	+0.6	...
26,	0.1	+0.2	+0.3	0.1	...	−0.2	+0.3	0.1	+0.6	...	+0.5	...
27,	...	+0.2	+0.4	0.1	0.1	0.1	0.1	−0.2	0.1	...	0.1	0.1
28,	0.1	...	+0.4	...	0.1	0.1	...	0.1	0.1	...	−0.2	−0.3
29,	0.1	...	+0.5	0.1	...	0.1	−0.2	0.1	...	...	−0.3	...
30,	+0.2	...	+0.7	+0.3	...	...	0.1	0.1	...	0.1	−0.4	0.1
31,	...	...	...	...	−0.3	...	−0.2	0.1	...	0.1	...	0.1

17. The probable errors of the signal in the different months of 1889 (with the average percentage of clouded sky added in parenthesis) were as follows:—

January 0s.24 (86), February 0s.13 (62), March 0s.23 (94), April 0s.28 (84), May 0s.20 (81), June 0s.09 (76), July 0s.12 (50), August 0s.12 (63), September 0s.13 (57), October 0s.10 (57), November 0s.20 (62), December 0s.16 (60).—The mean of the probable errors was 0s.17.

18. During the past five years the time-ball has been dropped 1465 times, or perhaps about 1500 times if the experiments be taken into account.—An error of less than 0s.15 occurred 804 times, of 0s.2 = 249 times, of 0s.3 = 142 times, of 0s.4 = 88 times, of 0s.5 = 61 times, of 0s.6 = 36 times, of 0s.7 = 30 times, of 0s.8 = 16 times, of 0s.9 = 15 times, of 1s.0 = 9 times, of 1s.1 = 5 times, of 1s.2 = 3 times, of 1s.3 = 3 times, of 1s.4 = 1 time, of 1s.5 = 2 times, of 1s.6 = 1 time.—From this distribution of errors it appears that the accuracy of the signal has been under-estimated. In the calculation in fact all errors less than 0s.15 have been taken as equal to 0s.1:—With the value of the probable error 0s.15, which follows from the figures, we obtain for the frequency of errors less than 0s.15 = 733, of 0s.2 = 350, of 0s.3 = 213, of 0s.4 = 106, of 0s.5 = 43, of 0s.6 = 15, of 0s.7 = 4, of 0s.8 = 1.—The occurence of errors more than five times as large as the probable error is common enough in practise although it is not explained by the theory of least squares in the form in which it is given in the text books.

19. As stated in the "Instructions for making Meteorological Observations, etc." meteorological instruments forwarded by observers who regularly send their registers this Observatory, are verified here free of cost. During the past year, the following number of instruments was verified and certificates issued:—Barometers = 3, Thermometers = 6. The index errors of barometers read off on board ship are determined whenever required by comparing readings made near this port with the barograms.

20. In the "China Coast Meteorological Register," based on information transmitted by the Eastern Extension, the Great Northern and the Imperial Chinese Telegraph Companies, which was daily published is given a summary of the atmospheric circumstances in the Far East. It contains also information concerning the first appearance and progress of typhoons and gives an account of all storm-warnings issued.

21. From 3.30 p. on the 29th of May till the same time on the 30th there fell 22.535 inches of rain. This occurred during thunderstorms of unusually great duration. The floods caused by the rain proved a disaster to the Colony. Roads and streets were cut up, retaining walls carried away, sewers burst and houses undermined, but only few persons were killed by the lightning.

22. At the Observatory the cisterns of the barograph and standard barometer are placed 109 feet above mean sea level. The bulbs of the thermometers are rotated 108 feet above mean sea level and 4 feet above the grass. The solar radiation thermometer is placed at the same height The rim of the rain-gauge is 105 feet above mean sea level and 21 inches above the ground. At Victoria Peak the instruments, except the solar radiation thermometer and the rain-gauge are placed in the lookout. The cistern of the barometer is 1814 feet above sea level. The bulbs of the thermometers are 4 feet above the floor except the maximum thermometer, which is a few inches higher. The rim of the rain-gauge is 8 inches in diameter and one foot above the ground.

23. The monthly Weather Reports are arranged as follows :—

Table I. exhibits the hourly readings of the barometer reduced to freezing point of water but not to sea level, as measured (at two minutes to the hour named) from the barograms.

Tables II. and III. exhibit the hourly readings of the temperature of the air, and of the temperature of evaporation as determined from readings of thermometers exposed in a suitable shelter, and as measured from the thermograms. All readings are reduced to the rotating thermometers by comparisons made every three hours. Table II exhibits also the extreme temperatures during the day reduced to the rotating thermometer by aid of comparisons made during the hottest and coldest part of the day. Table III. exhibits also the solar radiation (black bulb in vacuo) maximum temperature reduced to the Kew arbitrary standard.

Table IV. exhibits the mean relative humidity in percentage of saturation and mean tension of water vapour present in the air expressed in inches of mercury for every hour in the day and for every day in the month calculated by aid of Blanford's tables from the data in Tables II and III.

Table V. exhibits the duration of sunshine expressed in hours from half an hour before to half an hour after the hour (true time) named.

Table VI. exhibits the amount of rain in inches registered from half an hour before to half an hour after the hour named. It exhibits also the duration of rain estimated at the Observatory. The rainfall at Victoria Peak is measured at 10a. and entered to preceding day, but it is evident that the observer does not attend to the gauge every day.

Table VII. exhibits the velocity of the wind in miles and its direction in points (0 – 31). The velocity of the wind is measured from half an hour before to half an hour after the hour named; but the direction is read off at the hour except when it is very light and changeable, in which case the average direction during the hour is estimated, taking into account the velocity from different quarters. The direction is not noted when the velocity is below 1.5 miles an hour. The vane is to be depended on except when the velocity is uniform (which of course rarely happens) and below 3 miles an hour.

Table VIII. exhibits for every hour in the day the mean velocity of the wind reduced to 4 as well as to 2 directions, according to strictly accurate formulæ, and also the mean direction of the wind. The method made use of during the past five years has been abandoned as it does not furnish the mean direction for every day, which latter is this year given in Table VII.

Table IX. exhibits the readings of the barometer reduced to freezing point of water but not to sea level, and of the thermometers, and the observations of the direction (to two points) and force (0 – 12) of the wind at Victoria Peak.

Table X. exhibits the amount (0 – 10), name and direction whence coming of the clouds. Where the names of upper and lower clouds are given but only one direction, this refers to the lower clouds.

24. The following annual weather report for 1889 is arranged as follows :—

Table IV. exhibits the mean values for the year (or hourly excess above this) obtained from the means given in the monthly reports. The mean hourly intensity of rain is obtained from Table VI. of the monthly reports in connection with Table V of this report. The total amount of rain was 119.715 at the Observatory and 133.32 at the Peak. The total duration registered at the Observatory was 905 hours. There fell at least 0.01 inch of rain on 161 days at the Observatory. The figure 103 given for the Peak is evidently inaccurate.

Table V. exhibits the number of hours during a portion of which at least 0.005 inch of rain was registered.

Table VI. exhibits the total distance traversed by as well as the direction and average velocity of winds from bi-quadrantal points, obtained from the tables published on the first page of each monthly report.

Table VII. exhibits the number of days on which certain meteorological phenomena were registered and also the total number of thunderstorms noted in the neighbourhood during the past year.

Table VIII. shows the frequency of clouds of the different classes.

Table IX. is arranged the same as last year.

Table X. exhibits the monthly and annual extremes. The extremes given for humidity and vapour tension can be regarded as only approximate as the hourly values are not calculated.

Table XI. contains the five-day means.

25. The following table exhibits the differences between the monthly mean components (exactly computed) and direction of the wind given in Table VIII. of the monthly reports and those computed by the methods used in the five years 1884-1888, and explained in previous reports; the exact values minus the approximate values:—

1889.	N.	E.	S.	W.	+N−S	+E−W	Direction (0°−359°).
January,	+1.01	+0.35	+0.30	+0.03	+0.82	+0.32	−4°
February,	+0.99	+0.20	+0.40	+0.03	+0.69	+0.17	−3°
March,	+1.37	+0.16	+0.22	0.00	+1.05	+0.05	−5°
April,	+1.36	+0.11	+0.42	+0.02	+0.94	+0.09	−4°
May,	+0.80	+0.21	+0.39	+0.07	+0.40	+0.24	−3°
June,	+0.08	+0.28	+0.45	+0.18	−0.36	+0.10	−1°
July,	+0.15	+0.20	+0.47	+0.24	−0.31	+0.05	0°
August,	+0.32	+0.18	+0.46	+0.06	−0.04	+0.11	+1°
September,	+0.80	+0.35	+0.34	+0.01	+0.46	+0.34	−2°
October,	+0.71	+0.35	+0.28	+0.08	+0.43	+0.27	−1°
November,	+0.75	+0.60	+0.18	−0.03	+0.47	+0.63	−1°
December,	+0.67	+0.60	+0.39	+0.02	+0.28	+0.58	0°
Mean,	+0.75	+0.30	+0.36	+0.06	+0.40	+0.25	−2°

26. Magnetic Observations made during the year 1889:—

The observations of Declination and Horizontal Force were made with the Unifilar Magnetometer, Elliott Brothers, No. 55, and the Dips were observed with Dip Circle Dover, No. 71.

The methods adopted in making the observations and in determining and applying the corrections are explained in *Appendix G. of Obs. and Res. made in 1885:* "On the verification of the Unifilar Magnetometer, Elliott Brothers, No. 55." The value of log. Π^2 K. was 3.44944 at 20° Cent., and the value of P was + 7.596. The mean value of the magnetic moment of the vibrating needle was 0.47487 in British Units and 619.97 in C.G.S. Units.

The times of vibration exhibited in the table are each derived from 12 observations of the time occupied by the magnet in making 100 vibrations; corrections having been applied for rate of chronometer and arc of vibration.

The observations of horizontal force are expressed in C. G. S. Units (one centimeter, one gramme, one second), but the monthly synopsis exhibits X, the horizontal as well as Y, the vertical, and the total forces, which have been computed by aid of the observed dips, and their values are also given in British Units (one foot, one grain, one second), and in Gauss's Units (one millimeter, one milligram, one second).

27. Dr. C. Schrader explains in his report on the magnetic survey of German New Guinea that the constants of his magnetometer were determined from comparisons made at the observatories in Hongkong, Washington and Wilhelmshafen. The comparisons made in Batavia did not agree as far as the horizontal intensity was concerned.

I have the honour to be,

Sir,

Your most obedient Servant,

W. Doberck,
Director.

The Honourable W. M. Deane,
Acting Colonial Secretary,
&c., &c., &c.

TABLE IV.

Mean Values and Hourly Excess above the Mean of Meteorological Elements in 1889.

	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean or Total. Observatory.	Mean or Total. Peak.
Pressure,	+.003	—.008	—.016	—.018	—.013	+.001	+.017	+.033	+.044	+.046	+.036	+.017	—.006	—.027	—.040	—.045	—.042	—.032	—.017	—.001	+.013	+.021	+.020	+.013	29.844	28.113
Temperature,	— 1.3	— 1.6	— 1.7	— 1.9	— 2.1	— 2.1	— 1.5	— 0.5	+ 0.4	+ 1.3	+ 2.0	+ 2.3	+ 2.6	+ 2.6	+ 2.3	+ 1.7	+ 1.1	+ 0.2	— 0.2	— 0.4	— 0.6	— 0.7	— 1.0	— 1.1	72.1	66.6
Diurnal Range,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8.2	5.6
Humidity,	+ 5	+ 5	+ 5	+ 5	+ 4	+ 4	+ 2	0	— 3	— 4	— 6	— 6	— 6	— 6	— 6	— 4	— 2	0	+ 1	+ 2	+ 3	+ 3	+ 4	+ 4	80	...
Vapour Tension,	+.005	+.004	—.001	—.005	—.009	—.012	—.011	—.009	—.011	—.009	—.004	.000	+.002	+.003	+.001	+.002	+.003	+.006	+.003	+.007	+.008	+.008	+.008	+.007	0.663	...
Sunshine (Total),	...	...	...	...	...	8.3	86.9	141.7	161.8	177.0	184.4	184.7	180.7	182.4	175.6	156.7	102.9	12.2	...	...	...	...	...	...	1755.3	...
Rainfall,	.455	.470	.615	.527	.687	.742	.457	.519	.497	.753	.647	.335	.317	.356	.384	.347	.287	.320	.198	.172	.220	.230	.152	.288	119.715	133.32
Hours of Rain (Total),	41	41	50	47	53	47	46	45	40	38	30	30	36	28	37	32	39	35	26	36	31	33	34	30	905	...
Intensity of Rain,	.133	.138	.148	.135	.156	.189	.119	.138	.149	.238	.259	.133	.106	.152	.125	.130	.088	.110	.091	.057	.085	.084	.054	.115	0.131	...
Wind-Velocity,	— 1.0	— 1.2	— 1.2	— 1.1	— 1.1	— 1.1	— 0.7	— 0.1	+ 0.4	+ 1.2	+ 2.2	+ 2.1	+ 2.0	+ 2.1	+ 1.9	+ 1.2	+ 0.3	— 0.6	— 0.9	— 1.0	— 0.9	— 0.9	— 0.9	— 0.9	13.6	22.5
Wind-Direction,	— 1°	— 0°	— 2°	— 4°	— 4°	— 5°	— 3°	— 4°	— 5°	— 1°	+ 2°	+ 6°	+ 9°	+ 9°	+ 10°	+ 6°	+ 4°	0°	— 1°	— 2°	— 3°	— 4°	— 4°	— 1°	E 4° S	E 29° S
Cloudiness,	+ 3	...	...	+ 4	...	...	+ 3	...	...	0	...	...	— 2	...	...	— 4	...	...	— 3	...	...	— 2	...	...	69	...
Solar Radiation,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	129.0	...
Excess of do. do.,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	52.4	...

TABLE V.

Number of Hours, during portion of which it rained, for each Month in the Year 1889 at the Observatory.

Month.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Total.
January,	1	1	3	4	2	...	1	1	2	3	2	3	2	...	...	...	1	2	3	2	1	2	1	2	39
February,	3	1	3	4	2	1	1	...	2	2	1	1	1	2	1	1	2	2	2	4	3	4	2	1	46
March,	5	2	6	4	2	...	1	2	2	1	...	...	1	2	3	5	4	3	2	2	3	2	4	4	60
April,	3	4	3	1	3	4	4	3	2	2	1	1	3	3	3	3	5	5	4	3	4	3	3	4	74
May,	6	5	6	8	7	7	7	8	8	7	9	8	8	5	7	6	8	3	2	2	2	1	3	4	137
June,	3	4	5	4	4	5	8	7	5	7	4	3	5	5	9	4	4	5	4	2	3	2	2	3	107
July,	2	3	5	3	7	3	1	2	2	1	1	2	2	1	1	2	1	2	1	5	1	2	3	2	55
August,	6	6	9	8	10	7	8	5	8	7	3	3	4	1	5	4	5	7	3	6	6	6	3	5	135
September,	3	5	2	2	5	4	8	9	5	4	5	4	5	4	3	2	1	...	1	2	2	3	4	1	84
October,	6	5	5	4	6	10	4	5	3	3	3	3	3	4	3	4	5	2	2	4	3	5	6	2	100
November,	2	3	3	4	5	5	2	2	1	...	...	1	2	1	2	1	3	4	2	4	3	3	3	2	58
December,	1	2	...	1	...	1	1	1	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	10
Total,	41	41	50	47	53	47	46	45	40	38	30	30	36	28	37	32	39	35	26	36	31	33	34	30	905

TABLE VI.

Total Distance traversed by, as well as Total Duration and Average Velocity of Winds from eight different Points of the Compass during the year 1889.

Wind.	Total Distance. *Miles.*	Duration. *Hours.*	Velocity. *Miles per hour.*
N,	12405	1045	11.9
NE,	10659	800	13.3
E,	67445	3799	17.8
SE,	6734	595	11.3
S,	9520	879	10.8
SW,	6112	504	12.1
W,	3840	437	8.8
NW,	2304	282	8.2
Calm,	261	419	0.6
Sums and Mean,	119280	8760	13.62

TABLE VII.

Total Number of Days on which different Meteorological Phenomena were noted and Total Number of Thunderstorms during each month of the year 1889.

Month.	Fog.	Electric Phenomena.	Lightning.	Thunder.	Thunder-storms.	Unusual Visibility.	Dew.	Rain-bows.	Lunar Halo.	Lunar Corona.	Solar Halo.	Solar Corona.
January,	...	...	...	...	...	1	2	...	...	...	...	...
February,	10	...	...	...	...	...	2	...	...	...	...	...
March,	14	3	3	2	1	1	...	...	2	1	3	...
April,	17	8	7	7	6	1	3	...	1	3	3	...
May,	3	15	14	10	5	1	7	...	4	5	1	...
June,	3	19	18	13	5	5	4	2	7	5	6	2
July,	2	12	11	4	...	7	7	5	4	5	9	3
August,	4	16	15	9	5	...	9	8	4	4	7	1
September,	...	11	11	1	1	1	1	3	6	8	5	2
October,	4	11	10	2	1	3	6	3	1	7	2	1
November,	4	...	...	...	...	...	2	...	3	7	1	...
December,	3	...	...	...	...	...	2	...	1	5	...	...
Sums,	64	95	89	48	24	20	45	21	33	50	37	9

TABLE VIII.

Total Number of Times that Clouds of different Forms were observed in each month of the year 1889.

Month.	c.	c-str.	c-cum.	sm-cum.	cum.	cum-str.	str.	R-cum.	cum-nim.	nim.
January,	...	3	2	22	110	...	29	40	34	20
February,	...	...	1	12	54	...	21	22	24	25
March,	...	7	...	18	110	...	65	18	16	39
April,	2	23	5	17	116	1	38	11	26	32
May,	...	41	23	19	137	2	5	26	37	44
June,	...	67	39	22	168	4	13	15	18	25
July,	...	78	19	12	156	1	1	14	17	13
August,	...	68	30	33	127	11	3	...	21	43
September,	...	47	22	14	149	2	2	7	9	23
October,	...	21	15	27	135	...	9	5	15	33
November,	...	28	17	52	76	...	16	8	24	22
December,	...	10	8	62	92	...	20	5	19	3
Sums,	2	393	181	310	1430	21	222	171	260	322

TABLE IX.

Month.	Barometric Tide.	Mean diurnal variability of Temperature.	Temperature decrease. Height for 1°	Rain Fall.		Hourly Intensity of Rain.	Mean direction of Clouds whence coming.			Number of Days with Clouds below.	
				Mean 1878-1887 inclus.	1889.		Lower.	Upper.	Cirrus.	2000 ft.	1000 ft.
	ins.	°	*feet.*	*ins.*	*ins.*	*ins.*					
January,	0.111	1.91	295	1.47	0.730	0.012	E	W	...	20	6
February,	0.103	2.99	380	1.66	0.720	0.015	SE by E	WSW	...	14	6
March,	0.098	3.26	518	3.53	2.490	0.028	ESE	W	...	24	16
April,	0.090	2.34	777	6.55	12.270	0.139	S by E	W by S	W	25	21
May,	0.092	1.63	311	9.82	48.840	0.379	S	W	...	29	11
June,	0.070	0.85	255	12.67	9.715	0.152	SSW	NW by W	...	22	4
July,	0.079	0.68	237	16.41	4.575	0.139	SSW	E by N	...	21	0
August,	0.075	1.04	295	16.93	18.140	0.211	SE by E	E	...	17	3
September,	0.080	0.96	259	9.89	11.800	0.223	E by S	E by S	...	12	1
October,	0.092	1.53	276	5.06	8.720	0.098	E	E by N	...	9	2
November,	0.104	1.99	276	1.04	1.540	0.024	E	SW by W	...	9	4
December,	0.119	2.16	290	0.49	0.175	0.016	E by N	WSW	...	4	1
Mean,	0.093	1.78	347	85.52	119.715	0.120	E 40° S	S 24° W	W	206	75

TABLE X.

Monthly Extremes of the Principal Meteorological Elements registered at the Observatory during the year 1889.

Month.	Barometer.		Temperature.		Humidity.	Vapour Tension.		Rain.		Wind Velocity.	Radiation.
	Max.	Min.	Max.	Min.	Min.	Max.	Min.	Daily Max.	Hourly Max.	Max.	Sun. Max.
January, ...	30.250	29.794	69.6	46.6	51	0.604	0.205	0.250	0.105	34	139.4
February, ...	.390	.776	76.2	40.3	11	0.767	0.036	0.265	0.115	53	133.9
March, ...	.308	.696	77.8	52.5	56	0.799	0.293	0.810	0.335	36	136.3
April,.....	29.989	.604	81.3	61.8	44	0.863	0.294	3.595	1.345	37	143.1
May, ...	.968	.497	88.8	71.4	61	1.011	0.646	20.495	3.400	34	151.1
June, ...	.819	.469	89.6	75.1	62	1.018	0.740	1.720	0.570	29	155.8
July, ...	.845	.340	92.5	75.0	47	1.010	0.710	1.170	0.570	46	150.5
August, ...	.835	.380	89.8	74.8	47	1.022	0.595	3.155	1.890	43	154.8
September, ...	.951	.628	91.2	73.0	43	0.993	0.443	5.710	1.700	39	156.2
October, ...	.983	.383	90.5	67.1	49	0.945	0.394	3.470	0.600	61	155.8
November, ...	30.282	.758	81.4	55.8	24	0.756	0.142	0.445	0.135	38	145.2
December,.....	.266	.796	78.2	49.9	20	0 570	0.109	0.105	0.090	36	143.1
Year,.....	30.390	29.340	92.5	40.3	11	1.022	0.036	20.495	3.400	61	156.2

TABLE XI.

Monthly Extremes of the Principal Meteorological Elements registered at Victoria Peak during the year 1889.

Month.	Barometer.		Temperature.		Rain.	Wind.
	Max.	Min.	Max.	Min.	Daily Max.	Force Max.
January, ...	28.41	28.06	66	42	0.26	6
February.	.50	.07	68	38	0.46	6
March, ...	.43	.00	70	47	1.34	6
April, ...	.21	27.93	75	57	6.84	6
May, ...	.22	.85	78	66	?	7
June,.....	.12	.79	79	71	2.76	6
July, ...	.14	.69	83	72	1.10	6
August,.....	.13	.71	80	70	3.80	6
September, ...	.19	.95	80	69	4.35	7
October, ...	.24	.80	79	60	2.30	8
November, ...	.47	28.05	72	52	0.60	6
December, ...	.44	.10	69	47	0.05	7
Year,.....	28.50	27.69	83	38	?	8

TABLE XII.

Five-Day Means of the Principal Meteorological Elements observed in Hongkong in 1889.

Five-Day Periods.	Observatory.								Victoria Peak.			
	Barometer.	Temperature.	Humidity.	Vapour Tension.	Wind Velocity.	Nebulosity.	Sunshine.	Rain.	Barometer.	Temperature.	Wind Force.	Rain.
January 1– 5	30.066	60.0	75	0.399	14.1	7.2	4.7	0.055	28.245	54.4	3.8	0.10
„ 6–10	.134	58.0	73	.356	11.2	8.6	2.7	0.001	.316	50.5	4.3	0.00
„ 11–15	29.913	64.2	89	.537	18.1	8.5	3.1	0.019	.162	59.7	3.7	0.04
„ 16–20	30.100	57.0	81	.382	9.9	9.1	1.9	0.056	.306	51.2	3.9	0.07
„ 21–25	.137	54.1	73	.310	14.2	8.5	2.8	0.015	.320	46.8	3.8	0.00
„ 26–30	.089	58.2	83	.404	13.4	9.5	0.3	0.000	.291	51.4	3.3	0.00
„ 31– 4	.031	55.6	86	.385	15.4	9.6	0.6	0.018	.234	49.6	3.9	0.12
February 5– 9	.104	52.0	72	.280	9.8	6.0	3.3	0.091	.281	44.6	3.8	0.09
„ 10–14	.123	55.3	60	.279	15.6	1.9	9.8	0.003	.313	49.7	3.8	0.00
„ 15–19	.079	59.5	76	.389	18.4	2.0	9.2	0.000	.289	55.0	4.0	0.00
„ 20–24	29.913	63.4	94	.552	17.3	9.5	1.8	0.002	.169	61.8	3.7	0.00
„ 25– 1	30.017	60.3	74	.419	14.5	9.7	0.5	0.056	.231	55.3	4.1	0.06
March 2– 6	29.998	62.5	96	.544	19.3	9.9	0.2	0.001	.233	63.1	3.9	0.00
„ 7–11	.912	69.0	93	.660	13.2	9.5	1.3	0.003	.172	66.6	4.3	0.00
„ 12–16	30.131	60.5	81	.434	12.9	10.0	0.3	0.071	.338	54.9	3.6	0.10
„ 17–21	29.961	64.7	81	.492	16.3	8.0	3.3	0.002	.204	60.1	4.3	0.04
„ 22–26	.943	64.4	83	.509	16.1	9.5	1.6	0.256	.179	60.9	3.9	0.27
„ 27–31	.873	63.3	87	.508	19.2	9.5	1.6	0.139	.109	59.7	4.2	0.11
April 1– 5	.799	65.4	97	.607	21.2	9.9	0.0	0.498	.060	66.7	4.2	0.77
„ 6–10	.811	67.2	95	.636	20.3	9.5	0.6	0.225	.077	67.1	4.2	0.07
„ 11–15	.848	69.6	94	.685	19.6	8.8	4.0	0.006	.125	68.1	3.9	0.00
„ 16–20	.901	70.4	83	.619	14.1	7.9	3.3	0.046	.159	66.3	3.6	0.07
„ 21–25	.863	68.6	73	.514	11.9	7.3	4.4	0.280	.122	63.0	3.7	0.35
„ 26–30	.691	74.8	89	.767	11.1	7.0	5.0	1.399	27.987	70.4	3.5	1.66
May 1– 5	.798	76.1	91	.823	14.3	7.4	5.2	0.049	28.088	72.0	3.8	0.00
„ 6–10	.852	77.5	84	.799	12.3	6.3	7.4	0.023	.147	72.6	3.9	0.00
„ 11–15	.799	81.4	81	.871	9.1	7.5	8.3	0.002	.110	74.1	3.9	0.00
„ 16–20	.759	80.2	84	.860	10.3	7.5	5.8	1.625	.054	73.2	3.9	1.74
„ 21–25	.744	75.2	88	.767	12.4	9.9	0.1	0.908	.034	69.3	4.0	0.97
„ 26–30	.628	77.1	91	.848	15.0	9.8	1.0	7.155	27.933	71.7	4.7	?
„ 31– 4	.606	81.6	86	.930	15.3	8.3	4.5	0.196	.919	75.4	4.4	0.39
June 5– 9	.655	81.8	84	.918	8.7	9.3	2.4	0.345	.967	74.5	4.3	0.59
„ 10–14	.627	80.1	85	.873	11.1	7.0	6.7	0.117	.939	74.7	3.3	0.03
„ 15–19	.634	81.9	86	.942	12.7	9.5	1.8	0.753	.948	75.0	4.7	0.99
„ 20–24	.677	83.8	80	.926	13.1	7.6	6.8	0.164	.993	76.0	4.4	0.28
„ 25–29	.755	83.5	79	.909	7.7	4.7	8.1	0.237	28.073	76.2	3.5	0.34
„ 30– 4	.731	83.9	79	.923	11.1	4.0	10.0	0.292	.043	75.8	4.1	0.05
July 5– 9	.657	84.5	77	.910	8.1	2.0	11.2	0.000	27.987	76.5	3.5	0.00
„ 10–14	.551	84.2	77	.902	6.8	4.6	11.2	0.000	.882	77.8	2.5	0.00
„ 15–19	.526	83.1	81	.911	17.4	7.5	5.0	0.407	.853	76.6	4.3	0.42
„ 20–24	.604	84.1	80	.940	17.7	8.7	3.9	0.072	.919	76.2	4.5	0.15
„ 25–29	.700	82.0	83	.906	11.3	4.9	7.7	0.281	28.015	75.0	3.8	0.22
„ 30– 3	.599	81.8	82	.893	10.1	4.5	7.5	0.277	27.913	75.0	3.7	0.31
August 4– 8	.743	79.2	89	.886	16.6	9.4	2.7	1.397	28.043	73.3	4.0	1.06
„ 9–13	.674	81.4	86	.920	13.5	6.7	5.8	0.353	27.977	75.0	3.7	0.63
„ 14–18	.565	81.1	84	.892	17.6	7.8	4.0	0.593	.887	74.2	4.3	0.76
„ 19–23	.547	82.4	82	.909	5.1	5.7	6.5	0.553	.869	76.2	2.9	0.84
„ 24–28	.646	80.6	80	.834	5.4	3.8	7.2	0.446	.955	75.3	2.8	0.23
„ 29– 2	.745	81.1	81	.858	8.0	4.0	7.0	0.152	28.055	74.8	3.8	0.24
September 3– 7	.725	83.5	80	.921	6.0	3.1	10.1	0.000	.045	76.0	3.3	0.02
„ 8–12	.743	79.5	72	.732	8.7	6.5	7.1	1.178	.052	73.6	3.9	0.90
„ 13–17	.829	78.5	71	.691	22.7	6.2	7.2	0.067	.099	71.3	5.1	0.43
„ 18–22	.826	79.8	84	.854	14.2	5.2	4.6	0.361	.114	73.3	3.9	0.03
„ 23–27	.715	80.7	83	.863	20.8	7.5	4.9	0.391	.013	73.9	5.1	0.62
„ 28– 2	.851	80.5	86	.897	11.5	5.2	6.1	0.391	.147	74.6	3.2	0.16
October 3– 7	.859	81.2	82	.868	11.0	2.1	9.8	0.005	.165	75.7	3.1	0.00
„ 8–12	.776	80.9	69	.730	10.4	3.1	10.0	0.012	.081	74.3	4.1	0.01
„ 13–17	.614	78.8	74	.730	14.9	8.8	2.7	0.751	27.933	72.0	4.7	0.87
„ 18–22	.783	79.8	83	.850	17.9	5.6	5.6	0.077	28.080	73.7	4.3	0.31
„ 23–27	.816	77.3	82	.774	19.2	8.1	3.3	0.728	.098	70.3	4.5	0.60
„ 28– 1	.870	73.7	68	.576	12.0	7.5	3.9	0.036	.135	65.8	4.0	0.03
November 2– 6	.871	71.6	60	.466	16.8	7.2	5.6	0.004	.138	63.6	4.5	0.02
„ 7–11	.882	70.8	66	.509	15.2	5.1	6.0	0.001	.141	64.0	4.3	0.00
„ 12–16	30.184	63.5	47	.276	13.9	4.3	6.5	0.002	.401	55.6	4.0	0.00
„ 17–21	29.917	68.5	71	.499	11.1	2.2	9.4	0.000	.172	63.8	3.2	0.00
„ 22–26	.848	70.3	88	.653	18.8	9.2	2.2	0.258	.117	64.8	3.9	0.28
„ 27– 1	.919	66.5	82	.536	11.9	8.9	1.4	0.008	.157	60.5	3.8	0.02
December 2– 6	30.007	58.8	54	.272	15.2	4.5	5.0	0.003	.214	52.0	4.7	0.01
„ 7–11	29.926	66.5	74	.479	12.5	6.8	5.1	0.009	.179	60.1	3.5	0.00
„ 12–16	30.149	60.2	58	.310	14.0	4.0	8.0	0.001	.349	54.5	3.9	0.00
„ 17–21	.094	63.9	65	.386	13.6	8.6	1.6	0.000	.321	56.0	4.1	0.00
„ 22–26	.083	63.3	75	.439	13.4	5.9	5.6	0.021	.307	57.8	3.4	0.00
„ 27–31	29.987	62.8	74	.427	10.7	5.4	5.7	0.000	.225	58.6	3.0	0.00

TABLE XIII.

Observations of Magnetic Declination and Dip.

1889.	H.K.M.T.	Declination, East.	Observer.	H.K.M.T.	A.	B.	Dip, North.	Needle	Observer.
January, ...	14d. 2h. 30m. p.	0° 38′ 42″	F.G.F.	13d. 3h. 50m. p.	32°17′.83	90° 0′.00	32°17′.83	No. 6	W.D.
				"	19 .71	"	19 .71	5	"
				15 3 2 p.	42 53 .19	40 44 .60	16 .60	1	"
				16 3 10 p.	41 46 .40	41 56 .02	21 .00	2	F.G.F.
February, .	13 2 35 p.	0 40 21	"	15 3 16 p.	38 22 .50	46 21 .80	17 .48	6	M.A.
				16 3 12 p.	38 29 .44	46 7 .46	16 .82	5	"
March, ...	14 2 43 p.	0 39 15	M.A.	15 3 23 p.	35 28 .63	54 17 .07	23 .15	5	"
				16 3 17 p.	35 12 .78	54 4 .50	8 .65	6	"
April, ...	15 2 38 p.	0 39 16	F.G.F.	11 3 2 p.	33 25 .50	64 43 .60	12 .90	1	W.D.
				20 3 25 p.	33 29 .90	64 56 .47	18 .18	2	F.G.F.
May, ...	15 3 12 p.	0 37 56	M.A.	13 3 15 p.	33 32 .50	64 8 .57	18 .55	1	M.A.
				14 2 59 p.	33 30 .50	64 14 .22	14 .32	2	"
				16 3 3 p.	33 37 .64	64 7 .81	20 .00	5	"
				17 3 5 p.	33 28 .82	64 8 .28	12 .20	6	"
June, ...	15 2 14 p.	0 38 17	F.G.F.	14 3 5 p.	32 17 .60	90 0 .00	17 .60	1	F.G.F.
				"	32 20 .00	"	20 .00	2	"
July, ...	15 2 30 p.	0 39 16	"	16 3 22 p.	32 14 .60	"	14 .60	5	"
				"	32 18 .63	"	18 .63	6	"
August, ...	16 2 24 p.	0 37 41	"	15 3 20 p.	32 17 .11	"	17 .11	1	"
				"	32 18 .16	"	18 .16	2	"
September,	16 2 32 p.	0 37 21	"	16 3 40 p.	32 14 .64	"	14 .64	1	"
				"	32 19 .18	"	19 .18	2	"
				17 3 24 p.	32 16 .08	"	16 .08	5	"
October, ...	15 2 46 p.	0 38 18	M.A.	14 3 12 p.	32 16 .32	"	16 .32	1	M.A.
				"	32 13 .75	"	13 .75	2	"
November,	15 2 45 p.	0 39 1	F.G.F.	16 3 15 p.	32 18 .28	"	18 .28	1	F.G.F.
				"	32 19 .32	"	19 .32	2	"
December,	13 2 25 p.	0 36 39	M.A.	14 2 57 p.	32 14 .79	"	14 .79	1	M.A.
				"	32 16 .07	"	16 .07	2	"

TABLE XIV.

Observations of Horizontal Magnetic Force.

Date. 1889.	H.K.M.T.	Time of one Vibration.	Temperature Cent.	Log m X.	Value of m.	H.K.M.T.	Distance in Centimeters.	Temperature Cent.	Deflection.	Log $\frac{m}{X}$ Mean.	Value of X.	Observer.
		s										
January 14,...	2h. 58m. p.	3.5406	20°.8	2.35260	623.01	3h. 42m. p.	30	19°.5	7° 20′ 22″	3.23640	0.36149	F.G.F.
							40		3 4 52			
February 13,...	3 4 p.	3.5403	21 .4	2.35260	622.80	3 34 p.	30	20 .5	7 19 51	3.23611	0.36161	"
							40		3 4 41			
March 14,...	3 8 p.	3.5393	17 .0	2.35232	622.34	4 15 p.	30	15 .9	7 20 25	3.23574	0.36165	M.A.
							40		3 4 49			
April 15,...	3 15 p.	3.5452	25 .5	2.35251	622.20	3 39 p.	30	23 .8	7 18 39	3.23534	0.36190	F.G.F.
							40		3 4 1			
May 15,...	2 36 p.	3.5505	32 .2	2.35232	621.94	3 52 p.	30	29 .15	7 17 20	3.23518	0.36188	M.A.
							40		3 3 34			
June 15,...	2 50 p.	3.5532	29 .2	2.35105	620.40	3 23 p.	30	28. 8	7 16 31	3.23428	0.36173	F.G.F.
							40		3 3 12.5			
July 15,...	3 20 p.	3.5559	32 .5	2.35089	619.80	3 44 p.	30	30 .4	7 15 42.5	3.23360	0.36195	"
							40		3 2 42.5			
August 16,...	2 52 p.	3.5571	30 .45	2.35029	619.13	3 23 p.	30	28 .8	7 15 37	3.23327	0.36183	"
							40		3 2 44			
September 14,...	3 18 p.	3.5567	28 .45	2.34992	618.46	3 42 p.	30	27 .1	7 15 34	3.23270	0.36192	"
							40		3 2 33			
October 17,...	2 41 p.	3.5606	29 .35	2.34918	616.98	3 32 p.	30	28 .45	7 13 57.5	3.23135	0.36218	M.A.
							40		3 1 52.5			
November 15,...	3 18 p.	3.5572	22 .8	2.34891	616.36	3 47 p.	30	21 .5	7 14 40	3.23075	0.36231	F.G.F.
							40		3 2 10			
December 13,...	2 49 p.	3.5558	19 .3	2.34883	616.20	3 37 p.	30	17 .5	7 15 12.5	3.23061	0.36233	M.A.
							40		3 2 25			

TABLE XV.

Results of Magnetic Observations in 1889.

Month. 1889.	Declination, East.	Dip, North.	Magnetic Force. British Units. X.	British Units. Y.	British Units. Total Force.	Metric Units. X.	Metric Units. Y.	Metric Units. Total Force.	C. G. S. Units. X.	C. G. S. Units. Y.	C. G. S. Units. Total Force.
January, ...	0° 38′ 42″	32° 18′ 47″	7.8400	4.9589	9.2766	3.6149	2.2864	4.2773	0.36149	0.22864	0.42773
February, ...	40 21	17 9	7.8426	4.9552	9.2768	3.6161	2.2847	4.2774	0.36161	0.22847	0.42774
March, ...	39 15	15 54	7.8436	4.9518	9.2758	3.6165	2.2832	4.2769	0.36165	0.22832	0.42769
April, ...	39 16	15 32	7.8490	4.9539	9.2816	3.6190	2.2842	4.2796	0.36190	0.22842	0.42796
May, ...	37 56	16 16	7.8486	4.9561	9.2824	3.6188	2.2852	4.2800	0.36188	0.22852	0.42800
June, ...	38 17	18 48	7.8453	4.9621	9.2828	3.6173	2.2879	4.2802	0.36173	0.22879	0.42802
July, ...	39 16	16 37	7.8500	4.9581	9.2847	3.6195	2.2861	4.2810	0.36195	0.22861	0.42810
August, ...	37 41	17 38	7.8475	4.9599	9.2834	3.6183	2.2869	4.2805	0.36183	0.22869	0.42805
September, ...	37 21	16 38	7.8493	4.9578	9.2838	3.6192	2.2859	4.2806	0.36192	0.22859	0.42806
October, ...	38 18	15 2	7.8548	4.9562	9.2877	3.6218	2.2852	4.2824	0.36218	0.22852	0.42824
November, ...	39 1	18 48	7.8578	4.9700	9.2976	3.6231	2.2916	4.2870	0.36231	0.22916	0.42870
December, ...	36 39	15 26	7.8583	4.9597	9.2926	3.6233	2.2868	4.2847	0.36233	0.22868	0.42847
Mean, ...	0° 38′ 30″	32° 16′ 53″	7.8489	4.9583	9.2838	3.6199	2.2862	4.2806	0.36190	0.22862	0.42806

HONGKONG OBSERVATORY.

Weather Report for January, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Haze: on the 4th, 5th, 10th, 11th and 16th.

Unusual visibility: on the 9th.

Dew: on the 16th and 30th.

The Total Distance traversed as well as the Duration and average Velocity of Winds from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	1480	187	7.9
NE	1273	90	14.1
E	6561	347	18.9
SE	105	13	8.1
S	3	1	3.0
SW	39	6	6.5
W	429	53	8.1
NW	191	29	6.6
Calm	11	18	0.6

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JANUARY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
Jan. 1,...	29.873	29.871	29.872	29.874	29.872	29.892	29.922	29.936	29.959	29.971	29.960	29.936	29.915	29.905	29.905	29.910	29.919	29.930	29.941	29.960	29.960	29.962	29.961	29.959	29.924
„ 2,...	.959	.945	.945	.945	.949	.977	.990	30.034	30.040	30.047	30.037	30.015	.987	.967	.966	.974	.989	.996	30.009	30.021	30.029	30.039	30.043	30.044	.998
„ 3,...	30.053	30.054	30.046	30.055	30.060	30.083	30.107	.139	.175	.180	.132	.101	30.088	30.060	30.057	30.053	30.049	30.081	.111	.138	.149	.151	.148	.140	30.100
„ 4,...	.128	.121	.117	.114	.116	.135	.147	.168	.186	.182	.168	.144	.115	.097	.093	.097	.115	.135	.150	.166	.177	.175	.173	.188	.142
„ 5,...	.196	.202	.193	.191	.198	.210	.224	.242	.249	.241	.214	.178	.141	.114	.102	.089	.089	.107	.118	.117	.128	.134	.129	.134	.164
„ 6,...	.141	.141	.129	.129	.151	.159	.164	.185	.194	.176	.162	.140	.120	.097	.078	.095	.101	.112	.130	.142	.145	.157	.167	.176	.141
„ 7,...	.180	.179	.165	.154	.152	.150	.177	.208	.223	.224	.212	.184	.149	.119	.108	.115	.131	.142	.154	.169	.182	.180	.187	.188	.168
„ 8,...	.186	.180	.174	.164	.166	.171	.203	.223	.250	.245	.211	.171	.121	.088	.074	.070	.085	.115	.140	.161	.173	.168	.157	.157	.161
„ 9,...	.149	.136	.126	.133	.140	.163	.190	.213	.227	.223	.190	.155	.115	.088	.072	.076	.090	.100	.118	.142	.147	.144	.141	.136	.142
„ 10,...	.135	.127	.114	.103	.098	.103	.117	.132	.134	.132	.104	.064	.025	29.988	29.981	29.984	29.994	29.996	.004	.012	.014	.007	29.991	29.987	.056
„ 11,...	29.979	29.968	29.958	29.950	29.945	29.952	29.970	29.982	29.990	29.987	29.957	29.917	29.876	.850	.836	.830	.836	.840	29.860	29.873	29.881	29.880	.872	.861	29.910
„ 12,...	.860	.856	.851	.847	.842	.862	.877	.894	.916	.918	.899	.869	.827	.807	.794	.801	.807	.814	.826	.851	.867	.873	.887	.895	.856
„ 13,...	.884	.875	.875	.875	.877	.894	.916	.941	.965	.971	.965	.933	.894	.882	.873	.886	.894	.896	.916	.930	.934	.940	.943	.944	.913
„ 14,...	.934	.931	.919	.918	.930	.952	.955	.981	.999	30.007	.980	.952	.927	.910	.903	.905	.909	.910	.925	.945	.955	.963	.967	.960	.943
„ 15,...	.946	.938	.931	.921	.927	.940	.959	.982	30.005	.008	.983	.946	.917	.892	.886	.890	.909	.921	.930	.949	.955	.956	.960	.968	.942
„ 16,..	.963	.956	.954	.955	.958	.974	.993	30.022	.038	.043	30.022	.993	.971	.955	.954	.974	.986	.998	30.015	30.022	30.037	30.047	30.059	30.058	.998
„ 17,...	30.067	30.071	30.075	30.076	30.081	30.100	30.116	.142	.149	.162	.131	30.095	30.077	30.056	30.053	30.074	30.081	30.101	.108	.127	.120	.121	.117	.126	30.101
„ 18,...	.120	.127	.117	.107	.125	.131	.142	.165	.181	.190	.164	.139	.126	.110	.102	.108	.114	.136	.145	.156	.158	.164	.160	.172	.140
„ 19,...	.167	.179	.173	.152	.152	.157	.166	.202	.205	.206	.179	.146	.122	.102	.099	.104	.113	.122	.122	.129	.123	.127	.123	.113	.145
„ 20,...	.120	.121	.116	.095	.091	.122	.137	.136	.154	.157	.147	.112	.088	.069	.068	.078	.102	.107	.119	.122	.117	.125	.125	.125	.115
„ 21,...	.129	.127	.113	.124	.125	.129	.160	.196	.200	.201	.173	.151	.119	.105	.097	.109	.128	.147	.160	.173	.179	.192	.189	.181	.150
„ 22,...	.178	.175	.174	.173	.187	.202	.216	.231	.231	.227	.200	.172	.130	.106	.106	.124	.141	.161	.174	.187	.195	.186	.185	.179	.177
„ 23,...	.166	.153	.137	.137	.137	.162	.182	.204	.218	.226	.204	.171	.130	.110	.098	.112	.123	.131	.146	.168	.169	.164	.161	.154	.157
„ 24,...	.149	.141	.133	.101	.122	.129	.143	.188	.186	.177	.183	.135	.099	.079	.072	.071	.071	.074	.087	.105	.108	.098	.097	.096	.118
„ 25,...	.092	.076	.071	.062	.058	.072	.090	.117	.140	.144	.136	.110	.079	.054	.047	.036	.036	.048	.060	.088	.084	.097	.096	.092	.083
„ 26,...	.077	.052	.047	.035	.043	.059	.072	.094	.108	.115	.114	.098	.056	.038	.037	.040	.043	.064	.089	.107	.115	.122	.125	.122	.078
„ 27,...	.115	.104	.091	.096	.097	.107	.130	.159	.174	.182	.180	.150	.109	.087	.075	.087	.093	.106	.126	.141	.154	.149	.147	.154	.126
„ 28,...	.148	.135	.122	.121	.123	.126	.132	.162	.177	.178	.170	.148	.120	.091	.069	.062	.062	.076	.092	.110	.121	.124	.127	.115	.121
„ 29,...	.106	.096	.093	.088	.094	.110	.135	.146	.148	.150	.116	.104	.073	.043	.029	.019	.034	.043	.054	.065	.085	.092	.081	.077	.087
„ 30,...	.070	.052	.032	.028	.024	.035	.049	.068	.085	.091	.084	.059	.025	.002	29.984	29.984	29.987	29.986	29.995	.004	.014	.027	* .028	.024	.031
„ 31,...	.012	.003	.002	29.998	.003	* .017	.041	.061	.048	.061	.064	.041	.001	29.980	.972	.973	.967	.973	.983	29.997	.002	.005	.012	.009	.009
Hourly Means, ...	30.074	30.067	30.060	30.056	30.059	30.073	30.091	30.115	30.128	30.130	30.111	30.082	30.050	30.027	30.019	30.024	30.032	30.044	30.058	30.073	30.080	30.083	30.083	30.082	30.071

* Interpolated

TABLE II.

TEMPERATURE FOR THE MONTH OF JANUARY 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 a.	11 p.	Midt.	Means.	Max.	Min.
Jan. 1,.....	66.0	65.1	65.0	65.0	64.4	64.5	64.7	65.0	66.6	67.6	67.0	66.9	66.9	67.7	67.8	66.8	65.9	65.9	65.9	65.9	65.8	66.4	65.9	65.7	66.0	67.8	64.3
„ 2,.....	65.2	65.0	64.7	64.4	64.2	64.5	64.7	63.7	64.5	63.3	63.8	63.4	63.8	64.5	65.0	65.0	65.6	65.1	65.2	65.5	65.7	64.6	63.1	60.7	64.4	66.2	60.7
„ 3,.....	58.5	59.5	59.4	57.5	57.4	57.2	56.6	56.7	56.8	54.5	56.9	59.0	58.4	61.1	60.8	60.4	59.3	58.7	58.6	57.6	56.7	55.7	55.0	54.7	57.8	62.3	54.5
„ 4,.....	54.0	53.5	53.6	54.0	53.8	53.8	53.7	54.8	56.3	57.8	58.7	59.1	59.7	59.9	60.7	58.9	56.9	55.6	56.0	53.9	52.8	52.6	52.0	51.1	55.5	60.8	51.1
„ 5,.....	50.5	48.8	49.0	50.2	50.0	50.7	51.6	53.9	53.8	56.7	58.4	58.4	58.6	59.0	58.8	58.7	58.0	57.9	60.0	60.7	60.8	60.9	60.8	60.6	56.1	60.9	48.6
„ 6,.....	60.3	59.4	58.6	57.7	58.7	57.6	56.8	56.8	57.7	58.1	58.6	58.7	58.1	58.7	59.8	59.8	58.8	59.3	59.6	59.2	58.5	58.3	58.3	57.9	58.6	60.6	56.6
„ 7,.....	59.5	58.0	58.2	58.4	58.2	59.4	57.2	57.8	59.8	60.7	60.5	59.6	60.6	60.9	60.7	58.9	57.7	56.8	56.0	56.0	55.9	54.9	53.9	53.4	58.0	62.1	53.4
„ 8,.....	53.1	52.7	53.2	53.0	51.7	51.6	51.8	52.5	53.7	55.2	56.3	56.9	59.0	59.9	61.2	59.8	58.8	56.0	55.0	53.8	54.5	53.8	53.6	53.8	55.0	61.2	51.1
„ 9,.....	55.6	55.4	55.7	55.1	55.6	55.1	52.7	55.5	56.2	58.1	60.0	60.7	61.2	61.8	61.8	62.1	60.7	60.0	59.8	59.7	58.6	59.1	58.7	58.4	58.2	62.8	52.5
„ 10,.....	57.8	57.2	57.3	57.3	57.2	57.2	57.9	58.9	60.1	61.3	61.6	62.6	61.6	61.7	62.7	62.0	61.8	60.9	60.9	60.8	60.8	60.8	60.6	60.6	60.1	63.8	57.0
„ 11,.....	60.8	60.7	60.3	60.3	60.4	60.4	60.2	60.6	61.8	62.6	63.7	63.0	66.8	66.3	66.0	66.1	64.4	63.8	63.9	64.1	64.7	64.8	65.0	64.7	63.1	66.8	60.0
„ 12,.....	65.2	65.6	65.5	66.0	65.2	65.1	64.7	64.7	64.9	65.7	65.9	65.8	65.7	64.8	65.4	64.3	63.9	63.9	63.7	63.2	63.8	63.4	63.4	63.2	64.7	66.1	63.1
„ 13,.....	63.2	63.5	63.5	63.6	63.4	63.8	63.7	64.1	64.7	64.6	64.1	63.7	65.0	65.7	64.8	63.9	63.9	63.8	64.2	64.5	64.8	65.0	65.0	64.6	64.2	65.7	63.2
„ 14,.....	64.5	64.7	64.9	64.8	64.9	63.3	62.8	63.5	64.6	64.4	63.9	64.3	64.6	64.6	63.9	63.3	63.6	63.7	63.8	63.8	64.4	64.6	65.0	64.5	64.2	65.1	62.8
„ 15,.....	64.1	63.6	63.1	63.6	62.8	63.0	63.3	64.4	65.0	65.5	65.8	67.1	67.0	67.2	66.9	65.6	65.3	63.9	63.9	65.7	65.7	65.9	65.1	65.2	64.9	67.2	62.7
„ 16,.....	66.0	65.0	65.4	65.0	65.5	64.8	63.3	65.0	66.2	67.8	69.6	69.2	68.8	68.3	67.8	67.5	66.0	66.5	65.7	63.9	65.0	64.9	63.0	63.4	66.0	69.6	62.8
„ 17,.....	62.1	61.0	60.7	58.9	57.7	56.0	55.6	55.8	58.5	59.5	61.4	62.6	63.8	64.0	63.8	63.0	61.0	60.6	60.8	60.9	61.0	59.9	60.1	58.4	60.3	64.6	55.1
„ 18,.....	57.9	57.4	57.0	55.1	53.8	53.5	52.8	53.7	54.7	54.6	55.7	55.9	56.5	56.7	56.0	55.0	55.7	53.8	53.3	52.3	52.8	52.0	53.1	51.7	54.6	58.8	51.7
„ 19,.....	51.7	50.5	49.6	50.1	49.6	48.6	49.9	49.2	50.5	52.0	53.0	54.8	54.9	55.2	53.3	51.6	51.8	51.5	50.7	52.4	51.3	52.5	52.8	53.1	51.7	55.6	48.3
„ 20,.....	52.2	51.2	49.9	50.6	52.0	50.4	53.6	53.8	54.0	54.1	53.9	55.5	55.1	54.2	53.5	52.6	52.1	51.8	51.8	50.9	50.9	50.9	50.5	50.8	52.3	56.5	49.3
„ 21,.....	50.1	49.1	49.4	48.1	47.8	47.7	46.9	46.8	48.0	50.5	52.3	53.8	54.8	55.6	56.8	56.6	55.6	54.7	54.2	53.8	53.6	52.9	52.2	51.0	51.8	57.4	46.6
„ 22,.....	50.2	49.7	49.4	48.7	48.0	47.3	47.6	48.5	50.9	52.0	52.5	51.5	52.6	52.8	52.6	52.8	52.8	51.6	51.0	51.4	50.9	49.8	49.1	49.0	50.5	53.2	47.2
„ 23,.....	48.9	48.5	48.1	48.0	48.5	48.6	48.1	49.9	51.9	55.5	55.8	56.0	56.8	57.8	57.5	55.8	55.6	55.0	54.4	53.8	54.7	54.4	54.6	55.2	53.1	58.0	48.0
„ 24,.....	55.1	54.8	54.1	53.7	53.6	53.3	53.0	54.7	55.9	57.3	57.9	57.8	58.1	59.1	58.7	57.2	57.0	56.8	57.6	57.8	57.8	57.7	57.6	57.5	56.4	59.5	52.7
„ 25,.....	57.5	57.5	57.5	57.2	57.0	56.9	56.8	56.9	57.3	57.8	58.0	58.3	59.3	59.3	59.7	59.5	59.1	59.5	59.4	59.8	59.8	60.0	60.1	60.2	58.5	60.2	56.7
„ 26,.....	59.5	59.1	59.1	58.8	58.8	58.7	58.9	59.3	60.7	61.1	60.9	60.7	61.3	60.1	59.8	58.9	58.9	57.7	57.3	57.0	56.9	56.8	56.0	55.6	58.8	61.4	55.6
„ 27,.....	56.2	56.3	56.3	55.8	56.0	55.1	53.9	55.2	55.9	57.1	57.4	58.0	58.5	58.0	58.8	58.2	57.8	57.8	56.9	56.8	57.0	56.8	56.4	56.2	56.8	59.2	53.7
„ 28,.....	56.1	56.5	56.4	56.3	56.1	56.4	56.9	57.2	58.0	58.8	59.0	60.5	60.0	59.9	60.2	58.7	58.9	58.7	58.0	57.8	58.4	59.3	59.2	59.0	58.2	60.5	56.1
„ 29,.....	58.8	58.8	58.6	58.3	58.5	58.4	58.0	58.0	58.4	58.8	59.1	58.7	58.9	58.7	58.5	57.9	57.8	57.8	57.3	57.6	57.9	57.8	57.8	57.4	58.2	59.1	57.1
„ 30,.....	57.3	57.4	57.6	57.6	57.8	57.9	58.6	59.1	59.8	60.9	61.0	61.0	61.6	60.9	61.3	61.5	59.9	58.8	58.1	57.7	57.9	58.1	59.0	58.5	59.1	61.7	57.2
„ 31,.....	58.2	58.3	58.0	58.2	58.4	57.8	57.6	57.7	58.1	58.5	57.9	59.0	59.8	60.2	61.1	60.0	59.6	59.0	58.9	58.4	58.4	58.5	58.9	58.8	58.7	61.3	57.6
Hourly Means,.....	57.9	57.5	57.4	57.1	57.0	56.7	56.6	57.2	58.2	59.1	59.7	60.1	60.6	60.8	60.8	60.1	59.5	58.9	58.8	58.6	58.6	58.5	58.3	57.9	58.6	61.8	55.4

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF JANUARY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
Jan. 1,...	64.4	64.1	63.8	63.5	62.2	62.1	61.8	62.0	63.2	63.3	63.2	63.4	63.2	63.4	63.6	63.3	63.1	63.1	63.4	63.4	63.3	63.8	63.5	62.8	63.2	136.0
„ 2,...	61.9	61.9	61.8	61.4	61.4	61.9	61.9	62.0	62.1	61.9	62.2	61.8	61.8	61.9	62.3	62.6	62.9	63.0	63.1	63.1	63.1	62.0	60.6	58.9	62.4	105.2
„ 3,...	56.8	55.2	54.1	52.9	53.2	52.8	51.7	51.8	51.9	51.0	53.1	54.0	53.4	54.6	54.9	53.6	53.1	52.4	52.2	52.2	51.0	50.0	49.4	49.2	52.7	123.6
„ 4,...	48.8	49.1	49.3	49.3	49.8	49.5	48.9	50.0	50.9	52.0	52.1	52.6	53.3	53.6	53.9	52.3	51.0	50.1	50.0	47.9	46.5	45.2	45.6	46.1	49.9	121.4
„ 5,...	46.2	45.3	45.1	45.3	45.0	46.4	47.1	48.2	48.1	49.9	51.1	51.1	51.4	51.8	51.9	52.2	52.2	52.6	54.2	54.9	54.9	56.0	55.6	55.7	50.5	119.1
„ 6,...	55.4	55.8	55.2	54.3	54.6	54.2	54.0	53.7	54.2	54.9	54.3	55.2	55.4	54.9	55.9	55.8	55.9	56.2	56.3	56.6	56.6	56.9	56.9	56.9	55.4	93.8
„ 7,...	57.0	56.6	56.5	56.9	56.1	55.7	55.0	55.2	56.9	56.7	55.9	55.0	55.3	55.3	55.0	52.9	51.9	51.0	50.2	50.6	50.5	50.0	49.8	48.4	53.9	100.1
„ 8,...	49.4	48.5	49.5	49.2	47.1	46.6	47.7	48.0	47.7	49.4	50.2	50.9	52.1	53.5	52.9	52.5	51.8	50.2	49.1	48.7	48.7	48.8	48.8	50.0	49.6	132.3
„ 9,...	51.2	51.1	51.8	51.6	51.5	51.2	48.9	50.8	51.8	52.7	53.9	53.3	54.2	54.8	54.7	56.1	53.8	53.2	53.1	53.1	52.9	52.8	53.4	54.3	52.8	122.6
„ 10,...	54.7	54.7	54.0	54.6	53.6	53.6	54.0	54.6	56.1	55.8	56.6	57.0	56.8	56.7	56.9	57.0	57.0	57.7	58.1	58.1	58.2	58.3	58.3	58.2	56.3	118.9
„ 11,...	58.3	58.4	58.5	58.5	58.6	58.7	58.9	59.0	59.0	59.9	60.0	62.2	61.4	61.4	61.8	62.1	61.5	61.1	61.2	61.8	62.1	62.6	62.1	62.4	60.5	117.9
„ 12,...	62.6	63.1	64.0	63.8	64.0	64.0	63.9	63.9	64.2	64.8	64.9	64.9	64.7	64.1	64.3	63.4	63.0	62.9	62.9	62.7	62.7	62.6	62.6	62.6	63.6	119.2
„ 13,...	62.6	62.5	62.6	62.9	62.7	62.9	62.7	62.7	62.9	62.7	62.6	62.8	63.2	62.9	62.8	62.0	62.0	61.9	62.1	62.5	62.9	62.9	63.0	62.9	62.7	127.7
„ 14,...	62.9	62.8	62.9	62.5	62.5	62.1	61.4	61.7	62.2	62.0	61.9	62.3	62.0	62.1	61.1	61.3	61.6	61.6	61.9	62.0	62.6	62.6	62.5	62.1	62.1	119.3
„ 15,...	61.6	61.2	60.9	61.4	60.9	61.2	61.1	61.8	62.1	62.6	62.7	63.6	63.7	63.9	63.7	62.9	62.7	62.6	62.7	63.1	63.7	63.8	63.5	63.8	62.5	139.4
„ 16,...	63.9	63.5	63.5	63.1	63.4	62.9	62.1	63.1	63.9	64.9	65.4	65.1	64.9	64.7	64.2	63.9	62.8	62.8	62.7	61.8	62.1	61.6	60.9	60.0	63.2	129.1
„ 17,...	58.5	56.8	55.8	53.8	52.6	51.3	50.4	50.4	51.8	53.4	54.2	54.1	55.7	55.9	55.9	56.1	55.6	55.2	55.0	56.4	57.0	57.0	57.0	55.2	54.8	119.2
„ 18,...	54.7	53.5	53.2	52.3	51.5	50.6	50.0	50.9	51.2	50.8	51.7	52.6	52.7	52.7	52.2	52.0	51.9	51.7	51.8	51.3	51.0	51.3	50.9	50.4	51.8	83.8
„ 19,...	49.9	48.5	48.1	47.6	47.2	47.0	47.8	46.7	48.8	50.0	50.3	51.5	51.4	51.3	50.2	49.9	50.4	50.1	50.1	50.8	50.5	50.9	50.8	50.7	49.6	96.8
„ 20,...	49.9	49.8	48.8	48.3	48.0	47.8	50.6	50.7	50.9	51.1	51.1	52.1	52.2	51.4	50.7	50.1	49.9	49.2	49.4	50.0	49.4	49.5	48.9	48.5	49.9	75.2
„ 21,...	48.2	47.7	48.0	46.4	45.1	44.1	44.0	44.4	44.7	46.0	47.1	47.9	48.9	49.0	49.9	50.2	49.8	48.9	48.6	47.8	47.9	47.9	46.1	45.2	47.2	102.3
„ 22,...	45.2	45.5	45.1	44.4	44.0	44.4	44.1	44.9	46.8	48.1	48.2	47.3	47.7	47.7	48.0	47.7	47.9	47.5	46.6	47.0	46.7	46.7	46.0	45.9	46.4	114.3
„ 23,...	46.1	45.9	45.3	44.7	45.1	45.2	44.6	45.7	47.0	49.8	50.1	50.3	50.5	50.9	50.9	50.8	50.4	50.3	48.9	49.2	49.7	49.7	50.1	50.3	48.4	122.6
„ 24,...	50.5	50.4	49.8	49.4	49.2	49.0	49.0	50.0	51.1	52.0	52.8	52.9	53.2	54.2	53.6	52.8	53.1	53.2	53.8	53.9	54.2	53.8	54.0	54.2	52.1	121.3
„ 25,...	54.3	54.3	54.1	54.3	54.3	54.1	54.2	54.5	54.7	54.9	55.3	55.7	56.4	56.0	56.6	56.2	56.2	56.8	56.9	57.3	57.7	57.9	58.0	58.1	55.8	108.2
„ 26,...	57.7	57.2	57.0	57.1	56.8	56.7	56.9	57.0	57.9	58.1	58.0	57.9	58.3	57.9	57.7	57.2	57.3	56.7	56.3	56.3	55.9	56.3	55.2	55.0	57.0	121.0
„ 27,...	55.7	55.4	55.1	54.1	53.6	52.9	51.8	53.1	53.1	54.1	53.8	54.6	54.3	53.7	53.9	53.6	53.0	53.2	52.4	52.0	52.9	53.6	52.1	52.3	53.5	94.1
„ 28,...	52.3	53.1	52.5	52.4	52.0	52.5	53.1	53.3	54.0	54.2	55.0	55.9	55.9	56.0	56.5	56.0	55.1	55.1	54.9	55.5	56.1	56.1	56.2	56.1	54.6	123.3
„ 29,...	56.2	56.0	55.8	55.8	55.5	55.7	55.5	55.3	55.8	55.8	56.1	56.0	56.2	55 9	55.8	55.5	55.0	54.8	54.9	54.7	54.9	55.2	55.4	55.5	55.6	78.3
„ 30,...	55.4	55.6	55.1	55.1	55.3	55.3	55.8	56.8	56.7	57.1	57.2	57.3	57.3	57.4	57.1	57.5	57.0	56.4	56.0	56.0	55.7	56.0	56.7	56.7	56.4	114.8
„ 31,...	56.6	55.9	55.8	56.0	56.1	56.0	55.9	56.0	56.4	56.5	57.0	57.5	57.1	57.2	57.7	57.1	57.1	57.0	56.8	56.8	56.8	56.5	56.8	56.9	56.6	87.3
Hourly Mean ...	55.1	54.8	54.6	54.3	54.0	53.8	53.7	54.1	54.8	55.4	55.7	56.1	56.3	56.3	56.3	56.0	55.7	55.4	55.3	55.4	55.4	55.4	55.2	55.0	55.2	112.5

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JANUARY, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	82	0.405	Jan. 1,.....	85	0.544
2 „	83	.402	„ 2,.....	89	.539
3 „	82	.398	„ 3,.....	69	.332
4 „	82	.393	„ 4,.....	65	.286
5 „	81	.386	„ 5,.....	65	.295
6 „	82	.384	„ 6,.....	80	.398
7 „	82	.383	„ 7,.....	75	.363
8 „	80	.386	„ 8,.....	66	.285
9 „	79	.392	„ 9,.....	68	.330
10 „	78	.399	„ 10,.....	77	.405
11 „	76	.399	„ 11,.....	86	.494
Noon.	76	.406	„ 12,.....	94	.575
1 p	75	.405	„ 13,.....	92	.551
2 „	74	.402	„ 14,.....	88	.532
3 „	74	.402	„ 15,.....	87	.535
4 „	76	.403	„ 16,.....	85	.544
5 „	77	.402	„ 17,.....	68	.358
6 „	79	.401	„ 18,.....	82	.350
7 „	79	.400	„ 19,.....	85	.329
8 „	80	.405	„ 20,.....	84	.329
9 „	80	.405	„ 21,.....	68	.265
10 „	81	.406	„ 22,.....	71	.263
11 „	81	.403	„ 23,.....	69	.279
Midt.	82	.402	„ 24,.....	73	.334
			„ 25,.....	84	.411
			„ 26,.....	89	.443
			„ 27,.....	79	.367
			„ 28,.....	78	.380
			„ 29,.....	84	.409
			„ 30,.....	84	.421
			„ 31,.....	87	.432
Mean,.....	79	0.399	Mean.	79	0.399

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
Jan. 1,.....	...	...	0.1	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.1	...	...	7.0
„ 2,.....	...	...	0.1	0.2	...	...	...	0.2	0.1	...	...	...	...	0.6
„ 3,.....	...	...	...	...	0.1	0.5	0.3	0.1	0.2	...	...	0.4	...	1.6
„ 4,.....	...	...	0.2	1.0	1.0	1.0	1.0	0.1	0.1	0.3	0.5	...	...	5.2
„ 5,.....	...	0.1	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.1
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	..	...
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	0.5	...	...	...	0.1	1.0	1.0	1.0	1.0	1.0	0.5	...	6.1
„ 9,.....	...	...	...	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	6.8
„ 10,.....	...	...	0.2	...	...	0.2	...	0.1	...	...	...	...	...	0.5
„ 11,.....	...	...	...	...	...	0.2	0.1	...	...	...	...	...	...	0.3
„ 12,.....	...	...	...	...	0.8	...	...	...	...	...	...	...	...	0.3
„ 13,.....	...	...	...	...	...	...	0.2	1.0	0.8	...	...	...	...	2.0
„ 14,.....	...	...	...	0.9	0.5	...	...	...	0.5	1.0	0.4	0.4	...	3.7
„ 15,.....	...	0.1	1.0	1.0	0.9	1.0	0.9	0.7	1.0	1.0	1.0	0.5	...	9.1
„ 16,.....	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.3	...	...	...	7.3
„ 17,.....	...	...	0.9	0.7	...	...	...	0.2	0.1	...	...	...	...	1.9
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	0.1	...	...	...	...	...	...	0.1
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	0.3	0.3	...	...	...	...	...	...	...	...	0.6
„ 22,.....	...	...	...	...	0.1	0.2	...	...	...	...	...	...	...	0.3
„ 23,.....	...	...	0.1	...	...	0.2	0.9	1.0	1.0	1.0	0.7	0.1	...	5.0
„ 24,.....	...	...	0.2	0.9	0.8	1.0	1.0	1.0	0.8	0.5	0.3	0.1	...	6.6
„ 25,.....	...	...	...	...	...	...	...	...	...	0.4	1.0	0.2	...	1.6
„ 26,.....	...	...	...	0.4	0.2	...	...	...	...	...	...	...	...	0.6
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	...	...	...	...	0.1	...	...	0.1	...	...	...	...	0.2
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	...	...	...	...	...	0.1	0.4	...	...	...	0.5
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	0.9	4.3	8.2	7.8	8.5	9.5	9.4	9.6	8.9	7.0	2.9	...	77.0

TABLE VI.

RAINFALL FOR THE MONTH OF JANUARY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
Jan. 1,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.26
„ 2,	...	...	...	...	...	...	...	...	0.040	0.045	0.025	0.035	...	...	...	...	...	...	...	...	...	...	...	0.105	0.250	7	0.23
„ 3,	...	...	...	...	...	...	...	...	...	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.025	3	...
„ 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	0.005	2	...
„ 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
„ 12,	...	...	...	...	...	...	0.020	...	...	0.030	0.020	0.005	0.005	...	...	...	0.005	...	...	...	...	...	...	...	0.085	11	0.20
„ 13,	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	0.010	8	...
„ 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,	...	...	0.005	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.020	...	0.005	0.010	0.035	0.010	0.105	7	0.15
„ 19,	...	0.005	0.015	0.025	0.010	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.030	...	...	0.005	...	...	0.095	8	...
„ 20,	0.005	...	0.010	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.030	0.030	...	...	...	...	0.080	5	0.20
„ 21,	...	...	...	0.035	...	...	...	0.030	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.075	2	...
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...
„ 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
„ 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...
Sums,	0.005	0.005	0.030	0.070	0.015	...	0.020	0.030	0.050	0.100	0.045	0.045	0.010	...	...	...	0.005	0.015	0.080	0.035	0.005	0.015	0.035	0.115	0.730	63	1.04

The rainfall at Victoria Peak is measured at 10 a. and entered to preceding days.
The daily duration of rain at the Observatory is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JANUARY, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
Jan. 1,	9	19	8	17	8	20	7	19	7	25	7	25	7	23	7	27	7	25	7	26	7	27	7	25	7	21	7	23	7	23	7	22	7	22	7	22	7	24	7	22	7	22	6	22	7	23	7	23	547	22.8	7
" 2,	7	22	7	24	7	24	7	25	7	27	7	26	7	25	7	21	7	22	7	22	6	16	7	20	7	18	7	20	7	15	9	13	11	5	11	2	8	5	9	5	20	2	32	7	31	7	31	10	383	16.0	7
" 3,	32	7	1	15	1	14	30	8	32	7	32	3	31	8	32	3	28	7	30	6	10	8	25	6	27	8	22	7	26	8	1	11	1	7	1	11	1	6	1	8	1	7	1	10	1	14	32	9	198	8.2	32
" 4,	1	11	1	8	1	7	1	6	1	3	31	4	1	4	1	5	1	5	32	7	8	3	2	3	24	10	24	8	23	8	1	10	32	12	1	11	1	13	2	15	1	16	2	23	2	15	2	8	215	9.0	1
" 5,	1	7	32	5	29	3	32	5	1	8	29	2	2	5	5	8	32	10	4	15	4	14	7	13	7	14	9	17	10	21	7	22	7	22	6	13	7	21	7	23	7	23	7	24	7	28	6	27	350	14.6	6
" 6,	7	27	6	26	6	28	7	29	6	26	6	26	7	33	6	32	6	30	7	34	6	34	6	29	6	25	7	22	7	26	6	21	6	20	6	19	6	23	7	24	7	28	7	26	6	22	6	19	629	26.2	6
" 7,	4	15	6	11	7	16	32	8	32	4	1	11	32	5	31	5	30	4	31	6	32	11	25	9	26	14	24	11	26	13	29	11	30	11	31	9	31	4	32	4	32	2	32	4	32	6	1	8	202	8.4	31
" 8,	1	3	32	5	30	3	2	2	26	14	32	5	28	2	28	6	32	8	2	5	32	5	23	9	21	8	24	9	31	12	27	11	32	14	2	12	2	13	32	3	1	7	3	5	4	2	31	2	165	6.9	30
" 9,	6	11	7	17	6	13	7	14	5	17	5	11	29	4	5	9	6	14	7	19	3	12	6	10	8	8	24	9	23	8	24	7	32	6	1	6	6	6	7	5	3	3	7	12	7	11	7	7	239	10.0	5
" 10,	9	5	...	0	...	0	23	2	23	3	23	3	23	3	23	2	8	5	9	5	23	6	23	8	24	11	23	6	24	5	24	3	25	4	...	0	...	1	25	4	25	9	9	10	9	8	9	7	110	4.6	22
" 11,	8	7	8	5	9	6	9	5	9	6	9	7	9	3	10	4	...	0	11	2	11	5	20	5	24	5	26	8	29	5	...	1	7	6	7	15	8	9	8	6	8	4	8	3	6	5	6	7	129	5.4	8
" 12,	6	8	5	9	8	11	6	10	7	13	7	11	8	17	7	19	8	15	7	18	8	19	7	16	7	20	7	22	7	22	8	25	8	25	8	25	8	28	8	29	9	31	8	30	8	31	8	26	480	20.0	8
" 13,	8	30	8	30	8	26	7	24	8	22	7	26	7	27	7	25	7	24	7	30	7	26	7	29	7	29	8	29	8	27	8	26	7	22	7	23	7	19	7	19	6	22	7	20	6	21	7	21	597	24.9	7
" 14,	7	22	7	22	6	22	5	24	5	26	7	23	7	30	6	29	7	32	7	32	7	29	7	31	7	27	7	26	8	26	8	26	8	20	7	23	7	23	7	19	7	17	7	15	6	14	6	18	576	24.0	7
" 15,	6	15	6	12	7	11	10	13	8	13	9	13	9	15	8	18	9	19	8	22	9	17	9	20	9	20	9	20	8	23	8	22	9	23	9	20	9	18	7	14	7	11	7	11	9	11	8	13	394	16.4	8
" 16,	7	13	9	15	9	15	9	15	10	11	10	6	31	4	...	1	25	6	25	9	24	10	25	12	24	13	23	10	24	10	26	12	22	13	23	8	22	6	21	9	...	1	4	5	26	9	1	8	221	9.2	24
" 17,	1	9	32	12	2	9	2	13	1	13	1	15	1	11	32	6	1	10	24	6	32	6	1	9	10	6	9	7	10	11	10	7	9	10	9	12	8	10	8	10	7	12	6	14	6	18	5	20	256	10.7	4
" 18,	5	24	4	22	5	22	5	22	5	19	5	21	5	23	4	21	5	15	1	10	5	5	3	5	2	6	32	9	32	8	1	8	2	7	7	4	32	7	32	9	32	13	32	9	1	9	1	13	311	13.0	3
" 19,	32	12	32	16	32	14	1	16	1	15	32	10	2	11	32	10	1	8	32	10	32	11	31	12	1	11	32	8	31	9	1	7	32	6	...	0	...	1	2	2	2	4	...	1	3	3	2	9	206	8.6	32
" 20,	1	8	32	8	1	8	32	10	2	7	30	7	5	11	5	12	5	15	6	10	32	5	6	7	32	4	1	7	1	9	1	5	1	6	3	2	4	2	3	3	1	7	32	11	1	9	1	16	189	7.9	2
" 21,	1	9	32	10	28	5	32	6	1	5	1	10	32	5	32	6	2	4	7	6	1	10	27	4	25	8	24	9	1	7	1	9	1	10	32	9	32	12	32	11	32	8	32	2	32	8	32	11	184	7.7	32
" 22,	32	12	32	7	31	8	32	9	1	7	1	3	32	6	32	2	31	2	23	9	24	19	23	17	25	15	26	8	32	9	2	8	1	5	32	7	32	8	32	5	32	7	32	7	32	10	32	10	200	8.3	30
" 23,	32	8	32	6	32	4	32	13	32	9	32	6	32	5	32	4	...	1	...	1	6	7	6	8	18	5	24	6	9	13	9	16	10	15	7	16	5	11	32	5	5	5	2	4	5	10	5	14	192	8.0	5
" 24,	4	17	5	17	6	18	6	21	5	14	6	19	6	17	5	17	6	22	6	23	7	22	8	23	6	21	8	23	7	16	8	23	7	25	7	26	7	27	7	26	7	28	7	33	7	31	7	30	539	22.5	7
" 25,	7	31	7	31	7	26	7	29	7	31	7	32	7	28	6	23	6	20	6	26	7	21	7	23	7	24	7	18	10	20	9	29	9	26	8	23	8	24	7	20	8	20	8	22	7	20	7	19	586	24.4	7
" 26,	7	23	7	23	7	19	7	22	6	20	7	21	7	19	6	18	7	19	7	18	8	18	8	15	9	15	9	15	8	14	8	11	8	9	29	8	26	7	27	2	28	8	29	3	29	11	28	10	348	14.5	7
" 27,	...	1	2	4	2	5	32	6	1	8	1	8	1	9	32	3	25	5	28	5	32	7	24	5	23	10	25	8	26	3	27	6	1	6	2	3	1	5	1	3	11	2	...	0	11	4	31	2	118	4.9	31
" 28,	23	5	...	1	...	0	...	1	29	3	32	3	8	11	10	10	8	13	7	15	7	14	8	15	8	13	9	19	9	18	9	18	8	18	8	16	6	15	6	13	7	14	7	23	7	21	7	20	299	12.5	8
" 29,	7	19	7	18	7	21	7	18	6	19	7	19	6	17	7	21	7	23	8	24	9	30	6	22	7	23	7	24	7	25	6	26	6	21	7	18	6	15	7	15	7	15	7	15	6	16	7	13	477	19.9	7
" 30,	8	18	8	18	7	15	8	14	8	10	9	8	9	17	8	18	7	18	8	21	9	23	9	23	10	21	9	14	9	15	9	16	8	15	8	13	9	10	8	12	7	11	6	11	6	10	7	9	360	15.0	8
" 31,	7	15	6	13	7	12	6	8	6	11	6	8	7	10	7	10	8	13	6	13	8	7	9	15	9	17	8	15	9	14	10	16	9	18	9	21	8	25	7	27	7	26	7	26	7	24	7	28	392	16.3	8
Sums,	...	433	...	427	...	405	...	417	...	416	...	392	...	408	...	395	...	414	...	455	...	447	...	448	...	450	...	437	...	443	...	448	...	429	...	397	...	398	...	372	...	385	...	408	...	431	...	437	10092	420.8	...
Hourly Means,	...	14.0	...	13.8	...	13.1	...	13.5	...	13.4	...	12.6	...	13.2	...	12.7	...	13.4	...	14.7	...	14.4	...	14.5	...	14.5	...	14.1	...	14.3	...	14.5	...	13.8	...	12.8	...	12.3	...	12.0	...	12.4	...	13.2	...	13.9	...	14.1	325.5	13.6	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR JANUARY, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	5.42	10.71	0.19	0.16	+5.23	+10.55	E 26° N
2 „	5.58	10.29	0.10	0.00	5.58	10.29	E 28° N
3 „	4.71	10.58	0.16	0.26	4.55	10.32	E 24° N
4 „	5.71	9.94	0.29	0.16	5.42	9.78	E 29° N
5 „	5.94	9.87	0.19	0.58	5.75	9.29	E 32° N
6 „	5.23	9.61	0.29	0.26	4.94	9.35	E 28° N
7 „	4.77	10.45	0.26	0.29	4.51	10.16	E 24° N
8 „	4.90	10.29	0.19	0.23	4.71	10.06	E 25° N
9 „	4.55	10.90	0.13	0.58	4.42	10.32	E 23° N
10 „	4.16	11.97	0.13	0.97	4.03	11.00	E 20° N
11 „	4.10	10.94	0.68	1.13	3.42	9.81	E 19° N
Noon.	3.13	11.03	0.71	2.39	2.42	8.64	E 16° N
1 p.	2.87	10.32	1.00	3.19	1.87	7.13	E 15° N
2 „	2.03	10.13	0.77	3.10	1.26	7.03	E 10° N
3 „	2.97	10.55	1.19	1.94	1.78	8.61	E 12° N
4 „	3.45	11.16	0.90	1.32	2.55	9.84	E 14° N
5 „	4.00	10.48	0.97	0.68	3.03	9.80	E 17° N
6 „	3.81	10.32	0.42	0.48	3.39	9.84	E 19° N
7 „	3.97	10.23	0.26	0.39	3.71	9.84	E 21° N
8 „	3.74	9.61	0.19	0.42	3.55	9.19	E 21° N
9 „	4.32	9.52	0.26	0.52	4.06	9.00	E 24° N
10 „	4.68	10.65	0.06	0.06	4.62	10.59	E 24° N
11 „	5.58	10.71	0.19	0.48	5.39	10.23	E 28° N
Midt.	6.22	10.52	0.03	0.29	+6.19	+10.23	E 31° N
Mean, ...	4.41	10.45	0.40	0.83	+4.02	+9.62	E 23° N

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
Jan. 1	28.15	28.06	28.12	60	61	59	64	57	E	4	E	4	E	4
„ 2	.16	.13	.20	58	58	57	60	55	E	4	E	3	E	4
„ 3	.34	.17	.32	53	54	52	58	50	NE	3	N	3	N	4
„ 4	.36	.30	.35	53	55	52	58	50	NE	4	NE	3	NE	4
„ 5	.40	.31	.30	50	53	50	55	47	ENE	4	ENE	4	ENE	5
„ 6	.35	.28	.33	50	51	50	55	50	E	6	E	6	E	5
„ 7	.41	.29	.33	51	50	46	53	45	N	4	NW	5	NW	5
„ 8	.36	.28	.34	49	52	48	52	44	NE	5	NNW	5	NE	5
„ 9	.38	.30	.34	49	56	52	56	47	E	4	E	4	ENE	3
„ 10	.33	.22	.20	55	56	55	57	52	ENE	3	ENE	2	N	3
„ 11	.21	.10	.11	56	59	58	62	55	NNE	3	N	3	E	4
„ 12	.16	.08	.12	63	64	63	65	58	SE	4	S	4	SE	4
„ 13	.20	.13	.13	59	61	60	64	59	SE	4	SE	4	SE	4
„ 14	.21	.16	.18	58	58	58	60	58	E	5	E	5	E	4
„ 15	.22	.18	.24	60	64	62	65	58	E	3	E	2	E	2
„ 16	.29	.23	.28	63	64	60	66	60	E	3	E	4	NE	4
„ 17	.35	.30	.34	55	59	54	60	53	NE	4	NE	3	NE	4
„ 18	.36	.29	.34	49	51	48	55	48	ENE	5	ENE	4	ENE	4
„ 19	.34	.31	.28	46	48	47	49	46	ENE	5	ENE	3	ENE	4
„ 20	.33	.25	.30	46	47	44	52	44	E	4	NE	4	N	4
„ 21	.34	.28	.34	43	48	45	48	42	N	4	N	3	N	4
„ 22	.37	.28	.32	45	44	44	45	43	N	2	NW	4	NW	4
„ 23	.39	.32	.36	46	50	46	50	44	ENE	3	ENE	3	ENE	4
„ 24	.37	.28	.31	48	50	48	52	46	E	4	E	4	E	4
„ 25	.32	.26	.26	50	53	53	55	48	E	5	E	5	E	4
„ 26	.32	.25	.29	53	54	52	57	52	E	3	E	2	NE	3
„ 27	.36	.29	.28	52	51	50	52	50	NE	2	N	3	N	3
„ 28	.37	.29	.32	51	53	51	53	49	E	4	E	3	E	4
„ 29	.34	.22	.28	51	52	51	53	50	E	5	E	4	E	3
„ 30	.30	.22	.23	52	54	51	56	51	E	4	E	3	E	4
„ 31	.29	.24	.25	53	51	51	55	50	E	4	E	3	E	4
Mean,	28.312	28.235	28.271	52.5	54.2	52.2	56.2	50.4	E 15° N	3.9	E 23° N	3.6	E 27° N	3.9

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
January 1, ...	8	cum.	...	4	sm-cum.	...	10	R-cum.	E	6	sm-cum. / R-cum.	W / E
„ 2, ...	9	cum.	E	4	cum.	E	10	str.	...	10	nim.	E
„ 3, ...	10	cum.	N	10	cum.	N	10	str-cum.	NE	10	nim.	NW
„ 4, ...	10	cum.	...	10	cum.	...	10	str-cum.	NE	1	sm-cum.	N
„ 5, ...	0	...	...	7	cum.	...	8	cum.	E	0	...	...
„ 6, ...	9	cum.	E	10	cum.	E	10	sm-cum. / cum.	W / E	10	sm-cum. / R-cum.	E
„ 7, ...	10	cum-nim.	...	10	cum-nim.	NE	10	cum-nim.	N	10	str-cum.	N
„ 8, ...	9	cum.	NNW	10	cum.	N	10	str-cum.	...	10	str-cum.	N
„ 9, ...	10	cum.	E	9	cum.	ESE	10	R-cum.	E	8	cum.	SE
„ 10, ...	9	str-cum.	SW	10	str-cum.	...	10	str-cum.	W	10	str-cum.	WSW
„ 11, ...	10	str-cum.	SW	10	str-cum.	SW	10	nim.	ENE	10	str-cum.	WSW
„ 12, ...	3	cum.	S	10	cum.	SE	10	cum. / nim.	SW / SE	9	cum. / R-cum.	SW / SE
„ 13, ...	10	nim.	E	10	nim.	E	10	cum-nim.	E	10	cum-nim.	ENE
„ 14, ...	8	cum.	SW	7	cum.	...	10	cum-nim.	E	8	R-cum.	E
„ 15, ...	9	cum.	E	7	cum.	E	8	cum.	SSW	3	c-str. / cum.	WSW / ESE
„ 16, ...	8	cum.	E	4	R-cum.	...	2	c-str.	W	2	cum.	E
„ 17, ...	10	R-cum.	E	8	cum.	...	10	sm-cum.	W	9	R-cum.	E
„ 18, ...	10	R-cum.	NE	10	cum-nim.	NE	10	cum-nim.	ENE	10	str-cum.	NE
„ 19, ...	10	cum-nim.	ENE	10	cum-nim.	NE	10	str-cum.	ENE	10	R-cum.	ENE
„ 20, ...	10	cum.	...	10	nim.	NNE	10	str-cum.	ENE	10	R-cum.	ENE
„ 21, ...	10	cum.	...	10	nim.	...	10	str. / cum-nim.	N	10	str-cum.	W
„ 22, ...	10	cum.	N	10	cum.	N	10	str-cum.	NE	10	sm-cum.	WSW
„ 23, ...	10	cum.	...	10	cum.	...	10	sm-cum.	W	9	sm-cum.	W
„ 24, ...	10	sm-cum.	W	9	sm-cum.	W	8	sm-cum. / cum.	W / E	7	sm-cum. / cum.	W / E
„ 25, ...	8	R-cum.	...	10	cum.	...	10	cum-nim.	E	10	R-cum.	E
„ 26, ...	4	cum.	S	10	cum.	...	10	R-cum.	E	9	sm-cum. / cum. / R-cum.	W / SSE / ESE
„ 27, ...	10	cum-nim.	...	10	cum-nim.	...	10	str-cum.	...	10	str-cum.	WNW
„ 28, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	ESE	10	str-cum.	ESE
„ 29, ...	10	cum-nim.	...	10	cum-nim.	...	10	R-cum.	E	10	R-oum.	E
„ 30, ...	10	cum-nim.	...	10	cum-nim.	...	10	sm-cum.	W	9	str-cum. / cum.	SW / E
„ 31, ...	10	cum-nim.	ESE	10	cum-nim.	ESE	10	cum-nim.	E	10	cum-nim.	E
Mean,...	8.8	...	...	9.0	...	...	9.5	...	...	8.4	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
January 1,...	3	sm-cum. / cum.	W / E	9	cum.	...	10	cum.	...	10	cum.	E	7.5
„ 2,...	10	cum.	E	10	cum.	SE	10	cum.	SE	10	cum.	...	9.1
„ 3,...	10	cum.	E	9	str-cum.	E	10	cum.	E	10	cum.	...	9.9
„ 4,...	7	cum.	E	3	cum.	E	10	cum.	E	0	...	...	6.4
„ 5,...	0	...	...	0	...	...	1	cum.	...	10	cum.	E	3.2
„ 6,...	10	cum-nim.	E	10	R-cum.	E	10	cum.	E	10	nim.	...	9.9
„ 7,...	10	R-cum.	N	10	R-cum.	N	10	R-cum.	N	10	cum.	N	10.0
„ 8,...	1	c-str. / cum.	W / ..	0	...	...	0	...	...	5	cum.	E	5.6
„ 9,...	1	cum.	...	3	cum.	S	10	str-cum.	..	10	str-cum.	S	7.6
„ 10,...	10	nim.	...	10	str.	...	10	nim.	WSW	10	str-cum.	WSW	9.9
„ 11,...	10	str-cum.	WSW	10	str-cum.	SW	10	str-cum.	WSW	10	cum.	WSW	10.0
„ 12,...	10	cum. / R-cum.	SSW / SE	10	cum. / R-cum.	SW / SE	10	cum. / nim.	SW / SE	10	nim.	SE	9.0
„ 13,...	8	cum.	ENE	10	cum-nim.	ENE	10	R-cum.	ENE	9	sm-cum.	WSW	9.6
„ 14,...	10	R-cum.	E	2	R-cum.	E	10	cum-nim	E	10	R-cum.	E	8.1
„ 15,...	6	cum.	SE	1	cum.	...	3	cum.	E	10	cum.	E	5.9
„ 16,...	2	cum.	E	10	R-cum.	SW	10	cum.	SW	10	str-cum.	...	6.0
„ 17,...	9	R-cum.	E	10	sm-cum.	W	10	sm-cum.	W	10	cum.	ENE	9.5
„ 18,...	10	str-cum.	ENE	10	cum-nim.	ENE	10	nim.	...	10	nim.	...	10.0
„ 19,...	10	R-cum.	ENE	10	nim.	NE	10	nim.	...	10	nim.	ENE	10.0
„ 20,...	10	R-cum.	NNE	10	str-cum.	N	10	cum-nim	...	10	cum-nim.	...	10.0
„ 21,...	10	str-cum.	W	10	str-cum.	...	10	str-cum	...	10	str-cum.	...	10.0
„ 22,...	10	str-cum.	W	10	str-cum.	...	10	str.	...	10	str-cum.	NE	10.0
„ 23,...	2	sm-cum. / cum.	W / ..	3	cum.	N	10	str-cum.	N	10	cum.	E	8.0
„ 24,...	3	c-cum. / sm-cum.	W / W	6	sm-cum.	W	1	cum.	...	4	cum.	...	6.0
„ 25,...	10	R-cum.	E	1	cum.	...	7	cum.	SSE	10	cum.	S	8.3
„ 26,...	10	R-cum.	E	10	cum-nim.	E	10	nim.	...	10	nim.	...	9.1
„ 27,...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str.	...	10.0
„ 28,...	10	str-cum.	ESE	10	str-cum.	...	10	str-cum.	...	10	cum-nim.	...	10.0
„ 29,...	10	R-cum.	E	10	R-cum.	E	10	cum-nim.	E	10	cum-nim.	...	10.0
„ 30,...	10	R-cum.	N	10	R-cum.	NNW	1	c-cum.	W	8	cum.	...	8.5
„ 31,...	10	cum-nim.	E	10	R-cum.	ESE	10	R-cum.	ESE	10	cum-nim.	...	10.0
Mean,...	7.8	...	...	7.6	...	...	8.5	...	...	9.2	...	...	8.6

HONGKONG OBSERVATORY.

Weather Report for February, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern nd the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the tmospheric circumstances in Luzon and along the Coast of China, and information concerning the eather in Nagasaki and Wladivostock.

Thick fog: on the 22nd, 23rd and 24th.

Fog: on the 20th, 25th and 26th.

Slight fog: on the 7th, 12th, 16th and 17th.

Dew: on the 6th and 16th.

The Total Distance traversed by, as well as the Duration and average velocity of winds from ifferent quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	1425	118	12.1
NE	530	53	10.0
E	7128	384	18.6
SE	344	34	10.1
S	98	9	10.9
SW	20	3	6,7
W	210	25	8.4
NW	149	23	6.5
Calm	13	23	0,6

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF FEBRUARY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
Feb. 1,...	29.998	29.995	29.988	29.980	29.977	29.997	30.010	30.028	30.037	30.021	30.023	30.011	29.999	29.971	29.954	29.963	29.961	29.963	29.983	30.005	30.008	30.007	30.008	29.996	29.995
„ 2,...	.992	.994	.991	.980	.937	.981	.005	.010	.043	.031	.024	.005	.976	.960	.927	.938	.950	.967	.973	29.999	.014	.024	.010	.997	.989
„ 3,...	30.004	30.008	30.010	30.014	30.023	30.045	.070	.088	.094	.107	.090	.074	30.039	30.013	30.007	30.016	30.033	30.048	30.052	30.065	.077	.082	.079	30.085	30.051
„ 4,...	.074	.068	.053	.066	.078	.091	.112	.143	.156	.157	.138	.125	.099	.095	.087	.090	.096	.109	.138	.146	.148	.154	.139	.135	.112
„ 5,...	.139	.113	.101	.098	.100	.126	.141	.149	.168	.179	.177	.169	.138	.125	.111	.108	.124	.136	.154	.176	.192	.192	.203	.190	.146
„ 6,...	.188	.193	.194	.191	.188	.182	.191	.193	.200	.203	.191	.164	.124	.095	.079	.070	.070	.072	.089	.112	.129	.138	.138	.127	.147
„ 7,...	.123	.110	.102	.091	.083	.089	.097	.109	.138	.149	.118	.093	.057	.036	.030	.027	.025	.028	.030	.034	.042	.053	.054	.039	.073
„ 8,...	.035	.029	.025	.009	.007	.022	.032	.035	.050	.052	.041	.028	29.990	29.966	29.952	29.952	29.957	29.979	.002	.030	.044	.047	.057	.054	.016
„ 9,...	.053	.040	.050	.049	.054	.081	.100	.118	.149	.155	.146	.121	30.101	30.103	30.101	30.105	*30.127	30.155	.177	.209	.237	.282	.286	.286	.137
„ 10,...	.282	.261	.301	.298	.311	.333	.358	.372	.390	.388	.365	.332	.288	.246	.223	.213	.217	.220	.226	.240	.245	.241	.228	.215	.283
„ 11,...	.213	.201	.171	.164	.164	.175	.194	.204	.216	.217	.207	.190	.143	.109	.083	.071	.077	.083	.089	.108	.119	.113	.110	.094	.146
„ 12,...	.078	.056	.049	.037	.035	.040	.052	.075	.089	.095	.073	.044	29.999	29.980	29.970	29.963	29.965	29.967	29.974	29.989	.002	.005	.009	.004	.023
„ 13,...	.003	.001	29.998	29.997	29.996	.012	.025	.039	.056	.066	.035	.015	.990	.980	.962	.961	.971	.971	.996	30.018	.043	.059	.075	.081	.015
„ 14,...	.091	.097	30.092	30.103	30.107	.126	.161	.193	.210	.206	.193	.187	30.161	30.138	30.110	30.106	30.113	30.122	30.139	.152	.175	.185	.197	.190	.148
„ 15,...	.192	.185	.172	.173	.184	.200	.202	.204	.229	.239	.234	.204	.177	.153	.129	.133	.142	.149	.167	.177	.190	.190	.183	.168	.182
„ 16,..	.161	.150	.143	.142	.139	.147	.166	.169	.177	.186	.166	.128	.088	.054	.041	.038	.035	.037	.037	.051	.061	.062	.064	.069	.105
„ 17,...	.075	.072	.069	.068	.070	.088	.105	.112	.121	.118	.101	.091	.059	.037	.031	.034	.040	.042	.057	.080	.095	.102	.100	.096	.078
„ 18,...	.094	.088	.081	.078	.074	.078	.092	.098	.103	.104	.088	.072	.042	.013	29.990	29.978	29.970	29.975	29.988	.006	.021	.034	.040	.042	.048
„ 19,...	.026	.008	29.991	29.988	29.989	.008	.023	.035	.036	.044	.032	.004	29.975	29.947	.936	.925	.919	.917	.929	29.932	29.954	29.967	29.966	29.967	29.980
„ 20,...	29.961	29.957	.947	.936	.937	29.954	29.972	29.985	.009	.012	.009	29.986	.959	.924	.912	.898	.902	.912	.923	.933	.938	.947	.948	.940	.950
„ 21,...	.921	.903	.880	.885	.890	.918	.946	.961	29.970	29.976	29.958	.940	.916	.888	.870	.873	.879	.886	.898	.907	.901	.897	.897	.894	.910
„ 22,...	.874	.850	.833	.823	.809	.828	.854	.878	.913	.917	.914	.896	.895	.852	.822	.828	.853	.850	.882	.907	.917	.920	.924	.910	.873
„ 23,...	.911	.911	.893	.883	.882	.887	.912	.923	.942	.958	.943	.922	.896	.875	.870	.873	.886	.918	.919	.935	.946	.945	.947	.943	.913
„ 24,...	.938	.917	.915	.911	.915	.934	.939	.969	.982	.989	.986	.956	.924	.894	.884	.874	.870	.866	.879	.894	.899	.897	.896	.890	.917
„ 25,...	.877	.862	.855	.846	.849	.868	.881	.889	.899	.908	.888	.865	.835	.807	.785	.776	.783	.787	.790	.810	.821	.834	.837	.829	.841
„ 26,...	.827	.810	.806	.801	.803	.821	.842	.870	.877	.894	.888	.877	.851	.829	.831	.840	.858	.876	.907	.946	.989	30.018	30.042	30.048	.881
„ 27,...	30.051	30.043	30.046	30.047	30.056	30.081	30.122	30.153	30.164	30.182	30.184	30.150	30.124	30.113	30.100	30.128	30.141	30.159	30.166	30.194	30.213	.228	.232	.231	30.138
„ 28,...	.222	.203	.188	.180	.186	.188	.208	.231	.241	.244	.239	.209	.181	.142	.128	.127	.126	.131	.135	.157	.157	.160	.160	.134	.178
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	30.050	30.040	30.034	30.030	30.030	30.046	30.065	30.080	30.095	30.100	30.088	30.066	30.037	30.012	29.997	29.997	30.003	30.012	30.025	30.043	30.056	30.064	30.065	30.059	30.046

* Interpolated

TABLE II.

TEMPERATURE FOR THE MONTH OF FEBRUARY 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 a.	11 p.	Midt.	Means.	Max.	Min.
Feb. 1,.....	58.3	58.0	57.7	57.3	57.2	56.9	56.3	56.5	57.3	57.3	57.5	57.7	57.9	58.1	57.8	57.7	57.8	57.5	57.8	58.4	57.8	57.4	56.9	57.2	57.5	58.4	56.3
„ 2,.....	57.9	57.6	58.0	57.9	58.1	57.9	57.7	57.8	58.3	57.8	57.9	58.3	58.8	59.0	58.8	59.5	60.5	58.8	58.6	57.9	57.8	57.8	57.2	56.9	58.2	60.5	56.9
„ 3,.....	56.8	56.5	56.1	53.8	52.6	51.9	51.9	50.7	51.1	50.8	51.1	50.1	52.1	53.0	52.0	51.8	51.8	51.8	51.8	52.6	52.6	52.7	51.8	51.8	52.5	57.3	50.1
„ 4,.....	51.6	51.2	52.0	51.4	51.6	53.2	51.3	50.6	51.4	52.3	51.6	51.9	51.8	51.8	52.2	51.1	50.9	50.8	50.0	50.5	50.6	49.0	50.1	50.4	51.2	53.8	48.9
„ 5,.....	48.2	46.3	46.5	46.5	46.2	46.1	45.8	45.9	46.9	46.8	47.4	47.5	48.1	48.3	48.0	47.5	48.0	46.9	47.0	45.8	46.0	45.6	45.4	44.9	46.7	50.6	44.6
„ 6,.....	43.5	43.3	43.2	42.3	41.5	41.7	41.6	44.4	46.9	49.6	51.8	54.0	55.6	57.8	56.0	56.8	57.7	53.8	54.6	53.0	51.0	51.6	50.2	51.0	49.7	57.8	40.3
„ 7,.....	50.0	50.1	49.8	49.0	49.3	49.2	49.3	51.0	54.4	55.7	56.0	55.7	56.6	58.6	58.2	58.1	58.6	56.7	56.8	56.0	55.6	55.7	55.5	55.3	54.2	59.2	48.9
„ 8,.....	54.9	54.6	54.6	54.3	54.3	54.4	54.6	55.8	58.1	60.3	61.2	61.3	61.8	61.9	61.2	60.3	59.8	58.6	57.4	56.2	55.0	55.5	56.0	56.9	57.5	62.1	54.1
„ 9,.....	56.0	55.8	56.2	55.5	55.2	54.4	54.9	54.1	52.5	51.8	51.1	51.0	51.0	50.9	50.8	50.8	51.0	50.0	50.6	50.8	47.2	46.9	46.8	46.7	51.7	56.9	46.2
„ 10,.....	47.1	47.0	47.0	47.5	47.4	46.9	47.2	48.5	49.1	50.6	51.1	53.1	53.6	56.0	55.2	55.6	55.1	52.2	50.8	50.6	50.8	49.6	49.1	48.8	50.4	56.0	46.5
„ 11,.....	48.4	48.0	47.4	47.0	46.0	44.4	45.2	48.1	50.7	51.7	51.8	53.1	53.6	54.9	54.9	54.1	53.4	52.0	51.8	51.5	51.1	51.1	50.7	50.7	50.5	54.9	44.4
„ 12,.....	50.4	50.6	50.5	50.6	50.5	50.5	50.9	52.3	53.8	57.2	58.3	58.8	60.8	60.8	61.0	60.0	59.7	58.6	57.8	57.4	57.7	56.8	56.7	57.1	55.8	61.2	50.4
„ 13,.....	58.2	58.0	57.4	56.9	57.9	58.0	58.6	58.9	62.1	63.0	64.1	65.8	67.1	68.3	68.4	67.7	64.6	61.6	61.1	61.0	59.8	59.9	59.0	59.4	61.5	69.1	56.8
„ 14,.....	59.6	58.7	58.2	57.9	57.2	57.3	57.2	58.5	58.7	59.2	59.8	60.0	59.9	59.8	59.7	58.8	58.8	57.6	57.2	57.1	57.6	57.2	57.1	56.6	58.3	60.4	56.6
„ 15,.....	56.3	56.0	55.5	55.3	55.2	55.1	55.1	56.9	58.3	58.8	58.9	59.2	58.8	58.9	58.7	57.8	57.5	56.5	56.1	56.0	55.8	56.0	55.8	55.7	56.8	59.2	55.1
„ 16,.....	55.6	55.8	55.6	55.5	55.8	55.7	55.9	56.1	56.9	58.8	58.8	60.0	61.2	62.6	63.3	62.8	61.0	58.6	57.4	57.1	56.1	56.0	56.0	55.6	57.8	63.4	55.4
„ 17,.....	56.2	56.2	56.0	56.0	56.1	56.3	56.8	59.2	61.5	63.5	64.9	66.1	68.5	67.5	65.0	63.7	62.5	61.0	60.6	60.8	60.6	59.9	59.8	59.4	60.8	68.5	55.6
„ 18,.....	58.7	58.3	58.3	58.4	58.4	58.5	58.4	59.7	60.5	61.9	62.6	61.8	61.5	61.8	61.0	60.8	60.8	59.6	59.6	59.6	59.9	60.0	60.2	60.0	60.0	62.6	58.3
„ 19,.....	59.9	59.7	59.9	59.7	59.6	60.2	60.5	61.3	62.5	63.6	63.8	63.9	63.8	63.8	63.6	63.7	63.4	62.7	62.7	61.8	61.8	61.0	61.1	61.1	61.9	63.9	59.5
„ 20,.....	61.9	62.0	62.0	62.0	61.6	61.8	61.7	63.9	65.8	65.8	65.9	68.3	67.8	67.2	67.6	66.0	64.3	64.0	64.0	64.6	63.4	62.8	62.3	62.9	64.2	68.3	61.1
„ 21,.....	63.2	63.3	63.0	60.3	59.7	59.3	59.3	59.7	59.8	59.8	61.2	61.8	62.2	62.6	62.9	62.6	62.8	62.8	62.7	62.7	62.1	62.0	62.2	62.1	61.7	63.3	59.1
„ 22,.....	61.6	61.6	61.7	61.7	62.1	61.7	61.8	62.1	62.6	64.2	64.8	65.1	64.7	65.8	65.4	64.7	64.0	63.8	64.0	63.9	63.8	63.3	63.3	63.8	63.4	66.6	61.2
„ 23,.....	64.7	64.7	64.6	64.6	65.0	64.8	64.8	64.2	65.8	65.5	65.8	68.7	67.3	65.6	64.8	64.1	64.8	65.7	65.2	65.6	62.8	62.6	61.9	61.6	64.8	68.9	61.6
„ 24,.....	61.7	61.5	61.3	61.7	62.4	62.5	62.5	62.2	61.9	62.5	62.6	62.0	63.2	62.1	62.4	63.0	62.9	63.1	63.6	63.8	64.5	64.5	64.8	64.8	62.8	64.8	61.3
„ 25,.....	65.0	65.1	65.8	66.0	65.7	66.0	65.3	64.4	66.1	68.2	74.8	74.1	74.7	71.0	71.3	69.6	68.6	68.8	70.0	69.4	69.0	73.7	74.6	74.1	69.2	74.9	64.4
„ 26,.....	72.9	72.9	74.0	71.1	70.2	68.4	68.7	69.9	70.0	75.8	75.5	73.6	71.1	69.6	63.9	62.9	63.9	63.7	62.2	60.1	59.1	57.1	57.1	56.2	67.1	76.2	56.1
„ 27,.....	55.6	54.6	54.2	53.9	53.8	52.9	51.8	52.8	53.7	55.2	54.8	56.8	56.7	56.1	55.8	54.6	54.8	54.9	54.6	55.2	55.2	54.7	53.6	52.3	54.5	57.2	51.7
„ 28,.....	51.8	51.5	50.5	50.3	49.6	50.0	50.2	51.9	54.8	55.0	55.6	56.2	56.1	56.8	56.9	55.6	55.7	55.8	55.8	56.6	56.8	57.0	57.2	56.9	54.4	57.2	49.6
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means,.....	56.6	56.4	56.3	55.9	55.7	55.6	55.5	56.3	57.6	58.7	59.3	59.9	60.2	60.4	59.9	59.3	59.1	58.1	57.9	57.7	57.2	57.0	56.9	56.8	57.7	61.9	54.0

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF FEBRUARY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means	Solar Max.
Feb. 1,...	56.5	56.3	56.2	55.8	55.4	55.1	54.4	54.1	54.6	54.7	54.7	54.8	54.9	54.9	54.8	54.4	54.2	54.6	54.8	55.5	55.3	55.5	55.6	55.5	55.1	118.7
„ 2,...	55.4	55.3	55.4	55.2	55.7	55.6	55.9	55.9	56.4	56.5	56.7	57.2	57.2	57.3	57.7	58.2	58.6	58.2	57.8	57.1	57.5	57.1	56.2	55.8	56.7	99.8
„ 3,...	55.7	55.7	55.3	53.1	52.1	51.0	51.4	49.3	49.2	48.3	48.5	47.7	49.0	49.4	48.3	48.1	48.3	48.0	48.7	49.0	49.0	49.9	49.1	49.6	50.2	68.7
„ 4,...	49.7	49.3	49.9	49.1	49.3	50.7	49.1	48.5	49.0	50.0	50.1	49.9	49.9	49.4	49.3	48.4	48.2	47.9	47.2	47.3	47.7	46.9	47.4	46.6	48.8	63.3
„ 5,...	46.2	44.9	44.8	44.5	43.4	44.4	43.9	43.8	44.3	44.1	45.1	45.0	45.4	45.5	44.9	44.5	44.9	45.2	44.8	44.0	43.9	42.7	42.1	41.0	44.3	68.9
„ 6,...	39.1	38.5	37.6	*37.3	*37.0	36.8	36.0	38.2	40.4	41.9	42.9	45.1	46.7	48.0	48.1	48.4	48.4	45.5	46.1	46.6	45.9	45.0	45.9	46.0	43.0	119.0
„ 7,...	45.1	45.7	44.7	45.1	44.6	45.3	46.0	47.3	49.4	50.4	51.1	50.9	51.3	52.1	52.0	52.5	52.8	52.2	52.7	52.4	52.5	51.9	51.9	52.2	49.7	115.1
„ 8,...	52.1	52.0	52.0	51.7	52.1	52.3	52.4	53.1	53.4	54.3	54.0	53.9	53.9	51.9	51.9	51.2	51.0	53.0	53.2	53.9	53.6	53.6	54.1	54.9	52.9	124.7
„ 9,...	54.8	54.8	54.8	54.8	54.8	52.7	50.8	50.4	49.3	49.7	48.5	48.0	47.5	48.2	48.3	48.4	46.6	46.4	46.1	45.3	43.9	43.6	42.6	42.5	48.9	59.9
„ 10,...	42.1	41.6	41.4	40.7	40.2	40.4	40.3	39.0	39.3	39.9	41.0	41.1	41.5	43.9	43.3	42.8	43.1	42.1	40.9	40.4	39.9	39.1	37.4	37.3	40.8	120.2
„ 11,...	36.4	36.9	35.6	34.4	35.7	36.2	36.5	38.9	41.5	42.3	42.1	43.0	43.4	44.7	46.3	46.9	46.9	46.4	46.9	47.0	47.0	47.2	47.3	47.1	42.4	117.4
„ 12,...	47.1	47.1	47.1	47.2	46.9	46.6	47.1	48.0	48.6	50.0	50.7	52.0	54.6	54.7	56.0	55.0	55.5	55.0	54.9	54.9	54.8	54.2	54.1	54.5	51.5	121.1
„ 13,...	54.7	55.1	54.4	54.2	54.6	54.6	55.0	55.7	57.1	57.0	57.2	57.9	58.9	59.9	60.5	59.8	58.0	57.4	56.9	56.8	57.1	56.1	56.8	55.9	56.7	125.4
„ 14,...	54.6	54.8	54.8	54.4	54.3	54.0	54.2	54.9	54.4	55.0	54.9	55.4	55.2	55.2	54.9	54.1	55.2	53.4	53.7	53.7	53.1	53.7	53.5	53.4	54.4	119.2
„ 15,...	53.1	52.5	51.4	50.7	50.4	50.5	50.1	50.3	51.9	51.0	51.9	52.1	51.8	52.0	52.5	52.9	53.1	52.5	52.9	53.1	53.2	53.7	53.7	53.6	52.1	118.9
„ 16,...	53.5	53.3	53.2	52.9	53.3	52.8	53.0	53.7	53.9	55.1	55.0	55.9	56.4	57.4	58.2	57.8	56.6	55.9	55.7	55.6	55.4	54.7	55.1	54.7	55.0	120.8
„ 17,...	54.9	54.9	54.7	54.7	54.7	54.5	55.1	56.5	57.4	58.2	58.8	59.2	58.5	57.6	57.3	56.9	56.8	56.2	56.2	56.8	56.8	56.5	56.2	55.7	56.5	125.7
„ 18,...	55.7	55.4	55.1	55.0	55.2	55.0	54.9	55.6	55.6	56.1	56.3	55.9	55.4	55.8	55.4	55.3	55.9	56.0	55.8	55.9	56.9	57.5	57.8	57.6	55.9	120.5
„ 19,...	57.0	57.0	56.6	56.1	55.9	56.0	55.9	55.9	57.0	57.3	57.4	57.9	58.0	58.5	58.7	59.0	58.8	58.1	58.7	58.5	59.1	58.7	59.2	59.4	57.7	124.6
„ 20,...	60.1	60.7	60.6	60.4	60.7	60.8	60.8	62.1	62.9	63.0	63.1	64.1	63.9	64.0	63.6	63.0	62.4	62.0	62.1	62.2	61.9	61.6	61.5	62.1	62.1	133.9
„ 21,...	62.6	62.6	62.5	59.7	59.1	58.7	58.3	58.1	58.0	58.0	58.7	58.9	59.1	59.1	59.2	59.9	60.2	60.0	60.2	60.8	59.9	60.1	60.1	60.4	59.8	124.1
„ 22,...	60.5	60.7	61.1	61.2	61.9	61.4	61.8	62.1	62.3	63.9	63.9	64.2	63.8	64.6	64.2	64.1	63.7	63.6	63.9	63.8	63.7	63.1	63.3	63.8	62.9	117.0
„ 23,...	64.7	64.7	64.6	64.4	64.9	64.4	64.7	64.2	65.8	65.4	65.6	67.0	66.2	65.4	64.8	64.1	64.8	65.2	65.2	65.5	62.7	62.5	61.6	61.1	64.6	121.1
„ 24,...	61.4	61.1	61.0	61.3	62.0	62.0	61.9	61.7	61.6	61.9	62.6	61.9	62.8	62.0	62.0	62.6	62.6	63.0	63.3	63.7	64.3	64.3	64.6	64.6	62.5	111.4
„ 25,...	65.0	65.1	65.5	65.8	65.3	65.8	65.1	64.4	65.9	67.0	70.8	70.5	70.7	68.8	69.0	68.0	67.6	67.9	68.9	68.7	68.6	71.6	72.4	71.9	67.9	131.8
„ 26,...	71.1	71.0	71.2	69.4	68.9	67.5	68.1	69.0	69.1	72.7	72.1	71.2	70.9	69.6	63.0	62.6	62.9	63.0	60.7	58.5	56.8	54.3	55.0	52.3	65.5	111.7
„ 27,...	50.7	49.7	49.7	49.6	48.3	*47.2	46.1	46.6	46.9	47.6	48.0	49.2	49.0	48.4	47.9	46.8	46.8	46.9	46.3	46.1	46.0	45.8	45.0	43.0	47.4	102.1
„ 28,...	42.4	42.3	41.6	41.7	41.3	40.9	41.2	43.3	44.9	45.3	46.0	47.9	47.8	48.0	48.9	48.0	48.3	50.0	49.9	50.8	51.7	51.7	52.1	52.3	46.6	103.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Mean ...	53.7	53.5	53.3	52.9	52.8	52.6	52.5	52.9	53.6	54.2	54.6	54.9	55.1	55.2	55.0	54.8	54.7	54.5	54.4	54.4	54.2	54.0	54.0	53.7	54.0	111.0

* Interpolated.

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF FEBRUARY, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	82	0.389	Feb. 1,.....	85	0.404
2 „	82	.386	„ 2,.....	91	.442
3 „	81	.381	„ 3,.....	84	.334
4 „	81	.376	„ 4,.....	84	.314
5 „	82	.376	„ 5,.....	82	.261
6 „	81	.371	„ 6,.....	53	.191
7 „	81	.370	„ 7,.....	71	.298
8 „	79	.370	„ 8,.....	72	.341
9 „	76	.373	„ 9,.....	81	.310
10 „	73	.375	„ 10,.....	35	.130
11 „	72	.379	„ 11,.....	44	.166
Noon.	71	.380	„ 12,.....	72	.325
1 p	70	.381	„ 13,.....	73	.398
2 „	70	.381	„ 14,.....	76	.374
3 „	71	.382	„ 15,.....	71	.329
4 „	73	.384	„ 16,.....	82	.397
5 „	74	.384	„ 17,.....	75	.401
6 „	78	.392	„ 18,.....	76	.394
7 „	78	.391	„ 19,.....	76	.422
8 „	79	.394	„ 20,.....	88	.532
9 „	81	.395	„ 21,.....	89	.491
10 „	81	.392	„ 22,.....	97	.568
11 „	82	.393	„ 23,.....	99	.608
Midt.	80	.386	„ 24,.....	98	.563
			„ 25,.....	93	.666
			„ 26,.....	91	.609
			„ 27,.....	54	.235
			„ 28,.....	51	.217
			.....	...	...
			.....	...	...
			.....	...	...
Mean,.....	77	0.383	Mean.	77	0.383

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
Feb. 1,.....	...	...	...	...	0.4	0.5	0.4	0.2	0.9	0.3	...	0.1	...	2.8
„ 2,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6, ...	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.5
„ 7,.....	...	0.6	1.0	0.3	...	0.2	0.2	0.1	0.2	...	...	...	...	2.6
„ 8,.....	...	0.5	1.0	1.0	0.8	...	...	0.1	...	...	...	...	...	3.4
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.2
„ 11,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.4
„ 12,.....	...	0.7	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	9.8
„ 13,.....	...	0.3	0.7	0.3	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	8.7
„ 14,.....	...	0.3	1.0	1.0	1 0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.8
„ 15,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	10.0
„ 16,.....	...	...	...	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	7.1
„ 17,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.2
„ 18,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	10.1
„ 19,.....	...	...	0.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	8.5
„ 20,.....	...	...	...	...	...	0.7	1.0	0.9	0.9	1.0	0.9	0.2	...	5.6
„ 21,.....	...	...	...	...	...	...	0.5	0.8	0.5	0.2	0.1	...	...	2.1
„ 22,.....	...	...	...	...	...	...	...	...	0.2	...	...	...	...	0.2
„ 23,.....	...	...	...	...	...	0.1	0.6	0.1	...	...	...	...	...	0.8
„ 24,.....	...	...	...	...	...	...	0.1	...	...	...	...	...	...	0.1
„ 25,.....	...	...	...	...	0.4	0.4	0.3	0.1	...	0.2	0.2	...	...	1.6
„ 26,.....	...	...	...	...	0.1	0.1	...	...	...	...	...	...	...	0.2
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	0.1	0.3	...	...	...	...	0.2	0.2	...	...	...	...	0.8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	5.8	11.1	10.4	11.8	13.0	14.1	13.5	13.9	12.7	12.2	7.0	...	125.5

TABLE VI.

RAINFALL FOR THE MONTH OF FEBRUARY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
Feb. 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.010	0.020	0.005	0.015	0.005	...	0.065	7	0.20
„ 3,.....	...	...	0.005	0.010	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	4	...
„ 4,.....	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	1	0.41
„ 5,.....	0.115	0.010	0.020	...	0.050	...	...	...	...	0.010	...	...	...	...	...	...	0.020	...	...	0.040	...	...	...	...	0.265	6	...
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.035	...	0.005	0.055	3	0.46
„ 9,.....	0.030	...	...	0.015	0.005	0.005	...	...	0.015	0.015	0.005	...	...	0.005	...	...	...	...	0.005	0.005	0.005	0.015	0.010	...	0.135	11	...
„ 10,.....	0.005	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	5	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
„ 22,.....	...	...	...	0.005	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	0.010	4	...
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.030	0.070	0.020	0.005	0.005	...	0.005	...	0.005	...	...	0.150	6	0.29
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.150	0.010	0.030	0.035	0.055	0.005	0.005	...	0.020	0.025	0.005	0.005	0.010	0.035	0.070	0.020	0.025	0.015	0.015	0.070	0.025	0.070	0.015	0.005	0.720	48	1.36

The rainfall at Victoria Peak is measured at 10 a. and entered to preceding days.
The daily duration of rain at the Observatory is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF FEBRUARY, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
Feb. 1,	7	30	7	28	7	27	7	31	6	32	7	35	7	32	7	33	7	35	7	37	7	35	7	32	7	31	7	31	7	29	7	24	7	28	7	26	7	25	7	24	7	28	7	27	7	28	7	30	718	29.9	7
" 2,	7	29	7	30	7	27	7	30	8	40	7	26	7	28	7	27	7	23	7	25	7	21	8	19	10	16	10	15	10	16	9	10	7	4	6	9	9	16	7	10	4	4	7	5	8	14	7	19	463	19.3	8
" 3,	6	12	6	8	6	4	26	7	24	7	27	6	31	5	1	3	1	4	1	6	5	2	1	6	3	2	1	7	2	3	5	3	1	3	24	5	1	2	...	1	6	4	32	4	32	6	31	6	116	4.8	1
" 4,	30	4	32	4	6	2	31	8	32	4	3	9	32	5	30	6	2	7	3	7	32	6	31	6	32	8	32	6	32	5	32	8	32	8	32	9	31	10	1	6	1	8	32	10	1	7	2	9	162	6.7	32
" 5,	31	9	32	12	32	10	1	10	1	11	4	8	2	5	7	3	4	7	31	6	25	6	28	8	30	5	28	6	30	6	2	7	3	3	27	10	29	9	1	5	32	6	1	9	32	10	31	10	181	7.5	32
" 6,	30	13	30	11	31	15	32	12	32	10	32	12	1	13	30	10	28	5	28	5	4	4	24	7	23	11	20	9	24	14	24	9	23	5	2	5	...	1	...	1	1	2	...	1	1	2	28	2	179	7.5	29
" 7,	...	1	16	4	...	1	...	1	...	1	...	0	...	0	...	1	11	2	4	3	11	11	9	11	8	11	28	6	23	8	24	7	24	4	24	4	8	10	8	14	8	17	9	14	10	15	10	17	163	6.8	9
" 8,	9	14	9	14	9	13	9	12	9	10	9	9	8	8	7	6	8	3	5	3	8	8	9	9	10	9	10	12	9	18	7	19	8	17	8	22	7	17	7	18	9	27	7	18	10	12	10	13	311	13.0	8
" 9,	8	15	7	19	6	10	...	0	5	2	32	8	1	15	2	17	3	13	28	5	1	14	2	19	1	11	31	4	2	12	31	10	32	13	28	10	23	6	32	14	32	30	32	29	32	27	1	34	337	14.0	1
" 10,	1	53	1	45	1	34	32	33	32	29	32	18	2	21	2	29	1	23	1	25	2	22	2	19	2	16	2	12	2	13	2	14	2	13	1	8	1	9	2	9	2	12	3	12	2	16	3	16	501	20.9	1
" 11,	2	14	5	18	2	18	1	21	2	8	9	6	13	5	13	7	8	13	10	22	10	16	7	9	10	9	9	4	9	11	9	15	9	16	8	16	9	14	10	13	9	13	7	11	8	11	8	13	303	12.6	8
" 12,	9	11	9	13	8	16	8	13	9	14	8	12	9	15	9	13	8	11	8	9	9	8	8	10	8	10	8	10	8	7	8	9	7	11	9	10	10	5	10	5	9	13	9	13	9	10	12	4	252	10.5	9
" 13,	11	11	11	6	5	2	7	4	9	10	9	13	9	18	8	18	8	16	9	17	8	19	9	17	9	13	24	7	25	11	26	10	26	7	28	7	26	5	23	2	10	6	8	19	9	20	7	20	278	11.6	8
" 14,	7	21	7	21	8	29	7	20	7	21	7	23	7	17	7	19	7	22	7	23	7	19	8	22	9	22	9	25	9	26	9	28	10	25	8	19	7	17	7	18	7	23	7	22	7	25	7	27	534	22.3	8
" 15,	7	32	7	30	7	30	7	30	7	26	7	22	7	22	7	24	8	22	8	23	9	26	8	22	9	23	10	20	10	23	9	23	9	25	8	20	8	16	7	12	7	11	7	12	7	11	7	11	516	21.5	8
" 16,	7	11	6	11	7	12	7	12	7	15	6	15	7	15	7	14	7	15	8	10	10	10	9	10	8	8	8	4	24	10	26	7	27	5	27	5	...	1	...	0	...	0	...	0	...	0	10	5	195	8.1	7
" 17,	8	18	8	9	13	4	...	1	13	2	13	2	9	3	8	2	9	8	10	13	11	17	11	14	11	14	11	18	10	21	10	23	8	18	8	18	8	23	7	23	7	24	7	22	7	26	7	25	348	14.5	9
" 18,	7	25	7	26	7	26	7	27	7	27	7	26	7	23	8	25	7	26	8	27	7	26	8	26	9	32	8	31	9	32	8	29	7	23	7	21	7	19	7	17	7	16	8	16	7	13	7	17	576	24.0	7
" 19,	8	22	8	22	8	26	8	30	8	30	8	28	7	27	8	30	8	32	7	30	7	33	7	28	7	28	8	27	8	23	8	23	8	21	8	22	8	19	8	22	9	17	9	12	7	12	7	8	572	23.8	8
" 20,	9	9	10	6	10	2	10	2	...	1	...	0	...	0	...	0	8	5	9	10	9	9	9	10	8	14	8	18	8	15	8	18	8	16	6	11	8	11	8	14	8	17	8	23	8	14	8	12	237	9.9	8
" 21,	7	10	8	15	8	21	8	24	7	24	8	25	8	27	7	27	7	25	7	27	7	27	8	28	8	30	7	29	7	26	8	22	9	26	8	26	8	26	9	27	8	26	9	28	9	19	10	17	582	24.2	8
" 22,	9	20	9	19	8	16	7	17	7	18	7	17	7	21	7	19	7	13	7	13	7	10	4	8	6	6	7	13	7	20	7	18	8	17	7	15	8	14	8	19	7	17	7	17	7	13	7	13	373	15.5	7
" 23,	6	11	5	10	6	9	6	8	7	7	7	12	7	15	7	15	7	15	8	16	7	14	7	16	7	20	7	21	7	19	7	19	7	12	6	15	7	15	7	16	8	17	8	19	7	17	8	20	358	14.9	7
" 24,	8	23	8	23	9	20	8	21	9	21	8	24	8	26	8	25	8	26	8	25	8	26	9	25	8	25	8	28	9	24	9	24	9	23	8	21	8	19	8	17	7	17	7	16	7	17	7	14	530	22.1	8
" 25,	8	18	5	9	5	9	5	10	5	11	8	13	8	18	8	19	7	14	11	11	15	11	15	14	16	11	12	5	11	6	10	7	10	7	9	7	12	5	7	8	8	7	15	14	16	15	16	9	258	10.8	10
" 26,	22	4	16	7	18	9	6	4	6	6	8	9	10	7	...	1	11	5	16	9	21	5	27	4	24	4	23	9	24	21	24	21	23	12	30	6	32	12	32	10	1	12	1	16	3	6	1	9	208	8.7	27
" 27,	32	11	32	12	28	7	2	4	31	6	32	10	1	14	32	11	32	8	32	11	32	14	1	14	32	11	31	11	32	9	32	9	1	7	1	9	2	11	2	14	2	16	3	18	2	15	1	20	272	11.3	1
" 28,	32	18	1	20	1	20	1	15	32	14	2	17	1	11	2	6	1	8	6	8	7	14	8	14	8	17	8	19	9	18	9	19	7	14	6	17	7	17	6	17	6	20	7	23	6	21	7	27	394	16.4	5
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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Sums,	...	469	...	452	...	419	...	407	...	407	...	405	...	416	...	410	...	406	...	426	...	433	...	427	...	417	...	407	...	446	...	435	...	383	...	373	...	354	...	356	...	410	...	430	...	402	...	427	9917	413.1	...
Hourly Means,	...	16.7	...	16.1	...	15.0	...	14.5	...	14.5	...	14.5	...	14.9	...	14.6	...	14.5	...	15.2	...	15.5	...	15.3	...	14.9	...	14.5	...	15.9	...	15.5	...	13.7	...	13.3	...	12.6	...	12.7	...	14.6	...	15.4	...	14.4	...	15.3	354.2	14.8	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR FEBRUARY, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	5.68	12.54	0.68	0.46	+5.00	+12.08	E 22° N
2 „	5.75	11.96	0.96	0.14	4.79	11.82	E 22° N
3 „	5.00	11.18	0.68	0.43	4.32	10.75	E 22° N
4 „	5.36	10.68	0.11	0.29	5.25	10.39	E 27° N
5 „	4.61	11.18	0.46	0.29	4.15	10.89	E 21° N
6 „	4.22	11.79	0.25	0.18	3.97	11.61	E 19° N
7 „	4.50	12.21	0.54	0.04	3.96	12.17	E 18° N
8 „	4.07	12.18	0.32	0.21	3.75	11.97	E 17° N
9 „	3.79	12.04	0.21	0.11	3.58	11.93	E 17° N
10 „	3.54	12.54	1.21	0.29	2.33	12.25	E 11° N
11 „	3.57	12.71	1.75	0.36	1.82	12.35	E 8° N
Noon.	3.32	12.39	1.36	0.61	1.96	11.78	E 9° N
1 p.	2.50	12.07	1.89	0.61	0.61	11.46	E 3° N
2 „	2.36	11.61	1.64	1.18	0.72	10.43	E 4° N
3 „	2.36	12.04	1.96	2.36	0.40	9.68	E 2° N
4 „	2.57	12.07	1.32	1.93	1.25	10.14	E 7° N
5 „	2.50	11.00	1.18	1.11	1.32	9.89	E 8° N
6 „	3.18	10.57	0.11	1.25	3.07	9.32	E 18° N
7 „	2.61	10.39	0.46	0.61	2.15	9.78	E 12° N
8 „	3.32	10.82	0.43	0.07	2.89	10.75	E 15° N
9 „	4.43	11.93	0.57	0.00	3.86	11.93	E 18° N
10 „	4.50	12.14	1.00	0.00	3.50	12.14	E 16° N
11 „	4.50	11.04	1.29	0.00	3.21	11.04	E 16° N
Midt.	5.07	11.79	1.18	0.14	+3.89	+11.65	E 18° N
Mean, ...	3.89	11.70	0.90	0.53	+2.99	+11.17	E 15° N

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
									10 a.		4 p.		10 p.	
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
Feb. 1	28.22	28.18	28.19	50	51	51	54	49	E	5	E	4	E	5
„ 2	.24	.17	.21	52	54	52	55	51	E	4	E	4	E	4
„ 3	.26	.21	.23	49	48	46	52	46	N	3	N	4	N	3
„ 4	.31	.27	.24	47	47	45	49	45	E	4	ENE	4	N	3
„ 5	.32	.25	.26	42	42	39	45	38	N	4	N	4	N	5
„ 6	.34	.27	.30	41	46	44	49	39	NE	3	NE	3	NE	4
„ 7	.32	.25	.27	46	49	46	49	44	E	3	E	3	E	3
„ 8	.26	.19	.24	52	52	47	53	46	ENE	3	ENE	4	ENE	4
„ 9	.33	.28	.33	47	45	42	53	41	ENE	4	NNE	4	NNE	6
„ 10	.50	.40	.34	43	47	42	47	39	NE	6	N	4	N	4
„ 11	.37	.27	.23	45	46	47	50	42	E	4	E	3	NE	3
„ 12	.28	.22	.23	49	53	51	56	43	E	3	E	4	E	3
„ 13	.30	.23	.26	56	59	58	62	51	E	3	E	3	E	3
„ 14	.39	.34	.33	53	55	53	58	48	E	5	E	4	E	5
„ 15	.42	.35	.33	52	54	51	54	48	E	5	E	4	E	4
„ 16	.37	.28	.29	52	57	56	59	48	E	3	E	3	E	3
„ 17	.34	.27	.26	59	60	55	61	52	ENE	3	E	4	E	4
„ 18	.31	.21	.22	56	57	53	58	52	E	5	E	5	E	5
„ 19	.27	.20	.21	58	59	58	61	52	E	5	E	4	SE	3
„ 20	.25	.19	.16	59	63	59	64	58	SE	3	SE	2	SE	3
„ 21	.19	.12	.09	56	59	60	64	56	ESE	4	ESE	4	SE	5
„ 22	.16	.12	.17	64	64	63	65	60	S	4	S	4	S	4
„ 23	.26	.15	.17	65	66	64	67	63	S	3	SE	4	SE	4
„ 24	.21	.16	.13	64	64	64	68	62	SE	3	SE	4	SE	4
„ 25	.15	.07	.09	65	67	64	67	64	S	4	SW	4	SW	4
„ 26	.16	.13	.15	68	64	62	68	62	S	4	SW	3	S	4
„ 27	.34	.30	.38	50	53	49	62	49	NE	4	ENE	3	ENE	4
„ 28	.40	.32	.26	49	50	48	53	46	ENE	5	E	4	E	4
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean,	28.295	28.229	28.235	53.2	54.7	52.5	57.3	49.8	E 2° N	3.9	E 3° N	3.7	E 3° N	3.9

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name	Direction	Amount.	Name.	Direction
1889.												
February 1, ...	10	cum-nim.	...	10	cum-nim.	...	10	R-cum.	E	10	cum. / R-cum.	W / E
„ 2, ...	10	cum-nim.	E	0	...	...	10	R-cum.	E	10	nim.	E
„ 3, ...	10	cum-nim.	...	10	nim.	...	10	nim.	...	10	R-cum.	N
„ 4, ...	10	str-cum.	...	10	str-cum.	...	10	R-cum.	E	10	nim.	ENE
„ 5, ...	10	nim.	...	10	cum-nim.	...	10	str-cum.	ENE	10	nim.	N
„ 6, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 7, ...	0	...	...	0	...	...	0	...	...	10	str-cum.	S
„ 8, ...	0	...	...	0	...	...	0	...	...	1	c-cum.	SW
„ 9, ...	10	nim.	E	10	nim.	...	10	cum-nim.	NNE	10	nim.	NNE
„ 10, ...	10	nim.	NW	10	nim.	...	5	sm-cum.	W	0	...	...
„ 11, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 12, ...	0	...	...	0	...	...	0	...	...	3	sm-cum.	S
„ 13, ...	9	cum.	W	6	cum.	WSW	9	sm-cum.	W	3	sm-cum.	WNW
„ 14, ...	10	cum.	...	6	cum.	...	1	cum.	E	2	sm-cum. / cum.	NNW / E
„ 15, ...	10	str-cum.	...	1	cum.	...	0	...	...	0	...	...
„ 16, ...	0	...	...	5	cum.	E	10	R-cum.	E	9	R-cum.	ENE
„ 17, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 18, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 19, ...	10	cum.	E	10	cum.	E	9	sm-cum. / cum.	SW / E	5	sm-cum. / cum.	S / ..
„ 20, ...	10	cum.	SE	9	cum.	...	10	R-cum.	W	10	R-cum.	...
„ 21, ...	10	str-cum.	...	10	cum-nim.	...	10	cum-nim.	...	10	str-cum.	E
„ 22, ...	10	nim.	...	10	nim.	SW	10	cum. / fog.	S / E	10	cum. / fog.	SSW / E
„ 23, ...	10	cum-nim.	...	10	str-cum.	SW	10	str-cum. / fog.	S / E	10	str-cum. / fog.	S / E
„ 24, ...	10	fog.	...	10	fog.	...	10	str-cum.	E	10	str.	...
„ 25, ...	10	cum-nim.	E	10	cum-nim.	SE	10	str-cum.	SE	9	cum.	SSW
„ 26, ...	10	cum-nim.	...	10	cum.	...	10	str-cum.	SW	10	cum.	SW
„ 27, ...	10	cum-nim.	...	10	cum.	...	10	str.	...	10	str-cum.	W
„ 28, ...	10	str-cum.	NE	10	cum.	...	4	sm-cum.	W	10	str-cum.	W
.....	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...
Mean,...	7.1	...	...	6.3	...	...	6.4	...	...	6.5	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
February 1,...	10	R-cum.	E	8	cum. / R-cum.	W / E	8	cum. / R-cum.	W / SE	10	nim.	E	9.5
„ 2,...	10	cum-nim.	E	10	cum-nim.	E	10	nim.	E	10	nim.	E	8.7
„ 3,...	10	str-cum.	N	10	str-cum.	N	10	str-cum.	...	10	str-cum.	...	10.0
„ 4,...	10	cum-nim.	ENE	10	R-cum.	ENE	10	cum-nim.	...	10	cum-nim.	...	10.0
„ 5,...	10	str. / R-cum.	N	10	cum-nim.	N	10	cum-nim.	...	8	cum.	...	9.8
„ 6,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 7,...	10	str-cum.	S	10	R-cum.	S	10	sm-cum. / cum	W / ..	2	cum.	SW	5.2
„ 8,...	10	R-cum.	S	10	R-cum.	S	10	nim.	...	10	nim.	E	5.1
„ 9,...	10	cum-nim.	NNE	10	cum-nim.	NNE	10	nim.	...	10	nim.	NNE	10.0
„ 10,...	0	...	...	0	...	...	0	...	...	0	...	...	3.1
„ 11,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 12,...	0	...	...	1	sm-cum.	S	0	...	...	0	...	...	0.5
„ 13,...	0	...	...	0	...	...	1	str.	...	0	...	...	3.5
„ 14,...	1	cum.	...	0	...	...	0	...	...	1	cum.	E	2.6
„ 15,...	0	...	...	0	...	...	0	...	...	0	...	...	1.4
„ 16,...	0	...	...	0	...	...	0	...	...	0	...	...	3.0
„ 17,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 18,...	0	...	...	0	...	...	0	...	...	10	cum.	E	1.3
„ 19,...	1	cum.	...	0	...	...	0	...	...	0	...	...	4.4
„ 20,...	4	R-cum.	SE	3	R-cum.	SE	10	sm-cum.	...	6	cum.	E	7.7
„ 21,...	8	cum. / R-cum.	S / E	10	str-cum.	E	10	str-cum.	...	10	str-cum.	...	9.8
„ 22,...	10	cum. / fog.	SSW / ..	10	R-cum. / fog.	SSW / ..	10	R-cum. / fog.	...	10	fog.	...	10.0
„ 23,...	10	str-cum.	S	10	fog.	E	10	fog.	...	10	fog.	E	10.0
„ 24,...	10	str-cum. / fog.	SSW / E	10	nim.	S	10	cum-nim.	...	10	fog.	...	10.0
„ 25,...	10	cum.	SW	9	cum.	SSW	8	cum.	S	10	cum-nim.	S	9.5
„ 26,...	10	nim.	SSW	10	nim.	WNW	10	nim.	...	10	nim.	...	10.0
„ 27,...	10	str-cum.	W	10	str-cum.	W	10	str-cum.	...	10	str-cum.	...	10.0
„ 28,...	10	str-cum.	W	10	str-cum.	W	10	sm-cum. / str-cum.	W	10	str-cum.	...	9.2
.....	...	.....	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean,...	5.9	...	...	5.8	...	...	6.0	...	...	6.0	...	...	6.2

HONGKONG OBSERVATORY.

Weather Report for March, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 10th, 12th and 25th.

Lunar halo: on the 17th and 18th.

Lunar corona: on the 14th.

Thick fog: on the 7th and 12th.

Fog: on the 8th and 11th.

Slight fog: on the 2nd, 5th, 6th, 10th, 19th, 21st, 22nd, 23rd, 25th and 29th.

Visibility: on the 17th.

Lightning without thunder: on the 22nd.

Thunder and lightning: on the 29th, at 11.30 p.

Thunderstorm: on the 25th, 9.30—11.30 p. in S.W. nearest at 10.42 p. (5s.).

The Total Distance traversed by, as well as the Duration and average velocity of winds from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	451	39	11.6
NE	1137	86	13.2
E	9783	499	19.6
SE	114	14	8.1
S	271	26	10.4
SW	87	10	8.7
W	243	36	6.7
NW	163	26	6.3
Calm	8	8	1.0

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF MARCH, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
March 1,...	30.065	30.074	30.053	30.063	30.081	30.077	30.076	30.093	30.107	30.112	30.102	30.071	30.028	30.011	29.992	29.977	29.979	29.982	29.996	30.018	30.026	30.030	30.031	30.034	30.045
„ 2,...	.013	.000	29.989	29.970	29.965	29.978	29.989	.009	.024	.028	.011	29.989	29.970	29.948	.923	.918	.930	.937	.952	29.962	29.978	29.989	29.999	29.988	29.977
„ 3,...	29.980	29.972	.950	.950	.957	.974	.996	.013	.024	.033	.028	30.005	.984	.953	.931	.940	.941	.949	.959	.984	30.005	30.007	30.015	30.019	.982
„ 4,...	30.009	30.004	.997	.998	30.009	30.022	30.042	.062	.075	.093	.084	.053	30.029	30.002	.995	.979	.983	.992	30.003	30.012	.029	.034	.046	.047	30.025
„ 5,...	.026	.020	30.003	.998	29.995	.001	.046	.054	.063	.048	.048	.024	29.998	29.973	.960	.952	.963	.961	29.968	29.990	.007	.010	.008	.006	.005
„ 6,...	.003	29.977	29.969	.961	.961	29.978	29.997	.007	.034	.043	.046	.033	.998	.984	.968	.962	.968	.982	.990	30.007	.033	.036	.036	.036	.000
„ 7,...	.018	.996	.982	.980	.987	.994	30.014	.034	.052	.055	.037	.010	.981	.945	.935	.944	.961	.967	.976	29.987	29.993	29.989	29.983	29.978	29.991
„ 8,...	29.952	.935	.926	.921	.929	.949	29.971	29.987	29.998	29.995	29.977	29.950	.921	.893	.885	.886	.889	.895	.897	.915	.921	.925	.925	.919	.932
„ 9,...	.902	.882	.855	.852	.857	.883	.899	.918	.919	.926	.912	.894	.866	.845	.825	.815	.812	.814	.828	.843	.853	.868	.873	.867	.867
„ 10,...	.853	.843	.836	.839	.846	.870	.896	.912	.917	.916	.914	.894	.864	.841	.813	.816	.827	.837	.850	.873	.897	.908	.908	.902	.870
„ 11,...	.895	.879	.853	.850	.850	.880	.896	.912	.934	.950	.943	.930	.902	.889	.872	.874	.896	.901	.905	.904	.929	.940	.939	.932	.902
„ 12,...	.914	.890	.889	.880	.900	.928	.983	30.033	30.049	30.065	30.061	30.046	30.028	30.000	.986	.997	30.021	30.050	30.094	30.136	30.138	30.117	30.168	30.189	30.023
„ 13,...	30.172	30.175	30.157	30.159	30.191	30.213	30.268	.297	.305	.308	.290	.270	.239	.225	30.196	30.194	.210	.230	.242	.255	.284	.290	.291	.269	.239
„ 14,...	.239	.233	.194	.189	.186	.199	.216	.243	.258	.242	.237	.202	.181	.157	.147	.145	.142	.150	.150	.183	.197	.192	.194	.190	.194
„ 15,...	.173	.167	.137	.123	.120	.131	.143	.161	.177	.179	.160	.135	.108	.085	.066	.055	.078	.074	.077	.107	.136	.135	.140	.126	.125
„ 16, .	.102	.089	.066	.052	.067	.071	.097	.109	.128	.122	.114	.096	.074	.050	.038	.013	.017	.040	.049	.064	.081	.097	.098	.092	.076
„ 17,...	.083	.052	.042	.034	.031	.052	.077	.093	.099	.102	.106	.081	.061	.036	.015	.015	.017	.015	.023	.041	.054	.065	.060	.054	.054
„ 18,...	.045	.009	.008	29.997	.002	.025	.054	.071	.073	.089	.081	.060	.037	29.993	29.976	29.968	29.974	29.987	29.999	.010	.026	.035	.034	.031	.024
„ 19,...	.015	.000	29.997	.997	29.994	.001	.000	.011	.017	.021	.011	29.989	29.964	.938	.911	.902	.906	.913	.917	29.935	29.953	29.971	29 962	29.950	29.970
„ 20,...	29.941	29.929	.903	.901	.911	29.945	29.974	29.991	.016	29.999	.000	.986	.961	.945	.914	.917	.911	.919	.926	.924	.931	.931	.923	.914	.942
„ 21,...	.893	.863	.854	.836	.835	.854	.873	.887	29.885	.877	29.852	.835	.798	.763	.749	.741	.747	.759	.770	.783	.801	.791	.791	.777	.817
„ 22,...	.782	.749	.745	.739	.745	.749	.778	.797	.804	.806	.803	.777	.757	.744	.729	.747	.749	.759	.775	.793	.821	.836	.837	.831	.777
„ 23,...	.820	.807	.816	.822	.834	.845	.909	.941	.955	.948	.941	.936	.917	.906	.902	.901	.905	.939	.946	.954	.958	.962	.950	.956	.907
„ 24,...	.949	.930	.924	.906	.914	.932	.939	.961	.969	.969	.958	.951	.924	.897	.886	.862	.877	.883	.903	.932	.953	.959	.954	.943	.928
„ 25,...	.926	.914	.909	.906	.923	.940	.945	.951	.963	.950	.948	.943	.936	.914	.919	.944	.954	.987	30.000	30.027	30.070	30.143	30.112	30.102	.972
„ 26,...	30.093	30.096	30.092	30.098	30.098	30.138	30.140	30.164	30.171	30.189	30.187	30.174	30.138	30.106	30.108	30.101	30.095	30.102	.125	.139	.157	.167	.144	.123	30.131
„ 27,...	.104	.095	.063	.060	.054	.085	.083	.106	.116	.109	.114	.093	.051	.018	29.997	29.977	29.993	29.994	29.999	29.985	29.995	.007	29.999	29.992	.045
„ 28,...	29.965	29.935	29.914	29.911	29.917	29.940	29.931	29.940	29.952	29.941	29.936	29.906	29.873	29.867	.857	.855	.853	.859	.878	.883	.878	29.867	.865	.859	29.899
„ 29,...	.853	.840	.824	.822	.817	.834	.852	.857	.865	.860	.860	.849	.811	.803	.790	.776	.777	.787	.807	.839	.857	.856	.863	.876	.832
„ 30,...	.852	.850	.844	.832	.820	.839	.859	.878	.893	.887	.871	.851	.812	.780	.759	.760	.757	.777	.778	.811	.822	.835	.821	.810	.825
„ 31,...	.796	.781	.760	.759	.756	.778	.802	.810	.808	.811	.808	.780	.746	.723	.712	.710	.696	.702	.722	.754	.761	.778	.773	.765	.762
Hourly Means, ...	29.982	29.967	29.953	29.949	29.953	29.971	29.992	30.010	30.021	30.022	30.014	29.994	29.966	29.943	29.928	29.924	29.930	29.940	29.952	29.970	29.985	29.993	29.992	29.986	29.972

TABLE II.

TEMPERATURE FOR THE MONTH OF MARCH, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 a.	11 p.	Midt.	Means.	Max.	Min.
Mch. 1,	56.7	56.6	56.4	56.3	54.8	54.9	54.7	54.8	54.9	55.2	55.4	56.7	57.7	56.8	56.1	56.5	56.6	56.3	56.7	57.0	57.1	57.2	57.1	57.2	56.2	58.1	54.5
" 2,	57.4	57.5	57.4	57.6	57.6	57.6	57.8	58.5	58.9	59.8	61.1	62.3	61.1	61.8	60.8	60.5	59.9	60.2	60.8	61.3	61.4	62.0	62.4	62.6	59.9	62.6	57.1
" 3,	62.6	62.9	63.1	63.3	64.0	63.9	63.9	63.8	64.3	64 5	64.7	64.6	65.2	64.6	64.4	63.5	62.8	62.9	62.8	62.5	62.0	61.9	61.0	60.9	63.3	65.7	60.8
" 4,	60.9	60.7	60.5	60.3	60.1	60.0	59.7	59.8	59.9	59.8	59.8	59.9	60.1	59.8	59.8	59.9	59.6	58.8	59.5	59.4	59.8	59.8	60.3	60.7	60.0	60.9	58.7
" 5,	60.6	60.7	60.9	61.1	61.1	60.9	60.8	61.7	63.1	63.4	63.3	62.0	63.4	63.6	63.7	63.1	62.2	62.6	62.6	62.8	62.8	63.1	63.5	63.6	62.4	64.3	60.6
" 6,	64.1	64.5	64.6	64.4	64.5	64.6	65.2	67.0	67.7	67.9	70.6	68.2	69.1	67.1	67.1	67.6	67.6	67.7	67.1	66.3	66.8	66.7	66.8	67.0	66.7	70.6	63.5
" 7,	66.2	65.2	64.9	64.7	64.5	63.9	62.9	63.0	63.1	63.8	64.3	64.1	64.0	63.7	64.1	63.8	64.4	64.5	64.7	63.8	63.8	64.3	64.3	64.3	64.2	67.0	62.8
" 8,	63.9	64.2	64.3	64.2	64.9	65.5	65.7	66.3	67.0	68.4	69.0	73.8	73.5	73.6	71.8	70.0	69.9	68.8	68.5	68.8	69.3	72.8	73.5	73.6	68.8	74.4	63.8
" 9,	73.4	73.7	73.6	73.6	73.5	73.3	73 3	73.9	72.8	74.0	75.8	76.7	76.6	77.0	77.2	76.8	77.1	75.6	74.8	74.3	74.1	73.8	73.6	73.7	74.7	77.8	71.5
" 10,	73.5	73.1	73.0	71.4	70.5	70.6	69.9	69.5	70.3	70.9	72.3	72.0	71.9	75.6	74.0	72.6	71.8	70.1	67.9	68.7	69.5	70.3	70.3	69.8	71.2	76.5	67.2
" 11,	69.5	69.5	68.6	69.1	68.9	69.2	69.2	68.2	67.6	66.8	66.6	66.0	65.7	64.8	65.0	64.3	64.2	63.6	63.2	63.2	62.8	62.8	63.0	63.3	66.0	69.9	62.7
" 12,	63.6	63.9	64.1	64.3	64.7	65.2	65.5	66.2	66.9	67.7	67.4	69.6	69.1	68.7	65.8	64.9	65.1	65.5	62.8	63.7	62.8	62.8	58.1	55.1	64.7	70.1	55.1
" 13,	55.2	54.8	53.8	53.6	53.5	53.6	53.6	52.7	52.8	54.3	57.0	58.5	59.7	59.0	58.7	58.4	58.0	56.9	56.9	57.1	57.9	58.5	58.6	58.1	56.3	59.8	52.6
" 14,	58.6	58.2	57.5	57.5	57.5	57.9	58.0	58.7	59.1	60.7	60.9	62.4	62.1	61.1	60.5	60.5	60.1	59.7	59.8	59.9	60.1	61.9	61.8	61.6	59.8	63.1	56.9
" 15,	61.0	60.6	60.2	59.9	59.5	59.1	59.0	58.8	59.7	60.7	62.1	63.1	63 0	62.7	63.0	63.9	62.7	61.9	61.8	61.2	59.8	59.6	59.5	59.8	60.9	63.9	58.8
" 16,	59.8	59.8	59.8	59.6	59.7	59.7	59.9	60.1	60.1	60.6	60.8	62.2	62.7	63.3	62.5	62.1	61.8	61.8	61.5	61.3	61.2	61.0	61.1	60.8	61.0	63.3	59.6
" 17,	60.7	60.8	61.0	60.7	60.6	60.7	61.1	61.8	61.7	61.9	61.8	62.6	62.3	63.7	64.8	64.1	62.7	62.1	61.2	61.3	61.6	61.2	61.3	61.0	61.8	65.5	60.6
" 18,	60.8	61.5	61.3	60.6	60.9	61.2	61.9	63.1	62.9	64.8	65.8	66.2	66.5	68.2	67.9	68.9	68.5	68.8	66.7	65.6	65.8	64.3	64.4	65.0	64.6	68.9	60.6
" 19,	64.8	64.9	64.9	65.4	65.8	65.4	66.0	66.5	68.9	67.8	71.4	71.4	73.7	72.8	73.8	76.0	71.5	69.1	69.3	68.8	68.8	66.0	66.3	65.7	68.5	76.0	64 8
" 20,	65.1	65.5	65.9	65.3	65.7	64.3	62.9	62.8	62.5	63.7	65.1	65.0	65.2	65.6	66.8	63.7	63.8	63.8	63.8	64.5	64.4	64.0	63.7	63.9	64.5	67.0	62.5
" 21,	64.0	63.8	63.5	63.2	62.9	62.7	62.4	61.9	63.2	64.0	64.6	63.7	63.7	63.9	63.8	63.6	63.7	64.1	64.7	65.6	65.0	64.8	65.0	64.9	63.9	65.6	61.7
" 22,	65.4	65.4	65.8	65.7	65.8	65.6	66.0	66.9	67.6	68.7	71.4	71.2	72.7	76.7	76.8	71.9	71.9	71.1	73.0	75.0	71.8	72.1	71.8	71.7	70.1	77.3	64.7
" 23,	71.6	71.1	70.9	70.5	70.2	69.0	68.8	70.1	69.9	71.3	71.5	70.0	67.8	67.2	66.5	65.0	64.5	63.9	64.2	64.3	63.8	63.7	63.6	64.1	67.6	71.8	63.6
" 24,	64.2	63.6	63.4	63.1	63.0	63.2	63.3	63.5	64.0	65.6	66.6	65.5	65.9	65.6	65.7	64.7	64.5	64.2	64.7	64.1	63.7	63.8	64.2	64.1	64.3	66.6	63.0
" 25,	63.8	64.0	64.8	65.1	65.6	65.8	65.9	66.7	66.9	67.9	68.5	67.6	66.9	64.7	63.9	63.7	62.1	61.3	59.2	57.8	57.3	57.8	55.6	53.7	63.2	68.9	53.7
" 26,	53.4	53.2	52.7	52.6	53.0	53.5	53.9	54.9	55.8	57.7	57.3	58.2	59.0	59.0	58.6	58.7	58.1	58.4	58.6	58.8	59.0	59.4	59.4	59.6	56.8	59.6	52.5
" 27,	59.5	59.6	59.8	59.7	59.6	59.6	59.9	60.8	61.3	61.7	62.2	61.7	62.6	62.5	62.7	62.6	62.1	61.9	61.4	62.3	63.2	63.4	63.4	63.3	61.5	63.4	59.4
" 28,	63 2	63.1	63.0	62.9	62.6	62.6	62.7	63.8	64.5	66.0	66.2	67.0	65.7	63.8	63.8	61.9	62.9	63.4	63.8	63.1	63.3	64.6	64.4	64.4	63.9	67.4	61.8
" 29,	63.9	63.9	64.2	63.9	64.0	63.6	63.7	63.6	65.2	67.3	65.9	65.9	67.8	67.6	67.2	66.8	67.9	65.7	65.8	65.4	65.6	65.5	66.1	65.5	65.5	68.5	63.6
" 30,	64.8	64.2	63.7	63.0	62.6	62.6	62.4	62.3	61.8	61.7	61.8	62.3	62.1	61.4	61.7	61.3	61.3	61.6	61.4	61.3	61.8	61.5	61.5	61.3	62.1	65.5	61.2
" 31,	61.5	61.5	61.4	61.5	61.8	62.0	62.6	63.3	63.9	64.6	65.8	65.1	65.1	65.6	63.9	63.6	63.6	63.6	63.6	63.8	64.6	64.2	64.1	64.1	63.5	66.1	61.2
Hourly Means,	63.0	63.0	62.9	62.7	62.7	62.6	62.7	63.1	63.5	64.3	65.1	65.3	65.5	65.5	65.2	64.7	64.3	63.9	63.6	63.6	63.6	63.7	63.5	63.4	63.8	67.3	60.7

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF MARCH, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means	Solar Max.
March 1,...	52.1	52.6	52.6	52.8	52.6	52.2	51.8	51.6	51.9	52.0	51.6	52.7	53.6	52.8	52.4	52.6	53.3	53.3	53.7	54.7	55.5	55.8	56.2	56.4	53.2	103.0
„ 2,...	56.5	56.5	56.5	56.5	56.5	56.5	57.0	57.7	58.1	59.1	60.1	60.9	60.2	60.8	59.9	59.9	59.7	59.9	60.5	61.0	61.1	61.9	62.4	62.6	59.2	123.3
„ 3,...	62.6	62.9	62.9	63.1	63.7	63.6	63.6	63.4	63.9	63.7	63.9	63.9	64.2	63.8	63.6	62.8	62.3	62.8	62.7	62.2	61.6	61.1	60.1	60.0	62.8	99.1
„ 4,...	60.0	59.8	59.6	59.4	59.2	59.2	58.9	58.9	59.0	58.9	59.6	59.1	59.2	58.9	58.8	58.9	58.7	58.7	58.9	59.0	59 3	59.4	59.9	60.4	59.2	98.8
„ 5,...	60.2	60.2	60.2	60.2	60.1	60.0	60.2	60.9	61.9	62.0	62.1	61.8	62.5	62.7	62.8	62.7	61.9	62.0	62.2	62.4	62.5	62.8	63.2	63.3	61.7	104.4
„ 6,...	63.9	64.2	64.3	64.1	64.3	64.4	64.9	66.0	66.3	66.6	67.7	66.6	66.9	65.7	66.0	66.5	66.6	66.6	66.2	65.9	66.3	65.8	66.0	66.2	65.8	112.7
„ 7,...	65.6	64.9	64.7	64.7	64.6	63.8	62.9	63.0	63.0	63.0	63.0	62.9	63.2	62.9	63.2	63.0	63.6	63.9	64.1	63.6	63.7	64.0	64.1	64.1	63.7	91.1
„ 8,...	63.8	64.1	64.2	64.1	64.8	65.3	65.5	65.9	66.3	67.2	67.5	69.9	69.9	70.0	69.1	68.1	69.0	67.7	67.8	68.8	68.2	70.8	71.3	71.2	67.5	126.7
„ 9,...	71.2	71.1	70 9	70.8	70.7	70.6	70.9	70.9	71.1	71.4	72.5	72.8	72.3	72.4	72.6	72.1	71.9	71.4	71.3	71.4	71.3	71.0	70.7	70.6	71.4	101.3
„ 10,...	70.3	70.3	70.2	69.9	69.8	70.0	69.0	68.7	69.0	69.7	70.4	69.7	69.7	71.3	70.3	70.0	70.0	69.2	67 8	68.5	69.3	69.9	69.8	69.2	69.7	122.3
„ 11,...	69.2	69.0	68.3	68.8	68.7	69.1	68.9	67.9	66.6	65.8	65.6	65.0	64.6	63.9	63.9	63.6	63.4	63.2	62.9	62.9	62.7	62.7	62.9	63.1	65.5	112.5
„ 12,...	63.5	63.8	63.9	64.0	64.3	64.9	65.2	65.9	66.2	66.6	66.9	68.0	67.7	67.1	65.7	64.9	64.9	65.1	62.0	62.0	60.4	60.6	55.5	52.6	63.8	117.4
„ 13,...	52.5	51.8	50.2	49.9	49.8	49.8	49.5	49.0	48.9	50.0	52.3	53.1	54.2	53.1	53.1	53.0	53.1	52.1	51.9	52.0	52.9	53.0	53.8	53.9	51.8	87.9
„ 14,...	53.9	53.6	53.0	52.7	52.0	51.8	51.7	51.7	53.0	53.8	53.8	54.5	54.9	54.3	54.2	54.4	54.0	54.1	54.4	54.8	55.3	56.0	55.9	56.1	53.9	136.3
„ 15,...	56.2	56.3	56.3	56.2	55.9	55.6	55.5	55.9	56.9	56.8	57.0	58.1	58.2	57.9	58.3	59.4	58.9	59.9	59.3	59.4	58.5	58.7	58.6	58.9	57.6	125.3
„ 16,...	58.9	59.0	59.0	58.6	58.6	58.5	58.7	58.8	58.8	58.9	59.3	60.1	60.3	60.4	60.3	60.2	60.0	60.0	59.9	59.9	59.8	59.8	60.0	59.5	59.5	90.2
„ 17,...	59.5	59.6	59.4	58.8	58.8	58.9	59.1	59.3	59.3	59.6	59.2	59.6	59.1	59.6	59.9	59.4	58.8	58.7	58.3	58.6	57.9	58.0	58.0	57.9	59.0	118.7
„ 18,...	57.8	57.1	56.9	56.2	55.5	55.4	56.4	57.5	58.0	58.9	59.2	59.0	59.0	60.7	60.4	61.0	61.4	61.4	62.1	61.1	60.8	61.3	61.3	61.5	59.2	124.3
„ 19,...	61.7	61.9	61.7	61.7	61.7	61.7	62.0	62.8	63.7	64.0	64.9	66.0	66.8	66.2	67.1	68.7	65.9	64.9	64.9	64.9	64.8	63.1	63.6	63.4	64.1	133.8
„ 20,...	63.4	63.7	64.2	63.7	64.5	62.5	61.1	59.9	59.0	59.9	60.4	60.1	59.9	59.9	60.0	59.9	60.2	59.9	60.4	60.9	61.4	61.9	61.8	62.0	61.3	132.7
„ 21,...	61.9	61.5	61.0	60.5	60.3	59.8	59.7	59.9	60.0	60.7	61.2	61.0	61.6	61.6	61.6	61.6	61.9	62.8	63.1	63.9	63.9	63.8	64.3	64.2	61.7	119.2
„ 22,...	64.6	64.7	65.2	65.2	65.2	65.0	65.4	66.3	67.0	67.9	70.2	70.1	71.2	73.6	73.7	70.5	71.0	70.7	71.9	73.3	71.1	71.7	71.6	71.5	69.1	119.9
„ 23,...	71.4	70.8	70.4	67.5	65.7	63.0	62.9	62.0	60.7	60.8	61.9	63.1	63.7	62.9	62.2	61.6	60.7	59.9	59.7	59.8	59.0	59.0	59.8	60.1	62.9	133.8
„ 24,...	59.9	59.3	58.6	58.1	57.4	56.8	55.0	56.0	56.8	57.7	60.0	59.5	61.1	60.9	61.9	61.1	61.9	61.8	61.9	62.2	62.2	62.7	62.8	62.6	59.9	131.0
„ 25,...	62.4	62.2	62.9	63.2	64.0	64.3	64.7	65.1	65.3	66.0	66.5	66.3	65.9	63.2	63.0	62.9	60.9	58.9	55.6	54.3	53.4	54.9	53.6	51.9	61.3	129.0
„ 26,...	51.0	51.7	50.8	51.4	51.6	52.0	51.5	51.0	51.5	52.6	52.9	53.5	53.8	53.5	53.4	53.3	52.7	53.0	54.4	54.7	54.9	55.9	55.8	56.6	53.1	83.8
„ 27,...	56.8	56.9	57.0	56.9	56.5	56.5	56.6	56.8	57.0	56.9	57.3	57.0	56.1	55.1	54.7	55.9	56.7	56.9	57.5	59.0	58.9	59.7	59.5	59.0	57.1	119.3
„ 28,...	58.9	58.8	59.1	59.1	59.8	59.8	59.8	59.9	60.0	61.4	61.9	62.8	62.6	62.8	61.9	61.1	61.4	62.1	62.0	62.0	62.2	62.4	62.3	62.4	61.1	121.0
„ 29,...	62.2	62.3	62.0	62.4	62.4	62.4	62.5	62.1	62.9	64.1	62.7	63.1	64.6	64.5	64.1	63.9	64.5	63.9	64.1	64.0	63.9	63.9	64.2	63.9	63.4	107.6
„ 30,...	63.8	63.2	63.0	62.3	61.5	61.2	61.0	60.5	60.2	59.6	59.5	59.4	59.8	60.5	60.5	60.8	60.9	60.9	60.9	60.8	60.6	60.1	59.9	60.1	60.9	84.7
„ 31,...	60.4	60.5	60.5	60.7	60.9	61.2	61.5	62.0	62.7	62.9	63.7	63.1	63.3	63.8	62.9	62.6	62.7	62.7	62.9	63.2	63.7	63.4	63.3	63.4	62.4	121.3
Hourly Mean ...	61.2	61.1	61.0	60.8	60.7	60.5	60.4	60.6	60.8	61.2	61.8	62.0	62.3	62.2	62.0	61.8	61.7	61.6	61.5	61.7	61.5	61.8	61.7	61.6	61.4	113.9

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF MARCH, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	90	0.525	Mar. 1,.....	81	0.367
2 „	90	.521	„ 2,.....	96	.495
3 „	90	.519	„ 3,.....	97	.566
4 „	90	.516	„ 4,.....	95	.494
5 „	89	.513	„ 5,.....	96	.543
6 „	88	.508	„ 6,.....	95	.624
7 „	87	.503	„ 7,.....	97	.585
8 „	86	.504	„ 8,.....	93	.657
9 „	85	.505	„ 9,.....	85	.726
10 „	83	.507	„ 10,.....	93	.707
11 „	82	.516	„ 11,.....	97	.623
Noon.	82	.520	„ 12,.....	95	.582
1 p	83	.527	„ 13,.....	72	.327
2 „	82	.524	„ 14,.....	66	.339
3 „	83	.522	„ 15,.....	81	.433
4 „	84	.522	„ 16,.....	91	.490
5 „	86	.524	„ 17,.....	84	.464
6 „	87	.525	„ 18,.....	71	.433
7 „	88	.527	„ 19,.....	77	.541
8 „	90	.533	„ 20,.....	83	.501
9 „	88	.527	„ 21,.....	88	.523
10 „	90	.535	„ 22,.....	95	.699
11 „	90	.534	„ 23,.....	76	.513
Midt.	90	.532	„ 24,.....	76	.459
			„ 25,.....	90	.518
			„ 26,.....	77	.356
			„ 27,.....	75	.410
			„ 28,.....	85	.503
			29,.....	89	.557
			30,.....	93	.520
			31,.....	94	.551
Mean,.....	87	0.520	Mean.	87	0.520

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
Mar. 1,.....	...	...	...	...	...	...	0.1	...	...	...	...	...	...	0.1
„ 2,.....	...	...	...	...	...	0.2	...	...	...	...	...	...	...	0.2
„ 3,.....	...	...	...	0.1	...	...	...	...	...	...	...	...	...	0.1
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	0.5	0.3	...	...	...	...	...	...	...	...	0.8
„ 6,.....	...	...	...	...	...	0.1	...	...	...	...	...	...	...	0.1
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	...	0.1	0.1	0.3	0.6	0.6	0.4	0.1	...	...	...	2.2
„ 9,.....	...	...	...	...	...	...	...	...	...	...	0.1	0.3	...	0.4
„ 10,.....	...	0.1	0.4	0.5	0.3	0.4	0.6	0.3	0.3	0.4	0.3	...	...	3.6
„ 11,.....	...	...	...	...	0.2	...	...	...	...	...	...	...	...	0.2
„ 12,.....	...	...	...	...	...	...	...	0.2	0.2	...	...	...	...	0.4
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	0.3	0.5	...	...	...	...	...	...	0.8
„ 15,.....	...	...	...	...	...	0.1	...	...	...	...	...	...	...	0.1
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	...	...	...	0.1	0.2	0.8	1.0	0.4	...	2.5
„ 18,.....	...	...	...	...	...	...	...	...	0.5	0.5	0.1	...	...	1.1
„ 19,.....	...	0.8	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	10.0
„ 20,.....	...	...	...	0.1	0.9	0.9	0.1	...	...	...	...	...	...	2.0
„ 21,.....	...	...	...	...	0.1	...	...	...	0.6	...	...	...	...	0.7
„ 22,.....	...	...	...	...	...	...	...	...	0.3	...	...	...	...	0.3
„ 23,.....	...	...	0.2	0.7	0.5	0.1	0.9	1.0	0.1	...	...	...	...	3.5
„ 24,.....	...	...	...	...	0.6	0.5	...	0.4	0.3	0.5	0.8	0.2	...	3.3
„ 25,.....	...	...	...	...	0.9	0.2	...	...	...	...	...	...	...	1.1
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,.....	...	0.4	1.0	1.0	1.0	1.0	0.7	...	...	0.2	0.1	...	...	5.4
„ 28,.....	...	...	...	...	0.4	...	...	...	...	...	...	...	...	0.4
„ 29,.....	...	...	...	...	...	...	...	0.1	...	...	...	...	...	0.1
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,.....	...	...	0.5	0.5	0.3	0.1	0.4	0.4	0.1	...	...	...	...	2.3
Sums,.....	...	1.3	3.1	4.5	6.5	5.2	4.9	4.1	4.0	3.5	3.4	1.2	...	41.7

TABLE VI.

RAINFALL FOR THE MONTH OF MARCH, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
March 1,.....	...	...	...	0.125	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.130	2	...
„ 2,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	...
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	...
„ 4,.....	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	7	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.005	...	...	...	...	...	...	...	0.015	1	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	0.040	0.060	3	0.10
„ 13,.....	0.010	...	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.025	2	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	0.010	0.010	...	...	...	...	...	...	...	...	...	†0.015	†0.030	†0.025	†0.030	†0.025	†0.030	0.175	6	0.42
„ 16,.....	†0.025	†0.030	†0.025	†0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.095	4	...
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	1	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.20
„ 22,.....	...	...	0.005	0.005	0.025	...	0.060	0.005	0.015	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	0.120	4	...
„ 23,.....	0.005	...	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	1	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	0.050	0.075	0.035	0.040	0.050	0.020	...	...	0.020	0.200	0.140	0.180	0 810	9	1.34
„ 26,.....	0.150	0.055	0.040	0.090	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.335	3	...
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	0.005	0.020	0.005	...	...	...	0.010	...	...	...	0.085	4	...
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.130	0.130	3	0.34
„ 30,.....	0.335	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.030	0.070	0.010	0.015	0.005	...	...	...	...	0.470	13	0.20
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	0.005	...	0.010	7	...
Sums, ...	0.525	0.085	0.105	0.235	0.030	...	0.060	0.015	0.025	0.005	...	...	0.050	0.120	0.045	0.105	0.130	0.035	0.030	0.035	0.055	0.230	0.190	0.380	2.490	90	2.60

† Approximate. Clock stopped. Rain fell steadily from 7 p. 15th to 4 a. 16th total fall distributed accordingly.
The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF MARCH, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
March 1,	6	32	6	29	6	28	5	21	7	18	6	25	6	27	7	22	6	22	6	21	7	24	7	25	7	25	7	23	7	24	7	27	7	28	7	29	7	23	8	29	8	30	7	27	7	24	8	24	612	25.5	7
" 2,	8	23	9	28	8	28	8	23	8	26	7	26	7	25	7	25	7	23	7	23	7	25	7	22	7	19	7	21	7	23	7	24	8	21	8	21	8	23	8	21	8	21	9	17	9	16	8	20	549	22.9	8
" 3,	8	14	9	16	7	16	8	16	9	18	8	17	7	16	8	16	8	17	7	14	7	14	7	15	7	15	7	16	7	19	8	15	7	16	7	17	8	19	8	24	8	26	8	30	8	29	8	25	440	18.3	8
" 4,	9	26	8	27	9	29	9	30	8	30	8	33	8	33	8	28	8	30	8	29	8	32	8	30	8	29	8	29	8	27	8	30	8	28	9	29	9	29	9	27	8	25	8	25	8	21	9	20	676	28.2	8
" 5,	9	23	8	21	8	21	8	25	8	24	8	24	8	22	8	20	7	17	7	18	7	16	7	18	7	19	7	18	7	16	7	21	7	17	7	18	7	16	8	16	8	12	7	12	7	16	7	11	441	18.4	8
" 6,	5	9	5	7	6	6	6	6	6	5	9	5	9	3	9	2	9	5	8	8	9	6	8	13	7	14	7	13	7	16	7	13	7	9	6	8	7	13	7	12	6	9	6	7	6	8	5	7	204	8.5	7
" 7,	7	11	8	15	8	14	8	12	7	14	8	21	8	22	8	22	8	24	8	25	9	23	7	20	8	23	7	21	7	22	8	17	8	20	8	19	8	20	7	17	8	19	7	19	7	20	7	17	457	19.0	8
" 8,	7	17	7	16	7	16	7	16	7	13	6	10	6	11	5	9	7	10	6	11	7	9	11	4	13	4	27	4	4	6	6	5	3	5	5	7	7	8	9	5	11	4	15	9	16	10	16	13	222	9.2	8
" 9,	17	13	17	11	17	9	17	12	17	12	14	9	17	12	19	8	16	9	16	11	16	11	16	10	18	13	18	13	18	12	18	14	18	10	18	10	17	10	15	4	16	6	14	6	18	7	18	9	241	10.0	17
" 10,	18	11	18	12	18	5	27	5	29	4	...	1	6	3	7	9	7	11	7	10	7	8	7	7	9	7	11	6	8	7	11	5	8	5	9	5	8	10	8	9	6	8	6	8	7	8	7	7	171	7.1	8
" 11,	7	8	8	9	6	11	7	12	8	10	7	9	7	11	8	19	8	21	7	18	7	24	6	23	7	23	7	27	8	30	8	28	8	27	8	23	8	23	8	25	8	28	8	25	8	25	8	24	495	20.6	8
" 12,	9	22	9	21	8	22	8	21	8	22	9	20	8	18	9	19	8	19	8	20	8	18	9	18	8	19	8	27	8	27	8	24	7	18	8	14	24	19	23	16	2	9	5	14	32	24	32	17	468	19.5	7
" 13,	32	14	32	13	2	19	32	10	1	14	2	12	2	7	2	10	32	12	2	11	2	8	7	6	5	14	4	17	4	12	5	11	2	7	32	11	1	12	1	8	4	8	4	13	5	17	4	13	279	11.6	3
" 14,	4	14	4	13	4	14	5	9	6	9	5	10	6	14	4	12	6	12	8	16	7	17	8	18	10	15	9	14	9	16	9	14	8	16	7	14	7	12	6	10	6	11	7	18	6	18	7	17	333	13.9	7
" 15,	7	19	7	14	7	14	6	11	6	9	5	9	6	12	5	12	5	9	7	15	7	17	8	20	10	17	11	12	10	8	9	3	26	8	23	6	8	11	6	8	6	9	8	10	7	10	6	8	271	11.3	7
" 16,	6	8	7	7	7	12	7	10	6	11	7	13	7	13	7	13	7	12	7	13	6	6	10	5	23	5	24	3	9	4	9	8	8	6	8	3	9	5	9	5	9	6	8	8	9	9	8	11	196	8.2	8
" 17,	8	9	8	7	7	10	8	14	7	11	7	14	7	16	7	19	8	20	8	21	8	23	8	17	7	14	10	15	7	15	8	16	9	19	7	19	7	19	6	15	6	14	7	14	6	16	7	13	370	15.4	7
" 18,	6	19	6	22	7	23	7	27	7	26	7	26	8	20	8	16	8	18	9	19	9	19	8	18	9	16	9	19	8	13	8	17	9	14	11	8	7	6	6	5	6	2	6	4	8	4	29	5	371	15.5	8
" 19,	29	2	...	1	...	1	...	1	14	2	6	2	...	1	29	4	29	4	27	6	25	9	26	9	26	11	25	12	25	8	27	8	28	7	29	8	29	5	29	5	26	4	27	4	25	2	26	5	121	5.0	27
" 20,	26	4	23	6	23	7	24	4	8	5	7	24	7	29	7	23	7	30	7	31	7	32	7	31	7	30	7	27	7	25	8	25	7	24	7	19	8	22	7	25	7	22	6	21	6	21	6	16	508	21.2	7
" 21,	7	21	7	22	7	22	7	28	7	28	8	28	8	26	8	26	8	25	8	27	9	30	9	25	8	25	8	20	8	28	8	23	7	23	7	21	7	21	6	20	6	19	8	24	8	24	7	21	588	24.5	8
" 22,	6	15	7	17	7	18	6	16	7	18	6	19	6	11	4	6	7	5	8	5	12	8	9	8	13	8	16	17	16	13	30	8	30	5	30	4	22	5	17	12	20	7	28	7	27	6	28	7	245	10.2	8
" 23,	28	7	25	3	32	6	1	14	2	14	2	17	30	10	3	15	2	20	1	20	6	19	8	21	10	24	7	24	7	25	7	24	6	23	7	23	6	21	7	24	7	26	7	29	7	25	6	23	458	19.1	6
" 24,	6	25	6	29	7	26	7	28	7	29	7	29	7	29	7	27	7	23	7	28	7	27	7	25	7	24	8	28	9	29	8	23	8	24	8	24	8	20	7	19	8	21	8	21	8	21	8	21	611	25.5	7
" 25,	8	21	8	21	9	17	7	18	9	16	9	17	9	18	7	15	7	16	7	17	7	17	8	21	4	13	1	9	2	12	2	13	3	11	2	17	2	28	1	34	2	25	4	11	1	16	1	12	416	17.3	5
" 26,	2	14	32	5	31	7	1	3	32	3	30	2	1	6	1	4	31	5	2	6	32	13	1	19	2	9	5	12	4	11	5	9	4	13	4	11	5	11	6	13	6	10	7	11	7	8	6	10	206	8.6	3
" 27,	7	11	6	9	6	12	7	13	7	20	7	17	7	21	6	22	6	25	7	28	7	26	7	30	7	30	7	27	7	27	7	24	8	22	7	24	7	24	7	24	8	28	7	22	7	20	7	21	527	22.0	7
" 28,	7	21	7	19	7	16	7	17	8	14	9	15	8	19	8	18	8	15	7	20	7	18	7	11	6	6	24	14	26	13	25	14	20	7	24	5	25	6	24	3	2	4	8	3	31	3	...	1	282	11.8	7
" 29,	23	3	23	5	26	4	24	2	20	2	...	1	23	7	23	8	25	6	23	9	23	10	25	8	22	6	25	7	23	6	23	5	...	1	23	4	23	4	23	4	7	5	8	6	10	10	7	14	137	5.7	23
" 30,	9	18	8	20	7	21	7	24	7	27	6	26	7	30	6	28	7	31	7	34	7	29	7	32	7	31	7	33	6	33	7	33	7	33	7	35	6	32	6	26	6	28	7	28	7	27	8	28	690	28.7	7
" 31,	8	27	8	28	8	27	8	28	8	27	8	23	8	27	8	28	8	27	8	29	7	30	7	31	8	33	7	31	7	31	7	29	7	30	7	28	7	27	7	29	7	25	7	23	7	24	6	22	672	28.0	7
Sums,	...	481	...	473	...	481	...	481	...	481	...	509	...	519	...	510	...	528	...	563	...	568	...	553	...	545	...	568	...	566	...	535	...	497	...	499	...	514	...	495	...	472	...	477	...	490	...	462	12257	510.7	..
Hourly Means,	...	15.5	...	15.3	...	15.5	...	15.5	...	15.5	...	16.4	...	16.7	...	13.5	...	17.0	...	18.2	...	18.3	...	17.8	...	17.6	...	18.3	...	18.3	...	17.3	...	16.0	...	15.8	...	16.6	...	16.0	...	15.2	...	15.4	...	15.8	...	14.9	395.4	16.5	...

Clock stopped 30th 11.45 p.—31st 10.30 a.: Velocity estimated.

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR MARCH, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	3.55	13.10	1.35	0.65	+2.20	+12.45	E 10° N
2 „	2.74	13.06	1.26	0.68	1.48	12.38	E 7° N
3 „	3.29	13.55	0.74	0.52	2.55	13.03	E 11° N
4 „	3.16	13.61	0.58	0.39	2.58	13.22	E 11° N
5 „	2.87	13.94	0.71	0.16	2.16	13.78	E 9° N
6 „	3.39	15.16	0.61	0.03	2.78	15.13	E 10° N
7 „	2.87	15.19	0.58	0.42	2.29	14.77	E 9° N
8 „	3.35	14.77	0.39	0.48	2.96	14.29	E 12° N
9 „	3.35	15.19	0.32	0.29	3.03	14.90	E 12° N
10 „	3.45	16.26	0.55	0.45	2.90	15.81	E 10° N
11 „	3.16	16.45	1.13	0.61	2.03	15.84	E 7° N
Noon.	2.52	16.42	0.81	0.52	1.71	15.90	E 6° N
1 p.	2.61	15.68	1.61	0.81	1.00	14.87	E 4° N
2 „	2.87	15.32	1.71	1.42	1.16	13.90	E 5° N
3 „	3.19	15.81	1.23	1.00	1.96	14.81	E 8° N
4 „	2.58	15.13	0.74	1.10	1.84	14.03	E 7° N
5 „	2.90	14.19	0.68	0.74	2.22	13.45	E 9° N
6 „	3.45	13.55	0.71	0.77	2.74	12.78	E 12° N
7 „	3.35	13.84	0.65	1.23	2.70	12.61	E 12° N
8 „	4.00	13.19	0.77	0.74	3.23	12.45	E 14° N
9 „	3.32	13.52	0.45	0.29	2.87	13.23	E 12° N
10 „	2.87	14.19	0.55	0.26	2.32	13.93	E 9° N
11 „	3.77	13.39	0.81	0.35	2.96	13.04	E 13° N
Midt.	3.45	12.42	0.81	0.52	+2.64	+11.90	E 12° N
Mean,.....	3.17	14.46	0.82	0.60	+2.35	+13.35	E 10° N

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
									10 a.		4 p.		10 p.	
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
Mch. 1	28.29	28.21	28.22	48	49	50	50	47	E	5	E	5	E	5
„ 2	.26	.17	.22	60	62	62	64	50	SE	5	SSE	4	SE	4
„ 3	.27	.20	.20	63	64	62	65	60	SE	3	SE	4	SE	4
„ 4	.31	.22	.24	61	62	62	64	61	SE	4	SE	4	SE	4
„ 5	.28	.22	.25	64	65	65	66	62	SW	4	SW	4	S	4
„ 6	.27	.17	.21	66	66	66	69	64	S	3	S	3	S	4
„ 7	.29	.17	.21	64	64	64	69	64	SE	4	S	5	S	5
„ 8	.20	.16	.15	66	66	66	68	64	S	4	S	4	SW	4
„ 9	.19	.13	.12	68	68	68	69	66	S	5	S	5	S	5
„ 10	.19	.11	.13	68	68	67	70	67	S	4	SW	4	SW	4
„ 11	.20	.16	.17	68	68	67	70	67	S	4	S	4	S	4
„ 12	.28	.25	.30	66	67	55	68	54	ESE	4	SE	3	NW	4
„ 13	.43	.40	.39	53	54	52	56	50	NE	4	ENE	4	ENE	4
„ 14	.42	.38	.37	53	56	53	56	51	E	4	E	3	E	3
„ 15	.38	.35	.27	53	57	53	58	53	E	4	E	3	N	4
„ 16	.33	.25	.27	55	57	56	59	53	E	4	NE	3	E	3
„ 17	.31	.25	.24	56	56	55	57	54	E	4	E	3	E	4
„ 18	.30	.22	.25	56	59	58	59	54	E	5	E	4	E	3
„ 19	.26	.20	.20	63	65	65	68	58	E	3	E	3	E	3
„ 20	.23	.19	.21	65	60	60	67	58	E	5	E	5	E	5
„ 21	.17	.00	.01	60	64	63	67	58	SE	6	SE	6	SE	6
„ 22	.08	.02	.08	67	69	68	70	63	S	5	S	4	S	4
„ 23	.18	.15	.14	63	61	59	68	57	E	4	E	4	E	4
„ 24	.19	.13	.16	59	65	64	65	57	E	4	SE	4	SE	4
„ 25	.20	.18	.25	66	64	58	66	57	S	3	S	4	NE	4
„ 26	.35	.30	.28	54	53	51	59	51	ENE	3	NE	3	NE	4
„ 27	.30	.21	.19	55	55	54	55	51	E	5	E	4	SE	5
„ 28	.19	.11	.11	62	58	61	63	54	SE	4	NW	4	NW	4
„ 29	.12	.06	.09	60	61	59	65	58	NW	4	NW	3	NE	3
„ 30	.12	.02	.03	57	57	57	59	56	E	5	E	5	E	5
„ 31	.06	.00	.02	65	65	67	67	57	SSE	4	S	4	S	4
Mean,	28.247	28.180	28.193	60.8	61.5	60.2	63.7	57.3	E 32° S	4.2	E 42° S	3.9	E 34° S	4.1

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name	Direction	Amount.	Name.	Direction
1889.												
March 1, ...	10	cum.	E	10	nim.	...	10	cum.	E	10	str-cum.	E
„ 2, ...	10	nim.	...	10	nim.	...	10	str.	...	10	str.	...
„ 3, ...	10	nim.	...	10	cum-nim.	...	10	str.	...	10	str.	ESE
„ 4, ...	10	nim.	...	10	nim.	...	10	nim.	...	10	str-cum.	E
„ 5, ...	10	cum-nim.	...	10	cum-nim.	...	10	str-cum.	E	9	cum. / cum.	S / E
„ 6, ...	10	nim.	...	10	nim.	...	10	str-cum.	S	9	str-cum.	SSW
„ 7, ...	5	cum.	S	10	nim.	...	10	fog.	E	10	str-cum.	E
„ 8, ...	10	nim.	...	10	nim.	...	10	cum.	SSW	9	cum.	SW
„ 9, ...	10	cum.	SW	10	cum-nim.	SW	10	cum.	SW	10	cum.	SW
„ 10, ...	9	cum.	SSW	10	cum.	SW	8	c-str. / cum.	W / SW	9	c-str. / cum.	W / SSW
„ 11, ...	10	cum.	SSW	9	cum.	S	9	cum.	S	9	cum.	S
„ 12, ...	10	cum-nim.	...	10	cum-nim.	...	10	fog.	E	10	str-cum.	E
„ 13, ...	10	nim.	...	10	cum-nim.	...	10	str.	...	10	str.	E
„ 14, ...	10	str-cum.	ESE	10	cum.	E	10	str.	...	10	str.	ESE
„ 15, ...	10	str-cum.	S	10	str-cum.	SSE	10	str-cum.	SSE	10	cum. / cum.	SW / E
„ 16, ...	10	nim.	...	10	nim.	...	10	cum-nim.	E	10	cum-nim.	E
„ 17, ...	10	str-cum.	...	10	cum.	E	10	R-cum.	E	10	R-cum.	E
„ 18, ...	9	cum.	S	10	cum.	S	10	str-cum.	S	10	str-cum.	S
„ 19, ...	10	cum.	S	9	cum.	S	0	...	...	1	sm-cum. / cum.	WNW / SSE
„ 20, ...	9	cum.	...	10	str-cum.	...	10	str.	E	7	sm-cum. / R-cum.	W / E
„ 21, ...	10	cum.	S	9	cum.	S	10	str-cum.	S	9	cum. / R-cum.	SSW / ESE
„ 22, ...	10	R-cum.	...	10	str-cum.	...	10	nim.	S	10	R-cum.	S
„ 23, ...	10	cum.	...	10	cum.	S	9	str-cum.	W	9	str-cum.	W
„ 24, ...	10	cum.	...	10	str-cum.	...	10	R-cum.	S	9	sm-cum. / cum.	W / S
„ 25, ...	10	str-cum.	...	10	str-cum.	...	10	str.	W	4	c-str. / cum.	W / W
„ 26, ...	10	nim.	...	10	nim.	...	10	str.	NE	10	str.	ENE
„ 27, ...	10	cum.	...	10	cum.	...	4	cum.	E	5	cum.	E
„ 28, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	SE	8	sm-cum. / cum.	WSW / SSE
„ 29, ...	10	str-cum.	S	10	str-cum.	...	10	R-cum.	W	10	str-cum.	WSW
„ 30, ...	10	nim.	...	10	nim.	...	9	sm-cum. / cum.	W / E	10	nim.	E
„ 31, ...	10	nim.	...	10	nim.	...	8	sm-cum. / cum.	W / E	10	sm-cum. / cum.	S
Mean, ...	9.7	...	...	9.9	...	...	9.3	...	...	8.9	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
March 1,...	9	cum. / cum.	W / SE	10	R-cum.	SE	10	str-cum.	...	10	cum-nim.	...	9.9
„ 2,...	10	str.	...	10	str.	...	10	str.	...	10	nim.	...	10.0
„ 3,...	10	R-cum.	S	10	str-cum.	S	10	str.	...	10	nim.	...	10.0
„ 4,...	10	str-cum.	E	10	str-cum.	E	10	str-cum.	...	10	str.	...	10.0
„ 5,...	10	cum. / cum.	SW / E	10	cum. / cum.	S / E	10	str.	...	10	str.	...	9.9
„ 6,...	10	str-cum.	SSW	9	sm-cum. / cum.	ESE	9	cum.	W	10	str.	...	9.6
„ 7,...	10	str.	...	10	str.	...	10	str.	...	10	str.	...	9.4
„ 8,...	8	cum.	SSW	10	cum.	SSW	10	cum.	SSW	10	cum.	SSW	9.6
„ 9,...	10	cum.	SW	10	cum.	SW	10	cum.	SW	9	cum.	SW	9.9
„ 10,...	9	c-str. / cum.	W / SSW	8	cum.	SSW	10	cum. / fog.	SSW / ..	9	cum.	SSW	9.0
„ 11,...	10	str-cum.	S	10	str-cum.	E	10	str.	...	10	str.	...	9.6
„ 12,...	10	c-str. / cum.	E	10	str-cum. / fog.	E	10	nim.	...	10	nim.	S	10.0
„ 13,...	10	str-cum.	E	10	str-cum.	E	10	str.	...	10	str-cum.	ESE	10.0
„ 14,...	10	R-cum.	ESE	10	str-cum.	SSE	10	cum.	SSE	10	cum.	S	10.0
„ 15,...	10	str-cum.	SW	10	str.	...	10	nim.	...	10	nim.	...	10.0
„ 16,...	10	str.	...	10	str.	...	10	str.	...	10	str.	...	10.0
„ 17,...	10	R-cum.	E	1	sm-cum. / cum.	W / E	4	sm-cum.	W	7	sm-cum. / cum.	W / ESE	7.7
„ 18,...	10	str-cum.	S	10	cum.	S	10	R-cum.	...	10	cum.	SSE	9.9
„ 19,...	0	...	...	2	sm-cum. / cum.	...	1	c-str. / cum	WNW / ..	3	sm-cum.	WNW	3.3
„ 20,...	10	sm-cum. / cum.	W / E	10	str-cum.	...	10	str-cum.	SE	10	str-cum.	SSE	9.5
„ 21,...	10	cum.	ESE	9	cum.	SE	10	R-cum.	SSE	10	str-cum.	...	9.6
„ 22,...	10	R-cum.	SSW	10	cum.	SW	10	str-cum.	SW	10	str.	...	10.0
„ 23,...	1	sm-cum.	W	10	R-cum.	WSW	10	str-cum.	...	10	cum-nim.	...	8.6
„ 24,...	10	sm-cum. / str-cum.	W / S	8	c-str. / cum.	W / SE	10	str-cum.	...	10	str.	...	9.6
„ 25,...	10	nim.	ENE	10	nim.	...	10	cum-nim.	...	10	nim.	...	9.2
„ 26,...	10	str.	E	10	str.	E	10	str.	...	10	str.	...	10.0
„ 27,...	9	sm-cum. / cum.	S / E	8	cum.	ESE	8	cum.	E	10	cum.	...	8.0
„ 28,...	10	nim.	...	10	nim.	W	10	nim.	...	10	cum-nim.	...	9.8
„ 29,...	10	str-cum.	WSW	10	str.	WSW	10	nim.	...	10	cum-nim.	...	10.0
„ 30,...	10	cum-nim.	E	10	nim.	E	10	nim.	...	10	nim.	...	9.9
„ 31,...	9	sm-cum. / cum.	W / SSW	10	cum. / R-cum.	S / E	10	R-cum.	ESE	10	cum-nim.	...	9.6
Mean,...	9.2	...	...	9.2	...	...	9.4	...	...	9.6	...	...	9.4

HONGKONG OBSERVATORY.

Weather Report for April, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 15th, 23rd and 26th.

Lunar halo: on the 20th.

Lunar corona: on the 9th, 12th and 20th.

Thick fog: on the 1st, 4th and 8th.

Fog: on the 9th.

Slight fog: on the 3rd, 7th, 10th, 11th, 12th, 13th, 14th, 15th, 17th, 18th, 25th, 26th and 27th.

Unusual Visibility: on the 25th.

Dew: on the 12th, 18th and 25th.

Lightning without thunder: on the 28th.

Thunder without lightning: on the 4th.

Thunderstorms: on the 2nd, 1.45 p.—2.45 p. in S and W, nearest at 2.15 p. (7s.). During this storm a Chinese revenue cruiser lying off Stone Cutters' Island was struck by lightning. On the 5th, 3 p.—7 p. passing from W to E, nearest at 3.52 p. (2s.) and at 5.10 p. (5s.). On the 6th, 3.30 a.—10 a. passing from W to E nearest at 6.26 a. (16s.). On the 21st, 6.10 p.—10.30 p. in SW and SE, nearest at 7.40 p. (13s.). On the 29th, 2.30 p.—midnight a succession of severe storms coming from SW and passing towards E., nearest at 3.36 p. (3s. SSW), at 5.15 p. (5s.), at 6.32 p. (3s. S.), at 11.44 p. (4s. NW). About 7.15 p. a house in Seymour Terrace, Hongkong, was struck by lightning. On the 30th, 4.30 a.—3 p. succession of storms from SW passing towards E, nearest at 5.15 a. (6s.), at 7.54 a. (5s.), at 9.45 a. (10s.), at 1.33 p. (7s.), at 2.30 p. (8s.).

The Total Distance traversed by, as well as the Duration and average velocity of winds from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	128	15	8.5
NE	607	47	12.9
E	10255	543	18.9
SE	313	30	10.4
S	56	12	4.7
SW	43	7	6.2
W	228	27	8.4
NW	138	18	7.7
Calm	13	21	0.6

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF APRIL, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
April 1,...	29.753	29.738	29.715	29.711	29.723	29.741	29.758	29.771	29.777	29.772	29.775	29.770	29.745	29.718	29.709	29.704	29.712	29.733	29.751	29.778	29.794	29.800	29.807	29.800	29.752
„ 2,...	.800	.799	.788	.780	.794	.814	.835	.851	.855	.853	.845	.822	.800	.779	.773	.757	.750	.758	.771	.773	.809	.820	.809	.801	.801
„ 3,...	.786	.758	.746	.752	.749	.770	.793	.817	.822	.821	.811	.803	.768	.747	.724	.721	.726	.755	.767	.802	.810	.828	.838	.835	.781
„ 4,...	.821	.798	.793	.784	.806	.817	.828	.839	.852	.837	.825	.822	.804	.808	.813	.813	.814	.818	.829	.826	.853	.871	.876	.852	.825
„ 5,...	.851	.838	.803	.809	.831	.852	.862	.873	.873	.880	.861	.826	.806	.808	.797	.846	.834	.844	.851	.799	.828	.849	.848	.834	.838
„ 6,...	.825	.823	.812	.816	.794	.828	.828	.832	.902	.889	.879	.861	.852	.834	.817	.807	.815	.828	.861	.890	.880	.880	.875	.875	.846
„ 7,...	.857	.845	.835	.837	.847	.859	.873	.889	.903	.911	.909	.898	.857	.846	.812	.805	.818	.828	.832	.833	.855	.865	.873	.856	.856
„ 8,...	.839	.807	.812	.799	.784	.798	.823	.813	.823	.814	.797	.780	.754	.733	.708	.704	.711	.723	.733	.740	.753	.759	.760	.762	.772
„ 9,...	.753	.736	.730	.721	.740	.751	.785	.797	.810	.811	.804	.791	.762	.749	.726	.724	.727	.738	.760	.775	.793	.804	.807	.802	.767
„ 10,...	.804	.802	.790	.797	.808	.824	.845	.876	.883	.877	.851	.836	.799	.789	.774	.763	.757	.771	.785	.804	.814	.835	.828	.809	.813
„ 11,...	.806	.798	.790	.794	.799	.808	.827	.839	.849	.842	.832	.807	.783	.749	.747	.733	.743	.748	.763	.772	.795	.801	.801	.796	.793
„ 12,...	.794	.776	.771	.772	.786	.799	.823	.846	.856	.861	.853	.839	.797	.773	.753	.753	.746	.772	.789	.809	.828	.850	.865	.845	.807
„ 13,...	.849	.844	.826	.820	.835	.847	.885	.898	.917	.914	.918	.901	.889	.852	.849	.832	.823	.872	.869	.881	.891	.905	.901	.901	.872
„ 14,...	.883	.858	.844	.854	.869	.881	.900	.912	.927	.941	.937	.905	.882	.858	.845	.843	.846	.859	.866	.883	.887	.903	.904	.897	.883
„ 15,...	.888	.871	.858	.853	.855	.868	.893	.913	.925	.938	.927	.910	.889	.870	.855	.840	.846	.860	.887	.898	.906	.918	.907	.913	.887
„ 16,...	.899	.885	.883	.887	.901	.922	.939	.951	.958	.952	.937	.918	.911	.878	.861	.854	.854	.851	.868	.880	.894	.907	.900	.894	.899
„ 17,...	.889	.875	.867	.879	.895	.910	.934	.949	.963	.975	.978	.952	.939	.920	.893	.884	.879	.880	.887	.908	.916	.934	.918	.903	.914
„ 18,...	.892	.876	.868	.875	.884	.895	.911	.930	.943	.944	.939	.915	.885	.844	.831	.811	.796	.791	.804	.818	.844	.860	.862	.856	.870
„ 19,...	.840	.842	.836	.833	.857	.873	.900	.891	.902	.928	.913	.903	.875	.873	.863	.857	.848	.859	.876	.886	.908	.934	.938	.941	.882
„ 20,...	.941	.931	.927	.935	.941	.956	.960	.965	.979	.980	.968	.956	.946	.930	.920	.903	.902	.902	.910	.925	.944	.953	.941	.919	.939
„ 21,...	.893	.877	.859	.853	.868	.880	.878	.897	.902	.881	.873	.867	.837	.807	.798	.812	.832	.855	.849	.873	.875	.869	.855	.856	.860
„ 22,...	.846	.842	.846	.842	.847	.863	.875	.888	.909	.910	.912	.903	.890	.866	.856	.858	.863	.876	.898	.917	.942	.948	.957	.953	.888
„ 23,...	.939	.923	.902	.912	.923	.935	.952	.961	.988	.989	.985	.968	.945	.925	.919	.908	.906	.912	.922	.948	.959	.967	.981	.953	.943
„ 24,...	.942	.911	.905	.903	.911	.919	.922	.927	.939	.945	.938	.924	.900	.863	.847	.824	.818	.835	.838	.845	.846	.845	.838	.814	.883
„ 25,...	.793	.784	.754	.747	.752	.760	.769	.788	.797	.791	.780	.753	.721	.695	.675	.676	.677	.681	.700	.715	.738	.747	.751	.742	.741
„ 26,...	.731	.716	.703	.700	.705	.728	.753	.775	.772	.769	.768	.747	.716	.694	.675	.658	.658	.673	.700	.724	.743	.743	.725	.715	.720
„ 27,...	.698	.690	.665	.656	.657	.673	.693	.708	.730	.735	.730	.703	.686	.652	.628	.604	.613	.642	.653	.671	.693	.691	.688	.676	.676
„ 28,...	.672	.653	.649	.653	.654	.670	.673	.685	.690	.698	.704	.698	.654	.631	.615	.606	.615	.639	.655	.689	.699	.701	.700	.693	.666
„ 29,...	.681	.655	.658	.654	.657	.674	.699	.716	.723	.735	.742	.724	.699	.673	.648	.652	.643	.677	.653	.671	.700	.707	.717	.699	.686
„ 30,...	.684	.686	.672	.670	.713	.688	.702	.739	.748	.738	.724	.711	.747	.735	.700	.661	.650	.663	.681	.701	.717	.739	.742	.738	.706
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	29.822	29.808	29.797	29.797	29.806	29.820	29.837	29.851	29.864	29.864	29.857	29.840	29.818	29.797	29.781	29.774	29.774	29.788	29.800	29.814	29.830	29.841	29.840	29.831	29.819

TABLE II.

TEMPERATURE FOR THE MONTH OF APRIL, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
April 1,	64.3	64.8	65.2	65.1	65.0	65.3	65.7	66.7	66.2	69.3	72.4	70.8	71.6	71.8	71.5	69.8	68.5	67.5	67.4	67.1	67.4	66.9	66.9	66.9	67.7	72.4	64.1
„ 2,	66.8	66.7	66.7	66.7	65.8	65.7	65.6	65.0	64.6	63.9	63.8	63.3	62.6	62.6	62.1	61.8	61.8	62.1	62.0	62.1	62.4	62.3	62.2	62.2	63.8	66.9	61.8
„ 3,	62.3	62.3	62.3	62.2	62.5	62.6	62.6	63.0	63.1	63.4	63.8	64.6	65.0	66.0	66.7	66.1	65.7	65.7	65.7	66.5	66.6	65.9	65.8	65.9	64.4	67.1	62.1
„ 4,	65.8	66.6	66.6	66.8	67.4	67.7	67.9	68.6	68.2	68.6	68.5	68.1	67.8	69.6	68.7	66.8	66.3	65.8	64.6	63.7	63.5	63.2	62.7	62.6	66.5	69.8	62.6
„ 5,	62.7	62.6	62.4	62.3	62.5	62.5	62.8	62.8	63.7	64.6	65.3	65.2	65.3	64.8	64.8	64.8	65.1	65.2	65.5	65.8	67.6	67.8	67.4	67.3	64.6	67.8	62.2
„ 6,	66.8	66.6	66.3	66.4	66.8	67.0	66.9	66.8	66.0	66.6	66.8	68.2	68.9	68.8	68.5	69.0	68.9	68.1	67.8	67.8	67.8	67.5	67.4	67.7	67.5	69.7	66.0
„ 7,	67.2	68.4	68.2	68.3	68.6	68.9	69.6	70.7	71.1	71.4	70.5	67.0	67.6	66.8	65.6	65.8	65.9	66.6	65.8	64.8	64.3	64.5	63.7	63.1	67.3	71.4	63.1
„ 8,	63.0	62.7	62.7	62.7	62.8	63.1	63.5	63.8	64.3	64.5	65.7	66.5	66.9	66.5	66.7	66.7	66.5	66.7	67.1	66.9	67.0	67.8	68.4	68.6	65.5	68.6	62.6
„ 9,	68.0	68.2	68.2	68.5	68.5	68.4	67.9	68.8	68.9	68.9	70.1	69.4	70.1	70.8	69.8	70.8	68.6	68.7	68.5	68.2	68.0	66.8	66.2	65.5	68.6	70.9	65.5
„ 10,	65.5	65.6	65.5	65.4	65.6	66.0	66.0	66.0	66.3	66.6	68.1	68.4	68.6	66.8	67.7	66.9	66.8	67.0	67.2	67.9	68.5	68.1	68.1	68.2	66.9	68.9	65.4
„ 11,	67.8	67.8	67.9	68.0	68.3	68.5	68.8	69.3	70.0	70.0	71.3	74.2	79.8	75.8	75.9	78.8	74.2	73.7	72.6	72.8	72.8	72.7	72.6	72.6	71.9	79.8	67.6
„ 12,	72.5	72.6	72.6	72.1	71.5	71.6	71.4	72.3	72.9	73.8	74.6	74.5	74.4	73.8	76.6	73.8	77.8	73.9	74.0	74.0	73.0	71.4	71.6	72.1	73.3	77.8	71.3
„ 13,	69.4	67.3	65.7	64.8	64.4	64.4	64.9	65.1	65.5	65.3	65.0	64.8	64.1	64.0	64.0	65.2	65.8	66.1	66.1	66.6	66.2	65.8	65.3	64.7	65.4	72.3	64.0
„ 14,	64.5	64.4	64.2	64.0	63.9	63.5	63.9	65.2	66.0	66.8	67.6	68.9	68.0	69.5	69.4	68.1	68.2	67.5	67.3	67.7	68.0	67.8	67.9	68.0	66.7	69.7	63.5
„ 15,	68.0	68.2	68.3	68.6	68.7	68.4	68.7	69.2	70.2	71.9	72.8	73.8	74.0	74.0	73.7	72.8	71.8	70.9	69.9	69.8	70.3	70.6	70.9	70.3	70.7	74.0	67.9
„ 16,	69.9	70.1	70.1	70.2	70.3	70.4	70.9	71.2	71.5	70.8	71.5	72.7	72.5	74.9	74.1	72.9	72.9	72.3	71.4	71.6	71.4	70.7	70.4	70.5	71.5	75.5	69.7
„ 17,	70.4	70.2	69.7	68.8	68.6	67.8	67.7	67.9	68.2	69.5	69.9	70.9	72.6	72.7	72.7	73.1	73.2	71.7	70.7	71.0	70.9	70.7	70.4	70.1	70.4	73.4	67.6
„ 18,	69.5	69.1	69.2	69.5	69.7	69.5	69.9	71.1	72.8	73.8	75.4	74.9	75.0	75.2	73.9	73.9	72.8	70.9	70.7	70.5	70.4	70.7	71.2	71.6	71.7	75.4	69.0
„ 19,	71.4	71.2	71.3	71.7	71.4	71.7	70.2	71.4	73.4	73.8	71.9	71.5	73.6	73.3	72.9	72.9	71.8	71.7	70.2	69.3	68.8	67.6	66.6	65.6	71.1	73.8	65.6
„ 20,	64.7	64.4	64.5	64.7	64.8	65.2	65.9	66.8	67.7	68.9	69.8	68.8	69.9	69.8	69.8	68.4	68.2	67.9	67.9	68.1	68.1	68.0	67.5	67.1	67.4	70.4	64.1
„ 21,	66.8	66.4	66.2	66.1	66.2	66.4	66.9	67.5	67.9	68.3	69.1	68.0	68.8	67.6	67.6	67.2	64.9	63.3	61.9	63.9	63.4	63.7	64.0	64.4	66.1	69.2	61.8
„ 22,	64.4	64.3	64.6	64.3	64.2	64.3	64.9	66.3	67.6	68.9	70.7	72.4	72.1	71.7	71.9	73.0	70.4	69.8	68.7	68.2	67.9	67.9	68.0	68.1	68.1	73.0	64.2
„ 23,	67.8	67.4	67.3	67.6	67.2	67.4	68.0	69.2	71.6	72.4	73.0	72.7	73.2	74.1	73.1	72.9	72.8	71.0	70.6	70.2	69.7	69.6	69.4	69.0	70.3	74.1	67.1
„ 24,	69.2	68.8	68.6	69.1	69.4	69.6	70.4	71.0	71.8	71.2	70.8	69.8	68.2	68.8	68.1	67.6	66.7	66.8	66.2	66.0	66.9	66.1	66.1	65.6	68.4	71.8	65.5
„ 25,	65.4	65.0	65.6	65.5	65.4	65.6	66.7	68.4	70.6	72.7	72.2	72.7	74.5	75.4	76.2	75.0	74.5	72.7	71.2	70.7	69.7	69.4	68.8	68.6	70.1	77.0	64.9
„ 26,	68.8	69.3	69.3	69.7	70.1	70.1	71.4	73.8	75.8	77.7	80.2	80.4	80.7	81.3	77.8	78.6	75.8	75.9	75.0	74.7	74.7	74.7	74.4	74.3	74.8	81.3	68.5
„ 27,	74.2	74.1	73.9	72.9	72.4	72.5	74.4	76.6	75.4	79.6	77.8	77.0	79.5	78.7	76.7	75.8	75.2	74.9	75.8	76.2	76.8	75.7	74.4	75.8	75.7	79.7	72.3
„ 28,	75.8	74.3	74.3	74.4	74.0	74.2	75.9	77.7	77.8	77.7	77.6	78.5	78.4	77.6	77.3	77.5	76.6	75.6	75.7	75.7	74.6	75.4	74.8	74.6	76.1	78.5	73.8
„ 29,	74.3	74.2	74.5	74.9	75.2	74.8	75.4	75.8	76.8	76.7	78.4	78.0	78.6	76.9	74.9	74.6	72.1	72.6	72.1	72.7	72.7	72.9	72.9	72.6	74.8	78.8	72.0
„ 30,	73.1	73.1	73.3	73.3	72.7	71.4	71.8	70.9	71.4	72.0	72.6	73.2	71.7	71.0	71.9	74.6	73.6	72.7	72.7	72.9	72.8	73.6	73.5	73.8	72.7	74.6	70.9
.....	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means,	68.0	67.9	67.8	67.8	67.8	67.8	68.2	69.0	69.6	70.3	70.9	71.0	71.5	71.4	71.0	70.8	70.1	69.5	69.1	69.1	69.1	68.9	68.7	68.6	69.3	73.1	66.2

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF APRIL, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means	Solar Max.
April 1,...	63.6	64.1	64.6	64.4	64.4	64.8	65.1	66.2	65.7	68.4	71.3	70.2	71.1	71.7	71.5	69.8	68.0	67.2	67.1	66.8	66.9	66.8	66.8	66.8	67.2	85.9
„ 2,...	66.7	66.3	66.3	66.1	65.3	65.0	64.8	64.3	63.9	63.0	63.0	62.3	61.9	61.4	61.1	60.9	60.9	60.8	60.9	61.2	61.2	61.7	61.6	61.6	63.0	80.9
„ 3,...	61.7	61.7	61.6	61.5	61.8	61.9	61.9	62.0	62.4	62.7	62.9	63.3	63.9	64.8	65.2	65.2	65.0	65.1	65.2	65.9	65.9	65.8	65.6	65.9	63.7	107.3
„ 4,...	65.5	66.5	66.4	66.7	67.4	67.7	67.9	68.3	68.2	68.5	68.3	68.0	67.7	68.8	68.5	66.2	65.8	64.9	63.9	63.2	62.6	62.4	62.5	62.5	66.2	98.4
„ 5,...	62.7	62.5	62.3	62.1	62.3	62.2	62.4	62.2	62.6	63.1	63.7	63.3	63.5	63.4	63.7	64.7	64.9	64.9	64.9	65.0	66.6	66.9	66.5	66.5	63.9	120.8
„ 6,...	66.3	66.1	65.7	66.0	66.2	66.5	66.5	66.5	65.9	66.0	66.2	67.6	67.9	67.9	67.5	67.8	67.4	66.9	66.8	66.7	66.6	66.5	66.4	66.5	66.7	113.9
„ 7,...	66.0	66.3	65.8	65.8	65.5	65.7	66.1	66.6	66.8	68.0	68.1	65.6	65.8	66.1	64.0	63.7	64.9	65.3	64.9	64.0	63.9	63.8	63.0	62.4	65.3	114.0
„ 8,...	62.2	61.9	61.9	61.8	61.9	62.4	62.7	62.9	63.5	64.0	64.7	65.3	65.7	65.2	65.8	65.9	65.9	66.0	66.2	66.1	66.3	67.0	68.0	68.1	64.6	109.6
„ 9,...	67.6	68.0	67.9	68.2	68.2	68.1	67.9	68.7	68.9	68.9	69.5	69.0	69.5	69.8	69.1	69.3	68.0	68.1	68.0	67.9	67.8	66.7	65.9	65.3	68.2	122.6
„ 10,...	65.3	65.6	65.5	65.3	65.5	65.9	65.9	65.8	66.0	66.1	67.1	67.2	67.8	66.5	66.9	66.8	66.7	66.9	66.9	67.6	67.8	67.6	67.7	67.8	66.6	113.5
„ 11,...	67.5	67.6	67.6	67.9	68.1	68.3	68.5	68.9	69.3	69.5	70.2	72.0	74.9	72.9	72.9	74.2	72.6	72.2	71.9	72.2	72.6	72.2	72.2	72.2	70.8	128.6
„ 12,...	72.1	72.1	72.1	71.6	71.0	71.2	71.1	71.9	72.0	72.7	73.2	73.5	73.7	72.9	74.2	73.0	73.8	73.2	73.2	72.7	72.6	71.0	71.3	70.9	72.4	127.5
„ 13,...	68.5	66.5	64.9	64.1	63.6	63.3	63.5	63.6	63.9	64.0	64.3	64.1	63.6	63.7	63.1	63.0	63.6	63.9	64.0	64.8	64.5	63.9	63.6	63.6	64.1	91.2
„ 14,...	63.4	63.6	63.4	63.2	63.1	63.0	63.5	64.6	64.9	65.0	65.9	66.6	66.2	67.0	67.0	66.7	66.9	66.4	66.8	67.1	67.4	67.6	67.8	67.9	65.6	132.2
„ 15,...	67.9	68.0	68.0	68.2	68.1	67.8	68.0	68.4	69.0	70.0	70.1	70.9	70.9	70.9	70.5	70.2	69.8	69.4	69.0	69.4	69.9	69.9	70.2	69.8	69.3	139.0
„ 16,...	69.3	69.6	69.4	69.5	69.5	69.6	69.8	69.9	69.8	68.8	69.1	69.7	69.6	70.6	70.1	69.6	69.4	69.3	68.9	68.9	68.8	68.9	69.2	69.8	69.5	134.3
„ 17,...	69.6	69.6	69.0	68.3	67.9	67.5	67.4	67.6	67.8	68.0	67.8	67.8	68.1	68.1	68.2	68.6	68.9	67.9	67.9	68.7	68.8	69.0	68.9	68.6	68.3	131.2
„ 18,...	68.2	68.1	68.3	68.4	68.8	68.5	68.8	68.4	68.7	69.7	70.3	70.3	70.7	70.2	70.1	70.4	70.6	70.1	69.9	69.9	69.9	69.9	70.1	70.1	69.5	132.8
„ 19,...	69.7	69.5	69.3	69.5	69.3	69.6	69.0	69.0	69.9	69.9	68.2	68.2	68.8	68.9	67.9	67.8	67.4	66.0	64.7	62.2	61.2	59.4	57.5	57.1	66.7	132.1
„ 20,...	57.6	57.7	57.6	57.3	58.0	57.7	59.2	59.4	60.2	61.0	62.9	62.1	63.0	63.0	63.9	63.0	62.4	61.9	61.9	62.0	61.9	60.9	60.9	60.5	60.7	127.9
„ 21,...	59.0	58.3	57.1	55.9	56.5	55.4	55.7	56.0	56.4	58.0	59.7	58.7	59.9	60.3	60.3	59.2	59.9	60.0	61.0	62.3	62.5	62.1	62.4	62.4	59.1	134.0
„ 22,...	62.2	62.0	62.2	61.9	61.7	61.9	62.1	62.6	63.0	63.5	64.9	66.2	65.2	64.8	66.0	66.0	64.9	64.7	64.1	64.9	64.7	64.9	65.3	65.0	63.9	143.1
„ 23,...	64.9	64.6	63.7	62.4	62.4	63.2	63.9	63.8	63.4	62.9	64.0	63.0	61.4	61.1	61.3	62.5	63.6	63.8	64.1	64.0	64.7	64.7	64.7	64.3	63.4	131.8
„ 24,...	65.0	64.2	64.2	63.9	64.1	63.8	63.6	63.2	62.1	61.2	61.1	60.9	60.6	60.0	61.1	62.0	62.4	62.9	63.1	62.9	63.0	63.2	63.4	63.4	62.7	95.9
„ 25,...	63.5	63.1	63.9	64.0	64.2	64.8	65.8	66.6	67.9	69.4	68.9	69.0	69.1	69.8	70.1	70.1	69.9	68.9	68.2	68.2	67.9	67.9	67.6	67.5	67.3	142.1
„ 26,...	67.9	68.1	68.2	68.3	69.0	69.1	70.1	70.6	71.2	72.1	73.3	72.4	73.0	73.0	72.7	72.6	72.6	72.6	70.9	71.1	71.2	72.3	72.7	72.6	71.2	139.1
„ 27,...	72.2	72.4	72.1	71.3	70.9	71.2	72.6	73.9	73.1	75.5	74.2	74.1	74.9	74.8	74.0	74.0	73.9	73.9	74.5	74.9	73.9	73.9	73.4	72.4	73.4	137.4
„ 28,...	72.6	72.0	72.1	72.0	71.9	72.6	73.2	73.7	73.1	73.2	73.5	74.6	73.9	73.8	73.5	73.8	73.9	73.9	74.0	74.1	73.7	74.0	73.4	72.9	73.3	136.4
„ 29,...	72.9	72.9	72.8	73.4	73.5	73.6	73.9	74.4	74.8	74.7	75.6	75.5	75.7	75.0	74.8	73.8	71.3	71.4	70.9	71.3	71.7	71.8	71.8	71.7	73.3	140.2
„ 30,...	72.0	71.9	71.9	71.7	70.8	69.6	69.5	69.9	70.7	71.2	70.9	71.6	71.0	70.2	70.0	72.0	70.9	71.2	70.9	71.2	71.7	72.0	72.0	72.3	71.1	98.0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Mean ...	66.5	66.4	66.2	66.0	66.0	66.1	66.3	66.7	66.8	67.3	67.8	67.8	68.0	67.9	67.8	67.8	67.5	67.3	67.2	67.2	67.3	67.2	67.1	66.9	67.0	121.2

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF APRIL, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	92	0.636	April 1,.....	97	0.661
2 „	92	.634	„ 2,.....	96	.566
3 „	92	.628	„ 3,.....	96	.582
4 „	91	.621	„ 4,.....	98	.641
5 „	91	.621	„ 5,.....	96	.586
6 „	91	.624	„ 6,.....	96	.645
7 „	90	.626	„ 7,.....	89	.599
8 „	88	.629	„ 8,.....	95	.598
9 „	86	.625	„ 9,.....	98	.686
10 „	85	.634	„ 10,.....	98	.650
11 „	85	.644	„ 11,.....	95	.741
Noon.	84	.643	„ 12,.....	96	.785
1 p	83	.643	„ 13,.....	93	.583
2 „	83	.641	„ 14,.....	94	.617
3 „	84	.643	„ 15,.....	93	.699
4 „	85	.645	„ 16,.....	90	.695
5 „	87	.644	„ 17,.....	90	.666
6 „	89	.645	„ 18,.....	89	.693
7 „	90	.646	„ 19,.....	78	.597
8 „	90	.646	„ 20,.....	66	.443
9 „	91	.650	„ 21,.....	64	.410
10 „	91	.649	„ 22,.....	78	.539
11 „	92	.648	„ 23,.....	66	.494
Midt.	91	.642	„ 24,.....	71	.495
			„ 25,.....	86	.633
			„ 26,.....	83	.717
			„ 27,.....	89	.794
			„ 28,.....	87	.784
			29,.....	93	.801
			30,.....	92	.741
			.....	...	...
Mean,.....	88	0.638	Mean.	88	0.638

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
April 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,.....	...	...	...	...	...	...	...	...	0.1	...	...	...	...	0.1
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	...	...	0.1	...	...	...	...	...	...	...	0.1
„ 6, ...	...	...	...	...	...	...	...	...	...	0.4	...	...	..	0.4
„ 7,.....	...	0.1	0.1	...	0.1	0.1	...	...	...	...	...	...	...	0.4
„ 8,.....	...	...	...	...	0.1	0.6	0.1	...	...	...	...	...	...	0.8
„ 9,.....	...	...	...	...	...	...	...	0.1	0.4	0.1	...	...	...	0.6
„ 10,.....	...	...	...	...	...	0.1	0.3	0.2	...	...	...	...	...	0.6
„ 11,.....	...	...	0.1	0.3	...	0.6	0.9	0.8	0.8	0.9	0.3	...	...	4.7
„ 12,.....	...	...	0.3	0.9	0.5	0.9	0.8	0.8	0.9	1.0	0.3	0.1	...	6.5
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	0.2	0.2	0.4	0.5	...	...	...	1.3
„ 15,.....	...	...	...	0.4	1.0	1.0	1.0	0.9	0.7	1.0	1.0	0.6	...	7.6
„ 16,.....	..	...	...	...	...	0.3	0.3	0.9	0.4	0.2	0.2	0.2	0.1	2.6
„ 17,.....	...	...	...	...	...	...	0.1	0.1	0.7	0.6	0.1	0.6	...	2.2
„ 18,.....	...	0.1	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	9.6
„ 19,.....	..	...	...	0.3	0.4	...	...	...	...	...	...	...	...	0.7
„ 20,.....	...	...	0.1	0.1	0.7	0.2	0.2	0.2	...	...	...	...	...	1.5
„ 21,.....	...	...	...	...	0.9	0.2	...	...	...	...	...	...	...	1.1
„ 22,.....	...	...	0.2	0.5	1.0	0.7	1.0	0.3	1.0	1.0	1.0	...	0.1	6.8
„ 23,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.3	0.1	0.7	...	8.4
„ 24,.....	...	0.1	...	...	...	...	...	...	...	...	...	...	...	0.1
„ 25,.....	...	...	0.2	0.1	0.4	0.9	0.9	1.0	1.0	0.8	0.1	0.4	...	5.8
„ 26,.....	...	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	9.6
„ 27,.....	0.2	0.7	1.0	1.0	0.8	0.6	1.0	0.6	...	...	...	...	...	5.9
„ 28,.....	...	0.6	1.0	...	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.1	7.9
„ 29,.....	...	...	0.1	0.1	0.2	0.5	...	0.5	...	...	...	...	...	1.4
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	0.2	2.1	5.0	6.7	9.1	10.0	10.8	10.6	10.2	9.8	6.1	5.6	0.5	86.7

TABLE VI.

RAINFALL FOR THE MONTH OF APRIL, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
April 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	0.005	0.035	0.005	...	...	0.010	...	...	0.005	0.065	8	0.32
„ 2,.....	0.025	0.010	0.010	...	...	...	...	...	...	...	...	...	...	0.635	0.245	...	...	...	...	...	...	...	...	...	0.925	10	1.05
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.025	0.040	3	...
„ 5,.....	0.020	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	0.850	0.160	0.170	0.240	0.010	...	...	...	...	1.460	8	2.46
„ 6,.....	...	...	...	...	0.035	0.100	0.130	0.135	0.290	0.260	0.065	...	...	...	...	...	...	...	...	...	...	...	...	...	1.015	8	0.34
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.025	0.030	0.015	0.085	5	...
„ 8,.....	0.010	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	0.025	6	...
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	0.015	0.010	0.005	...	...	...	...	...	...	...	...	...	...	0.030	3	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	2	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.34
„ 19,.....	...	...	...	...	...	0.010	0.205	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.220	2	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.060	0.130	0.520	0.235	0.230	0.070	0.050	...	1.295	6	1.64
„ 22,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.025	...	...	...	...	...	...	0.035	2	0.12
„ 25,.....	...	0.005	0.005	0.020	0.040	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.070	4	...
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	...	...	0.015	1	...
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,.....	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	0.900	0.750	0.750	0.185	0.225	0.010	0.005	...	...	0.555	3.385	8	6.84
„ 30,.....	...	...	...	...	0.370	0.060	...	0.350	1.260	0.085	...	...	1.345	0.105	0.020	...	...	...	...	...	...	...	...	...	3.595	8	1.46
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.055	0.030	0.020	0.020	0.445	0.175	0.345	0.490	1.550	0.345	0.065	0.015	1.360	0.745	1.165	1.605	1.015	0.515	0.990	0.255	0.260	0.110	0.095	0.600	12.270	88	14.57

The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF APRIL, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
April 1,	6	17	6	14	5	13	7	12	8	11	7	10	6	7	6	5	8	5	8	3	30	4	...	1	2	4	27	6	28	10	28	11	24	8	24	6	23	5	24	6	25	2	...	1	31	3	...	0	164	6.8	3
" 2,	6	3	7	5	8	11	9	24	8	26	9	29	8	30	8	29	8	28	7	26	7	29	7	29	7	32	7	31	7	34	7	31	7	31	7	34	7	31	7	33	7	32	7	30	7	27	8	32	647	27.0	7
" 3,	8	31	9	37	8	32	8	30	7	30	7	29	7	30	9	31	8	29	8	29	8	29	7	23	7	19	6	20	7	21	7	19	7	19	7	22	7	22	8	24	8	25	7	27	7	19	6	17	614	25.6	8
" 4,	7	17	8	20	7	19	7	16	8	17	8	18	8	20	7	17	8	19	7	19	7	19	7	19	8	13	7	17	7	21	8	23	8	30	8	35	7	34	7	37	7	32	7	29	8	30	7	25	546	22.7	7
" 5,	7	26	7	25	8	30	8	26	9	28	8	28	9	28	8	29	9	30	8	30	8	27	8	27	8	26	8	25	8	25	8	12	6	7	7	12	9	28	8	36	7	22	6	17	7	12	7	15	571	23.8	8
" 6,	8	18	8	14	8	14	9	19	9	13	9	14	8	17	9	21	9	14	8	21	7	22	8	20	7	13	7	15	7	12	8	17	8	12	7	14	8	14	8	15	7	12	8	15	8	12	10	12	370	15.4	8
" 7,	9	10	9	13	6	5	7	5	9	12	10	13	10	17	9	18	10	17	8	16	8	21	7	25	7	29	7	31	7	30	7	29	6	25	6	28	7	27	6	33	7	28	7	29	7	27	7	27	515	21.5	7
" 8,	7	27	7	28	7	27	7	23	8	26	7	23	8	21	7	23	8	25	7	21	7	24	7	22	7	24	8	27	7	26	8	26	8	25	7	25	7	25	7	23	7	20	7	19	6	18	5	16	564	23.5	7
" 9,	7	13	6	11	6	13	6	16	6	14	6	15	7	17	7	18	7	15	7	14	5	14	6	14	7	14	7	16	7	16	7	16	7	18	8	16	7	16	7	20	7	20	8	25	8	29	8	27	407	17.0	7
" 10,	8	26	8	28	8	26	8	29	9	28	9	29	8	28	8	25	8	26	7	23	7	22	7	25	7	26	8	29	7	25	7	25	7	23	7	22	7	19	6	19	6	19	7	18	7	19	7	18	577	24.0	7
" 11,	7	19	8	22	7	20	7	20	7	19	8	22	7	21	7	18	7	17	7	14	7	15	12	9	11	8	7	7	12	4	15	7	9	6	8	6	6	9	6	9	5	10	6	8	5	9	6	8	307	12.8	7
" 12,	6	9	6	8	6	9	6	8	7	13	8	17	8	16	8	15	7	16	8	18	8	20	7	15	7	17	7	17	8	12	9	10	14	8	8	6	8	8	7	8	9	12	10	10	9	9	12	16	297	12.4	8
" 13,	7	23	7	27	7	29	7	29	8	33	7	34	7	27	7	25	7	23	7	25	7	21	6	24	7	23	7	32	7	29	7	29	6	26	7	24	7	27	7	25	7	28	7	31	7	28	7	28	653	27.2	7
" 14,	7	27	7	24	7	28	7	25	7	28	7	33	7	33	7	31	7	27	7	27	8	27	8	30	8	29	7	24	8	26	8	29	8	27	8	26	9	27	9	22	9	24	9	20	10	19	9	18	631	26.3	8
" 15,	9	21	8	21	8	21	9	17	8	21	8	20	8	22	8	20	8	20	7	17	7	19	8	20	8	21	8	20	7	20	7	26	8	29	8	25	9	20	8	14	8	12	9	11	7	13	7	14	464	19.3	8
" 16,	7	13	7	13	10	9	9	11	9	8	9	12	10	11	11	10	12	13	10	20	8	17	8	23	9	21	9	22	9	22	8	20	8	19	8	19	8	19	9	15	9	17	8	20	8	18	8	11	383	16.0	9
" 17,	8	10	8	10	8	18	7	19	6	17	6	18	7	18	6	15	7	19	7	13	8	18	9	24	10	22	9	23	8	26	8	18	9	19	8	20	8	17	10	14	9	14	9	13	9	12	7	12	409	17.0	8
" 18,	8	12	7	14	9	9	11	7	11	9	10	11	10	17	9	18	8	15	8	17	9	15	8	18	8	15	8	15	7	12	7	9	7	11	7	15	7	14	7	11	7	10	7	6	7	2	14	4	286	11.9	8
" 19,	24	4	27	3	27	2	28	4	22	5	24	8	21	9	19	4	26	9	26	17	27	18	24	14	22	11	23	18	26	21	26	16	25	15	1	14	2	10	1	12	2	10	2	14	1	13	1	14	265	11.0	27
" 20,	1	6	2	7	1	6	1	11	1	7	2	6	5	8	5	13	5	12	6	11	8	16	9	18	9	16	10	16	10	16	9	18	8	15	7	16	6	19	7	18	6	18	6	23	7	26	7	26	348	14.5	7
" 21,	7	36	7	37	7	35	7	35	6	31	7	32	7	33	6	31	6	33	6	35	6	30	6	26	7	26	7	25	6	22	3	13	12	6	17	3	10	5	8	9	9	6	...	1	6	4	9	14	528	22.0	7
" 22,	8	13	9	10	7	4	8	4	32	2	...	0	6	2	6	9	8	13	7	13	9	9	11	11	10	13	8	12	8	6	32	5	9	4	8	9	8	8	8	9	9	7	9	10	9	9	7	7	189	7.9	8
" 23,	6	8	8	9	8	17	6	18	8	16	6	13	7	15	7	19	7	17	8	24	8	23	8	25	7	22	7	19	7	19	7	14	7	14	7	16	7	12	7	9	8	10	10	11	9	11	9	9	370	15.4	7
" 24,	9	8	9	10	10	8	11	9	11	8	10	9	10	13	10	14	9	17	8	16	9	17	8	14	6	8	7	11	9	14	9	13	10	11	9	5	9	4	8	5	9	5	9	3	...	1	9	3	226	9.4	9
" 25,	29	3	29	3	16	5	...	1	...	1	...	0	...	0	23	2	25	8	24	10	24	12	24	11	23	9	24	10	25	11	22	9	17	5	17	3	17	6	17	4	17	2	...	1	...	1	...	0	117	4.9	23
" 26,	...	0	...	0	17	2	22	4	26	2	...	0	...	1	27	3	29	3	23	4	24	4	24	4	24	5	27	5	8	7	10	4	9	5	32	4	15	3	10	3	6	3	7	4	6	4	9	2	76	3.2	2
" 27,	4	3	5	2	10	2	19	2	...	1	...	1	...	1	11	4	8	11	8	3	8	8	8	12	9	12	8	11	8	17	8	14	8	19	7	15	7	10	8	9	12	6	5	5	7	13	14	19	200	8.3	8
" 28,	13	7	8	6	8	5	6	4	6	2	...	1	6	5	7	7	9	4	8	10	8	15	9	19	9	20	8	24	8	21	7	19	8	25	8	19	10	16	8	17	8	11	8	5	9	9	7	10	281	11.7	8
" 29,	8	14	8	19	7	17	7	16	8	15	9	16	8	16	8	15	8	17	7	16	7	17	8	21	8	20	7	17	9	18	4	13	6	9	7	13	8	17	9	19	8	14	8	23	7	17	8	19	398	16.6	8
" 30,	7	20	7	21	8	22	8	23	30	11	8	17	6	11	10	9	5	10	7	10	7	18	7	16	28	18	26	10	20	12	18	2	7	12	7	18	8	18	7	21	8	21	9	21	8	20	9	17	378	15.8	7
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	...	444	...	461	...	458	...	467	...	454	...	478	...	494	...	498	...	512	...	522	...	550	...	559	...	539	...	555	...	555	...	497	...	483	...	490	...	490	...	499	...	452	...	450	...	434	...	440	11781	490.9	...
Hourly Means,	...	14.8	...	15.4	...	15.3	...	15.6	...	15.1	...	15.9	...	16.5	...	16.6	...	17.1	...	17.4	...	18.3	...	18.6	...	18.0	...	18.5	...	18.5	...	16.6	...	16.1	...	16.3	...	16.3	...	16.6	...	15.1	...	15.0	...	14.5	...	14.7	392.7	16.4	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR APRIL, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	2.30	14.03	0.47	0.20	+1.83	+13.83	E 7° N
2 „	2.10	14.80	0.47	0.13	1.63	14.67	E 6° N
3 „	2.03	14.43	0.57	0.07	1.46	14.36	E 6° N
4 „	2.40	14.63	0.90	0.27	1.50	14.36	E 6° N
5 „	2.13	13.80	1.03	0.33	1.10	13.47	E 5° N
6 „	1.87	15.07	1.10	0.27	0.77	14.80	E 3° N
7 „	1.80	15.63	1.13	0.23	0.67	15.40	E 2° N
8 „	2.13	15.80	1.30	0.20	0.83	15.60	E 3° N
9 „	1.97	15.97	0.97	0.60	1.00	15.37	E 4° N
10 „	2.40	16.17	0.30	1.00	2.10	15.17	E 8° N
11 „	2.47	16.90	0.27	1.10	2.20	15.80	E 8° N
Noon.	2.00	17.30	0.83	0.97	1.17	16.33	E 4° N
1 p.	2.27	16.07	1.27	1.30	1.00	14.77	E 4° N
2 „	2.30	16.67	0.63	1.53	1.67	15.14	E 6° N
3 „	2.60	16.43	0.93	1.53	1.67	14.90	E 6° N
4 „	2.77	14.47	0.80	1.07	1.97	13.40	E 8° N
5 „	1.83	14.67	0.90	0.80	0.93	13.87	E 4° N
6 „	2.57	15.30	0.23	0.27	2.34	15.03	E 9° N
7 „	2.23	15.40	1.13	0.20	1.10	15.20	E 4° N
8 „	2.60	15.70	0.73	0.23	1.87	15.47	E 7° N
9 „	2.37	14.40	0.73	0.07	1.64	14.33	E 7° N
10 „	2.47	14.27	0.80	0.00	1.67	14.27	E 7° N
11 „	2.40	13.70	0.60	0.03	1.80	13.67	E 7° N
Midt.	2.30	13.37	1.70	0.00	+0.60	+13.37	E 3° N
Mean, ...	2.26	15.21	0.82	0.52	+1.44	+14.69	E 6° N

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
April 1	28.05	28.01	28.05	69	69	65	70	63	S	4	SW	4	SW	3
„ 2	.08	.04	.00	64	61	62	65	58	E	4	E	4	E	4
„ 3	.07	.02	.02	67	68	66	69	62	S	5	S	4	S	4
„ 4	.09	.10	.09	69	70	71	72	66	S	5	S	4	S	4
„ 5	.11	.08	.09	67	67	67	72	63	SE	4	WSW	6	SE	4
„ 6	.11	.09	.11	65	64	64	68	64	SE	3	E	3	SE	5
„ 7	.15	.06	.05	66	64	63	66	63	SE	4	SE	5	SE	5
„ 8	.06	27.99	.05	66	68	67	69	63	S	5	S	4	S	4
„ 9	.10	28.05	.05	71	71	69	74	67	SW	4	SW	4	S	4
„ 10	.12	.07	.10	70	71	70	73	69	S	5	S	4	S	4
„ 11	.12	.05	.09	70	71	70	74	69	SSW	4	S	5	S	4
„ 12	.12	.08	.08	71	71	70	74	68	S	3	S	4	S	4
„ 13	.15	.10	.12	64	63	61	70	61	SE	4	SE	3	SE	4
„ 14	.18	.14	.13	66	68	67	69	61	SE	4	SE	4	SE	4
„ 15	.19	.15	.17	71	73	71	75	67	SE	4	SE	3	SE	4
„ 16	.16	.16	.14	68	71	68	75	66	ESE	3	ESE	3	ESE	4
„ 17	.21	.16	.16	67	69	68	71	66	ESE	4	E	3	S	4
„ 18	.20	.13	.13	70	75	70	75	67	SE	3	NE	2	NE	2
„ 19	.17	.13	.14	66	66	64	71	62	NW	4	NW	5	NW	5
„ 20	.20	.17	.13	62	64	60	65	58	E	4	E	4	E	4
„ 21	.13	.08	.13	61	59	59	63	57	E	4	NE	4	NE	3
„ 22	.17	.14	.15	63	67	63	69	58	E	4	E	3	E	3
„ 23	.21	.17	.19	66	66	64	69	60	E	4	E	4	E	4
„ 24	.21	.10	.10	63	62	60	66	60	E	4	E	3	E	3
„ 25	.06	27.99	.00	66	66	65	67	60	WSW	4	WSW	4	SW	4
„ 26	.06	28.00	27.98	71	73	70	75	65	SW	3	SW	3	SW	3
„ 27	.02	27.95	.95	73	73	70	75	69	SW	3	SW	4	S	4
„ 28	.00	.95	.96	71	72	71	74	69	S	3	S	3	S	4
„ 29	.03	.96	.93	72	72	68	74	68	SE	4	SE	4	SE	4
„ 30	.02	28.01	.99	70	68	68	73	68	SW	3	NW	4	SW	4
...	...	...	...	...	...	...	...	...	...		...	...	...	...
Mean,	28.118	28.071	28.076	67.5	68.1	66.4	70.7	64.0	S 28° E	3.9	S 22° E	3.8	S 27° E	3.9

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
April 1, ...	10	str-cum.	...	10	str-cum.	...	10	nim.	SSW	10	cum.	SW
„ 2, ...	10	cum-nim.	...	10	cum-nim.	...	10	cum-nim.	ENE	10	cum-nim.	E
„ 3, ...	10	cum-nim.	...	10	cum-nim.	...	10	str.	E	10	str.	E
„ 4, ...	10	cum-nim.	...	10	cum-nim.	...	10	cum / fog.	E	10	fog.	E
„ 5, ...	10	nim.	...	10	nim.	...	10	str.	E	10	str.	ESE
„ 6, ...	8	str-cum.	SE	10	nim.	...	10	nim.	W	10	nim.	...
„ 7, ...	2	cum.	SE	10	cum.	S	7	cum.	S	9	cum. / cum.	SW / E
„ 8, ...	10	nim.	...	10	nim.	...	10	nim.	S	10	R-cum.	S
„ 9, ...	10	str-cum.	S	10	cum-nim.	...	10	cum. / fog.	S / E	10	cum. / fog.	S / E
„ 10, ...	10	str-cum.	S	10	str-cum.	S	10	str.	...	10	str-cum.	S
„ 11, ...	10	str-cum.	SSW	10	str-cum.	...	9	R-cum.	S	9	cum. / fog.	S / E
„ 12, ...	8	cum.	S	3	cum.	SW	9	cum. / fog.	S / E	7	cum.	S
„ 13, ...	10	cum.	SE	10	str-cum.	...	10	str.	E	10	str.	...
„ 14, ...	10	str-cum.	SE	10	str-cum.	...	10	str.	...	10	str.	...
„ 15, ...	10	cum-nim.	SE	10	cum-nim.	...	10	str.	E	8	sm-cum. / cum. / cum.	WSW / S / E
„ 16, ...	10	str.	...	10	str-cum.	...	10	R-cum.	E	10	str-cum.	E
„ 17, ...	10	str-cum.	E	10	str-cum.	ESE	10	nim. / fog.	E	10	str.	...
„ 18, ...	5	cum.	SE	10	cum.	SE	10	R-cum.	SE	1	sm-cum. / cum.	W / SE
„ 19, ...	10	cum.	SW	10	str-cum.	SW	10	str-cum.	W	10	str-cum.	WNW
„ 20, ...	3	sm-cum.	S	9	cum.	E	10	R-cum. / cum.	S / E	9	cum. / cum.	WSW / ESE
„ 21, ...	10	str-cum.	S	5	cum.	S	10	sm-cum.	SW	1	c-str. / cum.	W / ..
„ 22, ...	10	cum.	...	10	cum.	...	9	cum.	SW	7	c-cum. / cum.	W / ENE
„ 23, ...	3	str.	...	8	str.	...	4	c-str. / c-cum.	WNW / W	3	c-str. / c-cum.	WNW / W
„ 24, ...	7	c-cum.	...	5	sm-cum.	...	9	sm-cum.	W	10	str-cum.	W
„ 25, ...	10	nim.	...	10	nim.	...	10	cum.	W	9	str-cum.	W
„ 26, ...	9	str-cum.	...	2	sm-cum.	...	10	cum.	W	4	c-str. / cum.	W / W
„ 27, ...	4	cum.	...	8	sm-cum.	S	1	c-str. / cum.	...	8	sm-cum. / cum.	SW / SW
„ 28, ...	3	cum.	...	6	cum.	S	1	cum.	S	10	cum.	S
„ 29, ...	2	cum.	...	7	cum.	...	10	cum. / nim.	S / ESE	9	cum.	SW
„ 30, ...	10	cum-nim.	...	10	cum-nim.	...	10	cum-str.	WSW	10	nim.	SW
.....	...	...	...	...	...	...	...	...	...	...	...	...
Mean, ...	8.1	...	...	8.8	...	...	9.0	...	...	8.5	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
April 1,...	10	cum.	SW	10	nim.	WSW	10	cum-nim.	...	10	cum-nim. / fog.	...	10.0
„ 2,...	10	nim.	E	10	nim.	E	10	nim.	...	10	cum-nim.	...	10.0
„ 3,...	10	str-cum.	E	10	R-cum.	SE	10	str-cum.	...	10	str.	...	10.0
„ 4,...	10	fog.	E	10	str.	E	10	str.	...	10	nim.	...	10.0
„ 5,...	10	cum.	ESE	10	nim.	...	10	nim.	...	7	cum.	...	9.6
„ 6,...	10	cum-nim.	ESE	10	cum.	ESE	9	cum.	...	7	sm-cum.	WSW	9.2
„ 7,...	10	str.	E	10	str.	E	10	cum-nim.	...	10	nim.	...	8.5
„ 8,...	10	R-cum.	S	10	cum.	S	10	cum.	S	10	str-cum.	SW	10.0
„ 9,...	10	R-cum.	S	10	R-cum.	S	10	cum.	S	10	str-cum.	S	10.0
„ 10,...	10	str-cum.	S	10	cum. / fog.	S / E	10	cum.	SE	10	cum.	SSW	10.0
„ 11,...	8	cum.	S	8	cum.	S	8	cum.	S	9	cum.	S	8.9
„ 12,...	6	cum. / fog.	S / E	6	cum.	S	7	cum.	S	9	cum.	S	6.9
„ 13,...	10	nim.	...	10	cum-nim.	E	10	str-cum.	SE	10	cum-nim.	ESE	10.0
„ 14,...	9	str-cum.	E	9	sm-cum. / R-cum.	W / ESE	10	cum-nim.	ESE	10	nim.	...	9.8
„ 15,...	8	c-str. / sm-cum. / cum.	.. / WSW / S	2	c-str. / c-cum.	W / WSW	10	cum-nim.	...	10	cum-nim.	...	8.5
„ 16,...	7	c. / sm-cum. / cum.	W / W / SE	8	c. / sm-cum. / cum.	W / W / SSE	7	c-str. / cum.	W / ..	4	c-str. / sm-cum.	W / WSW	8.2
„ 17,...	10	cum.	S	9	c-str. / cum.	SSE	8	c-str. / cum.	W / S	8	cum.	S	9.4
„ 18,...	1	cum.	E	0	...	...	1	cum.	...	10	str-cum.	...	4.8
„ 19,...	10	str-cum.	...	9	str-cum.	WSW	8	cum.	WSW	7	cum.	WSW	9.2
„ 20,...	9	sm-cum. / cum.	WSW / ESE	10	str-cum.	...	4	sm-cum. / cum.	SW / ..	10	cum.	...	8.0
„ 21,...	10	str-cum.	WSW	10	cum.	ENE	10	nim.	...	10	nim.	...	8.3
„ 22,...	9	cum. / cum.	SW / ENE	9	c-str.	W	8	c-str.	W	9	c-str.	...	8.9
„ 23,...	2	c-str.	WNW	9	c-str.	WNW	2	c-str.	WNW	2	c-str.	...	4.1
„ 24,...	10	nim.	W	10	cum.	SE	10	cum-nim.	...	10	cum-nim.	...	8.9
„ 25,...	1	str-cum.	W	10	R-cum.	W	2	cum.	WSW	0	...	...	6.5
„ 26,...	2	cum.	W	1	c-str. / cum.	W / W	3	c-str. / cum.	W / W	3	cum.	W	4.2
„ 27,...	9	c-str. / cum.	SW	10	cum.	S	10	cum.	S	9	nim.	SSE	7.4
„ 28,...	1	c-str. / cum.	...	1	c-str. / cum.	SE	10	cum.	E	9	cum.	...	5.1
„ 29,...	9	cum.	SW	10	cum. / nim.	SW / ENE	10	nim.	...	10	nim.	...	8.4
„ 30,...	10	nim.	...	10	str-cum.	SW	9	cum.	SSW	10	cum-nim.	...	9.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean,...	8.0	...	...	8.4	...	...	8.2	...	...	8.4	...	...	8.4

HONGKONG OBSERVATORY.

Weather Report for May, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 11th.

Lunar halo: on the 7th, 9th, 11th and 15th.

Lunar corona: on the 10th, 12th, 13th, 14th and 15th.

Slight fog: on the 3rd, 7th and 19th.

Unusual Visibility: on the 16th.

Dew: on the 3rd, 5th, 9th, 10th, 11th, 12th and 13th.

Lightning without thunder: on the 2nd, 7th, 8th, 17th, 18th and 31st.

Thunder without lightning: on the 8th and 22nd.

Thunder and lightning: on the 21st, at 4 a.

Thunderstorms: on the 1st, 11.15 a.—12.30 p. in SW passing by W, to N; nearest at 11.39 a. (14s.). On the 19th, 1 a.—noon, came from NE and passed by W towards S; nearest at 4.30 a. (2s.), 5.0 a. (1s.), 7.36 a. (16s.) and 9.2 a. (23s.). A house in Wellington Street, and the Guard house at Stonecutter's Island were struck by lightning during this storm. On the 22nd, at 1 a. in S; nearest (15s, about). On the 27th, 8 p.—11.30 p. in W; nearest at 9.3 p. (15s.) at 11.6 p. (14s.).

A tremendous thunderstorm commenced at 10 p. on the 28th. It was nearest at 3.50 a. on the 29th, (7s.). From 4 a.—11 a. lightning and thunder continued in all directions. It was nearest at 11.11 a. (1s.), 11.31 a. (1s.) and 11.35 a. (1s.). Thunderstorms continued coming from SW and passing towards NE. It was nearest at 3.18 p. (1½s.). At this time a spark was seen in the library by several observers, followed by a crash of thunder 1½s. afterwards. The interval was occasionally 1s. up to 4.36 p. There was continuous lightning with occasional thunder in all directions till 1 a. on the 30th. Between 1 a. and 5 a. on the 30th, a terrific storm raged all round. The illumination from lightning was nearly continuous. At 2.24 a. a spark was seen in the library followed by a clap of thunder a second later. It was nearest at 3.29 a. (½s.), at 3.30 a. (½s.) and at 4.39 a. (1s.). Lightning and thunder continued but not as close as before up to 3 p. It was nearest at noon (2s.). Distant thunder continued up till 6 p. and lighting the remainder of the night.

It is remarked that sparks only occur immediately before a flash of lightning with thunder.

The Total Distance traversed by, as well as the duration and average velocity of the wind from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	111	12	9.2
NE	465	45	10.3
E	5389	361	14.9
SE	522	70	7.5
S	1760	165	10.7
SW	1001	49	20.4
W	43	3	14.3
NW	126	14	9.0
Calm	20	25	0.8

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF MAY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
May 1,...	29.714	29.693	29.687	29.686	29.689	29.704	29.728	29.740	29.754	29.761	29.759	29.739	29.726	29.697	29.687	29.654	29.666	29.676	29.685	29.700	29.722	29.739	29.746	29.740	29.712
„ 2,...	.734	.721	.713	.720	.741	.766	.792	.801	.836	.836	.820	.817	.796	.775	.752	.749	.755	.768	.784	.794	.814	.834	.835	.836	.783
„ 3,...	.821	.809	.799	.794	.809	.832	.849	.878	.888	.889	.889	.875	.845	.820	.811	.793	.792	.798	.812	.829	.833	.839	.836	.822	.832
„ 4,...	.821	.797	.791	.796	.813	.831	.848	.864	.873	.873	.863	.854	.840	.817	.793	.784	.781	.792	.793	.802	.822	.838	.847	.839	.824
„ 5,...	.836	.824	.823	.829	.838	.844	.867	.880	.886	.891	.886	.876	.844	.831	.806	.792	.788	.793	.808	.827	.840	.847	.861	.856	.841
„ 6,...	.842	.834	.820	.825	.835	.844	.857	.872	.879	.880	.877	.862	.836	.817	.801	.778	.774	.783	.798	.824	.832	.845	.847	.844	.834
„ 7,...	.835	.818	.814	.823	.831	.842	.858	.882	.895	.901	.895	.882	.862	.839	.819	.807	.821	.838	.860	.887	.910	.922	.927	.918	.862
„ 8,...	.906	.893	.889	.891	.891	.900	.926	.938	.957	.965	.968	.939	.927	.891	.881	.867	.866	.878	.889	.916	.937	.943	.939	.931	.914
„ 9,...	.902	.897	.882	.884	.832	.888	.893	.912	.898	.899	.897	.884	.862	.835	.815	.805	.805	.810	.826	.838	.843	.841	.843	.829	.861
„ 10,...	.805	.792	.786	.784	.785	.792	.807	.822	.833	.837	.834	.810	.793	.762	.747	.742	.743	.761	.760	.764	.788	.806	.825	.812	.791
„ 11,...	.793	.782	.777	.778	.789	.793	.824	.826	.838	.837	.842	.840	.817	.789	.778	.775	.789	.816	.826	.803	.830	.865	.880	.870	.815
„ 12,...	.843	.840	.838	.835	.838	.858	.868	.881	.890	.892	.888	.879	.849	.828	.795	.772	.772	.792	.822	.825	.829	.835	.840	.838	.839
„ 13,...	.830	.815	.787	.791	.794	.822	.840	.861	.853	.864	.844	.834	.799	.786	.764	.749	.740	.740	.743	.749	.771	.787	.789	.787	.798
„ 14,...	.761	.737	.745	.736	.741	.763	.786	.790	.811	.819	.823	.819	.788	.765	.736	.725	.711	.708	.732	.739	.751	.765	.762	.753	.761
„ 15,...	.740	.736	.730	.728	.733	.751	.783	.812	.830	.829	.833	.815	.804	.786	.766	.740	.733	.744	.772	.782	.802	.831	.835	.833	.781
„ 16,...	.822	.793	.793	.787	.792	.801	.824	.833	.842	.849	.841	.830	.820	.787	.776	.752	.755	.741	.745	.769	.787	.817	.823	.814	.800
„ 17,...	.792	.786	.776	.775	.780	.786	.796	.803	.810	.819	.805	.792	.775	.767	.735	.708	.707	.704	.727	.731	.736	.763	.768	.758	.767
„ 18,...	.749	.731	.725	.722	.725	.728	.734	.752	.752	.754	.745	.736	.708	.693	.683	.682	.663	.669	.685	.697	.715	.738	.738	.729	.719
„ 19,...	.727	.691	.679	.689	.701	.715	.763	.765	.767	.807	.806	.780	.761	.748	.724	.704	.709	.710	.724	.775	.783	.790	.793	.783	.746
„ 20,...	.767	.745	.741	.742	.741	.754	.778	.800	.798	.798	.790	.783	.762	.751	.738	.736	.738	.738	.750	.760	.770	.778	.784	.782	.763
„ 21,...	.758	.737	.720	.723	.733	.744	.768	.785	.798	.800	.784	.790	.768	.743	.731	.715	.712	.708	.723	.740	.780	.808	.790	.783	.756
„ 22,...	.768	.745	.733	.726	.732	.743	.759	.780	.786	.786	.790	.788	.760	.740	.738	.703	.711	.736	.744	.767	.786	.786	.781	.749	.756
„ 23,...	.739	.733	.720	.727	.737	.745	.759	.789	.789	.792	.790	.786	.761	.739	.722	.714	.714	.712	.729	.739	.743	.744	.741	.730	.746
„ 24,...	.698	.696	.687	.688	.691	.698	.713	.721	.728	.730	.724	.699	.696	.692	.684	.674	.687	.704	.726	.744	.756	.771	.774	.750	.714
„ 25,...	.745	.720	.707	.716	.719	.740	.754	.772	.789	.789	.789	.775	.764	.741	.732	.710	.717	.742	.747	.750	.755	.758	.752	.748	.747
„ 26,...	.718	.706	.696	.694	.692	.692	.702	.736	.744	.750	.735	.723	.717	.695	.682	.665	.660	.673	.695	.707	.715	.727	.725	.703	.706
„ 27,...	.687	.658	.652	.648	.648	.664	.682	.689	.693	.698	.698	.686	.665	.628	.609	.596	.602	.605	.640	.648	.674	.684	.670	.632	.657
„ 28,...	.635	.617	.604	.594	.599	.605	.635	.645	.665	.664	.660	.662	.645	.632	.619	.585	.593	.597	.630	.643	.652	.661	.657	.642	.631
„ 29,...	.609	.586	.561	.545	.544	.580	.589	.627	.648	.663	.651	.597	.590	.579	.567	.542	.528	.518	.540	.542	.553	.590	.589	.575	.580
„ 30,...	.544	.526	.543	.570	.584	.600	.629	.619	.641	.637	.621	.609	.565	.545	.509	.499	.497	.527	.543	.550	.567	.581	.588	.546	.568
„ 31,...	.543	.539	.534	.539	.546	.549	.556	.562	.577	.581	.583	.574	.567	.552	.543	.540	.525	.530	.543	.568	.588	.597	.603	.595	.560
Hourly Means, ...	29.758	29.742	29.734	29.735	29.741	29.754	29.773	29.788	29.799	29.803	29.798	29.785	29.765	29.744	29.727	29.712	29.711	29.720	29.736	29.749	29.764	29.778	29.780	29.769	29.757

TABLE II.

TEMPERATURE FOR THE MONTH OF MAY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
May 1,	73.5	74.1	74.0	74.2	74.5	74.3	74.6	74.7	75.0	75.8	76.8	76.7	77.6	81.9	79.4	77.8	76.6	76.4	80.4	81.0	80.1	80.7	80.2	80.0	77.1	81.9	73.4
„ 2,	79.9	76.0	75.2	74.4	73.4	73.3	73.6	74.4	75.2	76.7	76.6	76.5	75.4	75.1	75.1	74.0	73.7	73.7	73.7	73.8	73.4	73.8	74.1	74.3	74.8	80.0	73.3
„ 3,	73.2	72.7	72.6	72.2	72.4	72.0	72.3	72.8	74.4	74.5	75.6	76.7	76.8	75.0	76.1	76.1	75.6	75.5	74.6	74.7	74.7	74.8	74.3	74.3	74.3	77.4	72.0
„ 4,	74.2	73.6	73.3	73.3	73.2	73.3	74.1	74.7	75.7	75.8	76.5	76.8	77.6	77.5	78.6	77.7	77.3	76.5	76.7	76.2	76.5	75.8	75.7	75.9	75.7	78.6	73.0
„ 5,	76.1	75.8	75.9	76.1	76.3	76.6	77.5	78.7	78.6	79.3	81.5	81.1	82.9	85.0	84.2	80.7	80.7	79.6	78.3	78.1	77.0	76.7	76.4	76.0	78.7	85.0	75.8
„ 6,	75.8	75.4	75.4	74.8	75.3	75.7	77.2	79.4	79.8	80.4	80.9	83.4	83.7	84.6	84.2	82.9	81.3	79.6	78.8	78.7	78.7	78.0	77.8	77.6	79.1	84.6	74.7
„ 7,	77.4	77.4	77.4	76.8	76.9	77.2	79.1	80.6	80.6	82.7	82.4	85.9	84.9	85.6	84.9	83.6	81.7	80.5	80.5	79.0	79.4	78.1	77.6	77.6	80.3	85.9	76.8
„ 8,	77.5	76.8	77.0	76.0	76.1	76.2	77.1	77.4	77.6	77.0	75.6	75.6	75.8	75.0	74.6	74.8	74.4	73.8	73.8	74.0	73.9	74.2	74.1	74.1	75.5	77.6	73.8
„ 9,	74.1	73.9	73.7	73.7	73.4	73.4	73.7	74.8	74.9	75.6	76.7	76.1	76.7	77.0	76.5	76.1	75.8	74.8	74.7	74.7	74.7	74.7	74.5	74.6	74.9	78.3	73.3
„ 10,	75.0	75.1	75.0	74.9	74.9	75.2	76.6	78.2	79.2	78.9	79.2	79.8	80.4	80.1	79.8	79.0	78.7	77.9	77.7	78.0	77.8	77.8	77.4	77.5	77.7	80.4	74.6
„ 11,	77.6	78.4	77.8	77.9	77.7	78.4	79.4	79.7	79.6	81.4	80.8	80.4	85.2	85.4	83.9	83.4	80.7	80.8	78.7	78.1	78.6	79.3	79.0	79.0	80.1	85.4	77.5
„ 12,	78.7	78.7	78.6	78.2	77.6	77.7	79.0	80.5	82.6	85.1	85.9	85.3	85.4	85.1	84.0	84.6	82.8	81.6	80.2	79.7	78.5	78.4	79.2	78.4	81.1	85.9	77.5
„ 13,	78.4	79.0	79.0	79.0	79.1	79.5	81.1	83.4	83.4	85.0	84.5	86.7	84.7	83.2	83.2	82.6	82.6	81.7	81.4	80.9	79.7	79.7	79.4	79.5	81.5	87.4	78.0
„ 14,	79.5	79.6	79.1	79.2	79.7	79.5	81.5	82.9	83.7	84.1	85.0	83.9	83.7	84.3	84.8	83.4	82.7	81.8	81.7	81.5	80.8	81.4	81.0	80.5	81.9	85.4	78.9
„ 15,	79.5	80.1	80.0	79.9	80.0	80.0	82.4	82.9	84.3	85.6	86.1	84.9	85.9	85.8	86.1	84.5	84.7	82.5	81.5	80.7	80.0	79.7	79.4	79.1	82.3	86.8	79.1
„ 16,	79.3	78.9	78.6	78.8	78.9	79.1	80.5	83.7	85.0	85.7	83.1	85.7	85.7	87.5	86.1	86.4	85.4	82.9	81.7	81.9	80.8	79.9	79.8	80.1	82.4	87.5	78.6
„ 17,	80.0	80.2	80.8	79.5	79.6	80.1	81.7	83.4	84.9	84.8	85.6	84.5	87.0	86.6	88.3	87.3	85.0	83.0	82.3	81.7	80.9	81.5	80.0	79.8	82.9	88.8	79.5
„ 18,	80.7	80.7	81.4	81.4	81.1	81.8	83.4	79.7	80.3	84.7	86.4	87.5	86.8	87.5	86.7	85.9	84.6	83.2	82.7	82.6	82.8	82.3	81.8	81.2	83.2	87.5	79.0
„ 19,	81.7	81.4	81.3	78.9	73.2	72.6	73.9	74.4	74.6	74.2	74.3	74.0	76.0	75.3	75.6	75.8	76.4	75.8	75.9	76.2	76.6	76.7	76.9	76.5	76.2	81.7	71.9
„ 20,	76.3	76.6	76.4	75.1	75.3	75.9	75.2	74.6	75.8	76.8	77.8	77.4	77.4	75.3	75.0	75.9	76.9	76.7	76.4	76.6	76.6	76.6	76.9	76.7	76.3	78.5	74.6
„ 21,	76.6	76.2	76.4	76.0	75.9	73.0	73.7	73.9	75.0	76.1	75.7	76.7	78.0	77.7	79.2	79.7	78.7	78.4	77.5	77.0	77.2	77.2	77.1	76.6	76.6	79.7	72.8
„ 22,	76.3	75.3	75.0	75.4	75.6	76.3	77.2	77.1	79.0	79.3	78.0	77.1	77.1	74.9	76.7	76.7	77.1	76.8	76.7	77.6	77.0	76.4	76.3	75.4	76.7	79.3	74.9
„ 23,	75.1	75.0	74.9	75.3	75.9	75.4	75.4	74.6	74.3	74.8	74.7	73.8	73.9	74.0	73.7	71.7	73.3	71.8	73.2	74.6	74.7	75.2	74.4	73.7	74.3	76.0	71.7
„ 24,	73.2	72.9	73.0	73.2	73.0	73.1	73.8	74.9	75.4	75.0	75.8	76.9	75.5	75.6	75.5	75.1	73.9	73.2	73.4	73.5	73.5	73.3	72.6	72.9	74.1	77.4	72.6
„ 25,	72.9	73.0	72.9	73.0	73.3	73.4	73.7	73.3	73.5	74.0	74.5	75.1	73.8	75.1	74.8	74.5	74.7	73.8	73.9	74.7	75.9	76.0	75.4	75.4	74.2	76.6	72.8
„ 26,	75.2	75.1	76.2	76.3	76.3	76.3	76.6	74.7	73.2	72.9	73.0	73.5	73.6	73.7	73.7	72.1	72.9	72.4	72.5	72.0	72.5	72.5	72.5	72.1	73.8	77.1	71.9
„ 27,	71.6	71.9	71.8	71.5	71.7	71.8	72.1	72.7	74.8	73.8	74.9	75.9	76.8	77.2	76.3	75.7	75.6	74.9	74.9	75.1	75.3	75.4	75.5	75.8	74.3	77.4	71.4
„ 28,	75.7	76.1	76.6	76.9	76.9	77.1	78.3	78.9	80.4	83.3	83.7	81.7	82.2	80.2	78.5	77.5	78.6	78.6	77.9	78.4	78.7	78.4	79.4	80.0	78.9	85.2	75.6
„ 29,	80.9	81.7	82.0	82.0	82.0	82.6	82.0	76.7	77.9	72.0	74.1	77.0	80.9	81.8	81.9	82.1	81.4	81.6	82.7	82.9	80.6	81.5	79.3	77.4	80.2	82.9	71.4
„ 30,	76.2	76.1	75.9	76.3	74.5	74.5	73.9	73.5	75.8	76.6	75.9	74.7	75.4	76.0	77.5	79.8	83.1	83.3	82.9	83.3	83.0	83.4	83.9	83.4	78.3	83.9	73.0
„ 31,	83.1	82.6	82.3	82.5	83.2	82.9	83.1	83.6	83.9	84.7	86.2	86.1	86.5	86.4	86.4	85.4	84.3	84.4	83.7	83.6	83.7	84.0	84.2	83.7	84.2	86.8	82.3
Hourly Means,	76.9	76.8	76.8	76.5	76.4	76.4	77.2	77.6	78.3	78.9	79.4	79.6	80.1	80.2	80.0	79.4	79.1	78.3	78.1	78.1	77.9	77.9	77.6	77.4	78.1	82.2	75.0

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF MAY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means	Solar Max.
May 1, .	72.2	72.8	72.7	72.9	73.3	73.1	73.3	73.6	73.9	74.3	75.0	75.1	75.0	78.7	77.2	76.7	74.7	74.7	77.7	77.5	77.5	77.2	77.2	77.0	75.1	125.5
„ 2,...	76.9	73.7	73.0	72.5	72.0	72.0	72.1	72.7	72.8	73.2	73.0	73.6	72.8	73.1	73.1	72.6	72.1	72.5	72.4	72.3	72.1	72.7	72.9	72.9	72.9	139.1
„ 3,...	72.1	71.7	71.8	71.5	71.8	71.3	71.6	71.9	72.5	72.7	73.1	73.9	73.9	73.0	73.9	74.0	73.9	73.9	73.3	73.5	73.4	73.9	73.4	73.6	72.9	138.9
„ 4,...	73.5	72.9	72.7	72.6	72.5	72.6	73.1	73.7	74.4	74.2	74.7	75.1	75.6	75.1	75.9	75.6	75.5	75.1	75.4	75.1	75.0	74.9	75.0	75.0	74.4	139.6
„ 5,...	75.1	74.9	74.8	74.9	75.1	75.1	75.9	75.9	76.1	76.5	77.3	77.1	76.8	77.7	77.5	76.9	76.8	76.2	75.9	75.1	74.9	74.8	74.9	74.5	75.9	145.9
„ 6,...	74.3	74.1	73.7	73.4	73.5	74.0	74.9	75.8	75.6	76.4	76.3	76.8	76.9	77.7	77.2	76.3	75.9	75.5	75.4	75.4	75.5	75.7	75.7	75.6	75.5	142.1
„ 7,...	75.3	75.2	75.0	75.0	74.7	75.2	76.0	76.6	76.4	77.3	76.8	77.6	77.2	76.5	76.1	76.2	75.9	76.6	76.0	75.9	75.9	76.0	75.4	75.4	76.0	145.0
„ 8,...	75.7	75.4	74.9	74.7	74.3	74.2	74.7	74.8	74.6	74.1	72.8	72.6	72.7	71.9	71.7	71.8	71.4	70.9	70.7	70.8	70.6	70.7	71.0	71.1	72.8	137.0
„ 9,...	70.9	70.6	70 1	70.0	69.7	69.9	70.1	70.8	70.9	70.9	71.8	71.4	71.8	72.1	71.7	71.8	72.0	71.6	72.0	72.2	72.6	72.7	72.9	72.9	71.4	137.0
„ 10,...	73.2	73.4	73.5	73.4	73.5	73.8	74.6	75.1	75.1	75.0	75.6	75.9	75.7	75.8	75.2	75.3	75.2	74.9	74.8	74.9	75.2	75.2	75.1	75.1	74.8	145.0
„ 11,...	75.0	74.4	74.6	74.4	74.4	74.9	75.5	76.5	76.2	76.9	77.0	77.0	76.5	76.4	75.8	76.2	77.9	76.7	77.1	77.0	76.9	76.0	76.4	75.7	76.1	145.9
„ 12,...	75.6	75.8	75.9	75.7	75.8	76.1	77.0	77.8	76.2	77.8	78.2	77.4	77.5	76.9	77.1	77.0	77.0	76.7	76.8	76.8	77.0	77.0	76.5	76.0	76.7	144.9
„ 13,...	76.4	76.3	76.3	76.2	76.0	76.1	77.1	78.0	77.2	77.9	77.8	79.2	78.1	78.0	77.7	78.2	78.0	77.8	77.7	77.7	77.5	77.7	77.4	77.4	77.4	145.8
„ 14,...	77.0	76.4	76.2	76.5	76.6	76.2	76.8	77.6	78.0	78.3	77.7	78.1	78.3	78.5	77.1	77.7	77.9	77.3	77.5	77.4	77.4	77.4	77.1	76.8	77.3	148.6
„ 15,...	76.9	76.8	76.5	76.5	76.5	76.2	77.6	77.9	77.7	78.0	78.5	77.8	78.7	78.0	78.2	77.8	78.9	77.7	77.4	77.5	77.9	77.8	77.5	77.4	77.6	151.1
„ 16,...	77.7	76.7	76.5	76.7	77.1	77.3	77.9	77.8	78.2	78.0	77.0	77.6	77.4	78.8	79.1	77.3	78.1	77.6	77.2	77.6	77.4	77.4	77.1	77.4	77.5	148.4
„ 17,...	77.7	77.6	77.6	76.9	76.9	77.3	78.0	78.2	78.2	78.4	78.9	77.7	78.1	77.3	77.9	78.0	77.3	77.1	77.1	76.9	77.4	77.6	77.1	77.1	77.6	144.9
„ 18,...	77.7	78.0	77.9	77.2	77.4	78.3	78.5	75.6	75.4	78.4	78.9	79.7	77.7	78.2	77.1	77.9	78.1	78.0	78.0	78.7	78.2	78.3	78.0	78.1	77.9	146.5
„ 19,...	78.2	76.6	78.1	75.8	73.1	72.1	73.5	73.2	73.0	73.6	72.9	73.2	74.5	73.6	73.9	74.5	74.4	74.6	74.0	73.9	73.9	74.7	75.1	74.8	74.4	94.5
„ 20,...	74.8	75.6	75.1	74.2	74.7	74.4	74.2	73.9	74.4	74.6	74.8	74.8	75.1	74.6	73.7	74.1	74.8	74.2	73.8	73.9	74.8	74.6	74.9	74.7	74.5	142.2
„ 21,...	74.7	74.8	74.8	74.6	74.9	71.8	72.6	73.1	74.0	73.9	74.3	75.0	75.8	74.1	75.1	74.6	74.7	74.8	75.4	75.2	75.5	75.0	75.0	74.9	74.5	127.7
„ 22,...	74.8	73.7	73.6	73.9	74.2	74.8	75.2	75.3	76.3	76.6	76.4	75.7	75.7	74.7	76.0	75.7	74.0	74.3	74.1	73.8	72.6	70.9	70.6	71.0	74.3	121.8
„ 23,...	70.5	70.8	71.8	71.8	72.0	72.4	72.5	72.3	72.1	71.9	71.2	71.0	70 9	71.0	70.8	70.6	70.2	70.4	69.9	70.1	69.9	69.5	69.4	69.6	70.9	106.2
„ 24,...	69.9	70.1	70.6	70.4	70.2	69.8	70.1	71.1	71.2	70.9	71.7	72.0	70.8	70.9	70.8	70.8	70.4	70.6	70.7	70.7	70.9	70.6	70.2	70.0	70·6	130.9
„ 25,...	70.4	70.7	70.9	71.0	71.4	71.7	71.9	72.1	72.2	72.6	72.7	72.9	72.7	73.2	73.0	73.1	73.6	73.4	73.5	73.9	74.4	73.6	72.9	73.4	72.5	95.6
„ 26,...	73.0	73.6	74.6	74.8	73.5	74.4	74.4	74.3	72.6	72.1	72.5	71.8	71.8	71.4	71.0	70.3	70.4	69.9	70.1	70.2	69.9	70.6	70.6	70.8	72.0	119.7
„ 27,...	70.9	70.9	70.9	70.9	70.9	71.1	71.7	71.9	72.6	72.4	73.1	73.1	74.2	74.6	74.0	74.1	74.1	73.9	74.0	74.2	74.7	74.8	74.9	74.9	73.0	145.2
„ 28,...	75.0	75.1	75.5	75.5	75.7	75.5	75.9	75.4	76.2	77.1	77.1	76.8	77.0	76.0	75.3	74.8	76.7	76.3	76.5	76.7	76.5	76.8	77.7	78.2	76.2	148.2
„ 29,...	78.6	78.9	78.8	78.8	78.7	78.5	79.0	75.2	75.0	71.8	73.9	76.8	78.8	79.0	79.0	79.2	79.2	79.1	79.3	79.5	79.5	78.8	76.9	76.4	77.9	91.1
„ 30,...	74.8	75.5	75.4	76.3	74.3	74.5	73.7	73.0	73.7	74.9	74.9	74.2	74.7	75.2	77.0	78.7	78.3	79.7	79.7	79.9	79.4	79.9	79.4	79.6	76.5	95.3
„ 31,...	79.5	79.7	79.3	79.3	79.3	79.2	79.6	79.8	80.1	80.9	80.9	81.0	81.2	81.2	81.5	80.9	80.1	80.1	80.0	80.0	79.9	79.9	79.8	80.1	80.1	149.5
Hourly Mean ...	74.8	74.6	74.6	74.5	74.3	74.3	74.8	74.9	74.9	75.2	75.4	75.5	75.6	75.6	75.5	75.4	75.4	75.2	75.3	75.3	75.3	75.2	75.1	75.1	75.1	133.5

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF MAY, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	91	0.838	May 1,.....	91	0.846
2 „	90	.830	„ 2,.....	90	.785
3 „	90	.831	„ 3,.....	93	.792
4 „	91	.830	„ 4,.....	94	.835
5 „	90	.823	„ 5,.....	88	.858
6 „	90	.823	„ 6,.....	84	.836
7 „	89	.834	„ 7,.....	81	.841
8 „	88	.833	„ 8,.....	87	.772
9 „	84	.823	„ 9,.....	84	.723
10 „	83	.828	„ 10,.....	86	.825
11 „	82	.830	„ 11,.....	82	.848
Noon.	82	.831	„ 12,.....	81	.860
1 p	80	.828	„ 13,.....	83	.886
2 „	80	.827	„ 14,.....	81	.876
3 „	80	.826	„ 15,.....	80	.884
4 „	82	.830	„ 16,.....	79	.879
5 „	83	.834	„ 17,.....	78	.876
6 „	86	.835	„ 18,.....	78	.886
7 „	87	.842	„ 19,.....	92	.828
8 „	87	.842	„ 20,.....	92	.831
9 „	88	.845	„ 21,.....	91	.827
10 „	88	.841	„ 22,.....	88	.817
11 „	89	.841	„ 23,.....	84	.712
Midt.	90	.844	„ 24,.....	84	.703
			„ 25,.....	92	.777
			„ 26,.....	91	.762
			„ 27,.....	94	.796
			„ 28,.....	88	.868
			29,.....	90	.926
			30,.....	92	.890
			31,.....	83	.973
Mean,.....	86	0.833	Mean.	86	0.833

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
May, 1,.....	...	...	0.1	...	0.1	...	...	...	0.7	0.1	...	...	...	1.0
„ 2,.....	...	...	0.2	0.4	0.9	1.0	0.7	0.2	0.8	0.5	...	...	...	4.7
„ 3,.....	...	...	...	0.9	0.3	0.6	0.9	0.8	0.6	0.8	0.7	0.6	...	6.2
„ 4,.....	...	0.2	0.4	1.0	1.0	0.9	0.9	0.2	...	0.3	0.7	0.1	...	5.7
„ 5,.....	...	0.1	0.6	0.7	0.8	1.0	1.0	1.0	1.0	0.8	0.2	1.0	0.3	8.5
„ 6, ...	0.1	0.5	1.0	1.0	1.0	1.0	0.9	0.8	0.7	0.9	1.0	0.8	...	9.7
„ 7,.....	...	1.0	0.2	0.8	1.0	0.8	1.0	0.8	0.8	1.0	0.8	...	...	8.2
„ 8,.....	...	0.4	0.1	0.6	0.4	...	...	...	...	...	...	...	...	1.5
„ 9,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.6	1.0	0.6	...	9.4
„ 10,.....	0.1	1.0	0.9	1.0	0.9	0.9	1.0	1.0	0.9	...	0.3	...	...	8.0
„ 11,.....	...	0.6	0.6	0.8	1.0	1.0	0.9	1.0	1.0	0.9	0.2	...	...	8.0
„ 12,.....	...	0.9	1.0	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.4
„ 13,.....	...	0.9	0.9	0.8	1.0	0.9	1.0	0.8	...	...	...	0.1	...	6.4
„ 14,.....	0.2	0.9	1.0	1.0	0.8	0.7	...	...	0.5	1.0	0.6	0.1	...	6.8
„ 15,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.5	0.7	0.1	10.1
„ 16,.....	0.5	0.9	1.0	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	0.8	...	11.0
„ 17,.....	...	0.9	0.7	0.9	0.8	0.5	0.3	1.0	1.0	1.0	1.0	0.9	0.1	9.1
„ 18,.....	0.2	0.7	0.1	0.2	0.7	1.0	0.9	1.0	1.0	1.0	1.0	0.5	...	8.3
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	0.6	...	...	...	...	...	...	...	0.6
„ 21,.....	...	...	...	...	...	...	...	...	...	0.2	...	...	...	0.2
„ 22,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	0.1	...	...	...	...	...	...	...	...	...	0.1
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,.....	...	...	...	0.2	...	...	0.1	0.6	0.6	0.1	...	...	...	1.6
„ 28,.....	...	0.1	1.0	0.7	1.0	0.5	...	0.1	...	...	...	...	...	3.4
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,.....	...	...	...	0.1	0.2	1.0	1.0	0.8	1.0	0.9	0.6	0.1	...	5.7
Sums,.....	1.1	10.6	11.8	15.0	15.8	16.4	14.5	14.0	14.2	13.0	10.6	7.1	0.5	144.6

TABLE VI.

RAINFALL FOR THE MONTH OF MAY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
May 1,.....	...	...	...	...	...	...	...	...	...	...	...	0.035	0.075	...	...	...	0.095	...	...	...	...	...	...	...	0.205	2	...
„ 2,.....	...	...	...	0.010	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.040	1	...
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,.....	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	0.100	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.110	1	...
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	1	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	...	...	...	...	...	...	0.050	0.015	...	...	...	...	...	...	...	...	...	...	...	...	0.065	1	...
„ 18,.....	...	...	...	...	...	...	...	0.045	0.105	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.150	1	5.20
„ 19,.....	...	0.020	...	0.005	1.675	1.700	0.580	0.240	0.180	0.770	0.530	1.155	0.010	0.030	0.035	0.005	0.005	...	...	...	...	...	0.005	...	5.945	13	1.64
„ 20,.....	...	...	0.055	0.015	...	0.045	0.380	0.430	0.035	...	...	0.040	0.210	0.475	0.280	...	...	...	...	...	...	...	...	...	1.965	8	1.84
„ 21,.....	0.020	...	...	...	0.175	0.190	0.030	0.450	0.015	0.010	0.020	...	0.015	...	...	...	...	...	...	...	...	...	...	0.135	1.110	7	...
„ 22,.....	0.580	0.545	...	0.130	...	...	...	...	...	...	0.220	0.225	0.100	0.280	0.725	...	...	...	...	...	...	...	...	...	2.805	9	2.59
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.030	0.010	0.010	...	...	...	...	...	...	0.050	2	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	0.34
„ 25,.....	...	...	...	...	...	...	...	...	0.010	0.010	0.020	0.010	0.030	0.010	0.025	0.065	0.075	0.115	0.165	0.010	...	...	...	0.030	0.575	15	1.92
„ 26,.....	0.025	...	...	0.050	0.035	0.035	0.030	0.080	0.160	1.040	0.010	...	...	...	...	...	0.010	...	...	...	...	...	...	...	1.505	13	0.26
„ 27,.....	0.005	0.005	0.005	...	...	0.005	0.005	0.020	...	0.150	0.015	...	...	...	0.030	...	...	...	...	...	0.110	0.105	0.075	0.090	0.620	13	1.23
„ 28,.....	0.165	0.025	...	...	...	...	...	...	...	...	...	...	...	...	0.250	0.100	...	...	...	...	...	...	...	...	0.540	4	8.10
„ 29,.....	...	...	0.085	0.195	0.075	0.145	0.400	1.440	0.460	3.065	3.350	1.275	0.075	...	...	0.375	0.400	0.025	0.020	0.075	0.200	...	0.115	0.840	12.615	17	*27.85
„ 30,.....	1.800	2.300	3.200	3.400	3.000	1.625	0.040	0.580	0.020	0.070	1.030	0.550	0.550	1.200	1.120	0.005	0.005	...	...	...	...	...	...	...	20.495	16	3.60
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.030	...	...	...	...	...	...	...	0.030	2	...
Sums, ...	2.595	2.895	3.455	3.815	4.995	3.745	1.545	3.285	0.985	5.115	5.245	2.305	1.065	1.995	2.465	0.580	0.630	0.150	0.185	0.085	0.310	0.105	0.195	1.095	48.840	129	54.57

* Gauge overflowed (Entry computed).
The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF MAY, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
May 1,	8	12	7	13	6	11	6	14	6	11	7	13	7	12	7	14	7	18	7	13	7	14	7	8	12	8	17	10	28	7	27	7	24	8	19	4	17	17	18	21	17	15	16	12	14	8	16	12	282	11.7	10
" 2,	14	9	8	17	7	18	7	18	7	20	7	23	7	23	7	24	7	17	9	23	8	26	8	23	8	21	7	21	9	25	8	21	9	21	8	18	7	20	8	19	7	19	8	20	6	17	6	16	479	20.0	8
" 3,	7	21	7	18	7	21	7	26	8	25	7	23	7	19	7	18	8	21	8	19	7	17	9	22	9	23	7	19	9	24	9	20	8	19	8	15	8	19	7	15	8	16	9	16	8	18	9	17	471	19.6	8
" 4,	9	17	8	18	8	17	7	13	7	13	8	15	8	15	7	14	7	19	8	21	7	19	8	19	7	18	8	14	7	13	7	14	7	17	7	14	7	8	7	9	8	9	8	8	8	7	8	8	339	14.1	7
" 5,	8	6	8	7	9	10	9	6	8	8	6	6	6	6	6	6	7	9	8	11	8	8	9	9	8	8	11	9	14	7	12	6	10	5	14	2	7	4	13	3	13	3	...	1	...	1	...	0	141	5.9	9
" 6,	...	0	...	1	...	1	...	1	...	1	...	0	...	0	9	2	9	5	9	10	9	10	9	7	16	12	16	11	15	10	15	10	15	9	15	6	15	4	...	1	...	1	15	2	15	3	11	3	110	4.6	13
" 7,	11	2	11	3	11	3	...	1	...	1	...	1	...	1	...	1	28	5	28	4	8	3	17	7	12	5	16	10	17	8	16	9	16	8	16	3	15	2	14	2	...	0	14	2	10	8	10	6	95	4.0	14
" 8,	9	10	8	14	8	13	7	13	7	15	6	16	7	19	7	19	7	22	7	25	6	25	7	26	7	26	7	26	6	26	7	25	6	25	7	26	7	25	7	24	7	23	6	20	7	18	7	19	497	20.7	7
" 9,	7	19	7	18	7	22	6	17	7	18	7	19	7	22	7	22	7	22	6	23	7	19	7	20	7	19	8	20	8	23	8	21	8	17	8	17	8	10	8	12	9	9	9	12	9	7	9	6	414	17.3	7
" 10,	9	7	8	5	8	7	9	10	9	9	8	8	7	11	8	15	9	18	9	19	8	21	8	21	8	22	9	24	9	21	9	21	9	18	9	15	9	17	11	14	9	16	10	13	9	16	9	13	361	15.0	9
" 11,	9	17	12	21	11	18	10	11	9	9	13	12	13	6	9	9	9	12	9	14	11	12	9	10	14	11	15	9	15	10	14	4	9	10	12	5	9	9	9	12	7	13	14	7	7	5	14	11	257	10.7	11
" 12,	13	7	14	8	14	7	10	5	6	5	6	4	6	5	8	9	15	5	15	7	15	9	15	8	15	9	15	12	15	11	14	13	14	10	13	7	14	8	10	8	10	8	8	10	13	7	12	4	186	7.7	13
" 13,	10	6	16	8	15	13	15	11	14	7	14	5	15	6	15	8	16	11	16	11	16	11	16	11	17	11	15	12	17	11	16	7	15	8	16	6	15	6	13	4	9	5	10	4	9	4	7	5	191	8.0	15
" 14,	13	7	13	7	14	6	14	12	15	10	15	12	15	11	15	12	14	11	15	13	15	16	15	11	14	11	15	10	16	12	15	12	15	11	15	12	15	11	14	7	12	8	13	10	14	13	12	7	252	10.5	14
" 15,	9	6	14	10	14	12	14	12	14	9	15	9	14	9	15	9	16	12	15	11	15	15	15	13	17	12	16	10	15	9	15	9	14	8	16	6	15	5	11	6	9	5	8	6	8	3	9	2	208	8.7	14
" 16,	6	4	10	6	4	3	5	4	5	4	5	5	7	6	10	6	15	8	15	10	17	7	21	8	22	9	21	8	14	8	17	9	19	7	17	5	17	5	15	3	10	7	12	2	9	2	9	2	138	5.8	14
" 17,	7	2	12	4	15	6	15	2	17	3	10	5	17	8	16	10	16	13	18	9	17	11	19	17	19	20	20	14	21	11	18	13	17	12	17	8	16	6	15	6	14	11	13	9	13	6	13	3	209	8.7	17
" 18,	14	8	14	10	15	11	17	7	18	5	16	8	15	8	27	10	18	15	19	13	19	16	20	14	19	20	19	20	18	15	17	16	16	12	17	11	16	9	15	9	15	12	13	4	14	4	15	5	262	10.9	17
" 19,	16	6	16	9	16	13	4	8	29	15	8	9	6	13	4	9	7	16	30	6	4	4	7	12	9	11	7	13	10	11	6	6	6	3	...	1	1	3	8	10	9	15	7	11	10	10	7	11	225	9.4	8
" 20,	9	13	6	9	7	11	7	13	7	17	6	20	7	16	6	8	7	21	8	24	7	24	7	25	7	25	9	22	12	8	11	11	7	11	6	13	7	14	8	18	7	20	7	20	6	19	6	16	398	16.6	7
" 21,	7	12	8	14	6	17	7	16	9	8	28	4	32	5	15	3	5	5	6	6	7	10	14	6	15	12	16	11	15	9	16	7	17	3	...	1	...	1	...	1	17	2	17	2	10	2	10	4	161	6.7	10
" 22,	15	2	16	3	17	2	27	2	2	2	7	5	7	6	8	4	8	3	9	3	16	12	14	7	10	4	16	3	29	7	32	6	3	3	6	4	7	2	32	2	1	9	32	13	2	9	3	6	119	5.0	5
" 23,	3	2	...	1	...	1	8	6	6	15	7	18	7	18	6	17	7	22	7	21	7	23	7	21	6	26	7	26	7	22	6	19	7	21	6	21	6	22	7	25	7	23	7	23	8	28	6	19	440	18.3	7
" 24,	7	19	7	19	7	20	6	17	7	18	7	17	7	19	7	21	8	22	8	22	8	19	8	20	8	21	8	20	8	21	8	20	8	23	8	19	7	17	7	17	7	16	6	13	7	15	7	11	446	18.6	7
" 25,	8	12	7	10	7	11	7	10	6	13	6	13	6	14	7	14	7	16	7	15	7	17	7	18	7	17	8	18	7	16	7	16	7	18	9	12	6	9	7	9	11	9	12	9	9	13	7	7	316	13.2	7
" 26,	4	5	7	7	8	12	10	7	8	5	8	7	15	5	4	5	7	20	7	18	8	17	7	23	8	24	7	27	8	24	7	26	7	23	7	23	7	21	7	22	7	20	7	19	7	18	7	18	396	16.5	7
" 27,	7	14	6	17	7	16	8	19	7	17	8	16	8	14	7	17	8	18	8	16	7	12	7	15	8	17	7	16	8	15	7	15	8	17	7	16	8	12	7	10	7	9	6	6	7	7	6	8	339	14.1	7
" 28,	5	9	6	9	6	6	6	7	8	4	15	6	10	4	30	5	6	3	20	5	4	6	15	8	16	9	16	8	16	10	7	3	30	6	...	1	7	4	6	7	7	14	7	12	7	10	15	7	163	6.8	9
" 29,	18	9	17	20	18	20	18	25	18	27	18	31	18	29	23	30	20	31	4	22	28	20	28	12	20	28	19	26	18	21	18	19	18	25	21	19	19	24	18	29	19	27	18	9	6	10	8	9	522	21.7	19
" 30,	30	15	31	20	30	15	8	12	7	12	14	5	12	8	12	9	14	6	6	4	27	10	13	10	5	17	1	13	32	11	21	16	18	26	18	24	18	27	18	24	18	21	18	20	18	27	18	30	382	15.9	18
" 31,	19	24	20	21	19	17	19	22	18	30	19	31	18	34	18	33	18	29	20	22	18	29	18	30	19	25	18	29	18	27	18	27	18	25	18	26	18	20	17	25	18	28	18	31	18	26	18	27	638	26.6	18
Sums,	...	302	...	344	...	360	...	347	...	356	...	366	...	372	...	383	...	455	...	440	...	462	...	461	...	501	...	491	...	453	...	428	...	429	...	360	...	361	...	374	...	393	...	346	...	341	...	312	9437	393.3	...
Hourly Means,	...	9.7	...	11.1	...	11.6	...	11.2	...	11.5	...	11.8	...	12.0	...	12.4	...	14.7	...	14.2	...	14.9	...	14.9	...	16.2	...	15.8	...	14.6	...	13.8	...	13.8	...	11.6	...	11.6	...	12.1	...	12.7	...	11.2	...	11.0	...	10.1	304.4	12.7	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR MAY, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	1.39	7.23	2.55	0.74	−1.16	+6.49	E 10° S
2 „	1.71	7.39	3.48	0.74	1.77	6.65	E 15° S
3 „	1.68	7.87	3.68	0.74	2.00	7.13	E 16° S
4 „	1.77	8.19	3.13	0.81	1.36	7.38	E 10° S
5 „	1.90	8.10	2.90	1.03	1.00	7.07	E 8° S
6 „	1.74	8.16	3.55	1.03	1.81	7.13	E 14° S
7 „	1.74	8.35	3.81	0.84	2.07	7.51	E 15° S
8 „	2.06	8.32	2.87	1.65	0.81	6.67	E 7° S
9 „	1.48	10.23	4.32	1.35	2.84	8.88	E 18° S
10 „	1.77	10.55	3.35	1.10	1.58	9.45	E 10° S
11 „	2.16	9.94	4.19	1.45	2.03	8.49	E 13° S
Noon.	1.35	10.23	4.61	1.48	3.26	8.75	E 20° S
1 p.	1.32	10.13	5.90	2.19	4.58	7.94	E 30° S
2 „	1.35	9.06	6.48	1.77	5.13	7.29	E 35° S
3 „	1.35	8.39	6.19	1.48	4.84	6.91	E 35° S
4 „	1.29	8.03	5.74	1.52	4.45	6.51	E 34° S
5 „	1.16	8.42	5.45	1.48	4.29	6.94	E 32° S
6 „	1.00	7.13	4.29	1.35	3.29	5.78	E 30° S
7 „	1.23	7.06	4.55	1.13	3.32	5.93	E 29° S
8 „	1.00	7.87	4.58	1.06	3.58	6.81	E 28° S
9 „	1.35	8.65	4.42	1.16	3.07	7.49	E 22° S
10 „	1.45	7.52	3.77	0.74	2.32	6.78	E 19° S
11 „	1.35	8.23	3.29	0.65	1.94	7.58	E 14° S
Midt.	1.35	6.90	3.55	0.68	−2.20	+6.22	E 19° S
Mean, ...	1.50	8.41	4.19	1.17	−2.70	+7.24	E 20° S

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
May 1	28.04	27.99	28.00	73	74	70	75	70	S	4	S	4	SW	4
„ 2	.10	28.06	.06	72	72	70	75	70	SE	4	SE	4	SE	5
„ 3	.14	.09	.10	72	73	72	75	70	SE	4	SE	5	SE	4
„ 4	.13	.12	.09	73	74	72	75	71	SE	3	SE	3	SE	4
„ 5	.17	.10	.13	74	75	72	77	72	S	2	S	3	SSW	4
„ 6	.17	.11	.12	75	75	73	76	72	S	3	SSW	4	S	4
„ 7	.18	.13	.12	75	76	73	76	72	S	3	S	4	SW	4
„ 8	.21	.14	.17	72	70	70	75	70	E	4	E	5	E	4
„ 9	.22	.16	.19	74	74	71	77	70	ESE	4	ESE	3	ESE	4
„ 10	.14	.07	.08	72	72	71	76	71	SE	4	SE	5	SE	4
„ 11	.15	.12	.11	73	75	73	77	71	S	4	S	4	S	3
„ 12	.18	.10	.12	74	75	74	77	72	S	3	SE	4	SW	4
„ 13	.16	.08	.07	75	74	73	77	73	S	4	S	4	S	4
„ 14	.11	.07	.05	75	75	74	76	73	S	4	S	4	S	4
„ 15	.13	.08	.12	76	76	74	76	73	SW	4	S	4	S	4
„ 16	.14	.08	.07	76	76	75	77	73	S	3	S	3	S	4
„ 17	.12	.05	.03	75	76	74	77	74	SW	4	SW	5	S	4
„ 18	.06	.01	.01	74	77	74	78	73	S	4	S	4	S	4
„ 19	.06	.01	.03	72	71	70	78	70	SE	3	S	4	SE	4
„ 20	.08	.03	.03	71	70	71	71	70	E	4	SE	5	SE	4
„ 21	.08	.04	.05	70	71	70	73	70	SE	5	S	4	S	3
„ 22	.09	.03	.03	72	72	71	74	68	S	4	NW	3	SW	4
„ 23	.06	.02	.01	72	68	67	72	67	E	4	E	4	E	5
„ 24	.00	27.98	.02	68	70	67	71	66	SE	4	SE	3	E	3
„ 25	.07	28.02	.00	68	69	68	72	67	E	4	E	5	SE	5
„ 26	.02	27.95	27.95	69	68	67	72	67	SE	4	E	4	E	4
„ 27	.00	.93	.92	69	73	69	73	67	E	2	E	3	SE	3
„ 28	27.98	.93	.92	75	72	71	75	69	S	4	S	5	S	5
„ 29	.93	.91	.90	76	75	72	76	70	SW	6	SW	7	SW	6
„ 30	.92	.88	.85	73	74	76	77	71	SW	5	SW	6	S	6
„ 31	27.89	27.87	27.88	76	77	76	78	76	SW	6	SW	6	SW	5
Mean,	28.088	28.037	28.040	72.9	73.2	71.6	75.3	70.6	S 17° E	3.9	S 15° E	4.2	S 14° E	4.2

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
May 1, ...	10	cum-nim.	...	10	str-cum.	...	9	R-cum.	S	10	R-cum.	S
„ 2, ...	10	cum-nim.	S	10	cum.	SSW	9	cum. / R-cum.	SSW / E	7	cum.	S
„ 3, ...	10	cum-nim.	...	10	str-cum.	...	10	str.	E	9	cum. / cum.	SSW / SE
„ 4, ...	4	cum.	...	7	cum.	...	7	cum. / R-cum.	SSW / E	4	c-cum. / cum.	WSW / SW
„ 5, ...	10	cum.	...	8	cum.	S	7	cum.	S	7	cum.	S
„ 6, ...	2	c-cum.	...	3	c-cum.	...	4	c-cum. / cum.	W / ..	3	cum.	W
„ 7, ...	9	cum.	S	8	cum.	S	7	sm-cum. / cum.	W / SSW	3	sm-cum. / cum.	W / SSE
„ 8, ...	10	str-cum.	S	10	cum.	...	8	cum. / R-cum.	S / E	9	R-cum.	E
„ 9, ...	10	str-cum.	...	10	cum-nim.	...	4	c-cum. / R-cum.	W / ESE	3	c-cum. / R-cum.	W / ESE
„ 10, ...	10	cum.	S	3	sm-cum.	...	1	c-cum. / cum.	SE	7	cum.	SSE
„ 11, ...	8	cum.	SW	1	cum.	...	5	c-cum. / cum.	WSW / S	7	c-str. / o-cum. / cum.	.. / WSW / S
„ 12, ...	8	c-str. / cum.	SSW	9	cum.	SSW	8	cum.	SSW	9	c-str. / cum.	WNW / S
„ 13, ...	9	sm-cum. / cum.	S	7	cum.	S	3	c-str. / cum.	S	7	c-str. / cum.	W / SSW
„ 14, ...	8	cum.	S	7	cum.	S	6	c-cum. / cum.	W / S	7	c-cum. / cum.	W / S
„ 15, ...	10	cum.	S	8	cum.	S	7	c-str. / cum.	W / S	6	c-cum. / cum.	W / SSW
„ 16, ...	10	c-str. / cum.	SSW	7	cum.	S	4	cum.	SSW	5	cum.	SSW
„ 17, ...	10	cum.	S	5	cum.	S	2	cum.	S	7	cum.	SSW
„ 18, ...	9	cum.	S	5	cum.	S	8	c-str. / cum.	W / SSW	7	c-str. / o-cum. / cum.	SW
„ 19, ...	10	cum.	S	10	cum-nim.	...	10	nim.	...	10	nim.	S
„ 20, ...	10	cum-nim.	S	10	nim.	S	10	nim.	E	10	cum. / R-cum.	WSW / E
„ 21, ...	10	nim.	S	10	cum-nim.	S	10	nim.	S	10	nim.	S
„ 22, ...	10	nim.	...	10	nim.	...	10	cum.	W	10	R-cum.	...
„ 23, ...	10	cum.	...	10	cum.	...	10	R-cum.	E	10	R-cum.	E
„ 24, ...	10	cum-nim.	...	10	cum-nim.	...	10	sm-cum. / cum.	SSE	10	cum.	W
„ 25, ...	10	cum-nim.	...	10	cum-nim.	...	10	nim.	...	10	nim.	E
„ 26, ...	10	nim.	...	10	nim.	...	10	nim.	SW	10	nim.	E
„ 27, ...	10	nim.	...	10	nim.	...	10	nim.	...	10	nim.	E
„ 28, ...	10	nim.	...	10	cum-nim.	...	8	c-cum. / sm-cum / cum.	W / SW	7	sm-cum. / cum.	W / SW
„ 29, ...	10	cum-nim.	...	10	nim.	...	10	nim.	S	10	nim.	S
„ 30, ...	10	nim.	...	10	nim.	...	10	nim.	...	10	nim.	SW
„ 31, ...	10	cum-nim.	SW	10	cum-nim.	SW	9	sm-cum. / cum.	W / SW	9	cum-nim	SW
Mean, ...	9.3	...	...	8.3	...	...	7.6	...	...	7.8	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
May 1,...	10	cum-nim.	SSW	10	R-cum.	SSW	10	R-cum.	SSW	10	cum-nim.	...	9.9
" 2,...	9	cum. / cum.	S / E	10	cum. / R-cum.	S / E	10	cum-nim.	E	10	cum-nim.	...	9.4
" 3,...	4	cum. / cum.	SSW / SE	8	sm-cum. / cum.	W / SE	4	cum.	S	1	cum.	...	7.0
" 4,...	9	cum.	SSW	5	cum.	S	8	cum.	S	1	cum.	...	5.6
" 5,...	2	cum.	S	5	cum.	S	1	cum.	S	0	...	...	5.0
" 6,...	2	c-cum. / cum.	W / W	4	c-cum. / cum.	W / SW	10	c-cum. / cum.	W / W	10	cum.	...	4.7
" 7,...	4	cum.	SSW	2	c-str.	W	7	c-str. / cum.	W / W	9	c-str.	W	6.1
" 8,...	10	cum-nim.	E	10	R-cum.	E	9	c-cum. / cum. / R-cum.	S / S / E	10	cum-nim.	ESE	9.5
" 9,...	7	c-cum. / sm-cum. / cum.	W / W / ESE	2	cum.	ESE	4	c-str.	W	4	c-str. / cum.	W / ESE	5.5
" 10,...	4	cum.	SSE	7	c-str. / cum.	S	4	c-str. / cum.	S / S	8	cum.	SSW	5.5
" 11,...	6	c-str. / cum.	S	9	c-str. / cum.	W / S	9	c-str. / cum.	W / S	7	c-str. / cum.	SSE	6.5
" 12,...	7	c-str. / cum.	WNW / SSW	7	c-str. / c-cum. / cum.	WNW / W / S	7	c-cum. / cum.	W / S	7	c-str. / cum.	WNW / SSE	7.8
" 13,...	8	cum.	SSW	10	c-str. / sm-cum / cum.	.. / W / SSW	9	c-str. / sm-cum. / cum.	.. / W / SSW	9	sm-cum. / cum.	W / SW	7.7
" 14,...	10	cum.	S	9	c-str. / cum.	SSW	10	c-str. / c-cum. / cum.	.. / W / S	10	c-str. / cum.	S	8.4
" 15,...	7	c-str. / cum.	W / SSW	7	c-str. / cum.	W / SSW	7	c-str. / sm cum. / cum.	W / W / SSW	4	c-str. / cum.	W / SSW	7.0
" 16,...	6	cum.	SSW	2	c-str. / cum.	SSW	9	c-str. / cum.	SW	1	c-str.	...	5.5
" 17,...	5	cum.	SSW	5	c-cum. / cum.	SSW	2	c-str. / cum.	SSW	5	cum.	S	5.1
" 18,...	3	c-str. / cum.	W / SW	6	c-str. / cum.	SW	10	c-str. / cum.	SW	8	cum.	SSW	7.0
" 19,...	10	cum-str.	S	10	nim.	...	10	cum-str.	...	10	nim.	...	10.0
" 20,...	10	R-cum.	E	10	R-cum.	SE	10	cum. / R-cum.	WSW / E	9	cum.	...	9.9
" 21,...	10	cum-nim.	S	10	sm-cum. / cum.	W / S	10	cum-nim.	...	10	cum-nim.	...	10.0
" 22,...	10	R-cum.	W	10	R-cum.	W	10	R-cum.	...	7	cum.	...	9.6
" 23,...	10	R-cum.	E	10	nim.	E	10	cum-nim.	E	10	cum-nim.	...	10.0
" 24,...	10	str-cum.	W	10	str.	...	10	nim.	W	10	cum-nim.	...	10.0
" 25,...	10	nim.	E	10	nim.	E	10	nim.	E	10	nim.	...	10.0
" 26,...	10	nim.	E	10	cum-nim.	E	10	cum-nim.	E	10	nim.	...	10.0
" 27,...	8	sm-cum. / cum.	W / SE	9	sm-cum. / cum-nim.	W / ESE	10	cum-nim.	ESE	10	nim.	...	9.6
" 28,...	9	sm-cum. / cum.	W / SW	10	str-cum. / cum.	SSW	10	c-str. / cum.	SSW	10	cum-nim.	...	9.3
" 29,...	10	nim.	SSW	10	nim.	SW	10	nim.	WSW	10	cum-nim.	...	10.0
" 30,...	10	nim.	SW	10	nim.	SW	10	sm-cum. / cum-nim.	SW	10	cum-nim.	SW	10.0
" 31,...	10	R-cum.	SW	10	nim.	SW	8	c-str. / R-cum.	SSW	8	cum-nim.	SW	9.2
Mean,...	7.7	...	...	8.0	...	...	8.3	...	...	7.7	...	...	8.1

HONGKONG OBSERVATORY.

Weather Report for June, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 1st, 3rd, 4th, 6th, 7th and 22nd.

Solar corona: on the 7th and 28th.

Lunar halo: on the 3rd, 5th, 7th, 9th, 10th, 11th and 20th.

Lunar corona: on the 4th, 11th, 12th, 13th and 14th.

Slight fog: on the 2nd, 3rd and 18th.

Unusual Visibility: on the 8th, 24th, 26th, 27th and 28th.

Dew: on the 2nd, 8th, 11th and 12th.

Rainbow: on the evenings of 22nd and 29th.

Lightning without thunder: on the 1st, 2nd, 7th, 8th, 11th, 20th, 22nd, 24th and 30th.

Thunder without lightning: on the 2nd, 7th, 8th and 19th.

Thunder and lightning: on the 3rd, 1 a.—6 a. 10th, 1 a.—4 a. 15th, 8 a. 18th 5 p.

Thunderstorms: on the 4th, 3.30 a.—6 a. in S; nearest at 5.20 a. (25s.). On the 5th, 9 a.—11 a. passing from S—N; nearest at 9.56 a. (21s.). On the 9th 5 a.—7 a. in S; nearest at 5.41 a. (6s.). On the 16th, 6.15 p.—9 p. in S; nearest at 7.05 p. (17s.), at 8.29 p. (6s.). Lightning and thunder continued till 5 a. 17th. On the 17th, 12.15 p.—1.30 p. in W; nearest at 12.37 p. (11s.).

The Total Distance traversed by, as well as the duration and average velocity of the wind from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	46	11	4.2
NE	74	14	5.3
E	1322	115	11.5
SE	565	67	8.4
S	3751	317	11.8
SW	1597	104	15.4
W	353	37	9.5
NW	133	18	7.4
Calm	29	37	0.8

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JUNE, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
June 1,...	29.589	29.593	29.573	29.583	29.586	29.596	29.611	29.638	29.640	29.642	29.638	29.625	29.600	29.589	29.562	29.562	29.549	29.587	29.592	29.591	29.612	29.628	29.636	29.640	29.603
„ 2,...	.622	.595	.595	.592	.593	.596	.593	.593	.616	.615	.602	.591	.592	.609	.586	.567	.542	.566	.590	.592	.592	.594	.608	.615	.594
„ 3,...	.601	.591	.591	.592	.588	.596	.595	.610	.616	.613	.612	.612	.604	.589	.574	.570	.582	.580	.593	.599	.620	.639	.650	.639	.602
„ 4,...	.641	.640	.634	.634	.641	.663	.688	.688	.692	.692	.693	.688	.683	.671	.646	.630	.621	.640	.677	.690	.697	.694	.718	.712	.670
„ 5,...	.711	.698	.698	.692	.703	.714	.738	.742	.756	.750	.741	.734	.729	.716	.691	.683	.674	.688	.699	.715	.727	.732	.737	.732	.717
„ 6,...	.696	.696	.690	.690	.688	.707	.717	.725	.730	.729	.722	.702	.688	.658	.647	.641	.638	.640	.641	.664	.678	.688	.693	.679	.685
„ 7,...	.657	.634	.638	.640	.639	.657	.664	.682	.689	.691	.691	.680	.653	.637	.626	.604	.599	.605	.618	.637	.649	.656	.638	.620	.646
„ 8,...	.603	.592	.592	.591	.594	.613	.628	.635	.637	.640	.637	.606	.599	.592	.595	.580	.570	.582	.584	.599	.626	.636	.637	.631	.608
„ 9,...	.627	.599	.596	.596	.601	.618	.637	.637	.640	.649	.640	.638	.636	.620	.594	.579	.572	.584	.605	.635	.639	.641	.640	.635	.619
„ 10,...	.615	.596	.584	.587	.591	.597	.618	.628	.632	.632	.624	.613	.597	.598	.575	.545	.579	.594	.596	.596	.623	.632	.631	.609	.604
„ 11,...	.595	.592	.584	.573	.579	.592	.590	.595	.600	.606	.612	.597	.588	.565	.543	.545	.540	.548	.584	.595	.632	.644	.650	.636	.591
„ 12,...	.619	.600	.610	.615	.633	.641	.643	.650	.660	.664	.663	.666	.647	.636	.622	.612	.595	.605	.627	.643	.667	.680	.688	.684	.640
„ 13,...	.683	.681	.668	.674	.664	.672	.688	.692	.713	.716	.710	.697	.687	.676	.654	.636	.628	.631	.639	.657	.671	.680	.686	.677	.674
„ 14,...	.668	.648	.639	.640	.637	.640	.641	.654	.681	.675	.657	.642	.637	.620	.589	.574	.576	.572	.583	.592	.605	.620	.621	.611	.626
„ 15,...	.591	.589	.565	.546	.540	.532	.538	.548	.547	.543	.541	.525	.538	.508	.505	.487	.478	.473	.469	.492	.516	.531	.518	.500	.526
„ 16, .	.488	.494	.493	.492	.499	.521	.534	.532	.540	.545	.561	.546	.550	.540	.521	.498	.529	.529	.549	.573	.582	.591	.594	.598	.537
„ 17,...	.606	.599	.581	.534	.593	.613	.628	.645	.663	.682	.682	.678	.680	.665	.670	.684	.682	.687	.683	.710	.735	.766	.749	.738	.667
„ 18,...	.732	.715	.699	.707	.718	.736	.750	.765	.764	.774	.773	.748	.734	.727	.724	.726	.718	.709	.732	.733	.732	.737	.738	.724	.734
„ 19,...	.716	.718	.707	.704	.715	.722	.735	.744	.739	.737	.739	.734	.724	.690	.672	.649	.660	.683	.689	.689	.707	.706	.697	.702	.707
„ 20,...	.686	.682	.677	.684	.690	.708	.718	.729	.733	.729	.715	.692	.685	.672	.656	.641	.633	.633	.647	.673	.690	.701	.716	.696	.687
„ 21,...	.685	.680	.674	.660	.667	.680	.697	.705	.716	.712	.709	.692	.681	.674	.656	.637	.636	.661	.664	.675	.691	.709	.715	.699	.682
„ 22,...	.689	.674	.672	.670	.676	.679	.693	.698	.724	.723	.722	.695	.691	.680	.656	.646	.644	.665	.681	.687	.706	.715	.709	.705	.687
„ 23,...	.688	.683	.676	.677	.686	.693	.697	.709	.711	.709	.710	.699	.692	.675	.646	.620	.613	.623	.636	.646	.669	.678	.680	.667	.674
„ 24,...	.649	.645	.641	.638	.636	.649	.657	.658	.672	.671	.675	.668	.659	.643	.631	.610	.607	.617	.642	.667	.687	.700	.697	.688	.654
„ 25,...	.667	.663	.647	.656	.671	.692	.699	.729	.738	.734	.734	.729	.704	.689	.686	.681	.678	.690	.723	.757	.756	.771	.753	.739	.708
„ 26,...	.730	.721	.725	.733	.743	.776	.788	.804	.807	.819	.812	.786	.782	.782	.760	.739	.737	.738	.751	.755	.773	.783	.783	.783	.767
„ 27,...	.775	.765	.754	.751	.768	.778	.794	.801	.814	.814	.805	.790	.788	.762	.744	.726	.726	.729	.743	.758	.772	.780	.786	.790	.771
„ 28, ..	.778	.765	.752	.753	.760	.763	.767	.776	.785	.786	.791	.787	.780	.769	.750	.739	.742	.750	.765	.780	.791	.799	.789	.783	.771
„ 29,...	.780	.775	.772	.754	.755	.761	.774	.772	.781	.785	.783	.780	.769	.751	.738	.726	.715	.715	.716	.738	.743	.770	.765	.767	.758
„ 30,...	.747	.729	.720	.709	.711	.711	.726	.727	.729	.727	.719	.710	.695	.677	.662	.650	.637	.638	.645	.664	.678	.699	.702	.690	.696
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	29.664	29.655	29.648	29.647	29.652	29.664	29.675	29.684	29.692	29.693	29.690	29.678	29.670	29.656	29.639	29.626	29.623	29.632	29.645	29.660	29.676	29.687	29.687	29.680	29.663

TABLE II.

TEMPERATURE FOR THE MONTH OF JUNE, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
June 1,	83.7	83.4	83.7	83.5	82.9	83.4	83.8	83.8	84.8	86.2	86.0	86.7	87.7	87.7	86.3	85.9	85.2	84.9	83.9	83.5	83.8	83.8	84.1	83.6	84.7	88.3	82.9
" 2,	83.8	83.6	83.6	83.8	83.8	83.5	83.8	82.9	84.3	85.3	83.9	85.7	82.1	75.9	75.7	75.1	76.0	76.1	76.5	75.8	75.5	76.4	76.3	76.1	80.2	86.1	75.1
" 3,	76.1	76.0	75.9	76.3	76.2	76.2	77.2	76.3	78.3	79 5	81.9	81.8	81.8	82.1	81.8	80.9	80.0	79.8	79.7	78.8	78.9	78.1	78.1	77.9	78.7	83.4	75.8
" 4,	77.9	78.3	78.2	78.4	78.5	75.8	76.4	77.0	79.1	80.8	82.1	82.1	83.0	83.9	83.1	82.5	81.9	81.4	81.0	81.1	80.9	80.5	80.1	80.0	80.2	85.7	75.4
" 5,	79.7	79.5	79.4	79.1	79.1	79.9	81.4	81.2	81.7	77.7	83.2	83.7	79.8	84.7	83.2	82.2	82.3	81.8	80.9	80.5	80.1	79.9	79.7	79.7	80.8	86.6	77.4
" 6,	79.6	79.5	79.3	80.2	79.6	79.7	80.7	83.0	85.3	85.8	85.6	85.6	86.1	87.8	88.3	86.2	84.3	83.1	82.8	82.2	82.3	82.7	82.7	82.6	83.1	89.6	79.1
" 7,	82.5	82.5	80.3	78.4	79.6	81.0	82.7	82.3	83.6	84.2	86.3	87.8	85.1	86.0	85.0	84.2	83.4	79.0	80.7	82.3	83.0	83.1	82.2	82.7	82.8	88.3	77.8
" 8,	82.8	82.6	82.1	82.3	82.5	82.8	83.7	84.4	83.7	80.6	84.5	83.7	83.1	78.3	79.5	79.3	79.1	79.9	80.0	80.4	80.4	80.7	81.1	81.7	81.6	85.2	77.4
" 9,	81.7	81.7	81.7	81.6	81.6	80.3	78.9	82.7	81.2	80.1	80.1	81.2	80.5	80.2	80.4	81.6	81.2	80.9	80.5	80.6	80.2	80.8	80.9	80.9	80.9	83.0	77.8
" 10,	80.7	80.3	79.2	79.7	79.9	79.9	80.7	82.6	82.8	83.8	84.5	86.1	84.4	79.0	79.1	78.1	78.9	79.1	79.0	78.9	78.8	78.6	78.0	77.9	80.4	86.7	77.9
" 11,	77.6	78.1	77.9	77.9	78.0	78.2	79.7	81.0	80.1	82.5	82.4	82.5	81.5	80.5	82.1	80.3	80.2	79.6	79.2	78.9	78.1	78.1	77.9	77.2	79.6	84.4	76 6
" 12,	76.6	76.8	76.9	76.8	76.6	77.4	79.0	80.9	82.8	82.8	83.1	83.5	83.1	84.6	83.5	82.4	81.9	81.0	80.2	80.0	79.8	78.9	78.8	78.5	80.2	85.3	76.6
" 13,	77.9	77.5	77.8	77.1	77.8	78.1	79.0	80.9	80.3	81.9	83.1	83.6	83.2	82.9	81.8	81.2	80.1	79.9	79.3	79.5	79.9	79.9	79.7	79.7	80.1	84.1	77.1
" 14,	79.1	79.4	79.1	79.1	78.7	77.7	78.8	79.5	80.5	81.0	81.8	82.8	82.0	82.2	81.4	81.5	81.1	80.7	80.3	80.0	79.9	79.6	79.3	79.3	80.2	83.4	76.3
" 15,	79.2	79.2	79.2	79.3	78.4	78.8	79.9	78.2	78.3	78.9	80.2	82.2	83.5	83.5	84.3	84.7	84.1	82.3	82.9	83.3	83.7	84.7	84.4	84.3	81.6	85.2	77.5
" 16,	83.5	83 9	83.7	83.0	83.1	82.9	83.7	84.6	82.1	80.1	81.1	81.4	82.6	84.0	84.2	83.4	81.3	79.1	80.4	79.1	81.2	79.3	80.5	80.9	82.0	85.1	78.1
" 17,	81.1	81.1	81.5	81.9	79.5	79.5	80.8	80.1	80.9	81.9	81.9	81.3	77.5	82.6	81.3	79.0	79.8	79.2	79.2	79.1	79.4	79.4	80.0	80.2	80.3	82.9	77.5
" 18,	81.5	81.8	81.8	81.9	81.9	82.1	81.9	82.6	86.1	86.0	84.3	81.6	85.4	85.1	84.4	80.9	80.0	78.9	78.9	79.1	80.8	81.4	81.0	81.5	82.1	87.4	78.8
" 19,	81.6	81.7	81.4	82.1	82.1	82.7	83.4	84.0	84.0	84.6	85.3	87.5	86.6	86.6	86.3	86.3	84.6	83.5	83.5	81.8	82.7	82.4	81.6	81.7	83.7	88.0	81.4
" 20,	81.3	81.1	81.2	81.6	81.5	81.2	82.2	83.7	81.3	85.7	85.9	85.6	86.9	85.4	87.2	86.3	86.0	84.3	83.7	84.2	83.4	83.4	83.0	82.6	83.7	88.5	80.9
" 21,	82.2	82.4	82.5	82.3	82.1	82.4	83.5	81.9	86.1	85.0	85.5	86.0	84.7	84.5	83.3	84.1	84.0	83.3	83.4	83.4	83.1	83.5	83.0	83.4	83.6	86.6	81.9
" 22,	82.8	82.8	82.6	82.5	82.5	82.5	83.8	85.5	87.6	87.1	87.3	84.7	84.4	84.1	84.6	85.5	84.2	84.0	81.6	81.6	81.3	80.9	81.8	82.8	83.7	87.9	80.0
" 23,	82.6	82.2	82.1	82.1	82.1	82.4	83.4	85.0	84.4	85.5	85.6	87.5	86.4	87.4	84.6	83.5	84.8	83.4	83.4	83.2	82.9	82.7	81.8	82.0	83.8	89.0	81.0
" 24,	82.2	82.1	81.0	81.2	81.5	81.8	83.2	84.8	85.3	86.4	86.7	87.5	86.1	88.0	87.1	85.2	85.4	84.1	83.2	83.3	83.2	82.6	81.8	81.8	84.0	88.4	80.3
" 25,	82.2	79.2	81.0	81 5	81.8	82.1	82.2	80.7	83.2	85.7	84.3	88.8	86.8	86.9	86.9	86.4	86.3	84.1	83.8	83.2	82.4	82.4	82.4	82.4	83.6	89.3	79.2
" 26,	82.1	81.9	81.9	81.5	81.7	82.0	79.2	80.1	84.3	84.4	86.2	86.2	86.1	86.0	87.0	85.0	83.9	83.2	82.7	82.7	82.3	82.6	82.3	82.2	83.2	88.3	79.2
" 27,	81.5	81.3	81.2	80.9	78.7	79.0	80.1	84.3	85.7	86.8	87.4	88.2	88.1	87.8	87.7	87.3	85.3	85.2	82.8	82.8	82.2	82.8	82.7	82.4	83.9	89.0	78.0
" 28,	82.1	81.9	81.8	81.8	81.2	81.9	83.6	85.1	85.1	86.3	86.2	85.4	88.2	87.3	87.3	87.2	85.7	84.1	82.6	82.5	82.4	82.7	82.2	82.3	84 0	89.0	81.2
" 29,	81.9	81.9	81.8	81.4	81.5	82.2	83.5	83.0	84.6	84.8	84.0	82.4	86.0	85.8	81.6	83.9	83.0	82.2	81.7	81.7	81.3	82.7	81.5	82.2	82.8	86.9	81.3
" 30,	82.2	80.0	80.7	80.9	81.0	82.4	82.9	83.4	84.1	84.8	84.4	85.9	85.5	86.3	83.9	81.2	83.5	83.6	80.7	80.7	81.4	82.0	81.4	80.7	82.7	88.0	78.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means,	81.0	80.8	80.7	80.7	80.5	80.7	81.4	82.2	83.1	83.5	84.2	84.6	84.3	84.2	83.8	83.0	82.6	81.7	81.3	81.1	81.2	81.2	81.0	81.0	82.1	86.7	78.6

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF JUNE, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means	Solar Max.
June 1,...	79.8	79.9	79.9	79.8	79.9	79.9	80.0	80.3	80.3	81.2	80.4	80.1	81.1	80.6	81.0	80.6	80.8	80.4	80.0	80.5	80.3	80.1	80.0	80.8	80.3	145.9
„ 2,...	80.0	79.5	79.6	79.5	79.7	79.9	80.0	80.2	80.0	80.3	79.9	80.9	80.3	74.2	74.3	73.9	74.0	74.9	74.6	74.4	74.3	74.6	74.3	74.9	77.4	141.7
„ 3,...	74.9	74.8	74.8	75.1	74.6	74.3	75.7	75.0	75.7	76.4	77.9	77.8	78.2	77.7	78.1	78.1	77.8	77.5	77.7	77.5	77.8	77.2	77.1	77.0	76.6	143.6
„ 4,...	76.9	77.1	76.9	77.0	76.8	73.3	73.4	75.0	75.6	77.8	78.1	77.7	78.7	79.4	78.7	79.1	79.0	78.1	78.4	78.5	78 6	78.8	78.7	78.2	77.5	143.0
„ 5,...	78.3	77.4	77.4	77.3	76.9	76.8	77.6	78.6	79.2	75.9	79.9	80.3	78.2	79.6	77.7	77.9	78.9	78.6	78.1	78.0	77.9	77.7	77.8	77.7	78.1	146.0
„ 6,...	78.4	78.2	77.8	78.1	78.0	78.6	78.8	79.6	80.7	79.8	78.4	79.4	80.0	80.7	80.7	78.7	78.8	78.8	78.8	79.0	78.8	79.0	78.3	78.7	79.0	151.7
„ 7,...	78.0	78.0	75.3	75.9	76.5	77.5	79.0	78.1	79.1	79.0	79.6	79.5	79.6	80.5	79.4	79.0	78.6	77.4	78.2	78.8	78.9	78.8	79.0	78.8	78.4	153.1
„ 8,...	78.1	78.5	77.6	77.9	78.3	78.6	78.7	78.7	79.1	73.7	79.7	79.0	78.8	76.6	76.3	75.2	76.3	76.2	76.2	76.3	77.2	77.2	78.3	79.3	77.6	132.8
„ 9,...	78.9	78.7	78.5	78.5	78.9	76.3	77.2	80.6	77.7	75.9	76.7	77.8	76.5	76.4	77.5	78.0	78.5	78.7	78.8	78.8	79.4	78.5	78.0	78.4	78.0	131.0
„ 10,...	78.0	78.7	77.5	78.4	77.9	77.2	78.0	79.2	79.2	79.4	79.8	79.7	78.5	76.0	76.2	75.7	75.8	75.8	75.9	75.0	75.8	75.7	75.3	75.3	77.3	141.5
„ 11,...	75.4	75.7	75.8	75.8	76.5	76.6	77.6	77.5	76.6	77.7	77.7	78.8	78.3	78.0	78.9	77.8	77.7	76.9	76.9	76.7	76.6	76.4	76.2	76.0	77.0	131.2
„ 12,...	75.4	75.3	75.0	74.5	74.3	74.7	75.9	76.6	77.1	77.4	78.4	78.4	78.6	79.3	79.0	77.8	77.7	77.6	76.9	76.8	76.8	76.7	76.8	76.5	76.8	143.5
„ 13,...	76.2	76.3	76.2	75.8	75.6	75.5	75.8	75.6	75.1	75.6	76.8	77.2	76.7	75.9	76.1	75.7	75.5	75.5	75.1	75.4	76.2	76.2	76.6	76.3	76.0	141.2
„ 14,...	76.4	76.6	76.1	75.9	75.4	75.0	75.0	75.3	75.6	75.9	76.4	76.7	76.3	76.8	76.4	76.3	76.7	75.9	76.6	76.7	76.6	76.6	76.3	76.3	76.2	143.9
„ 15,...	76.5	76.7	76.8	76.7	76.5	76.5	76.9	76.6	77.2	77.3	78.1	79.5	79.7	79.6	78.1	79.9	79.5	80.3	79.9	79.7	79.7	79.4	79.6	79.6	78.3	106.9
„ 16,...	79.4	79.0	78.8	78.5	78.6	79.1	79.6	79.6	78.5	77.5	78.4	77.9	78.8	79.7	79.6	78.7	77.7	78.3	79.3	76.6	79.5	76.4	78.7	78.8	78.6	118.7
„ 17,...	79.0	79.2	79.3	79.3	77.2	77.5	79.0	78.0	79.1	79.4	80.1	79.9	76.7	80.0	76.5	76.5	77.3	77.9	77.8	77.7	77.6	78.2	78.6	78.7	78.4	89.0
„ 18,...	79.4	79.1	79.4	79.0	79.0	79.5	78.7	78.4	81.3	81.0	80.8	79.9	80.7	80.1	80.0	78.1	78.0	77.4	76.8	77.4	78.1	78.8	78.8	79.0	79.1	146.6
„ 19,...	78.9	78.7	78.5	78.5	78.8	78.7	78.9	78.6	80.0	80.0	80.4	80.1	80.2	80.7	81.5	80.2	78.4	79.5	78.8	79.6	79.6	79.2	78.9	78.5	79.4	145.8
„ 20,...	78.8	78.7	78.5	78.7	78.7	78.7	78.8	79.4	78.0	80.6	79.6	78.2	79.3	79.4	79.5	79.2	79.2	78.8	78.8	78.6	79.4	78.8	78.7	78.7	79.0	153.3
„ 21,...	79.2	78.8	78.3	78.5	78.6	79.1	78.7	79.0	81.0	79.3	80.4	79.9	79.7	79.7	79.6	79.7	79.5	78.5	78.7	79.4	79.0	79.3	79.3	78.4	79.2	139.8
„ 22,...	78.2	78.6	78.1	78.2	78.0	78.8	79.0	80.0	81.3	80.1	81.0	79.2	80.2	79.3	79.4	80.0	80.1	79.5	78.2	78.6	77.5	78.1	78.2	79.4	79.1	148.5
„ 23,...	79.1	78.6	78.7	78.5	78.4	77.9	78.6	79.6	79.1	80.0	78.8	80.1	79.7	79.7	78.1	77.1	77.5	78.9	78.8	78.3	78.5	78.4	78.2	77.5	78.7	151.7
„ 24,...	77.6	77.6	76.8	77.2	77.2	77.4	78.1	78.9	79.4	80.0	78.5	79.6	78.7	80.5	79.9	79.9	80.0	79.1	78.8	78.9	79.1	79.0	79.0	78.6	78.7	145.8
„ 25,...	78.5	77.7	78.3	78.6	78.5	78.0	78.1	78.8	79.0	80.3	78.6	82.2	80.5	80.1	81.0	79.6	79.3	79.1	79.0	79.2	79.1	79.0	79.0	78.6	79.2	155.8
„ 26,...	78.5	78.3	78.3	78.5	78.3	78.9	77.2	79.6	80.3	80.5	81.6	78.7	79.9	81.3	80.9	80.0	79.2	78.3	79.0	79.1	78.6	78.8	78.4	78.4	79.2	148.6
„ 27,...	78.1	78.0	77.8	77.9	74.4	75.0	77.6	79.5	79.3	79.1	78.7	78.9	80.0	78.9	79.2	80.2	78.9	79.4	77.4	77.2	77.2	77.2	77.6	77.1	78.1	148.4
„ 28,...	76.6	76.8	76.4	76.0	76.2	77.5	78.3	78.7	78.9	78.5	78.8	78.3	79.7	77.5	79.5	79.9	79.2	78.2	78.4	78.2	78.2	77.9	77.3	77.4	78.0	147.8
„ 29,...	77.3	77.1	76.9	76.8	76.8	77.3	78.1	77.6	79.1	79.2	78.3	78.6	79.7	79.5	78.5	79.2	78.5	77.4	77.9	78.3	77.5	77.3	77.3	77.5	78.0	143.8
„ 30,...	77.5	76.8	77.3	77.1	77.1	77.4	77.8	77.9	78.7	79.7	79.0	79.7	79.8	78.9	78.7	77.4	80.0	79.4	77.1	77.3	78.5	78.1	77.8	77.6	78.2	146.5
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Mean ...	77.9	77.8	77.6	77.6	77.4	77.4	77.9	78.3	78.7	78.6	79.0	79.1	79.1	78.9	78.7	78.3	78.3	78.1	77.9	77.9	78.1	77.9	77.9	77.9	78.2	140.9

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JUNE, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	87	0.915	June 1,.....	81	0.976
2 „	87	.914	„ 2,.....	88	.904
3 „	87	.906	„ 3,.....	91	.889
4 „	87	.906	„ 4,.....	88	.909
5 „	87	.900	„ 5,.....	88	.927
6 „	86	.897	„ 6,.....	83	.937
7 „	85	.910	„ 7,.....	81	.913
8 „	83	.917	„ 8,.....	83	.894
9 „	81	.923	„ 9,.....	87	.921
10 „	79	.914	„ 10,.....	87	.897
11 „	78	.922	„ 11,.....	89	.894
Noon.	77	.921	„ 12,.....	85	.878
1 p	78	.926	„ 13,.....	82	.844
2 „	78	.918	„ 14,.....	82	.851
3 „	79	.914	„ 15,.....	86	.925
4 „	80	.906	„ 16,.....	85	.934
5 „	82	.911	„ 17,.....	91	.947
6 „	85	.915	„ 18,.....	87	.955
7 „	85	.911	„ 19,.....	82	.948
8 „	86	.914	„ 20,.....	80	.929
9 „	87	.922	„ 21,.....	81	.940
10 „	86	.913	„ 22,.....	81	.934
11 „	87	.916	„ 23,.....	79	.914
Midt.	87	.915	„ 24,.....	78	.911
			„ 25,.....	81	.940
			„ 26,.....	83	.945
			„ 27,.....	76	.885
			„ 28,.....	75	.879
			„ 29,.....	80	.895
			„ 30,.....	81	.906
			...		
Mean,.....	83	0.914	Mean..	83	0.914

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
June, 1,.....	...	...	...	0.2	1.0	1.0	1.0	1.0	1.0	0.8	0.5	0.7	0.1	7.3
„ 2,.....	...	...	0.1	0.8	0.5	...	...	...	...	...	...	...	...	1.4
„ 3,.....	...	...	...	...	...	0.8	0.6	0.5	0.5	...	...	...	...	2.4
„ 4,.....	...	...	...	0.4	0.7	1.0	0.6	1.0	1.0	0.7	0.2	...	...	5.6
„ 5,.....	...	0.1	0.1	0.4	0.1	0.1	0.6	0.4	1.0	...	...	...	...	2.8
„ 6,.....	...	...	0.7	0.9	1.0	0.2	...	0.1	0.9	1.0	0.2	...	...	5.0
„ 7,.....	0.1	0.2	0.2	0.2	0.3	1.0	0.5	0.2	0.3	0.1	...	...	...	3.1
„ 8,.....	...	...	0.3	...	...	0.2	0.2	...	...	...	...	...	...	0.7
„ 9,.....	...	...	...	0.3	...	...	...	...	...	...	...	...	...	0.3
„ 10,.....	0.1	0.4	1.0	0.9	1.0	1.0	0.9	0.1	...	...	...	...	...	5.4
„ 11,.....	...	0.2	0.1	...	...	...	...	...	...	0.2	...	...	...	0.5
„ 12,.....	0.1	0.6	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.6	0.3	0.3	...	8.6
„ 13,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	...	9.9
„ 14,.....	...	0.2	0.4	0.6	0.9	1.0	1.0	1.0	1.0	0.9	1.0	1.0	0.1	9.1
„ 15,.....	...	0.2	...	...	...	...	...	...	...	...	...	...	...	0.2
„ 16,.....	...	...	0.1	...	...	...	...	...	...	...	...	...	...	0.1
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	0.4	1.0	0.9	0.6	...	0.1	0.6	0.1	...	...	...	3.7
„ 19,.....	...	...	...	0.1	0.5	0.9	0.8	0.4	0.9	0.3	0.7	0.2	...	4.8
„ 20,.....	...	...	...	0.3	0.9	0.8	0.8	0.9	0.8	0.8	0.5	0.2	...	6.0
„ 21,.....	0.1	0.1	0.5	0.8	0.2	0.1	0.4	0.2	...	0.1	...	...	...	2.5
„ 22,.....	0.1	0.7	0.9	1.0	0.9	0.8	...	...	0.5	0.1	0.6	0.6	...	6.2
„ 23,.....	...	0.9	0.9	1.0	1.0	0.9	1.0	0.7	1.0	0.7	0.7	0.7	...	9.5
„ 24,.....	...	0.5	0.9	0.8	1.0	1.0	1.0	0.6	0.8	0.8	1.0	0.9	0.3	9.6
„ 25,.....	...	...	0.1	0.6	0.8	...	0.7	0.5	0.6	0.7	1.0	1.0	0.2	6.2
„ 26,.....	0.4	0.2	0.5	0.7	1.0	1.0	0.9	0.9	0.3	0.9	0.7	0.4	...	7.9
„ 27,.....	0.3	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.5	11.0
„ 28,.....	0.4	0.8	1.0	0.7	0.8	0.7	0.6	1.0	1.0	1.0	0.9	0.8	0.3	10.0
„ 29,.....	...	0.3	0.6	0.6	0.8	0.5	...	0.7	0.6	0.1	0.8	0.5	0.1	5.6
„ 30,.....	0.3	0.5	0.9	0.9	1.0	0.9	0.7	1.0	0.9	...	0.1	0.6	0.1	7.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	1.9	7.2	12.7	16.2	18.3	17.5	15.3	14.2	16.5	11.9	11.2	8.7	1.7	153.3

TABLE VI.

RAINFALL FOR THE MONTH OF JUNE, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
June 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	0.20
„ 2,.....	...	...	...	...	...	...	...	...	...	...	...	...	0.030	0.370	0.050	0.030	...	...	...	...	...	...	...	...	0.480	3	1.30
„ 3,.....	...	...	...	0.005	...	...	0.205	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.235	1	...
„ 4,.....	...	...	...	...	...	0.235	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.235	1	0.43
„ 5,.....	...	...	...	...	...	...	...	...	...	0.075	...	...	0.045	...	...	...	...	...	...	...	...	...	...	...	0.120	1	0.44
„ 6,.....	...	...	...	...	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	1	...
„ 7,.....	...	...	0.570	0.080	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	0.660	2	0.25
„ 8,.....	0.005	...	0.020	...	...	...	...	...	0.045	0.010	...	...	0.030	0.235	...	...	...	...	...	...	...	...	...	...	0.345	2	2.10
„ 9,.....	...	...	...	...	...	0.335	0.250	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.585	2	0.16
„ 10,.....	...	...	0.285	...	...	...	...	...	...	...	...	...	...	0.055	0.025	0.005	...	...	...	...	...	...	...	...	0.370	3	0.14
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	0.150	0.065	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.215	1	...
„ 15,.....	...	...	...	...	...	...	0.110	0.120	...	0.150	...	...	...	...	...	...	0.085	0.015	...	...	...	...	...	0.050	0.530	4	0.94
„ 16,.....	...	...	...	...	...	...	...	0.005	0.030	0.015	...	...	...	...	...	...	0.015	0.205	0.450	0.270	0.270	0.090	0.170	0.200	1.720	11	2.76
„ 17,.....	0.185	0.145	0.060	0.030	0.030	0.155	0.060	0.075	0.020	0.040	0.240	0.130	0.035	0.005	0.030	0.010	...	0.010	...	...	...	0.030	0.010	...	1.300	15	0.54
„ 18,.....	...	...	...	...	...	...	...	...	...	...	0.005	0.145	...	...	...	...	0.065	...	...	...	...	...	...	...	0.215	2	0.24
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.45
„ 20,.....	...	...	...	...	...	0.130	0.010	...	0.130	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.270	1	...
„ 21,.....	...	...	...	...	...	...	...	0.025	...	...	...	...	0.020	...	0.075	...	0.055	...	...	...	...	...	...	...	0.175	2	0.26
„ 22,.....	...	...	...	...	...	...	...	...	...	...	0.035	0.130	...	...	0.005	...	...	0.040	...	0.010	0.0_0	...	...	...	0.240	2	0.57
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...	...	...	...	...	...	...	...	...	0.010	...	...
„ 24,.....	...	0.060	...	...	...	...	...	...	...	...	...	...	...	...	0.020	...	...	...	...	...	0.045	...	...	...	0.125	2	0.55
„ 25,.....	0.185	0.170	...	...	...	...	...	0.090	...	...	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	0.455	1	0.63
„ 26,.....	...	...	...	...	...	...	0.430	0.025	...	...	...	...	...	0.035	...	...	...	...	...	...	...	...	...	...	0.490	1	0.24
„ 27,.....	...	...	...	0.005	0.025	...	0.050	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.080	1	...
„ 28,.....	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.025	...	...	...	...	...	0.025	...	0.30
„ 29,.....	...	...	...	...	...	...	...	...	0.035	0.030	...	...	...	...	0.070	...	...	...	...	...	...	...	...	...	0.135	2	0.54
„ 30,.....	...	0.250	0.050	...	...	...	0.010	...	...	0.065	...	...	...	...	0.070	0.190	...	...	0.025	...	...	...	...	0.025	0.685	2	0.24
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.375	0.625	0.985	0.120	0.220	0.920	1.125	0.365	0.260	0.385	0.290	0.405	0.160	0.700	0.355	0.235	0.220	0.275	0.505	0.280	0.335	0.120	0.180	0.275	9.715	64	13.28

The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JUNE, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
June 1,	19	25	20	21	18	27	18	26	21	18	19	21	20	22	21	17	20	19	20	20	20	22	20	26	18	26	18	28	18	26	18	24	18	25	18	20	18	13	17	15	18	19	18	18	18	23	18	23	524	21.8	19
" 2,	18	23	18	19	18	21	18	19	18	23	19	26	18	28	20	23	20	29	21	25	19	27	20	21	22	20	27	21	25	14	17	7	6	5	32	6	25	4	...	1	30	2	...	1	...	1	...	0	371	15.5	20
" 3,	...	0	...	0	...	1	17	3	3	2	...	1	11	6	9	5	9	2	9	8	8	8	8	13	8	16	9	10	9	9	8	9	9	9	9	6	...	1	...	1	...	1	...	1	9	3	6	6	121	5.0	9
" 4,	7	7	6	6	6	5	7	5	6	4	20	7	1	2	9	2	7	5	8	9	8	13	8	14	8	15	7	13	10	10	7	11	9	11	15	6	15	3	16	4	17	2	9	7	8	9	9	8	178	7.4	8
" 5,	10	3	13	4	7	5	7	4	11	3	...	1	14	3	9	4	8	6	22	9	29	3	8	4	16	10	24	6	18	9	21	8	24	2	15	3	...	0	15	2	15	2	15	2	12	3	6	3	99	4.1	15
" 6,	6	2	...	1	...	1	4	2	...	1	6	3	13	3	...	0	21	3	20	9	19	12	19	12	18	9	19	9	17	10	17	13	18	9	18	8	17	5	16	5	16	6	15	7	17	6	15	7	143	6.0	18
" 7,	15	6	16	7	13	7	28	4	...	1	18	6	18	7	18	7	16	6	16	7	17	10	18	9	15	11	16	12	17	10	16	10	15	7	27	9	17	3	17	12	18	13	19	11	16	9	18	8	192	8.0	17
" 8,	18	14	18	20	19	19	19	23	19	22	19	19	20	19	19	23	20	19	18	23	18	23	18	27	18	25	28	13	25	11	26	5	32	2	...	1	9	2	...	1	...	0	32	3	23	8	23	15	347	14.5	19
" 9,	21	18	22	14	22	12	24	9	22	16	18	23	20	7	22	12	22	14	19	20	19	21	22	16	19	13	20	12	21	7	20	2	19	2	28	6	24	6	24	7	26	7	21	6	21	5	23	5	260	10.8	21
" 10,	23	8	26	7	30	13	26	16	25	14	26	7	26	6	26	8	23	9	22	12	25	14	23	11	18	15	19	16	22	16	22	16	24	16	25	13	23	12	23	10	23	9	25	4	25	2	30	2	256	10.7	24
" 11,	30	3	29	5	...	1	...	0	...	1	...	1	...	1	4	4	7	5	8	2	19	3	8	7	9	11	8	10	8	10	8	16	8	15	9	17	8	13	7	9	7	3	9	2	...	1	...	0	140	5.8	8
" 12,	...	1	11	2	11	2	...	1	8	3	8	3	...	1	10	3	11	3	10	8	8	11	8	11	8	13	8	11	9	9	9	8	9	8	10	5	12	5	13	4	13	2	...	1	13	3	13	3	121	5.0	9
" 13,	13	2	...	1	6	4	6	4	7	8	6	8	7	11	7	15	8	15	9	18	7	13	7	16	8	17	8	18	9	22	9	20	9	21	9	19	8	17	10	19	9	19	10	17	10	19	10	20	343	14.3	9
" 14,	9	19	9	18	8	15	7	13	9	16	7	16	6	15	6	16	7	20	7	20	7	20	8	17	10	21	11	22	10	22	9	25	9	23	9	22	9	26	9	25	9	23	9	22	9	18	10	15	469	19.5	9
" 15,	10	10	10	7	10	8	10	6	8	10	8	10	7	13	12	7	1	4	32	2	...	1	25	5	19	18	20	19	18	15	17	12	18	11	16	16	16	22	16	26	18	20	18	21	17	29	18	27	319	13.3	16
" 16,	18	24	18	21	17	22	18	14	17	18	17	13	18	20	18	22	17	22	19	15	18	10	16	5	16	3	17	6	16	8	16	12	18	9	1	4	14	12	14	16	14	20	15	23	15	19	16	16	354	14.7	17
" 17,	17	15	16	18	17	15	17	17	16	20	16	19	16	19	16	23	16	20	15	18	16	21	17	16	30	15	18	17	18	13	2	5	2	3	2	4	8	17	7	16	9	18	7	12	9	11	14	9	361	15.0	15
" 18,	15	17	15	16	15	14	14	17	15	12	17	12	15	9	16	8	15	11	16	12	15	11	17	12	16	14	16	19	16	15	24	15	26	11	29	7	21	3	12	4	5	3	7	2	8	4	12	4	252	10.5	16
" 19,	15	7	15	10	15	15	16	16	16	16	16	13	16	10	17	9	15	9	16	6	17	11	18	15	18	13	17	13	16	12	16	13	17	11	16	10	16	10	17	4	17	2	12	7	14	4	17	5	241	10.0	16
" 20,	15	4	13	3	13	6	15	9	17	10	16	10	16	10	17	10	16	12	17	19	18	16	20	18	20	15	17	9	20	13	18	13	19	10	17	12	17	11	18	12	17	13	18	12	17	7	16	8	262	10.9	17
" 21,	16	10	18	12	17	12	17	11	15	9	16	8	18	10	18	10	16	9	18	10	15	12	17	12	16	16	16	13	16	13	16	10	16	10	18	13	17	10	15	11	16	10	16	11	16	7	17	11	260	10.8	17
" 22,	16	8	16	8	16	9	16	10	15	12	15	16	16	18	15	18	15	21	16	17	17	20	17	17	16	15	16	20	16	18	16	15	16	16	16	14	16	9	16	13	15	12	6	9	16	18	16	17	351	14.6	16
" 23,	15	22	15	15	15	19	15	19	15	17	14	16	14	22	14	19	14	20	15	15	15	18	16	20	16	12	15	14	18	15	16	14	15	12	15	11	14	14	14	13	14	14	14	19	14	17	14	19	396	16.5	15
" 24,	14	19	15	13	15	16	16	15	15	14	16	9	15	15	15	13	16	17	16	16	16	15	15	15	16	11	16	15	16	16	16	11	15	14	14	12	15	12	16	11	15	7	17	4	12	4	16	7	301	12.5	15
" 25,	14	9	15	3	14	13	15	11	16	11	16	10	18	8	15	7	7	3	14	7	21	4	29	2	12	7	15	7	14	8	15	12	15	9	15	8	13	8	14	5	11	3	12	7	13	10	12	9	181	7.5	14
" 26,	13	9	14	11	14	9	16	9	15	7	12	5	20	6	4	7	6	7	27	4	28	7	21	7	17	8	17	8	18	6	16	9	16	9	16	8	15	8	14	7	14	7	14	9	15	7	15	8	182	7.6	15
" 27,	16	6	16	5	16	3	6	3	17	3	15	3	14	2	16	3	7	3	16	4	15	11	16	11	15	10	15	12	15	11	15	13	15	10	16	8	15	6	14	7	12	5	12	8	13	13	14	14	174	7.3	15
" 28,	14	11	13	9	14	12	14	9	15	3	11	2	14	6	16	8	14	7	16	8	19	5	19	6	18	7	16	10	16	8	15	11	15	10	15	7	14	7	13	7	13	10	14	14	14	20	15	16	213	8.9	15
" 29,	15	12	15	11	15	9	15	9	15	10	15	8	14	8	14	9	15	6	16	8	23	6	18	5	18	6	23	3	24	4	16	6	15	10	15	9	...	1	...	1	15	5	16	5	15	8	16	8	167	7.0	16
" 30,	17	10	16	12	16	16	17	13	18	12	18	8	18	13	18	15	18	16	20	12	21	17	20	16	18	11	18	11	18	17	16	8	17	8	18	15	16	6	15	7	16	12	15	12	16	10	15	15	292	12.2	13
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.....	.....	...
Sums,	...	324	...	299	...	331	...	317	...	316	...	304	...	320	...	332	...	342	...	353	...	390	...	335	...	404	...	397	...	377	...	353	...	318	...	299	...	236	...	275	...	269	...	277	...	298	...	308	7870	327.7	..
Hourly Means,	...	10.8	...	10.0	...	11.0	...	10.6	...	10.5	...	10.1	...	10.7	...	11.1	...	11.4	...	12.3	...	13.0	...	12.9	...	13.5	...	13.2	...	12.6	...	11.8	...	10.6	...	10.0	...	8.9	...	9.2	...	9.0	...	9.2	...	9.9	...	10.3	262.3	10.9	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR JUNE, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	0.17	2.47	8.73	2.23	−8.56	+0.24	S 2° E
2 „	0.30	1.93	7.90	2.20	7.60	−0.27	S 2° W
3 „	0.57	2.50	8.73	1.77	8.16	+0.73	S 5° E
4 „	0.60	1.87	8.07	2.43	7.47	−0.56	S 4° W
5 „	0.30	2.00	7.83	2.57	7.53	−0.57	S 4° W
6 „	0.33	1.90	7.87	2.27	7.54	−0.37	S 3° W
7 „	0.50	2.20	8.03	2.50	7.53	−0.30	S 2° W
8 „	0.67	2.57	7.90	3.03	7.23	−0.46	S 4° W
9 „	0.50	2.93	7.70	2.67	7.20	+0.26	S 2° E
10 „	0.27	2.47	8.67	3.60	8.40	−1.13	S 8° W
11 „	0.57	2.43	8.80	4.20	8.23	−1.77	S 12° W
Noon.	0.20	2.83	8.10	4.60	7.90	−1.77	S 13° W
1 p.	0.47	3.37	9.13	3.30	8.66	+0.07	S
2 „	0.83	2.90	8.83	3.33	8.00	−0.43	S 3° W
3 „	0.17	2.83	8.70	3.43	8.53	−0.60	S 4° W
4 „	0.30	3.23	7.80	2.03	7.50	+1.20	S 9° E
5 „	0.37	3.53	6.67	2.00	6.30	+1.53	S 14° E
6 „	1.07	2.87	6.30	1.73	5.23	+1.14	S 12° E
7 „	0.03	3.40	5.50	1.17	5.47	+2.23	S 22° E
8 „	0.17	3.27	6.37	0.93	6.20	+2.34	S 21° E
9 „	0.27	3.27	6.27	1.33	6.00	+1.94	S 18° E
10 „	0.33	3.63	6.40	1.20	6.07	+2.43	S 22° E
11 „	0.00	3.53	7.53	1.03	7.53	+2.50	S 18° E
Midt.	0.17	2.80	8.07	1.53	−7.90	+1.27	S 9° E
Mean,.....	0.38	2.78	7.75	2.38	−7.36	+0.40	S 3° E

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
June 1	27.94	27.90	27.90	77	77	76	78	76	SW	5	SW	5	SW	5
„ 2	.92	.88	.90	77	72	73	77	71	SW	5	W	4	W	4
„ 3	.92	.90	.93	74	76	75	78	72	NE	3	NE	3	NE	4
„ 4	.98	.99	.99	75	77	75	78	73	SW	3	SW	4	S	4
„ 5	28.04	28.00	.98	75	74	74	77	73	SW	3	SW	4	SW	4
„ 6	.05	27.98	.97	76	76	74	77	74	S	4	SW	4	S	5
„ 7	.00	.97	.93	76	76	75	78	74	S	3	S	4	S	5
„ 8	27.95	.90	.91	74	75	74	77	74	S	6	W	5	SW	5
„ 9	.95	.93	.95	74	74	73	77	72	SW	5	SW	4	SW	4
„ 10	.93	.91	.92	75	73	73	76	72	NW	3	SW	4	SW	3
„ 11	.92	.88	.91	76	76	75	76	73	SW	3	SW	2	SE	3
„ 12	.97	.95	.98	77	76	75	79	73	ENE	3	ENE	3	E	2
„ 13	28.01	.98	.95	74	76	75	78	73	E	4	E	4	E	4
„ 14	27.98	.91	.89	73	76	74	77	73	E	4	E	4	SE	4
„ 15	.87	.84	.79	74	75	75	77	74	SW	4	S	5	S	5
„ 16	.87	.85	.83	75	75	74	78	74	SSW	4	S	5	S	6
„ 17	.97	.98	28.02	76	74	74	78	73	SW	5	SW	5	SW	4
„ 18	28.06	28.03	.02	76	76	75	77	74	S	4	S	5	SW	4
„ 19	.06	.01	.02	76	76	75	78	74	SW	5	S	5	S	4
„ 20	.02	27.97	.01	76	77	77	77	73	SW	5	SW	4	SW	4
„ 21	.02	.97	.02	76	77	76	77	75	S	5	S	4	S	4
„ 22	.02	.98	27.99	76	77	75	78	74	S	5	S	4	S	5
„ 23	.02	.97	.99	76	76	76	77	75	S	5	S	4	S	5
„ 24	27.99	.95	.97	76	77	76	78	73	S	4	SSW	4	SSW	4
„ 25	28.03	28.02	28.06	76	78	76	79	75	SSW	4	SSE	3	S	3
„ 26	.12	.09	.09	77	78	77	79	75	S	3	S	3	S	4
„ 27	.11	.06	.06	77	77	76	78	75	S	3	S	3	S	4
„ 28	.09	.07	.09	76	77	76	78	75	S	4	S	4	S	4
„ 29	.08	.05	.07	76	76	75	78	74	S	3	S	4	S	4
„ 30	.04	27.98	27.98	76	74	74	77	74	SW	4	S	4	S	4
...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
...	27.998	27.963	27.971	75.6	75.8	74.9	77.6	73.7	S 17° W	4.0	S 15° W	4.0	S 9° W	4.1

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
June 1, ...	10	cum.	SW	10	cum.	SW	10	c-str. / sm-cum. / cum.	SW	10	c-str. / cum.	SW
„ 2, ...	4	cum.	SW	8	cum.	SW	10	R-cum.	SW	9	R-cum.	SW
„ 3, ...	3	cum.	SW	8	cum-nim.	SW	10	nim.	SW	10	c-str. / cum.	...
„ 4, ...	5	sm-cum.	...	5	cum.	SW	10	str.	W	8	c-str. / sm-cum. / cum.	.. / W / WSW
„ 5, ...	9	cum.	SW	8	sm-cum.	...	9	c-str. / sm-cum. / cum.	.. / W / SW	9	cum-str. / nim.	W
„ 6, ...	10	sm-cum.	SW	9	str-cum.	SW	9	c-str. / c cum. / cum.	.. / W / SW	9	c-str. / cum.	W / WSW
„ 7, ...	5	cum.	SW	8	cum-nim.	SW	7	c-cum. / cum.	W / SW	8	c-cum. / cum.	N / S
„ 8, ...	9	cum.	SW	9	cum.	SW	9	c-str. / sm cum. / cum.	.. / WSW / SW	9	str-cum.	SW
„ 9, ...	10	sm-cum. / cum.	...	10	cum.	SW	10	cum.	WSW	10	cum-str. / cum.	SW
„ 10, ...	9	cum.	SW	10	nim.	W	8	c-str. / cum.	W / W	9	c-str. / cum.	WNW / WSW
„ 11, ...	10	sm-cum. / cum.	WSW / ..	10	cum-nim.	W	7	c-str. / sm-cum. / cum.	W / WSW / W	9	sm-cum. / cum.	W / NW
„ 12, ...	6	sm-cum.	...	0	...	...	3	c-str. / cum.	W	6	sm-cum. / cum.	W / ENE
„ 13, ...	8	cum.	E	2	cum.	E	2	cum.	E	2	c-str. / cum.	E
„ 14, ...	9	cum.	E	8	cum.	E	9	R-cum.	SE	7	c-cum. / sm-cum / R-cum.	W / S / E
„ 15, ...	9	cum.	E	10	cum.	E	10	nim.	SW	10	nim.	SW
„ 16, ...	10	cum-nim.	S	10	R-cum.	SW	10	R-cum.	SSW	10	str-cum. / nim.	SW
„ 17, ...	10	nim.	...	10	nim.	...	10	nim.	S	10	nim.	S
„ 18, ...	9	cum-nim.	S	9	cum.	S	8	cum-str. / cum.	NE / S	9	c-cum. / cum.	NNE / SSW
„ 19, ...	10	cum.	S	10	cum.	S	9	c-str. / cum.	NNE / S	9	c-str. / cum.	S
„ 20, ...	8	cum.	S	9	cum.	S	9	c-str. / cum.	S	8	c-cum. / cum.	NE / S
„ 21, ...	7	cum.	S	9	cum.	S	8	c-cum. / cum.	NE / SSW	7	c-str. / cum.	NE / SSW
„ 22, ..	9	cum.	S	9	cum.	S	9	c-cum. / cum.	SSW	9	c-str. / cum.	NE / SSW
„ 23, ...	6	cum.	S	8	cum.	...	7	c-str. / cum.	S	7	c-cum. / R-cum.	S
„ 24, ...	5	cum-nim.	S	3	cum.	S	7	c-cum. / cum.	NE / S	7	c-cum. / cum.	NE / S
„ 25, ...	10	nim.	S	9	cum-nim.	S	7	c-cum. / cum.	S	9	sm-cum. / cum.	S
„ 26, ...	2	cum.	S	8	cum.	S	10	nim.	S	3	c-cum. / cum.	S
„ 27, ...	1	cum.	S	10	nim.	S	5	cum.	SSW	3	cum.	S
„ 28, ...	1	cum.	S	1	cum.	S	3	c-str. / cum.	S	5	c-str. / cum.	S
„ 29, ...	3	cum.	S	5	cum.	S	9	c-str. / cum.	S	8	c-cum. / cum.	S
„ 30, ...	8	cum-nim.	S	9	cum-nim.	S	2	cum.	S	6	c-cum. / cum.	ENE / SSW
.....	...	...	...	...	...	...	...	...	...	...	...	...
Mean,...	7.2	...	...	7.8	...	...	7.9	...	...	7.8	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
June 1,...	9	c-str. / cum.	SW	8	c-str. / cum.	SW	8	cum.	SW	9	cum.	SW	9.2
" 2,...	10	nim.	SW	10	nim.	W	6	c-str. / sm-cum.	W	4	c-str.	...	7.6
" 3,...	10	c-str. / cum.	W / SW	10	c-str. / sm-cum. / cum.	.. / W / S	8	c-str. / sm-cum.	W	2	c-str.	...	7.6
" 4,...	8	c-str. / sm-cum. / cum.	.. / W / WSW	8	c-str. / c-cum. / cum.	W / W / WSW	10	c-str. / cum.	SW	10	c-str.	...	8.0
" 5,...	9	cum. / nim.	WSW	10	c-str. / cum.	WSW	10	c-str. / cum.	WSW	10	c-str.	...	9.3
" 6,...	9	c-str. / cum.	W / WSW	9	c-str. / cum.	W / WSW	10	c-str. / sm-cum. / cum.	WSW	10	cum-nim.	SSW	9.4
" 7,...	9	c-str. / cum.	S	9	cum.	S	10	cum-nim.	SSW	10	c-str. / cum.	SSW	8.2
" 8,...	10	nim.	SW	10	str. / cum-nim.	WSW	10	str. / cum.	WSW	10	str. / cum.	WSW	9.5
" 9,...	10	nim.	WSW	10	str. / cum.	WSW	10	cum-nim.	...	10	str. / cum.	SW	10.0
" 10,...	10	cum-str.	W	10	str. / cum.	W	10	str. / cum.	W	10	cum.	W	9.5
" 11,...	10	c-str. / sm-cum. / cum.	W / W / W	9	sm-cum. / R-cum.	S	9	c-str. / cum.	E	10	c-str.	...	9.3
" 12,...	7	c-cum. / cum.	W / NE	4	c-cum. / cum.	ENE	9	cum.	...	2	c-str. / cum.	E	4.6
" 13,...	2	c-str. / cum.	E	5	c-str. / cum.	W / E	4	c-str. / cum.	W / E	7	c-str. / cum.	ESE	4.0
" 14,...	7	c-str. / cum.	W / E	5	c-str. / cum.	WNW / E	6	c-str. / cum.	WNW / E	9	c-str. / cum.	WNW / E	7.5
" 15,...	10	cum-nim.	WSW	10	c-str. / R-cum.	SW	10	cum-nim.	S	10	cum-nim.	SSW	9.9
" 16,...	10	str-cum.	SW	10	R-cum.	SSW	10	nim.	SSW	10	nim.	...	10.0
" 17,...	10	nim.	S	10	str. / nim.	S	10	str. / cum.	S	10	nim.	...	10.0
" 18,...	9	c-cum. / R-cum.	SSW	10	nim.	SSW	10	str. / cum.	SSW	8	cum.	...	9.0
" 19,...	9	c-cum. / cum.	NE / SSW	9	c-cum. / cum.	SSW	8	c-str. / c-cum. / cum.	SSW	5	c-str. / cum.	...	8.6
" 20,...	7	c-cum. / cum.	NE / SSW	8	c-cum. / R-cum.	NE / SW	10	c-str. / cum.	SSW	8	c-str. / cum.	...	8.4
" 21,...	8	c-cum. / nim.	SSW	9	c-cum. / R-cum.	SSW	10	c-str. / cum.	SSW	10	c-str. / cum.	...	8.5
" 22,...	8	c-cum. / cum.	NE / SSW	8	c-cum. / R-cum.	SSW	9	c-str. / cum-nim.	S	10	cum-nim.	...	8.9
" 23,...	8	c-cum. / cum.	S	4	c-cum. / cum.	S	7	c-str. / cum.	S	4	cum.	...	6.4
" 24,...	7	cum.	SSW	7	cum.	S	3	cum.	S	8	cum.	S	5.9
" 25,...	8	c-cum. / cum.	ENE / S	4	c-cum. / cum.	ENE / S	3	c-cum. / cum.	ENE / S	2	cum.	...	6,5
" 26,...	5	c-cum. / cum.	NE / S	5	c-cum. / cum.	NE / S	3	cum.	S	2	cum.	S	4.7
" 27,...	3	cum.	S	3	cum.	S	2	cum.	S	1	cum.	S	3.5
" 28,...	2	c-str. / cum.	S	3	c-str. / cum.	E / S	9	cum.	S	1	cum.	...	3.1
" 29,...	7	c-cum. / R-cum.	S	7	c-str. / c-cum. / cum.	S / S	2	c-str. / cum.	S	5	cum.	S	5.8
" 30,...	5	c-cum. / cum.	ENE / SSW	6	c-cum. / cum.	ENE / SSW	1	cum.	S	1	cum.	...	4.7
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean,...	7.9	...	...	7.7	...	...	7.6	...	...	6.9	...	...	7.6

HONGKONG OBSERVATORY.

Weather Report for July, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 9th, 10th, 11th, 12th, 13th, 16th, 24th, 25th and 28th.

Solar corona: on the 2nd, 15th and 31st.

Lunar halo: on the 9th, 10th, 11th and 13th.

Lunar corona: on the 5th, 7th, 9th, 10th and 12th.

Slight fog: on the 29th and 30th.

Haze: on the 13th, 14th, 27th and 31st.

Unusual Visibility: on the 5th, 7th, 8th, 10th, 15th, 26th and 30th.

Dew: on the 9th, 10th, 11th, 12th, 14th, 15th and 28th.

Rainbow: on the 1st, 2nd, 3rd, 5th and 26th.

Lightning without thunder: on the 16th, 17th, 20th, 21st, 22nd, 23rd, 25th and 27th.

Thunder without lightning: on the 18th.

Thunder and lightning: on the 1st in the early morning, at 4.30 a. on the 14th, and at 2 a. on the 15th.

The Total Distance traversed by, as well as the duration and average velocity of the wind from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	12	4	3.0
NE	610	29	21.0
E	1836	114	16.1
SE	774	43	18.0
S	2375	203	11.7
SW	2310	188	12.3
W	556	73	7.6
NW	133	27	4.9
Calm	36	63	0.6

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JULY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
July 1,...	29.685	29.678	29.678	29.678	29.659	29.677	29.686	29.690	29.693	29.693	29.707	29.701	29.690	29.679	29.662	29.659	29.659	29.676	29.682	29.697	29.717	29.737	29.741	29.733	29.690
„ 2,...	.731	.732	.734	.734	.738	.754	.771	.772	.777	.782	.769	.765	.760	.741	.735	.732	.728	.731	.735	.749	.780	.791	.800	.813	.756
„ 3,...	.788	.782	.782	.788	.798	.804	.822	.833	.836	.845	.829	.816	.806	.786	.771	.754	.734	.731	.731	.784	.751	.764	.770	.766	.784
„ 4,...	.763	.762	.758	.761	.765	.768	.776	.779	.771	.767	.749	.730	.719	.690	.683	.674	.669	.669	.680	.684	.705	.720	.723	.716	.728
„ 5,...	.710	.701	.697	.688	.688	.708	.718	.727	.733	.735	.734	.719	.692	.679	.663	.645	.644	.651	.664	.677	.679	.688	.691	.687	.692
„ 6,...	.683	.665	.655	.656	.660	.682	.686	.695	.703	.692	.688	.681	.668	.663	.645	.635	.627	.628	.633	.641	.651	.670	.668	.653	.664
„ 7,...	.644	.641	.640	.645	.652	.673	.682	.692	.695	.695	.690	.679	.661	.643	.629	.606	.601	.608	.621	.621	.624	.635	.641	.642	.648
„ 8,...	.638	.626	.630	.634	.639	.657	.673	.684	.686	.686	.676	.660	.641	.631	.620	.591	.584	.590	.595	.598	.623	.629	.633	.632	.636
„ 9,...	.625	.615	.610	.613	.625	.634	.651	.671	.681	.684	.681	.674	.653	.633	.622	.617	.600	.614	.624	.651	.668	.674	.665	.653	.643
„ 10,...	.634	.627	.617	.618	.626	.635	.659	.666	.676	.674	.671	.657	.629	.606	.596	.575	.569	.561	.576	.595	.619	.629	.625	.607	.623
„ 11,...	.607	.597	.587	.588	.584	.595	.617	.620	.626	.625	.615	.600	.583	.542	.530	.501	.492	.493	.502	.536	.552	.565	.562	.546	.569
„ 12,...	.533	.520	.518	.516	.515	.531	.540	.560	.569	.548	.554	.537	.516	.480	.443	.431	.429	.436	.467	.487	.512	.532	.541	.541	.511
„ 13,...	.531	.527	.512	.506	.496	.520	.536	.540	.554	.556	.549	.539	.529	.509	.488	.480	.491	.489	.508	.527	.541	.577	.582	.574	.528
„ 14,...	.548	.537	.534	.533	.534	.548	.553	.556	.565	.554	.553	.529	.515	.492	.480	.457	.447	.470	.488	.510	.533	.540	.535	.522	.522
„ 15,...	.521	.522	.499	.493	.495	.498	.506	.523	.524	.526	.512	.492	.481	.467	.449	.445	.427	.425	.436	.449	.468	.478	.459	.437	.480
„ 16,...	.426	.422	.412	.395	.392	.399	.419	.423	.414	.423	.411	.404	.391	.380	.373	.353	.345	.359	.380	.386	.386	.400	.416	.395	.396
„ 17,...	.377	.358	.346	.340	.358	.388	.396	.402	.415	.418	.428	.428	.440	.450	.433	.456	.475	.486	.523	.544	.561	.586	.588	.600	.450
„ 18,...	.590	.590	.587	.584	.605	.627	.635	.667	.671	.665	.668	.676	.666	.658	.640	.633	.631	.639	.649	.682	.696	.719	.722	.717	.651
„ 19,...	.700	.690	.682	.676	.679	.680	.681	.692	.697	.688	.687	.671	.649	.634	.615	.591	.590	.587	.614	.634	.637	.652	.651	.645	.655
„ 20,...	.624	.612	.600	.590	.585	.588	.594	.612	.617	.597	.593	.583	*.562	*.539	*.516	.501	.500	.496	.523	.534	.546	.555	.557	.556	.566
„ 21,...	.544	.536	.521	.516	.527	.528	.535	.543	.555	.561	.559	.542	.532	.518	.497	.499	.507	.526	.532	.549	.580	.583	.576	.567	.539
„ 22,...	*.556	*.548	*.543	*.541	*.543	.552	.561	.588	.597	.603	.611	.588	.580	.557	.544	.540	.544	.572	.590	.605	.634	.641	.639	.634	.580
„ 23,...	.618	.619	.612	.615	.627	.638	.648	.675	.686	.689	.683	.671	.646	.633	.619	.610	.610	.622	.637	.647	.676	.687	.695	.685	.648
„ 24,...	.665	.659	.642	.649	.664	.675	.688	.705	.728	.730	.730	.718	.716	.689	.677	.655	.645	.667	.677	.689	.706	.722	.724	.715	.689
„ 25,...	.704	.683	.686	.683	.685	.689	.691	.704	.723	.728	.715	.698	.689	.679	.671	.651	.637	.645	.660	.680	.706	.721	.731	.728	.691
„ 26,...	.714	.693	.683	.684	.682	.688	.699	.707	.722	.721	.719	.709	.707	.683	.673	.671	.667	.671	.677	.688	.703	.717	.718	.686	.695
„ 27,...	.679	.676	.672	.671	.666	.660	.679	.681	.691	.687	.684	.660	.632	.611	.609	.583	.585	.585	.586	.627	.658	.681	.686	.679	.651
„ 28,...	.678	.676	.677	.683	.683	.702	.729	.739	.742	.744	.756	.750	.741	.728	.714	.689	.686	.703	.721	.736	.758	.772	.777	.775	.723
„ 29,...	.770	.748	.744	.739	.733	.735	.749	.755	.749	.753	.751	.748	.736	.725	.719	.711	.694	.698	.719	.736	.755	.774	.774	.766	.741
„ 30,...	.754	.744	.736	.730	.726	.733	.737	.755	.756	.750	.743	.744	.736	.724	.725	.696	.691	.688	.700	.721	.726	.735	.731	.724	.729
„ 31,...	.715	.706	.684	.679	.678	.684	.687	.690	.708	.701	.698	.680	.653	.634	.626	.615	.598	.594	.596	.597	.596	.595	.595	.585	.650
Hourly Means,...	29.637	29.629	29.622	29.620	29.623	29.634	29.645	29.656	29.663	29.662	29.658	29.647	29.633	29.616	29.602	29.589	29.584	29.591	29.604	29.620	29.637	29.651	29.652	29.644	29.630

* Interpolated.

TABLE II.

TEMPERATURE FOR THE MONTH OF JULY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
July 1,	81.8	78.6	78.9	81.5	81.5	81.7	82.2	85.2	84.9	84.8	85.1	85.1	87.0	86.5	88.8	87.0	86.5	85.0	83.7	83.1	82.9	82.9	82.7	82.6	83.8	89.8	77.8
„ 2,	82.7	82.0	82.4	81.7	82.1	82.2	84.6	83.3	85.7	84.4	85.0	88.0	87.1	87.3	87.1	87.4	86.5	85.3	83.7	83.1	82.8	82.6	82.0	82.7	84.2	88.5	81.7
„ 3,	82.5	82.1	81.4	81.4	81.0	82.6	83.9	85.2	86.3	86.9	86.9	87.9	88.8	88.7	87.8	87.6	87.4	85.3	82.7	82.5	82.0	82.3	81.5	81.8	84.4	89.7	81.0
„ 4,	81.9	82.2	82.2	81.7	81.6	81.8	82.7	84.8	84.8	86.1	86.4	87.9	88.6	88.5	86.6	87.1	86.2	84.9	83.6	83.2	83.0	82.7	82.7	83.0	84.3	89.5	81.6
„ 5,	82.5	82.4	82.6	82.5	82.2	82.1	82.9	84.8	83.9	86.8	86.7	87.4	88.0	87.4	88.1	88.0	87.5	85.0	84.0	83.2	82.9	82.7	82.2	82.2	84.5	89.4	82.1
„ 6,	82.4	82.3	82.2	81.8	81.6	81.6	83.6	84.2	84.8	86.8	86.7	86.8	87.7	89.0	87.6	88.2	86.7	85.3	83.8	82.9	82.5	82.7	82.1	82.2	84.4	89.8	80.9
„ 7,	82.0	82.2	82.1	81.7	81.4	81.8	82.8	85.0	85.3	87.1	88.6	89.2	88.1	88.8	88.0	87.0	86.6	85.2	83.7	83.0	83.3	82.6	82.3	82.2	84.6	89.5	81.4
„ 8,	82.0	81.9	81.6	81.0	80.5	81.7	82.7	83.4	84.5	86.0	86.2	86.7	88.6	89.3	89.5	88.7	88.3	86.1	83.5	82.8	82.0	82.8	82.0	81.8	84.3	90.6	79.9
„ 9,	81.9	81.9	81.5	81.3	81.0	81.2	82.9	84.2	85.4	86.9	88.0	89.1	89.1	89.7	89.1	88.8	87.6	85.5	83.8	83.0	82.8	81.7	81.9	81.9	84.6	90.1	80.8
„ 10,	81.3	81.5	82.0	81.7	81.9	83.0	83.4	84.0	84.3	86.5	88.4	88.6	90.7	89.8	89.4	89.9	89.5	87.6	84.8	83.6	83.4	82.8	82.4	81.2	85.1	91.0	81.2
„ 11,	82.0	82.2	82.4	82.2	81.5	81.5	82.6	83.9	85.7	85.7	87.1	87.3	88.8	90.6	91.2	90.6	89.5	87.0	83.0	82.2	82.4	81.4	80.8	80.4	84.7	91.8	80.2
„ 12,	80.2	79.9	81.0	80.8	79.6	79.7	82.1	84.2	85.3	86.2	87.1	88.3	90.9	89.6	91.9	90.8	90.1	87.1	83.4	82.5	82.4	81.7	81.8	81.0	84.5	92.5	79.6
„ 13,	81.0	81.4	80.8	80.0	79.4	80.5	83.2	84.8	85.0	87.8	88.8	86.5	87.0	86.2	85.7	85.2	84.6	83.1	83.1	81.1	80.5	81.5	81.1	81.2	83.3	89.7	79.4
„ 14,	80.9	80.2	80.2	80.1	79.6	80.1	81.9	86.2	86.8	85.3	86.7	86.0	86.1	85.5	85.7	84.6	84.0	84.1	82.0	82.8	82.8	82.8	82.6	81.8	83.3	87.5	79.5
„ 15,	81.5	81.9	81.6	81.4	81.4	81.8	83.5	83.4	83.7	85.3	84.3	85.8	86.1	85.3	84.9	84.0	84.1	82.2	82.9	81.4	81.5	81.9	81.2	80.5	83.0	86.8	80.5
„ 16,	79.9	79.8	79.6	79.4	79.8	80.7	83.0	87.6	87.5	87.9	87.3	88.7	89.7	88.1	88.4	86.7	86.4	85.8	85.7	84.1	84.1	82.6	79.8	79.8	84.3	90.8	79.1
„ 17,	78.5	80.4	80.7	79.8	79.7	79.6	76.8	82.2	83.2	84.2	78.1	80.8	82.5	84.0	83.1	82.9	82.3	82.5	82.3	82.2	82.2	82.8	82.1	82.4	81.5	84.8	76.3
„ 18,	82.9	82.3	81.8	82.0	81.6	81.9	83.7	85.4	80.5	81.6	84.3	85.6	87.6	87.8	85.5	85.2	85.0	83.2	82.9	81.5	82.3	82.7	82.5	82.2	83.4	88.8	80.1
„ 19,	81.9	82.1	82.1	81.8	79.2	79.7	82.2	83.0	84.0	84.4	85.8	87.5	85.7	84.8	85.9	85.8	86.1	83.2	82.5	82.3	82.1	82.0	82.0	82.1	83.3	88.5	78.8
„ 20,	82.2	81.7	81.9	81.6	81.3	81.4	83.4	84.2	85.7	86.5	86.4	87.2	88.0	87.5	86.7	85.8	85.6	84.3	82.8	83.1	83.3	83.5	83.2	83.1	84.2	88.9	81.0
„ 21,	83.1	83.2	83.2	83.2	82.5	82.6	83.5	84.3	83.6	84.5	85.6	84.6	83.4	84.9	85.2	85.4	84.9	82.4	82.9	83.9	83.7	84.2	84.0	83.5	83.8	86.9	82.0
„ 22,	83.0	83.9	83.8	83.2	83.2	82.9	83.8	84.2	85.0	84.5	85.5	84.9	84.7	84.6	84.5	85.4	85.0	84.3	84.2	83.7	84.0	83.7	83.5	83.4	84.1	86.1	82.4
„ 23,	83.6	83.2	83.1	82.9	83.3	83.0	83.2	83.8	84.5	84.7	86.3	86.3	86.4	86.3	86.0	86.6	84.5	84.3	82.8	83.0	83.3	83.3	83.3	83.2	84.2	87.7	82.1
„ 24,	83.3	82.8	83.2	82.6	82.7	83.0	83.4	84.2	84.4	85.4	85.7	88.3	85.7	86.2	85.8	86.2	85.6	83.9	82.5	82.6	82.6	82.5	82.4	82.2	84.0	88.6	82.0
„ 25,	82.0	81.7	81.6	81.2	81.4	81.5	82.7	84.6	84.9	85.5	87.0	84.8	86.1	84.3	85.5	86.7	84.1	83.3	82.7	82.8	82.3	82.4	82.3	81.6	83.5	87.9	81.2
„ 26,	81.5	81.3	81.4	81.2	81.3	81.0	83.6	84.1	85.1	86.9	87.9	87.2	88.8	88.9	89.3	87.8	87.8	85.8	82.8	82.4	82.1	81.9	81.1	80.8	84.3	90.3	80.0
„ 27,	80.3	80.0	79.8	79.6	79.5	79.5	82.9	83.5	85.1	86.1	88.1	85.9	85.9	84.2	81.0	78.3	79.9	79.3	80.6	77.5	78.2	78.0	76.4	77.5	81.1	88.1	76.0
„ 28,	77.6	76.7	76.8	76.6	77.1	77.3	80.4	79.0	83.1	81.6	84.0	83.3	83.7	84.0	82.0	82.1	82.7	81.9	80.7	79.4	79.6	79.2	79.1	79.0	80.3	84.7	75.0
„ 29,	78.8	78.1	78.0	78.0	77.7	78.7	80.4	81.8	84.4	83.6	83.4	83.8	84.7	84.1	83.6	82.8	82.6	82.2	80.7	80.0	80.0	79.2	79.2	78.5	81.0	85.4	77.1
„ 30,	78.3	78.2	78.0	77.8	77.8	78.4	80.2	83.8	85.0	84.3	83.0	85.8	87.0	83.8	87.3	86.0	85.4	85.0	81.7	81.3	80.5	79.5	79.2	78.7	81.9	88.3	77.1
„ 31,	78.9	78.9	79.1	79.0	79.0	79.4	81.2	82.4	83.8	83.8	85.0	86.1	87.1	88.0	86.9	86.3	86.1	84.9	82.2	81.6	81.3	81.6	81.3	81.1	82.7	88.5	78.4
Hourly Means,	81.4	81.2	81.2	81.0	80.8	81.1	82.6	84.0	84.7	85.4	86.0	86.5	87.1	86.9	86.7	86.3	85.8	84.4	83.0	82.3	82.2	82.1	81.6	81.5	83.6	88.7	79.9

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF JULY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means	Solar Max.
July 1,...	78.3	76.9	76.8	78.0	77.7	77.5	78.8	80.3	80.3	80.0	78.5	79.4	79.3	80.4	82.1	79.7	79.4	79.3	78.9	78.7	79.0	79.2	79.2	78.6	79.0	142.3
„ 2,...	78.7	78.8	78.6	77.9	78.4	78.2	79.6	79.2	80.6	79.7	79.5	81.1	80.3	79.4	79.7	80.2	80.0	79.8	78.4	79.0	78.8	78.8	78.6	78.3	79.2	150.5
„ 3,...	78.8	78.8	79.2	79.2	79.2	79.0	78.9	79.4	80.0	79.9	80.1	79.4	79.7	80.8	80.9	80.3	80.5	79.6	77.9	78.1	77.3	77.5	77.3	77.3	79.1	143.8
„ 4,...	78.2	77.5	77.7	78.5	78.8	78.0	79.1	80.2	80.3	80.0	79.7	80.7	79.7	80.4	80.1	80.7	80.2	79.6	78.9	78.1	78.6	78.1	78.4	78.1	79.1	144.1
„ 5,...	78.2	78.1	78.3	78.1	77.4	78.5	78.5	79.4	78.6	79.8	79.3	78.9	79.1	78.9	79.5	80.3	81.0	80.7	78.8	78.6	77.6	77.4	77.2	77.6	78.7	145.3
„ 6,...	77.8	77.7	78.0	78.4	78.4	79.2	79.8	80.0	78.7	79.0	78.9	80.0	80.0	80.7	78.8	80.1	80.2	79.4	78.0	78.5	78.6	77.9	77.8	77.8	78.9	146.6
„ 7,...	77.6	77.1	77.7	77.4	77.3	78.4	79.0	79.8	78.7	79.6	80.3	79.9	79.4	79.7	79.7	79.2	78.6	79.0	78.4	78.8	78.2	78.2	77.6	78.7	78.7	142.3
„ 8,...	78.2	78.1	78.2	77.9	77.7	78.9	78.7	79.3	79.7	79.9	79.1	80.0	80.6	80.9	79.4	78.6	78.9	78.7	78.7	78.1	78.3	78.3	77.9	77.9	78.8	142.4
„ 9,...	77.9	78.0	78.1	78.3	77.7	78.2	78.6	79.4	78.9	80.0	80.2	80.1	80.0	80.5	79.8	80.1	79.2	79.7	78.9	78.1	78.8	78.8	78.3	78.5	79.0	143.5
„ 10,...	78.5	78.3	77.5	78.1	77.3	78.2	78.9	79.0	79.4	79.9	80.7	80.6	80.6	80.7	80.6	79.7	80.7	79.8	79.0	78.9	78.7	78.2	78.1	77.7	79.1	146.3
„ 11,...	77.5	77.5	77.4	77.9	77.8	77.7	79.5	79.2	79.9	78.6	79.0	79.4	79.0	78.9	78.8	78.8	78.9	80.0	78.8	78.7	78.8	79.1	78.8	78.1	78.7	143.2
„ 12,...	78.2	77.8	78.4	78.3	78.2	78.2	78.9	80.2	79.7	79.2	78.9	79.4	78.0	78.5	76.6	77.5	79.5	80.2	78.9	78.2	77.9	77.0	77.1	77.6	78.4	144.6
„ 13,...	77.5	77.5	77.5	77.5	76.8	78.3	79.1	79.6	78.1	77.7	78.4	78.5	78.0	78.2	78.6	78.3	77.9	78.0	78.2	77.9	77.6	77.7	77.7	78.5	78.0	143.3
„ 14,...	77.7	77.5	78.0	78.0	77.7	77.2	78.9	79.9	79.4	78.3	77.8	77.8	78.8	77.7	78.0	78.9	78.8	79.7	78.6	79.6	79.5	79.7	79.6	79.2	78.6	145.1
„ 15,...	78.8	79.0	78.7	78.2	78.0	77.5	77.5	77.8	77.8	78.1	75.9	75.8	77.0	77.7	77.7	77.9	77.6	77.6	78.0	78.3	78.1	77.7	77.6	77.4	77.7	143.3
„ 16,...	77.0	77.1	77.5	76.9	76.4	77.2	77.7	80.0	77.5	79.1	79.2	79.2	78.8	78.8	77.9	77.9	76.9	77.1	76.6	77.4	77.4	77.9	78.0	77.8	77.8	147.3
„ 17,...	77.6	77.5	77.8	77.2	77.3	77.6	75.6	78.7	79.2	78.9	77.2	77.1	78.2	79.1	78.8	78.8	78.8	78.7	77.9	77.9	77.8	78.1	78.4	78.4	78.0	138.1
„ 18,...	78.6	78.9	78.8	78.8	78.5	78.8	79.1	80.2	77.7	78.0	79.8	80.7	80.9	81.8	80.5	79.9	79.9	79.3	79.2	78.8	79.2	78.9	78.9	78.9	79.3	148.1
„ 19,...	78.8	78.9	78.8	78.8	75.9	76.7	78.5	78.8	79.1	79.7	80.5	81.2	80.7	80.5	81.0	80.3	81.4	79.5	79.4	78.9	79.2	79.4	78.9	79.0	79.5	143.0
„ 20,...	78.9	79.0	79.0	78.8	79.2	79.4	79.9	80.2	79.8	80.0	80.4	80.8	81.7	81.1	80.7	80.0	79.9	79.3	79.7	79.4	78.7	78.8	78.6	78.5	79.7	144.4
„ 21,...	78.6	78.7	78.5	78.5	78.6	78.7	78.9	78.7	79.7	78.7	80.3	80.3	79.7	79.9	79.6	79.5	79.5	79.7	79.7	79.7	79.8	79.7	79.7	79.6	79.3	136.9
„ 22,...	79.5	79.4	79.1	79.1	79.3	79.0	79.1	79.3	79.6	79.0	79.7	79.6	79.2	79.7	79.6	80.0	79.6	79.5	79.2	79.1	78.9	79.3	78.7	78.7	79.3	123.2
„ 23,...	78.7	78.6	78.7	78.6	78.4	78.6	78.7	79.2	78.7	79.3	79.7	80.4	79.9	79.9	79.9	80.0	80.2	79.7	80.1	80.2	80.3	79.8	79.1	79.2	79.4	149.4
„ 24,...	78.8	78.4	78.2	78.2	78.2	78.2	78.2	78.4	78.5	78.6	79.3	81.4	80.0	79.8	80.2	80.2	80.3	79.2	78.8	78.6	79.3	78.7	78.9	78.7	79.0	142.6
„ 25,...	78.4	78.4	78.3	78.1	78.3	78.4	78.4	79.8	79.6	79.9	81.0	79.2	79.4	78.4	79.1	80.0	78.4	79.0	78.8	78.6	78.8	78.7	78.8	78.9	78.9	141.1
„ 26,...	78.8	78.8	78.8	78.9	79.0	79.0	80.7	80.3	80.1	80.9	79.6	79.8	80.6	80.2	81.1	79.7	80.2	80.4	78.7	78.5	78.7	78.1	78.2	78.4	79.5	147.6
„ 27,...	78.6	78.6	78.4	77.7	77.5	77.5	78.6	77.4	76.0	76.0	77.9	76.0	76.0	76.4	76.0	75.2	75.7	76.4	75.4	75.5	75.5	74.6	73.9	75.0	76.5	147.9
„ 28,...	74.5	75.1	74.9	75.2	75.2	75.0	76.8	75.3	78.0	77.4	78.0	78.0	78.7	78.7	78.0	78.8	78.2	78.8	77.6	78.0	77.8	77.8	78.0	77.6	77.1	140.2
„ 29,...	77.4	77.4	77.3	76.8	76.8	77.4	78.1	78.3	79.5	78.5	78.5	78.4	78.8	78.6	79.0	78.9	78.8	78.3	76.8	77.7	77.0	77.0	76.9	76.8	77.9	148.3
„ 30,...	76.9	76.8	76.9	76.9	76.7	76.9	77.9	79.4	79.3	78.2	78.0	79.7	80.1	78.5	78.7	77.1	76.5	78.0	76.8	76.9	76.9	76.9	76.7	76.5	77.6	147.5
„ 31,...	76.3	76.7	76.3	76.1	76.5	77.5	77.6	77.7	78.1	78.6	78.5	80.0	80.0	79.7	78.6	79.3	79.4	78.7	77.6	77.1	77.3	77.9	77.6	77.5	77.9	145.4
Hourly Mean ...	78.0	78.0	78.0	77.9	77.7	78.0	78.6	79.2	79.0	79.0	79.2	79.4	79.4	79.5	79.3	79.2	79.2	79.1	78.4	78.4	78.3	78.2	78.1	78.1	78.6	143.8

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JULY, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	85	0.914	July 1,.....	80	0.928
2 „	86	.917	„ 2,.....	79	.932
3 „	86	.917	„ 3,.....	78	.924
4 „	87	.915	„ 4,.....	78	.925
5 „	87	.909	„ 5,.....	76	.904
6 „	87	.919	„ 6,.....	77	.915
7 „	83	.925	„ 7,.....	76	.903
8 „	80	.934	„ 8,.....	77	.911
9 „	77	.915	„ 9,.....	77	.917
10 „	74	.905	„ 10,.....	76	.914
11 „	73	.907	„ 11,.....	76	.901
Noon.	72	.910	„ 12,.....	75	.891
1 p	70	.901	„ 13,.....	78	.889
2 „	70	.909	„ 14,.....	80	.916
3 „	70	.902	„ 15,.....	78	.880
4 „	72	.903	„ 16,.....	74	.866
5 „	74	.909	„ 17,.....	85	.913
6 „	78	.924	„ 18,.....	83	.947
7 „	81	.911	„ 19,.....	83	.948
8 „	83	.920	„ 20,.....	81	.955
9 „	83	.917	„ 21,.....	81	.942
10 „	83	.914	„ 22,.....	80	.938
11 „	85	.916	„ 23,.....	80	.941
Midt.	85	.918	„ 24,.....	79	.925
			„ 25,.....	81	.927
			„ 26,.....	80	.944
			„ 27,.....	81	.852
			„ 28,.....	86	.889
			„ 29,.....	87	.916
			„ 30,.....	82	.889
			„ 31,.....	80	.892
Mean,.....	80	0.914	Mean.	80	0.914

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
July, 1,.....	...	0.4	0.5	0.9	0.5	0.6	0.6	0.9	0.9	1.0	0.9	0.9	0.3	8.4
„ 2,.....	...	0.5	0.5	1.0	0.7	0.4	1.0	0.9	1.0	1.0	1.0	1.0	0.6	9.6
„ 3,.....	0.5	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	0.6	11.9
„ 4,.....	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	12.0
„ 5,.....	...	0.7	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.1	10.1
„ 6, ...	0.1	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.9	0.2	10.7
„ 7,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.7
„ 8,.....	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	12.1
„ 9,.....	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	11.5
„ 10,.....	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	11.8
„ 11,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	11.1
„ 12,.....	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	11.5
„ 13,.....	...	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	10.5
„ 14,.....	...	1.0	1.0	1.0	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.3
„ 15,.....	0.2	1.0	1.0	0.3	1.0	0.6	1.0	1.0	1.0	1.0	1.0	1.0	...	10.1
„ 16,.....	0.1	0.9	1.0	0.7	0.7	1.0	0.8	0.2	0.5	0.6	0.2	...	...	6.7
„ 17,.....	...	...	0.3	0.8	0.1	...	...	...	...	...	...	...	...	1.2
„ 18,.....	...	0.5	0.2	...	0.2	0.1	0.8	1.0	0.6	0.3	0.6	0.4	...	4.7
„ 19,.....	...	...	...	...	...	0.4	0.5	0.1	...	0.5	0.6	0.4	...	2.5
„ 20,.....	...	0.2	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.2	0.1	...	8.2
„ 21,.....	...	...	...	...	0.1	0.3	0.1	...	0.1	...	...	...	...	0.6
„ 22,.....	...	...	0.1	0.1	...	...	...	...	0.1	0.3	...	...	...	0.6
„ 23,.....	...	...	...	0.2	0.7	1.0	0.9	0.9	0.9	0.6	0.3	...	...	5.5
„ 24,.....	...	0.3	0.2	0.1	0.3	0.2	0.3	...	0.7	0.8	1.0	0.9	...	4.8
„ 25,.....	...	...	0.5	0.2	...	0.1	...	0.4	0.2	0.4	0.7	...	...	2.5
„ 26,.....	0.1	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.2
„ 27,.....	...	0.6	0.1	0.2	...	0.2	0.2	0.9	0.3	0.3	0.1	...	...	2.9
„ 28,.....	...	0.5	0.5	1.0	0.9	1.0	1.0	1.0	1.0	0.7	1.0	1.0	0.5	10.1
„ 29,.....	0.3	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.5	11.6
„ 30,.....	...	0.6	1.0	0 9	0.8	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.6	10.6
„ 31,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.5	11.6
Sums,.....	3.6	19.3	21.3	22.1	21.8	22.6	24.2	24.3	24.3	24.3	23.2	20.9	7.7	259.6

TABLE VI.

RAINFALL FOR THE MONTH OF JULY, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
July 1,.....	0.290	0.210	...	...	0.010	0.180	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...	...	...	...	0.700	2	...
„ 2,.....	...	...	...	0.030	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.075	1	...
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.155	0.200	0.085	0.440	2	1.10
„ 17,.....	0.200	...	0.010	0.030	0.120	...	0.140	...	...	0.075	0.490	0.085	...	...	...	0.010	0.010	...	...	...	...	...	...	...	1.170	7	0.70
„ 18,.....	...	...	0.140	...	...	...	...	0.015	0.005	...	...	...	...	...	...	...	...	...	...	0.040	...	...	...	...	0.200	3	0.30
„ 19,.....	...	...	0.050	0.075	0.095	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	0.225	2	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.30
„ 21,.....	...	...	...	...	0.015	...	...	0.010	0.020	...	...	0.090	0.030	...	...	...	...	0.110	...	...	...	...	...	...	0.275	4	0.45
„ 22,.....	...	...	...	...	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...	...	0.005	...	0.040	1	...
„ 23,.....	...	0.010	0.005	...	...	0.010	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.005	...	...	...	...	0.045	2	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,.....	...	...	...	...	0.080	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.090	1	...
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.025	0.215	...	0.020	...	0.040	0.115	0.060	0.080	0.055	0.620	6	1.10
„ 28,.....	...	0.570	0.125	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.695	2	...
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.490	0.790	0.330	0.165	0.360	0.200	0.140	0.025	0.025	0.075	0.490	0.175	0.035	0.010	0.025	0.225	0.010	0.130	0.015	0.105	0.115	0.215	0.285	0.140	4.575	33	3.95

The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JULY, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
July 1,	17	12	24	9	16	7	18	14	17	10	17	7	17	9	18	13	15	5	16	12	18	16	18	14	18	14	16	13	18	15	17	16	16	15	17	17	18	14	18	7	17	5	16	7	15	7	16	12	270	11.2	17
„ 2,	16	13	15	11	16	10	15	13	15	12	16	13	17	10	16	16	16	17	15	13	16	15	18	18	18	14	19	19	19	19	18	17	17	14	17	11	18	11	18	7	18	7	18	5	18	7	19	5	297	12.4	17
„ 3,	22	6	20	7	25	6	27	4	26	8	22	6	22	5	21	9	18	8	18	9	19	9	19	15	19	11	18	9	17	12	20	11	20	9	17	6	18	5	17	3	19	5	18	2	18	2	18	5	172	7.2	20
„ 4,	19	6	20	9	20	10	22	8	22	11	21	9	23	9	22	12	22	11	21	14	20	18	20	18	18	18	18	18	19	21	18	23	18	16	19	15	20	17	20	13	18	9	18	5	17	4	18	6	300	12.5	20
„ 5,	18	8	18	9	18	8	19	8	20	11	20	12	19	15	20	14	21	17	21	13	20	16	21	14	18	18	18	18	19	11	22	10	22	10	21	9	19	8	18	6	19	9	18	6	18	6	19	8	264	11.0	20
„ 6,	20	9	19	11	20	10	22	7	22	3	28	4	24	5	22	9	21	11	21	8	18	10	21	9	20	10	20	14	19	14	20	16	19	14	18	11	19	8	19	6	17	7	18	8	19	6	19	6	216	9.0	20
„ 7,	18	4	20	5	20	10	21	11	20	9	23	7	24	5	21	8	22	9	23	10	20	11	21	11	19	11	18	12	18	14	18	11	18	10	17	6	18	5	16	4	...	1	8	3	...	0	20	4	181	7.5	20
„ 8,	21	6	22	7	22	9	23	6	24	4	25	5	26	3	25	7	24	8	27	11	25	10	24	12	23	10	23	10	20	12	18	9	20	7	17	6	17	7	18	5	16	3	20	2	...	0	...	1	160	6.7	22
„ 9,	21	2	21	8	23	7	21	6	26	5	26	4	26	4	26	6	26	7	25	7	25	11	23	10	24	10	23	12	24	10	19	8	17	8	16	9	15	6	16	5	...	1	16	2	16	3	16	3	154	6.4	22
„ 10,	...	1	17	4	19	8	19	7	19	8	20	5	27	5	26	6	27	8	26	10	25	10	26	8	25	8	24	12	24	8	21	7	24	4	27	3	6	2	...	1	16	2	...	1	16	2	24	5	135	5.6	24
„ 11,	20	5	19	7	20	7	20	9	22	5	24	5	26	5	27	8	26	11	26	12	23	12	23	11	23	11	22	8	22	9	22	9	20	7	16	4	15	3	4	4	...	1	32	5	...	1	30	2	161	6.7	23
„ 12,	...	1	30	2	21	4	27	4	26	3	26	3	27	4	28	4	26	5	23	6	23	10	24	10	23	8	23	8	23	8	24	4	28	5	29	3	28	2	29	3	...	0	...	1	...	0	...	0	98	4.1	25
„ 13,	...	1	...	0	30	2	...	0	...	1	...	0	...	0	...	1	26	2	23	2	12	6	9	11	9	14	8	14	8	15	8	15	8	16	9	9	7	7	9	5	11	4	9	7	9	6	9	4	142	5.9	9
„ 14,	...	0	...	0	...	0	...	0	...	0	...	0	...	1	5	4	10	7	8	12	10	18	10	19	10	22	10	26	9	22	9	20	9	17	7	15	7	14	6	16	6	14	6	17	6	18	7	16	278	11.6	8
„ 15,	7	16	6	13	7	15	7	14	6	16	6	16	6	21	7	21	6	23	6	24	7	23	7	24	8	19	9	19	9	22	9	23	9	22	9	12	...	1	...	1	...	1	...	1	...	0	...	1	348	14.5	7
„ 16,	...	1	...	0	...	0	...	0	20	5	23	3	10	3	5	6	5	19	6	14	8	19	7	21	7	25	7	28	6	31	6	36	6	37	6	36	5	37	6	30	6	43	6	32	6	31	6	34	500	20.8	6
„ 17,	6	34	6	33	6	35	6	35	7	30	9	37	8	33	8	40	8	39	7	40	10	37	12	24	11	24	12	33	12	30	12	32	13	24	12	21	13	17	13	19	12	23	12	21	11	20	12	20	701	29.2	9
„ 18,	13	24	13	18	13	20	13	24	14	23	14	17	14	16	14	18	15	13	7	3	14	7	14	12	15	16	15	15	15	16	15	16	15	9	15	11	15	9	16	10	15	7	15	8	15	6	15	7	325	13.5	14
„ 19,	15	6	15	6	15	7	16	6	15	9	10	4	17	9	18	11	18	11	18	12	18	14	17	15	18	13	17	15	18	11	18	13	17	11	18	8	18	7	17	10	17	6	15	6	18	4	18	6	220	9.2	17
„ 20,	18	5	18	6	19	5	22	8	22	10	22	8	20	10	21	12	18	12	20	11	18	13	18	16	19	14	18	17	18	16	17	13	18	11	18	12	19	11	19	9	18	13	18	11	19	12	20	9	264	11.0	19
„ 21,	19	13	19	15	19	16	18	21	18	13	18	14	17	16	18	19	17	17	18	21	18	23	18	22	19	27	19	29	19	26	19	23	18	22	18	15	17	18	17	19	17	14	18	20	18	19	18	24	466	19.4	18
„ 22,	17	28	18	32	18	29	18	26	18	25	17	29	18	28	18	28	17	23	17	26	18	20	17	27	17	26	18	23	18	28	18	26	17	26	17	24	17	27	18	31	17	32	18	24	18	29	18	23	640	26.7	18
„ 23,	19	23	19	22	18	22	18	21	18	22	19	23	19	24	19	26	18	29	19	28	19	28	19	25	19	21	19	21	19	21	19	17	17	12	18	14	16	9	16	11	17	8	16	11	18	15	17	15	468	19.5	18
„ 24,	17	14	18	12	18	13	18	14	17	15	18	10	18	11	18	15	19	11	19	15	19	16	18	15	19	13	18	13	17	14	17	13	17	13	17	11	16	10	17	7	16	8	16	7	16	9	15	8	288	12.0	18
„ 25,	15	8	14	7	14	6	12	5	14	6	16	7	17	7	16	8	16	6	16	9	16	9	15	11	15	13	15	14	15	14	14	13	14	13	15	6	15	4	9	3	...	1	10	3	10	6	12	3	182	7.6	15
„ 26,	10	2	9	2	10	3	10	5	12	4	12	2	8	3	9	2	9	5	14	6	18	7	19	7	16	8	16	9	15	8	16	8	18	7	20	3	21	5	15	3	9	3	9	2	...	1	30	3	108	4.5	15
„ 27,	30	2	30	2	...	0	...	0	...	0	7	3	5	5	4	16	6	22	5	28	5	27	5	33	6	37	5	36	6	36	7	37	7	33	9	43	8	46	10	44	11	38	12	38	11	33	12	30	589	24.5	8
„ 28,	12	23	14	15	16	16	16	11	15	9	12	6	16	7	15	7	5	7	7	14	6	15	8	19	8	16	7	16	8	15	8	17	9	17	9	18	10	13	9	9	9	9	9	8	8	4	...	1	292	12.2	10
„ 29,	...	1	...	0	...	0	...	0	...	1	8	2	9	5	9	7	9	9	9	14	9	15	9	17	9	16	8	16	7	15	8	13	8	16	8	14	10	6	9	4	9	4	7	5	7	2	6	2	184	7.7	8
„ 30,	...	1	...	1	...	1	6	2	...	1	6	3	...	1	6	3	6	6	7	6	8	8	9	7	7	8	8	5	16	9	16	10	16	9	16	6	16	4	...	1	...	1	...	0	...	0	...	1	94	3.9	11
„ 31,	20	2	...	1	...	1	24	2	23	2	28	5	28	3	25	3	24	5	25	11	25	9	25	11	24	10	24	9	23	12	18	9	19	9	17	10	18	6	18	2	...	1	21	6	20	7	21	9	45	6.0	22
Sums,	...	277	...	274	...	287	...	291	...	231	...	250	...	232	...	359	...	383	...	422	...	462	...	486	...	485	...	511	...	514	...	405	...	443	...	338	...	339	...	307	...	280	...	274	...	239	...	273	8642	360.0	..
Hourly Means,	...	8.9	...	8.8	...	9.3	...	9.4	...	9.1	...	8.7	...	9.1	...	11.6	...	12.4	...	13.6	...	14.9	...	15.7	...	15.6	...	16.5	...	16.6	...	16.0	...	14.3	...	12.5	...	10.9	...	9.9	...	9.0	...	8.8	...	8.4	...	8.8	278.8	11.6	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR JULY, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	0.58	2.65	5.94	2.13	−5.36	+0.52	S 6° E
2 „	0.68	2.16	5.77	2.97	5.09	−0.81	S 9° W
3 „	0.61	2.10	6.00	3.10	5.39	−1.00	S 11° W
4 „	0.68	2.32	5.84	3.29	5.16	−0.97	S 11° W
5 „	0.58	2.06	5.65	3.16	5.07	−1.10	S 12° W
6 „	0.58	2.42	4.84	3.03	4.26	−0.61	S 8° W
7 „	0.74	2.39	4.97	3.10	4.23	−0.71	S 10° W
8 „	1.16	3.23	6.03	4.16	4.87	−0.93	S 11° W
9 „	1.61	4.29	5.65	3.87	4.04	+0.42	S 6° E
10 „	2.00	4.90	5.58	4.81	3.58	+0.09	S 1° E
11 „	1.10	5.16	7.52	5.32	6.42	−0.16	S 1° W
Noon.	1.03	5.42	8.06	5.52	7.03	−0.10	S 1° W
1 p.	0.74	5.74	8.29	5.03	7.55	+0.71	S 5° E
2 „	0.94	5.84	9.13	4.94	8.19	+0.90	S 6° E
3 „	0.87	5.81	9.39	5.00	8.52	+0.81	S 5° E
4 „	0.65	6.03	9.32	4.06	8.67	+1.97	S 13° E
5 „	0.81	5.61	8.32	2.87	7.51	+2.74	S 20° E
6 „	0.65	5.19	7.52	2.00	6.87	+3.19	S 25° E
7 „	0.84	4.26	6.32	2.00	5.48	+2.26	S 22° E
8 „	0.84	4.10	5.90	1.61	5.06	+2.49	S 26° E
9 „	0.71	3.87	5.52	1.10	4.81	+2.77	S 30° E
10 „	0.81	3.84	5.39	1.19	4.58	+2.65	S 30° E
11 „	0.58	3.52	5.13	1.61	4.55	+1.91	S 23° E
Midt.	0.71	3.03	5.55	2.00	−4.84	+1.03	S 12° E
Mean, ...	0.85	4.00	6.57	3.24	−5.71	+0.75	S 7° E

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
July 1	28.01	27.99	28.01	76	76	76	77	73	SW	4	SW	3	S	4
„ 2	.08	28.06	.08	76	78	76	78	75	S	5	S	5	SW	3
„ 3	.14	.09	.07	76	78	76	78	75	SW	3	SSW	4	SSW	4
„ 4	.07	.02	.02	76	77	76	78	75	SW	4	SW	4	SW	5
„ 5	.05	27.99	.00	76	77	76	78	75	SW	4	SW	4	SSW	4
„ 6	.02	.97	27.99	76	77	76	78	75	SW	4	SW	4	SW	4
„ 7	.02	.96	27.96	76	77	76	77	75	SW	3	SW	4	SW	3
„ 8	.00	.96	27.94	77	78	77	79	76	SW	2	SW	4	SSW	4
„ 9	.00	.97	.97	78	79	77	80	76	SW	2	SW	3	SW	4
„ 10	27.99	.94	.95	78	82	77	82	76	SW	2	SW	2	SW	3
„ 11	.95	.88	.89	78	83	76	83	76	WSW	4	WSW	2	WSW	3
„ 12	.89	.82	.82	78	83	77	83	75	SW	2	WSW	1	SW	2
„ 13	.87	.84	.86	79	79	78	82	76	SW	1	NW	2	SE	2
„ 14	.88	.82	.83	80	81	77	82	77	E	3	E	4	E	4
„ 15	.83	.79	.79	76	80	77	80	75	E	4	E	3	SE	2
„ 16	.75	.69	.71	80	80	77	82	75	ENE	4	E	5	E	6
„ 17	.74	.77	.89	76	76	76	77	75	E	6	SE	4	SSE	5
„ 18	.97	.98	.99	76	76	76	78	75	SSE	4	SSE	4	SW	4
„ 19	28.00	.94	.96	76	77	76	77	75	SW	4	SW	4	SW	5
„ 20	27.92	.86	.82	77	76	76	77	73	SW	4	SW	4	S	4
„ 21	.88	.84	.86	77	76	77	77	74	S	5	S	5	S	5
„ 22	.93	.88	.90	76	76	76	77	76	S	5	SSW	5	S	5
„ 23	.98	.95	.96	76	76	76	77	75	S	5	S	4	S	4
„ 24	28.03	.99	.99	76	76	75	77	75	SW	4	S	4	SW	4
„ 25	.03	.99	28.00	75	75	75	77	74	S	3	S	4	S	4
„ 26	.03	28.02	.01	76	78	75	78	75	S	3	S	3	SW	3
„ 27	27.98	27.89	27.96	76	75	72	77	72	ENE	5	E	6	SE	6
„ 28	28.06	28.04	28.05	75	76	75	78	72	S	4	S	3	SE	4
„ 29	.06	.05	.05	76	77	75	78	74	SE	3	SSE	3	SSE	3
„ 30	.06	.04	.03	76	77	74	77	73	SE	2	S	3	S	4
„ 31	.02	27.96	27.94	76	77	75	77	74	SW	3	SW	4	S	4
...	27.975	27.935	27.945	76.6	77.7	75.9	78.6	74.7	S 8° W	3.6	S 10° W	3.7	S 8° W	3.9

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
July 1, ...	6	cum.	S	8	cum-nim.	SW	7	cum.	S	8	cum.	S
„ 2, ...	2	cum.	SW	7	nim.	SW	7	c-cum. / cum.	S	6	c-cum. / cum.	ENE / SSW
„ 3, ...	7	cum.	...	8	cum.	...	5	cum.	SW	2	cum.	SW
„ 4, ...	1	cum.	SW	4	cum.	SW	3	cum.	SW	1	cum.	WSW
„ 5, ...	1	cum.	SW	1	cum.	SW	3	cum.	SW	2	cum.	SW
„ 6, ...	2	cum.	SW	2	cum.	SW	3	cum.	WSW	3	c-cum. / cum.	S / SW
„ 7, ...	2	cum.	SW	1	cum.	SW	2	cum.	WSW	1	cum.	WSW
„ 8, ...	1	cum.	...	2	cum.	...	1	c-cum. / cum.	E / W	1	cum.	...
„ 9, ...	1	cum.	WSW	0	...	...	5	c-str. / cum.	ENE / W	3	c-cum. / cum.	E / WSW
„ 10, ...	5	cum.	SSW	6	cum.	SW	1	cum.	SW	1	c-str. / cum.	SSW
„ 11, ...	6	cum.	SW	7	cum.	SW	1	c-str. / cum.	E / SW	3	c-str. / cum.	E / SW
„ 12, ...	1	cum.	SW	8	cum.	SW	3	c-str. / cum.	E / SW	7	c-str. / cum.	E / SW
„ 13, ...	5	cum.	S	3	cum.	S	7	c-str. / cum.	E / ..	4	c-str. / cum.	E / ..
„ 14, ...	19	str-cum.	ESE	8	str-cum.	E	4	c-str. / sm-cum. / cum.	E / E / ..	7	c-cum. / cum.	ENE / ENE
„ 15, ...	9	cum.	E	9	cum.	E	7	sm-cum. / cum.	E / E	3	cum.	E
„ 16, ...	1	c-cum.	NNW	3	cum.	ENE	1	sm-cum. / cum.	E / ENE	9	c-str. / cum.	E / NE
„ 17, ...	10	nim.	E	10	nim.	E	10	nim.	ESE	10	nim.	ESE
„ 18, ...	10	cum.	SSE	9	cum-nim.	S	5	c-cum. / cum.	S	9	c-str. / cum.	ENE / S
„ 19, ...	9	cum.	S	10	nim.	S	9	c-str. / R-cum.	SSW	9	c-str. / R-cum.	SW
„ 20, ...	10	cum.	SW	10	cum-nim.	SW	8	c-cum. / cum.	ENE / WSW	5	c-cum. / cum.	E / WSW
„ 21, ...	7	cum.	SW	10	cum.	SW	9	cum.	SW	10	cum-nim.	SW
„ 22, ...	10	cum-nim.	SW	10	cum-nim.	SW	10	cum-nim.	SSW	9	c-str. / R-cum.	SW
„ 23, ...	10	cum-nim.	SSW	10	nim.	SSW	9	c-str. / R-cum.	SW	8	c-cum. / cum.	NE / SW
„ 24, ...	9	cum-nim.	...	9	cum.	...	8	c-str. / cum.	NE / SW	9	c-str. / cum.	NE / SW
„ 25, ...	7	R-cum.	S	6	R-cum.	S	9	c-str. / cum	S	10	R-cum.	S
„ 26, ...	1	cum.	...	7	cum.	...	7	cum.	S	4	c-str. / cum.	E / S
„ 27, ...	2	c-str.	...	2	c-str.	...	8	sm-cum. / cum.	E / ENE	10	sm-cum. / cum.	E / ENE
„ 28, ...	10	cum-nim.	SE	10	nim.	...	8	sm-cum. / cum.	S / SSW	5	c-cum. / cum.	S / S
„ 29, ...	0	...	...	0	...	...	1	cum.	SE	3	cum.	SE
„ 30, ...	1	cum.	...	0	...	...	3	cum.	S	3	c-str. / cum.	SSE
„ 31, ...	0	...	...	0	...	...	1	c-str. / cum.	WSW	3	c-cum. / cum.	W
Mean, ...	5.0	...	...	5.8	...	...	5.3	...	...	5.4	...	...

TABLE X.—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
July 1,...	8	R-cum.	SSW	7	c-cum. / R-cum.	ENE / SSW	7	cum.	SSW	1	cum.	...	6.6
„ 2,...	5	cum.	S	2	c-str. / cum.	SSW	2	cum.	SSW	1	cum.	...	4.0
„ 3,...	1	cum.	SW	1	c-str. / cum.	E / SW	2	c-str. / cum.	WSW	0	...	...	3.2
„ 4,...	1	cum.	WSW	1	cum.	WSW	0	...	...	0	...	...	1.4
„ 5,...	1	cum.	SW	2	cum.	SW	5	cum.	SSW	1	sm-cum.	SSW	2.0
„ 6,...	3	cum.	SW	5	cum.	SW	1	cum.	SW	0	...	...	2.4
„ 7,...	1	cum.	WSW	1	cum.	WSW	0	...	...	1	cum.	WSW	1.1
„ 8,...	1	c-str. / cum.	WSW	1	c-str.	E	1	c-str.	...	0	...	...	1.0
„ 9,...	5	c-str. / cum.	ENE / WSW	2	c-str.	...	2	c-str.	...	9	c-str.	...	3.4
„ 10,...	6	c-str. / cum.	E / SW	4	c-str.	E	5	c-str.	...	3	c-str.	...	3.9
„ 11,...	2	c-str.	E	5	c-str.	E	3	c-str.	E	7	c-str.	E	4.3
„ 12,...	8	c-str.	E	4	c-str.	E	3	c-str. / c-cum.	...	2	c-str.	E	4.5
„ 13,...	4	c-str. / cum.	E / SSE	5	c-str. / cum.	ENE / ESE	2	c-str.	...	8	c-str. / cum.	ESE	4.7
„ 14,...	2	c-cum. / cum-str.	ENE / ..	1	c-str.	ENE	3	c-str. / cum.	E	9	c-str. / cum.	ENE / ESE	5.5
„ 15,...	0	...	...	0	...	...	0	...	...	2	c-str.	N	8.8
„ 16,...	9	sm-cum. / cum.	E / NE	9	sm-cum. / cum.	E / NE	9	sm-cum. / R-cum.	E / ENE	10	nim.	E	6.4
„ 17,...	10	cum.	SE	10	nim.	SSE	10	c-str. / cum.	SSE	10	cum-nim.	...	10.0
„ 18,...	9	c-str. / cum.	ENE / S	10	c-str. / cum.	ENE / S	9	c-str. / cum.	S	5	c-str. / cum.	S	8.2
„ 19,...	9	c-str. / cum.	WSW	8	c-str. / cum.	ENE / WSW	8	c-str. / cum.	WSW	9	cum-nim.	...	8.9
„ 20,...	6	c-str. / cum.	WSW	8	sm-cum. / cum.	E / WSW	9	c-str. / cum.	WSW	9	cum.	SW	8.1
„ 21,...	10	nim.	SW	9	c-cum. / cum.	E / SW	9	cum. / cum.	E / SW	10	cum-nim.	...	9.3
„ 22,...	10	R-cum.	SW	9	c-str. / R-cum.	SW	10	cum-nim.	SSW	10	cum-nim.	...	9.7
„ 23,...	9	c-str. / cum.	NE / SW	9	cum.	SW	10	cum-nim.	SW	9	cum-nim.	...	9.3
„ 24,...	9	c-str. / cum.	NE / SW	7	c-str. / cum.	NE / SW	3	c-str. / cum.	SW	1	cum.	...	6.9
„ 25,...	9	c-str. / cum.	S	7	c-str. / cum.	S	9	c-str. / sm-cum. / cum.	ENE / S	2	c-str. / cum.	...	7.4
„ 26,...	4	c-str. / cum.	E / S	2	c-str. / cum.	S	3	c-str.	E	0	...	...	6.5
„ 27,...	5	c-cum. / R-cum.	ENE / ENE	10	nim.	E	10	R-cum.	E	10	nim.	ESE	7.1
„ 28,...	6	c-str.	ENE	5	c-str. / cum.	ENE / S	1	cum.	E	0	...	...	5.6
„ 29,...	3	cum.	SE	1	c-cum. / cum.	SE	0	...	...	0	...	...	1.0
„ 30,...	4	cum.	SE	1	cum.	...	0	...	...	0	...	...	1.5
„ 31,...	2	cum.	W	2	cum.	W	2	c str. / cum.	ESE / W	0	...	...	1.2
Mean,...	5.2	...	...	4.8	...	...	4.5	...	...	4.2	...	...	5.0

HONGKONG OBSERVATORY.

Weather Report for August, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 2nd, 7th, 8th, 9th, 10th, 18th and 26th.

Solar corona: on the 10th.

Lunar halo: on the 6th, 7th, 8th and 10th.

Lunar corona: on the 7th, 8th, 9th and 12th.

Slight fog: on the 20th, 23rd, 26th and 28th.

Haze: on the 1st, 6th, 7th, 9th, 19th, 22nd, 24th, 25th, 27th and 29th.

Dew: on the 7th, 8th, 9th, 17th, 18th, 22nd, 25th, 26th and 28th.

Rainbow: on the mornings of the 2nd, 3rd, 6th, 11th, 12th, 20th and 21st. On the evening of the 2nd.

Lightning without thunder: on the 1st, 3rd, 7th, 10th, 16th, 17th, 18th, 20th, 21st and 23rd.

Thunder without lightning: on the 10th, 12th, 21st and 23rd.

Thunderstorms: on the 2nd, 5.15 p.—6.30 p. in NE; nearest at 5.53 p. (15s.). On the 6th from 11 p. to 7th 1 a. in SW; nearest at 11.15 p. (9s.). On the 8th 3 a.—6 a. in S; nearest at 3.0 a. (10s.), and at 4.0 a. (18s.). On the 22nd 1 a.—4 a. in S; nearest at 3.9 a. (2s.). On the 24th 9 a.—10 a. in S; nearest at 9.30 a. (29s.). On the same day from 6 p.—7 p. from N—S; nearest at 6.46 p. (18s.).

The Total Distance traversed by, as well as the duration and average velocity of the wind from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	95	13	7.3
NE	504	39	12.9
E	4670	282	16.6
SE	1721	113	15.2
S	696	72	9.7
SW	286	43	6.7
W	352	48	7.3
NW	165	30	5.5
Calm	59	104	0.6

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF AUGUST, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
Aug. 1,...	29.581	29.565	29.539	29.537	29.545	29.546	29.555	29.559	29.558	29.545	29.546	29.533	29.521	29.491	29.480	29.460	29.467	29.468	29.479	29.492	29.502	29.525	29.531	29.533	29.523
„ 2,...	.526	.513	.499	.497	.491	.494	.532	.540	.548	.547	.537	.522	.515	.500	.476	.473	.486	.500	.521	.544	.561	.578	.564	.562	.522
„ 3,...	.543	.525	.515	.529	.535	.565	.573	.576	.591	.586	.587	.580	.568	.562	.538	.538	.550	.574	.597	.606	.624	.636	.635	.627	.573
„ 4,...	.621	.614	.603	.598	.610	.621	.638	.665	.678	.685	.678	.678	.678	.674	.656	.637	.635	.642	.669	.688	.716	.732	.734	.728	.662
„ 5,...	.706	.685	.680	.679	.680	.688	.694	.705	.723	.727	.719	.696	.689	.684	.671	.682	.680	.690	.706	.731	.741	.747	.751	.740	.704
„ 6,...	.733	.723	.726	.721	.733	.749	.780	.788	.792	.794	.790	.776	.764	.733	.727	.728	.729	.730	.753	.784	.814	.813	.812	.809	.763
„ 7,...	.793	.773	.768	.774	.776	.782	.799	.814	.825	.828	.827	.822	.804	.785	.775	.758	.744	.776	.786	.810	.830	.835	.833	.824	.798
„ 8,...	.811	.798	.786	.786	.808	.818	.824	.824	.826	.831	.831	.818	.787	.776	.750	.729	.725	.729	.738	.769	.786	.798	.823	.798	.790
„ 9,...	.778	.759	.740	.733	.729	.729	.739	.741	.763	.765	.762	.744	.729	.687	.675	.670	.655	.663	.678	.693	.730	.739	.737	.730	.724
„ 10,...	.718	.689	.685	.683	.685	.691	.711	.734	.747	.744	.742	.734	.703	.679	.659	.640	.633	.651	.681	.700	.731	.732	.727	.724	.701
„ 11,...	.706	.704	.686	.673	.660	.675	.686	.699	.724	.731	.729	.728	.728	.710	.684	.680	.670	.667	.683	.710	.738	.754	.767	.739	.705
„ 12,...	.733	.718	.700	.686	.684	.692	.722	.729	.736	.750	.736	.733	.702	.689	.682	.661	.639	.641	.663	.685	.687	.706	.689	.684	.698
„ 13,...	.654	.632	.621	.599	.595	.606	.612	.604	.586	.586	.576	.555	.535	.522	.485	.473	.470	.477	.461	.472	.482	.494	.490	.481	.544
„ 14,...	.477	.457	.427	.426	.423	.399	.432	.427	.438	.433	.436	.431	.433	.398	.380	.386	.386	.392	.390	.414	.438	.444	.455	.444	.424
„ 15,...	.443	.434	.432	.430	.424	.441	.477	.511	.522	.522	.524	.501	.498	.508	.492	.491	.491	.499	.529	.541	.559	.574	.581	.580	.500
„ 16,	.584	.556	.546	.550	.555	.576	.592	.596	.620	.636	.636	.626	.608	.587	.586	.581	.584	.587	.589	.625	.649	.656	.662	.658	.602
„ 17,...	.643	.632	.630	.628	.629	.634	.657	.662	.673	.674	.674	.651	.634	.630	.621	.602	.610	.624	.628	.652	.673	.680	.679	.667	.645
„ 18,...	.665	.659	.648	.639	.636	.664	.675	.680	.676	.672	.668	.659	.640	.621	.608	.593	.610	.616	.633	.654	.677	.686	.682	.681	.652
„ 19,...	.669	.639	.634	.629	.634	.632	.645	.658	.667	.677	.667	.643	.627	.594	.590	.578	.575	.584	.595	.613	.632	.631	.632	.612	.627
„ 20,...	.592	.583	.583	.580	.586	.591	.607	.624	.630	.629	.612	.590	.566	.532	.509	.492	.493	.487	.495	.525	.533	.545	.546	.559	.562
„ 21,...	.543	.525	.505	.493	.501	.529	.537	.542	.542	.542	.533	.506	.484	.449	.439	.442	.445	.442	.463	.491	.529	.533	.531	.531	.503
„ 22,...	.515	.501	.525	.491	.494	.496	.522	.525	.526	.527	.528	.521	.516	.492	.484	.477	.476	.482	.489	.514	.535	.553	.556	.539	.512
„ 23,...	.515	.504	.488	.486	.491	.493	.525	.535	.539	.548	.541	.536	.518	.501	.494	.489	.493	.530	.537	.567	.591	.607	.610	.607	.531
„ 24,...	.588	.582	.582	.587	.585	.592	.620	.646	.674	.666	.664	.655	.629	.593	.584	.589	.585	.635	.648	.674	.675	.683	.668	.640	.627
„ 25,...	.637	.634	.629	.625	.629	.645	.658	.678	.691	.693	.688	.687	.677	.668	.655	.640	.629	.621	.624	.642	.678	.679	.677	.652	.656
„ 26,...	.637	.631	.629	.629	.633	.635	.638	.639	.643	.658	.640	.629	.614	.590	.580	.578	.572	.583	.591	.613	.636	.640	.640	.637	.621
„ 27,...	.631	.623	.608	.614	.620	.624	.637	.643	.656	.651	.649	.639	.633	.609	.591	.584	.586	.602	.627	.661	.688	.698	.694	.691	.636
„ 28,...	.681	.673	.654	.647	.656	.667	.684	.693	.710	.722	.721	.717	.700	.681	.673	.666	.662	.677	.684	.693	.716	.723	.724	.725	.690
„ 29,...	.719	.701	.696	.688	.688	.700	.717	.731	.732	.746	.743	.736	.728	.697	.681	.669	.668	.680	.692	.727	.734	.738	.740	.737	.712
„ 30,...	.728	.721	.708	.705	.709	.714	.735	.745	.759	.772	.775	.755	.739	.741	.742	.731	.724	.729	.740	.767	.782	.790	.789	.790	.745
„ 31,...	.795	.783	.773	.767	.769	.776	.783	.789	.802	.801	.797	.785	.773	.755	.740	.733	.733	.731	.739	.761	.777	.779	.776	.773	.770
Hourly Means, ...	29.644	29.630	29.621	29.616	29.619	29.628	29.645	29.655	29.664	29.667	29.663	29.651	29.637	29.617	29.603	29.595	29.594	29.604	29.616	29.639	29.659	29.669	29.669	29.661	29.636

TABLE II.

TEMPERATURE FOR THE MONTH OF AUGUST, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
Aug. 1,	80.6	79.8	79.2	79.0	78.7	80.3	81.6	82.4	83.4	85.5	85.3	85.7	85.1	89.0	89.0	87.1	86.5	86.1	83.2	83.0	82.5	83.2	82.7	82.6	83.4	89.8	77.9
„ 2,	82.7	82.8	82.7	82.1	80.4	77.6	79.1	82.8	83.5	82.2	83.4	84.8	85.8	82.4	80.3	82.6	82.3	77.7	78.1	79.3	79.2	79.7	79.6	79.4	81.3	87.0	76.9
„ 3,	79.2	78.8	78.6	79.3	78.6	79.3	79.6	80.6	79.7	81.5	82.2	82.6	82.7	81.6	78.3	78.7	78.3	78.3	79.7	79.2	79.0	76.8	78.9	79.2	79.6	83.4	76.8
„ 4,	79.4	78.3	78.7	77.0	78.0	78.9	80.1	80.1	77.8	78.0	80.5	78.3	79.6	80.3	81.2	81.4	81.1	80.1	78.7	78.1	75.8	76.3	75.5	76.5	78.7	82.1	75.5
„ 5,	75.4	76.2	76.8	77.0	77.2	77.6	78.1	78.3	78.7	79.1	79.6	79.7	80.9	79.9	80.1	76.1	76.0	76.5	77.5	77.3	76.6	77.0	77.5	78.1	77.8	81.2	74.8
„ 6,	77.8	77.9	77.4	77.6	77.7	77.8	78.9	78.3	81.4	81.6	82.1	81.3	82.4	82.8	81.8	78.1	78.5	78.9	78.9	78.9	79.1	79.0	78.6	77.8	79.4	84.2	76.6
„ 7,	77.6	77.7	77.5	78.0	78.4	78.4	79.6	81.6	82.7	83.4	83.4	83.3	82.9	82.7	82.1	81.8	80.7	79.8	79.7	79.7	79.5	79.7	79.2	79.0	80.3	84.1	77.2
„ 8,	79.2	78.5	77.3	77.1	76.0	76.4	76.7	77.8	80.0	83.8	82.6	83.9	84.8	83.0	83.3	81.9	81.2	80.9	79.8	79.9	79.9	79.0	78.9	78.9	80.0	85.2	75.3
„ 9,	79.1	79.2	78.8	78.4	78.3	78.4	79.7	80.8	82.0	82.2	81.1	84.9	84.8	87.0	85.8	83.0	82.9	82.3	80.5	80.2	80.2	79.2	79.0	78.7	81.1	87.6	77.8
„ 10,	78.4	78.5	78.1	78.2	78.4	79.0	79.6	77.6	77.9	81.7	83.2	85.8	85.4	83.6	84.6	84.3	85.6	83.1	81.6	80.4	80.2	80.6	80.4	80.7	81.1	86.1	77.5
„ 11,	81.1	81.2	81.0	80.7	80.2	80.9	81.7	83.9	80.7	79.9	83.7	84.4	84.6	84.5	84.5	83.9	83.1	82.1	81.9	81.9	82.1	82.0	80.2	80.3	82.1	85.2	79.2
„ 12,	79.5	79.4	79.3	80.4	79.4	80.2	79.5	80.9	78.9	81.7	84.0	84.1	85.2	84.6	84.7	84.0	83.7	82.9	81.9	81.9	81.0	80.9	80.8	80.8	81.7	85.5	78.9
„ 13,	81.0	80.0	80.1	81.0	77.7	77.4	76.9	81.5	82.2	81.8	82.1	82.5	81.0	82.8	82.1	82.3	81.8	79.4	81.3	81.3	81.4	81.7	78.9	80.1	80.8	83.4	76.9
„ 14,	80.7	79.8	78.8	76.4	77.4	78.0	77.5	78.7	79.5	78.7	78.0	79.1	77.1	77.7	79.1	77.7	78.1	78.5	79.7	78.7	78.2	76.1	79.1	79.4	78.4	81.2	75.4
„ 15,	77.1	78.6	79.0	79.6	77.7	77.8	75.6	75.4	74.9	79.8	81.9	82.8	85.0	78.9	83.2	83.5	83.3	82.3	82.2	82.4	82.3	81.1	81.2	80.9	80.3	86.3	74.9
„ 16,	81.2	81.2	81.1	80.6	80.8	80.9	81.6	82.6	83.4	83.3	83.4	83.9	84.6	84.8	84.7	84.1	82.4	81.3	81.2	81.5	81.3	81.6	81.4	81.3	82.3	85.4	80.3
„ 17,	81.6	80.5	80.0	80.7	80.5	80.0	81.7	82.9	84.9	82.6	85.4	85.2	84.8	84.3	84.7	84.9	83.0	82.2	81.4	80.7	80.1	79.9	79.5	79.5	82.1	86.7	79.4
„ 18,	79.0	78.4	78.6	78.3	78.4	78.7	81.2	83.1	85.3	85.5	84.9	87.0	87.9	88.6	87.5	84.4	84.7	84.5	82.3	81.4	81.2	80.5	80.0	80.0	82.6	89.3	77.4
„ 19,	79.8	79.9	79.2	79.1	79.2	79.9	80.3	81.6	81.5	84.0	86.0	85.8	85.8	86.6	88.4	86.7	84.6	84.7	83.1	82.9	82.7	81.7	81.2	81.0	82.7	88.6	79.1
„ 20,	80.8	80.5	80.4	79.9	80.1	80.2	82.3	80.9	83.7	84.9	85.4	88.1	88.4	88.2	87.5	87.2	87.3	86.6	83.8	83.7	83.2	82.7	83.2	82.8	83.8	89.0	79.5
„ 21,	81.0	81.2	80.6	78.4	78.4	79.0	80.2	81.2	82.2	84.4	86.7	86.2	86.1	85.2	85.9	85.6	84.2	83.1	82.6	82.3	82.9	82.0	81.4	81.3	82.6	88.1	77.6
„ 22,	81.5	80.8	77.2	75.5	76.4	77.0	79.5	81.4	81.6	82.6	85.6	83.5	80.1	78.4	78.5	80.6	80.7	81.6	79.8	79.8	80.0	79.8	79.4	79.5	80.0	86.3	75.3
„ 23,	79.2	79.0	78.9	78.6	78.4	78.6	80.8	82.6	83.7	85.0	86.3	87.1	87.8	86.5	85.9	85.0	85.0	84.3	83.3	83.5	82.8	81.9	81.9	81.8	82.8	88.5	78.1
„ 24,	81.3	81.0	81.0	80.7	80.7	80.8	81.1	81.8	78.2	80.7	82.2	83.5	83.8	84.5	86.3	84.9	83.1	74.9	76.2	77.1	77.3	77.5	77.8	78.0	80.6	86.6	74.9
„ 25,	77.9	77.6	78.2	78.6	78.7	78.8	81.5	81.9	82.6	84.2	83.3	83.2	84.7	82.7	82.8	81.7	81.1	80.3	79.3	79.9	79.0	78.8	78.3	77.8	80.5	85.6	77.1
„ 26,	77.7	77.5	77.3	77.0	77.6	77.3	79.6	81.1	82.9	84.0	83.8	85.1	85.0	87.0	86.8	86.7	85.1	82.6	80.9	79.8	79.0	78.2	78.1	78.2	81.2	87.7	77.0
„ 27,	77.2	77.5	77.0	76.9	76.6	76.3	79.1	81.4	84.1	85.0	86.7	86.1	84.7	84.2	83.9	83.1	82.3	81.4	79.8	79.0	78.8	79.3	78.0	77.5	80.7	87.5	76.2
„ 28,	77.0	76.8	76.4	76.2	75.9	76.8	80.2	82.2	84.2	83.6	84.4	83.4	83.2	82.8	83.5	82.8	81.9	81.6	79.3	78.9	78.7	78.5	77.8	77.9	80.2	85.0	75.9
„ 29,	77.5	77.8	76.7	77.1	76.7	77.0	79.4	82.4	84.4	84.4	84.8	84.6	84.8	84.7	84.2	83.6	82.9	81.9	80.8	80.8	80.7	79.8	79.4	79.0	81.1	85.9	76.0
„ 30,	78.5	78.9	78.7	79.2	79.2	79.8	81.6	82.5	82.8	83.8	84.4	84.4	84.7	81.3	78.2	79.6	80.2	81.0	80.8	80.4	80.3	79.8	78.5	78.2	80.7	85.9	77.2
„ 31,	78.0	78.0	77.8	78.6	79.1	79.3	78.7	80.1	83.1	82.8	84.4	84.6	83.2	82.2	83.1	82.8	82.8	82.1	80.8	80.7	80.0	79.7	79.1	78.8	80.8	86.2	77.6
Hourly Means,	79.3	79.1	78.8	78.6	78.4	78.7	79.8	81.0	81.7	82.6	83.6	84.0	84.1	83.6	83.6	82.9	82.4	81.4	80.6	80.5	80.2	79.8	79.5	79.5	81.0	86.0	77.1

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF AUGUST, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
Aug. 1,...	77.5	77.7	76.8	76.9	77.0	77.9	78.7	78.1	78.9	79.4	79.3	78.6	78.7	79.7	79.6	80.4	79.9	79.6	77.9	78.7	78.9	78.9	78.9	78.9	78.6	149.6
„ 2,...	79.1	79.1	78.9	78.8	77.0	76.7	77.9	78.0	79.1	77.1	77.9	79.3	78.6	78.5	77.7	78.3	79.0	74.9	75.9	77.6	77.4	77.9	77.6	77.0	77.9	136.6
„ 3,...	76.3	75.3	76.1	76.1	75.5	75.7	76.6	77.1	76.7	77.0	77.2	77.3	76.8	77.4	76.5	76.1	75.9	77.0	75.1	75.9	74.8	75.4	75.2	76.1	76.2	149.4
„ 4,...	75.7	74.9	74.8	75.1	75.2	75.0	75.9	76.0	75.2	75.7	76.5	76.3	76.3	76.6	75.9	76.7	76.9	76.9	75.7	75.8	74.9	75.7	74.9	75.5	75.8	136.2
„ 5,...	74.1	74.7	75.7	74.9	75.0	75.2	75.0	75.6	75.4	75.7	75.9	76.5	76.1	76.8	76.5	75.9	75.9	75.6	75.8	76.0	76.0	75.1	75.6	76.3	75.6	125.5
„ 6,...	76.0	76.2	76.6	76.8	77.0	76.6	77.4	75.9	78.4	77.7	77.9	76.3	77.0	78.1	77.2	75.7	76.9	77.0	76.9	77.0	77.5	77.7	77.1	76.3	77.0	152.9
„ 7,...	76.5	76.8	76.6	76.6	76.8	76.1	76.7	77.6	78.4	78.5	78.3	78.3	77.8	78.2	77.9	77.9	76.8	77.0	77.4	77.7	77.8	78.1	77.9	77.8	77.5	132.9
„ 8,...	78.1	77.3	76.6	76.5	74.4	73.1	74.9	76.1	77.6	79.0	78.5	80.6	79.0	79.1	78.6	78.6	77.9	78.6	78.0	78.3	77.9	77.7	77.6	77.6	77.6	147.7
„ 9,...	77.7	77.5	77.3	77.1	77.2	77.3	77.9	78.5	79.8	78.7	78.1	79.9	79.7	81.9	79.9	78.8	78.9	76.9	77.6	76.8	76.8	77.4	76.6	76.4	78.1	153.6
„ 10,...	76.7	76.7	76.7	76.8	77.0	77.5	77.8	75.8	76.5	77.8	79.0	80.0	78.8	78.2	79.1	78.5	78.8	78.8	77.9	77.8	77.8	77.7	77.7	78.0	77.8	145.2
„ 11,...	78.5	78.7	78.3	77.8	78.0	78.4	78.7	79.2	78.1	78.1	80.1	80.0	79.6	80.4	79.7	79.6	79.7	79.6	79.0	78.7	78.6	79.1	77.8	78.3	78.9	146.5
„ 12,...	78.3	77.6	77.9	78.0	78.1	78.1	77.9	78.9	77.1	78.9	79.1	78.5	78.4	78.3	78.6	79.0	79.4	78.7	77.9	78.8	78.2	77.9	78.0	77.9	78.3	146.8
„ 13,...	77.9	77.9	77.8	76.8	75.9	76.0	75.8	78.3	77.4	77.8	78.3	79.1	77.9	78.0	78.1	77.3	77.1	77.3	77.0	77.0	77.2	77.1	76.9	76.8	77.4	142.5
„ 14,...	76.7	76.2	75.8	74.3	75.0	76.2	75.9	76.8	75.8	76.6	75.7	75.6	74.7	75.5	75.7	74.9	75.6	74.2	74.5	75.5	74.9	75.7	75.0	76.4	75.5	126.4
„ 15,...	74.7	75.3	74.7	74.8	74.7	75.6	74.5	74.1	73.7	76.7	77.7	78.1	79.9	75.2	79.0	78.7	78.7	78.0	78.5	78.6	78.7	78.8	78.9	78.3	76.9	147.0
„ 16,...	78.0	77.5	77.2	77.1	77.5	77.7	78.0	78.2	78.4	78.9	78.8	79.2	79.9	80.3	80.1	79.9	80.0	79.3	78.0	78.1	77.8	78.1	78.1	77.9	78.5	130.5
„ 17,...	77.9	77.8	77.7	77.9	77.9	77.5	78.4	79.1	79.4	79.1	80.5	79.9	79.6	79.3	79.8	79.1	78.8	78.8	78.0	77.9	77.7	77.5	77.2	77.2	78.5	143.3
„ 18,...	77.4	77.4	77.2	77.1	77.0	77.4	78.7	79.3	79.7	79.0	78.0	77.4	77.4	78.1	76.2	76.7	78.2	78.7	76.4	76.5	77.1	77.1	76.8	76.6	77.6	144.4
„ 19,...	76.7	77.1	76.8	76.8	76.9	77.4	77.6	78.3	77.3	77.4	80.4	79.6	78.8	79.1	79.9	77.8	75.8	76.5	75.8	75.7	77.5	77.7	78.1	78.1	77.6	154.8
„ 20,...	78.3	78.3	77.9	77.9	77.7	77.5	78.7	76.4	78.6	78.9	78.4	78.1	79.7	78.9	79.3	79.3	79.3	79.6	77.9	78.7	78.5	78.7	78.2	79.0	78.5	141.5
„ 21,...	78.6	78.7	78.3	75.6	76.6	77.0	77.8	78.4	77.8	78.5	79.6	79.6	79.8	79.5	80.1	80.0	79.3	79.3	78.7	78.7	78.8	78.8	78.7	78.7	78.6	151.4
„ 22,...	78.6	77.4	75.4	74.7	74.9	75.6	76.6	77.7	77.3	77.6	79.5	77.7	77.3	76.8	76.5	77.3	77.5	77.9	77.5	77.7	77.5	77.9	77.8	77.5	77.2	150.7
„ 23,...	77.5	77.5	77.1	76.7	77.0	77.0	78.2	78.8	79.6	79.9	80.0	80.5	80.0	81.4	80.4	80.0	80.0	79.6	78.8	78.7	78.9	79.1	79.0	78.6	78.9	144.5
„ 24,...	79.1	78.8	78.7	79.0	78.9	78.8	79.1	79.7	76.1	77.6	78.5	79.0	79.7	80.1	81.0	79.4	78.8	74.8	75.7	75.7	75.8	75.7	75.8	75.7	78.0	139.4
„ 25,...	75.6	75.8	75.8	76.2	76.4	76.5	76.3	74.9	74.9	76.3	75.6	77.8	77.5	78.9	78.4	79.4	78.0	77.8	76.9	76.6	77.4	77.0	77.0	76.9	76.8	133.0
„ 26,...	76.7	76.9	76.5	76.4	76.4	74.8	71.9	71.4	71.8	73.1	73.7	73.4	75.4	74.2	72.2	73.9	76.7	75.8	74.9	74.4	73.9	74.1	73.4	74.2	74.4	142.0
„ 27,...	73.6	73.3	73.0	72.7	73.0	72.5	74.8	74.1	75.2	75.0	75.0	75.1	76.7	77.8	77.6	75.9	74.8	74.6	73.8	73.9	73.9	73.5	74.6	74.3	74.5	141.2
„ 28,...	74.8	74.4	74.5	74.4	74.4	74.8	76.2	76.8	77.7	77.4	77.0	76.9	76.0	76.8	77.8	76.6	76.0	75.9	75.8	75.7	75.9	75.8	75.8	74.8	75.9	142.1
„ 29,...	74.7	74.3	74.8	74.5	74.7	74.8	76.4	76.3	77.2	76.2	76.7	77.3	77.7	77.6	77.1	76.6	75.8	75.7	75.3	75.7	75.8	75.8	74.7	74.8	75.9	140.2
„ 30,...	75.1	75.1	75.2	75.4	75.8	75.8	76.5	75.5	75.0	76.2	76.1	76.8	76.7	74.4	74.5	74.8	75.4	76.9	76.4	74.2	75.9	75.8	75.7	75.7	75.6	148.6
„ 31,...	75.3	75.0	75.4	75.6	75.6	75.8	75.6	76.8	78.5	77.9	78.4	78.2	78.1	77.9	77.7	77.8	78.2	77.5	77.1	77.3	77.1	76.9	76.7	76.8	77.0	149.4
Hourly Mean ...	76.8	76.7	76.5	76.3	76.3	76.3	76.9	77.0	77.2	77.5	77.9	78.1	78.1	78.2	78.0	77.8	77.7	77.4	76.8	77.0	77.0	77.1	76.9	76.9	77.2	143.1

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF AUGUST, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	89	0.889	Aug. 1,.....	80	0.915
2 „	89	.887	„ 2,.....	85	.911
3 „	90	.883	„ 3,.....	85	.859
4 „	90	.877	„ 4,.....	87	.854
5 „	91	.880	„ 5,.....	90	.858
6 „	89	.875	„ 6,.....	89	.896
7 „	87	.886	„ 7,.....	88	.907
8 „	83	.875	„ 8,.....	89	.915
9 „	81	.874	„ 9,.....	87	.923
10 „	79	.876	„ 10,.....	86	.910
11 „	76	.880	„ 11,.....	86	.946
Noon.	75	.884	„ 12,.....	85	.924
1 p	75	.882	„ 13,.....	85	.896
2 „	77	.894	„ 14,.....	87	.845
3 „	77	.885	„ 15,.....	85	.881
4 „	79	.885	„ 16,.....	84	.925
5 „	80	.887	„ 17,.....	85	.928
6 „	83	.887	„ 18,.....	79	.881
7 „	84	.872	„ 19,.....	79	.879
8 „	85	.882	„ 20,.....	78	.905
9 „	86	.886	„ 21,.....	83	.925
10 „	88	.896	„ 22,.....	88	.898
11 „	89	.891	„ 23,.....	83	.936
Midt.	89	.891	„ 24,.....	89	.926
			„ 25,.....	84	.873
			„ 26,.....	71	.761
			„ 27,.....	73	.772
			„ 28,.....	81	.838
			„ 29,.....	78	.825
			„ 30,.....	78	.818
			„ 31,.....	84	.878
Mean,.....	84	0.884	Mean.	84	0.884

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
Aug. 1,.....	0.6	1.0	1.0	1.0	1.0	0.9	0.9	0.3	1.0	1.0	1.0	1.0	0.4	11.1
„ 2,.....	...	0.1	0.8	0.3	...	0.4	...	0.1	...	...	...	...	...	1.7
„ 3,.....	...	0.4	0.6	0.2	0.1	0.6	0.3	0.1	...	...	0.1	...	...	2.4
„ 4,.....	...	0.4	0.5	...	0.2	0.3	...	0.1	0.1	0.2	0.4	...	...	2.2
„ 5,.....	...	...	...	...	...	...	...	...	0.2	...	...	...	...	0.2
„ 6,.....	...	...	0.1	0.9	0.9	0.5	0.5	0.6	0.7	0.1	...	...	...	4.3
„ 7,.....	...	0.3	0.4	...	...	...	0.3	...	0.3	0.7	0.3	0.2	...	2.5
„ 8,.....	...	...	...	0.1	1.0	0.8	1.0	1.0	0.2	...	...	0.1	...	4.2
„ 9,.....	...	...	0.1	0.5	0.2	...	0.8	0.8	0.9	1.0	...	...	...	4.3
„ 10,.....	...	0.2	...	...	0.4	0.8	1.0	1.0	0.9	1.0	1.0	1.0	0.1	7.4
„ 11,.....	...	0.9	1.0	...	0.2	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.1	9.0
„ 12,.....	...	0.2	...	...	0.5	1.0	1.0	1.0	1.0	0.7	0.9	0.9	...	7.2
„ 13,.....	...	...	0.3	0.4	0.1	...	...	...	...	0.2	...	...	...	1.0
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	0.2	0.1	0.5	...	0.1	0.3	0.4	...	1.6
„ 16,.....	...	...	...	...	...	...	...	...	0.1	...	0.2	0.6	...	0.9
„ 17,.....	...	0.4	0.9	1.0	0.9	1.0	1.0	1.0	0.7	1.0	0.7	...	...	8.6
„ 18,.....	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	0.2	...	8.9
„ 19,.....	...	...	...	...	0.8	1.0	...	...	0.7	1.0	0.8	...	...	4.3
„ 20,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	11.3
„ 21,.....	...	0.9	1.0	1.0	1.0	1.0	0.8	0.3	0.2	0.2	0.1	...	...	6.5
„ 22,.....	...	0.2	0.6	0.2	0.7	0.9	...	...	...	0.1	0.5	...	...	3.2
„ 23,.....	...	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.5	...	0.1	...	...	7.2
„ 24,.....	...	...	...	...	...	...	...	0.1	0.3	0.6	0.1	...	...	1.1
„ 25,.....	...	0.8	0.4	...	...	...	...	...	...	...	...	0.2	...	1.4
„ 26,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	10.9
„ 27,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	11.3
„ 28,.....	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.3	11.3
„ 29,.....	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	11.0
„ 30,.....	...	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	...	0.5	0.1	7.9
„ 31,.....	...	...	...	0.6	0.8	0.9	0.4	...	0.3	0.7	0.5	0.2	0.2	4.6
Sums,.....	1.3	13.5	15.7	14.2	16.8	19.2	17.0	15.5	15.4	15.2	13.0	11.1	1.6	169.5

TABLE VI.

RAINFALL FOR THE MONTH OF AUGUST, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
Aug. 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.50
„ 2,.....	...	...	...	...	0.425	0.105	0.020	...	...	...	...	...	...	...	0.005	...	0.060	0.065	...	0.005	...	...	...	...	0.685	4	0.31
„ 3,.....	...	...	...	0.005	...	0.010	0.110	0.020	0.010	...	...	...	...	...	0.070	0.065	0.140	0.035	...	0.015	0.135	0.085	...	...	0.700	6	0.75
„ 4,.....	0.090	...	0.015	0.170	0.005	...	...	...	0.160	0.245	0.015	0.160	0.025	...	...	...	...	0.070	0.130	0.350	0.275	0.925	0.315	0.205	3.155	10	3.10
„ 5,.....	0.040	0.060	0.015	...	...	...	...	...	...	...	...	0.005	...	...	0.050	0.745	0.600	0.100	0.105	0.155	0.110	0.025	...	...	2.010	12	1.90
„ 6,.....	...	0.090	0.020	...	0.010	0.035	0.025	0.025	...	...	...	...	...	...	...	0.130	0.060	...	...	...	...	...	...	0.020	0.415	4	...
„ 7,.....	...	...	...	...	0.175	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.175	1	0.32
„ 8,.....	0.065	0.635	0.350	0.100	0.050	0.015	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.230	6	...
„ 9,.....	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	0.12
„ 10,.....	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	1	...
„ 11,.....	...	...	...	...	...	...	...	...	0.025	0.065	...	...	...	...	...	...	...	...	...	...	...	...	0.025	0.345	0.460	2	0.23
„ 12,.....	0.075	...	0.045	...	...	...	0.080	0.040	0.025	0.055	...	...	...	...	...	...	...	...	...	...	0.025	0.040	...	...	0.385	5	0.85
„ 13,.....	0.035	...	0.035	0.335	0.110	0.025	0.120	...	...	0.035	0.045	...	0.025	...	...	...	...	0.070	...	...	...	...	0.060	0.010	0.905	6	1.95
„ 14,.....	...	0.005	0.040	0.165	0.015	0.060	0.020	...	...	0.075	0.010	0.015	0.040	...	...	0.060	0.040	0.005	...	0.020	...	0.265	...	...	0.835	10	3.80
„ 15,.....	...	...	...	0.170	0.030	0.095	0.895	0.605	0.130	0.030	...	...	...	...	...	...	...	...	...	...	0.030	0.105	...	...	2.090	5	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	0.040	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.040	...	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.100	0.100	...	1.56
„ 21,.....	0.225	0.005	0.015	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.275	2	...
„ 22,.....	...	...	1.600	0.170	0.200	...	...	...	...	...	...	...	0.275	0.130	0.015	...	...	...	...	...	...	...	...	...	2.390	6	2.64
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	...	...	...	...	0.040	0.005	...	...	...	...	...	...	...	1.890	0.070	0.155	0.065	...	...	...	2.225	5	1.15
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,.....	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	...	...	...	...	...	...	...	...	...	0.045	1	...
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.530	0.835	2.135	1.145	1.025	0.345	1.285	0.695	0.400	0.510	0.070	0.180	0.365	0.130	0.185	1.000	0.900	2.235	0.305	0.700	0.640	1.445	0.400	0.680	18.140	86	19.18

The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF AUGUST, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
August 1,	22	6	26	3	28	4	...	1	...	0	...	0	27	2	26	5	25	7	25	7	24	15	23	9	23	10	20	8	22	7	18	11	18	9	17	11	17	7	18	3	...	1	...	0	18	2	20	3	131	5.5	21
" 2,	19	7	18	6	19	9	21	7	21	12	24	4	22	3	15	4	11	3	23	11	29	7	27	4	13	3	6	11	8	12	8	7	7	9	4	14	9	12	8	10	11	8	9	11	7	16	6	14	204	8.5	9
" 3,	7	17	6	23	7	25	7	21	7	23	7	21	5	21	6	19	7	23	6	25	7	30	7	26	7	26	7	23	7	26	7	32	9	39	9	32	8	34	9	34	8	32	9	32	7	27	9	30	641	26.7	7
" 4,	10	30	9	37	8	36	7	32	9	34	8	33	8	33	8	33	8	33	8	33	7	35	8	39	9	42	9	31	8	38	9	38	8	42	6	36	7	37	10	34	11	32	10	28	9	27	9	30	823	34.3	8
" 5,	7	22	6	16	7	16	6	23	5	20	5	21	5	23	6	21	6	24	7	28	7	32	7	30	7	28	7	27	7	26	11	23	10	26	8	21	8	21	8	31	9	32	9	21	7	19	9	21	572	23.8	7
" 6,	7	14	10	12	9	9	9	12	8	7	9	3	6	6	16	3	7	7	7	19	7	16	7	14	9	16	10	11	8	13	9	12	8	7	8	8	8	7	9	5	9	5	9	4	...	1	16	3	214	8.9	8
" 7,	...	1	...	1	14	2	9	6	9	6	6	7	5	6	6	11	7	12	8	13	7	15	8	16	10	18	9	19	10	20	9	13	12	11	8	3	5	3	5	3	...	1	6	4	...	0	...	1	192	8.0	8
" 8,	8	4	12	4	24	4	21	3	8	9	5	9	9	9	9	12	8	7	9	9	9	15	9	13	9	14	8	16	8	13	8	11	8	8	8	7	9	7	9	4	9	3	...	1	9	2	9	4	188	7.8	9
" 9,	9	5	9	2	...	0	...	1	...	0	...	0	...	0	7	2	8	2	11	4	11	5	10	3	9	4	1	3	15	3	25	6	17	6	17	3	...	1	...	1	...	0	...	0	3	2	...	1	54	2.2	11
" 10,	...	0	...	0	11	2	6	2	...	1	..	1	...	1	8	15	7	6	7	3	9	10	8	13	7	13	8	13	8	13	8	10	12	6	8	9	9	6	9	2	9	2	9	6	9	8	9	5	147	6.1	8
" 11,	9	11	9	11	7	10	6	7	7	9	7	13	8	14	9	16	7	16	6	11	7	13	7	17	8	17	10	19	9	15	10	19	9	18	9	17	8	18	8	18	8	16	7	16	9	12	10	11	344	14.3	8
" 12,	10	11	7	10	8	11	7	10	8	8	7	7	6	7	10	13	7	16	10	12	7	20	7	21	7	21	7	22	7	21	7	20	7	21	8	23	8	22	6	17	6	17	6	18	7	16	6	23	387	16.1	7
" 13,	6	27	7	26	7	27	7	27	10	24	7	19	8	22	7	19	6	25	6	24	7	24	5	24	5	26	6	27	6	30	6	31	6	32	11	33	7	34	7	35	7	37	8	43	8	39	10	42	697	29.0	7
" 14,	9	39	10	38	8	41	9	37	8	38	9	43	10	39	8	36	10	37	11	43	13	37	12	36	13	34	11	30	12	36	11	33	11	37	12	36	10	35	11	40	12	39	13	43	12	42	13	38	907	37.8	11
" 15,	14	35	14	34	13	29	13	27	15	26	13	20	16	28	17	23	9	9	13	27	15	24	14	23	14	18	21	16	14	28	14	25	14	26	15	30	14	27	14	26	14	26	15	24	15	22	14	20	593	24.7	14
" 16,	14	19	14	24	14	16	13	13	11	12	14	13	13	16	13	14	14	21	15	15	14	16	13	15	15	15	14	14	14	8	14	7	9	13	8	14	11	11	11	8	13	9	12	10	12	11	13	12	326	13.6	13
" 17,	13	9	12	8	12	9	11	10	12	9	13	6	12	10	13	9	13	6	8	9	10	11	8	13	8	11	8	9	8	10	12	10	16	9	15	8	15	9	15	8	15	6	12	4	...	1	...	1	195	8.1	12
" 18,	...	1	...	0	...	0	...	0	...	1	10	2	10	4	8	5	7	3	9	3	26	4	5	4	12	7	16	10	17	12	16	6	15	3	10	6	12	7	16	6	16	5	16	3	18	3	4	2	97	4.0	14
" 19,	...	0	...	1	...	0	...	0	...	0	...	0	...	0	...	1	24	4	24	3	25	7	24	8	24	9	24	9	24	9	23	10	23	6	18	8	17	3	19	4	19	5	19	4	19	4	...	1	96	4.0	22
" 20,	27	4	...	0	27	4	27	5	27	4	27	3	27	3	21	14	26	10	26	11	22	12	21	12	21	12	21	17	20	10	21	11	21	7	21	6	18	8	17	2	18	2	9	3	19	3	17	8	171	7.1	22
" 21,	18	6	19	4	22	10	21	11	21	12	22	6	27	6	24	8	27	7	21	9	23	12	25	9	26	8	25	6	27	4	23	2	15	6	15	7	15	5	15	7	14	4	14	2	14	2	...	1	154	6.4	21
" 22,	6	4	16	8	12	8	2	4	5	3	7	5	10	9	4	3	7	2	9	6	6	7	9	13	15	8	28	8	29	3	...	0	...	0	...	1	...	1	18	2	18	2	...	0	18	2	...	0	99	4.1	9
" 23,	...	1	...	1	18	3	...	1	18	2	...	1	21	2	22	2	26	5	23	5	24	8	23	10	23	6	14	6	20	5	16	10	16	7	16	4	14	3	14	2	18	2	18	2	18	2	...	0	90	3.8	20
" 24,	...	1	...	0	...	0	...	1	...	0	...	1	28	3	32	3	8	5	...	1	...	0	29	3	27	7	27	7	23	8	24	9	23	11	1	12	16	5	6	5	...	1	...	1	19	3	23	5	92	3.8	26
" 25,	24	4	27	5	27	3	...	1	22	3	27	3	1	3	1	13	2	12	32	13	32	9	32	3	2	3	9	7	14	5	24	4	23	4	...	1	21	2	17	2	26	4	...	1	...	1	...	1	107	4.5	31
" 26,	19	2	29	3	...	1	...	0	...	0	...	1	1	4	32	11	1	9	30	5	26	4	23	8	24	14	26	14	27	13	27	14	23	10	23	9	23	3	...	1	...	1	...	1	...	0	...	0	128	5.3	26
" 27,	14	3	14	3	14	2	14	3	14	3	...	1	...	0	14	2	14	3	14	4	11	8	9	13	9	15	8	14	8	15	8	15	8	14	10	12	10	7	7	4	...	1	7	2	...	0	...	1	145	6.0	10
" 28,	...	1	...	0	...	0	...	1	10	2	10	2	10	2	6	5	9	7	8	12	9	12	9	17	9	18	9	19	10	18	9	18	10	16	11	11	13	5	9	7	9	4	9	2	...	0	...	0	179	7.5	9
" 29,	...	1	...	1	...	0	...	1	...	0	...	0	...	1	9	3	8	8	7	11	8	15	8	15	8	17	8	18	8	15	10	16	9	14	10	11	12	8	12	10	12	10	11	9	11	7	13	3	194	8.1	9
" 30,	...	1	13	2	12	3	11	7	11	5	8	9	9	12	8	19	9	19	9	14	9	18	8	17	8	17	12	26	11	16	5	12	9	11	10	10	11	12	12	11	10	12	10	7	11	3	...	0	263	11.0	10
" 31,	...	1	5	4	9	3	10	2	9	2	5	3	...	1	4	3	6	9	7	8	9	10	8	11	8	10	8	11	6	9	7	8	8	3	13	3	16	5	16	2	10	6	...	1	...	1	12	2	118	4.9	8
Sums,	...	287	...	287	...	287	...	276	...	275	...	257	...	290	...	347	...	357	...	398	...	451	...	459	...	467	...	471	...	461	...	443	...	431	...	406	...	365	...	344	...	325	...	303	...	278	...	283	8548	355.9	...
Hourly Means,	...	9.3	...	9.3	...	9.3	...	8.9	...	8.9	...	8.3	...	9.4	...	11.2	...	11.5	...	12.8	...	14.5	...	14.8	...	15.1	...	15.2	...	14.9	...	14.3	...	13.9	...	13.1	...	11.8	...	11.1	...	10.5	...	9.8	...	9.0	...	9.1	275.7	11.5	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR AUGUST, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	0.77	6.61	3.26	0.61	−2.49	+6.00	E 23° S
2 „	0.97	6.55	3.65	0.42	2.68	6.13	E 24° S
3 „	0.71	6.97	2.42	0.87	1.71	6.10	E 16° S
4 „	1.19	6.87	2.26	0.68	1.07	6.19	E 10° S
5 „	0.71	6.61	2.55	0.87	1.84	5.74	E 18° S
6 „	1.26	6.74	1.55	0.42	0.29	6.32	E 3° S
7 „	1.61	6.81	2.45	0.52	0.84	6.29	E 8° S
8 „	1.90	7.97	2.29	1.00	−0.39	6.97	E 3° S
9 „	2.26	9.19	1.65	0.97	+0.61	8.22	E 4° N
10 „	1.90	9.48	2.84	1.45	−0.94	8.03	E 7° S
11 „	1.94	10.32	3.29	2.10	1.35	8.22	E 9° S
Noon.	1.45	11.42	2.74	1.90	1.29	9.52	E 8° S
1 p.	1.39	11.10	3.68	2.00	2.29	9.10	E 14° S
2 „	1.55	11.03	3.68	2.35	2.13	8.68	E 14° S
3 „	1.29	11.00	3.84	1.65	2.55	9.35	E 15° S
4 „	1.26	10.29	4.32	1.81	3.06	8.48	E 20° S
5 „	0.58	10.39	4.58	1.35	4.00	9.04	E 24° S
6 „	1.13	9.19	4.84	0.65	3.71	8.54	E 23° S
7 „	0.52	9.13	3.87	0.32	3.35	8.81	E 21° S
8 „	0.61	8.74	4.06	0.13	3.45	8.61	E 22° S
9 „	0.52	7.94	4.16	0.32	3.64	7.62	E 26° S
10 „	0.39	7.71	3.65	0.10	3.26	7.61	E 23° S
11 „	0.55	6.94	2.97	0.32	2.42	6.62	E 20° S
Midt.	0.52	6.84	3.71	0.29	−3.19	+6.55	E 26° S
Mean, ...	1.12	8.58	3.26	0.96	−2.14	+7.61	E 16° S

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
Aug. 1	27.88	27.81	27.83	76	77	76	78	75	W	3	SW	4	S	5
„ 2	.87	.81	.82	76	77	76	78	74	W	3	W	2	E	4
„ 3	.89	.84	.89	73	72	72	77	72	E	5	E	5	SE	5
„ 4	.96	.93	.97	72	73	72	73	72	E	5	ESE	5	ESE	5
„ 5	28.00	.98	.98	72	73	73	76	72	E	5	E	5	ESE	3
„ 6	.09	28.05	28.07	74	75	74	77	72	E	4	E	3	E	4
„ 7	.12	.08	.13	74	75	74	76	73	E	4	E	4	SE	4
„ 8	.13	.08	.08	74	76	74	77	73	E	4	E	3	ESE	2
„ 9	.07	.00	.02	75	77	75	77	73	SE	2	SE	3	SE	3
„ 10	.06	27.99	.01	75	77	75	78	73	SE	2	SSE	3	SE	2
„ 11	.05	28.00	.04	76	78	76	78	75	ESE	4	E	4	E	4
„ 12	.04	.01	27.95	76	77	75	78	74	E	4	ESE	4	E	5
„ 13	27.90	27.80	.71	74	74	73	76	73	E	5	E	5	E	6
„ 14	.75	.72	.73	72	71	70	75	70	E	6	SE	4	S	6
„ 15	.82	.81	.86	73	75	74	76	70	S	6	S	6	S	5
„ 16	.95	.91	.94	75	75	74	76	73	SE	4	S	4	S	4
„ 17	.98	.95	.97	76	76	76	79	74	SSE	3	S	3	S	3
„ 18	.99	.95	.98	77	76	75	79	74	S	3	S	4	S	4
„ 19	.99	.91	.95	75	78	76	79	74	S	2	SW	3	SW	4
„ 20	.94	.84	.83	76	79	76	79	74	WSW	3	SW	4	SW	4
„ 21	.86	.80	.84	77	79	76	80	75	WSW	1	WSW	2	S	3
„ 22	.84	.81	.82	77	76	75	79	74	SW	2	S	2	S	3
„ 23	.87	.85	.89	78	77	76	79	75	SW	3	S	4	S	4
„ 24	.96	.93	.90	76	77	75	78	74	SE	2	SE	2	NW	4
„ 25	.99	.96	.92	76	76	74	78	74	NE	4	E	3	NE	4
„ 26	.97	.91	.94	76	78	75	79	74	ENE	3	NNW	3	NW	3
„ 27	.96	.92	.96	77	78	74	79	73	NW	1	ENE	2	NE	2
„ 28	28.01	.99	28.01	77	77	73	78	73	ESE	3	ESE	3	SE	3
„ 29	.05	28.00	.03	77	78	75	79	73	SE	2	SE	3	SE	4
„ 30	.07	.05	.09	76	74	74	78	73	E	4	SE	5	SE	4
„ 31	.10	.06	.08	75	77	75	78	73	SSE	3	SSE	3	S	3
Mean,	27.973	27.927	27.943	75.3	76.1	74.5	77.6	73.3	E 27° S	3.4	E 47° S	3.5	E 53° S	3.8

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
Aug. 1, ...	0	...	...	0	...	...	1	c-str. / cum.	WSW	2	c-str. / cum.	W
„ 2, ...	1	cum.	...	2	cum.	SW	10	nim.	WSW	9	c-str. / c-cum. / cum-str.	W
„ 3, ...	10	cum-nim.	...	10	cum-nim.	...	9	nim.	E	9	c-cum. / cum.	ESE / ENE
„ 4, ...	10	nim.	E	10	nim.	E	8	c-str. / c-cum. / cum.	E	10	nim.	E
„ 5, ...	10	nim.	E	10	nim.	E	10	cum-nim.	E	10	cum-nim.	E
„ 6, ...	10	nim.	E	10	nim.	E	10	cum.	ESE	8	c-cum. / cum.	ESE / E
„ 7, ...	10	cum-nim.	...	10	cum-nim.	...	10	cum.	E	9	c-str. / cum.	E
„ 8, ...	10	nim.	SE	10	nim.	...	10	cum-str. / nim.	ESE	7	sm-cum. / cum.	W / E
„ 9, ...	7	c-str. / cum.	S	6	cum.	S	7	c-str. / cum.	W / S	8	c-str. / cum.	SSE
„ 10, ...	2	sm-cum.	...	7	cum.	...	8	sm-cum. / cum-str.	SSW / ESE	7	c-str. / c-cum. / cum.	.. / SSW / SE
„ 11, ...	9	cum.	E	8	cum-nim.	E	3	c-str. / cum.	ENE / E	9	c-str. / cum-nim.	E
„ 12, ...	10	cum.	E	7	cum.	E	9	nim.	E	5	c-cum. / cum.	E / E
„ 13, ...	10	nim.	E	10	nim.	E	10	nim.	E	10	sm-cum. / nim.	ESE / E
„ 14, ...	9	c-cum. / cum.	SE	10	c-cum. / nim.	E	10	nim.	E	10	nim.	SE
„ 15, ...	19	nim.	S	10	nim.	S	10	nim.	...	10	nim.	S
„ 16, ...	10	nim.	S	10	cum.	S	10	sm-cum. / cum.	S / S	10	cum.	S
„ 17, ...	6	cum.	S	9	cum.	S	7	cum.	SSE	4	c-str. / cum.	E / S
„ 18, ...	3	c-str. / cum.	SSW	2	c-str.	...	4	c-str.	ENE	2	c-str. / cum.	SE
„ 19, ...	10	cum.	...	10	cum.	...	9	sm-cum. / cum.	N / S	8	c-str. / sm-cum. / cum.	.. / NNW / S
„ 20, ...	2	cum.	...	2	cum.	...	6	sm-cum. / cum.	WNW	1	c-cum. / cum.	NNW / WNW
„ 21, ...	10	nim.	...	10	nim.	...	7	c-cum. / cum.	SW / W	4	c-cum. / sm-cum. / cum.	W / ENE / W
„ 22, ...	5	str-cum.	...	10	nim.	...	9	c-str. / sm-cum. / cum.	.. / NNE / NNE	7	c-cum. / cum.	S / SSE
„ 23, ...	0	...	...	0	...	...	7	c-str.	E	7	c-str. / cum.	E / ..
„ 24, ...	5	str-cum.	...	8	str-cum.	...	10	str-cum.	NE	10	str-cum.	E
„ 25, ...	8	nim.	...	10	cum-nim.	...	2	sm-cum. / cum.	E / NNE	10	sm-cum. / cum.	E / NNE
„ 26, ...	1	sm-cum.	...	0	...	...	5	c-str. / cum.	ENE / ..	3	c-cum.	ENE
„ 27, ...	0	...	...	1	cum.	...	0	...	...	1	sm-cum. / cum.	...
„ 28, ...	0	...	...	0	...	...	1	cum.	ESE	1	c-cum. / cum.	E / SE
„ 29, ...	0	...	...	0	...	...	1	c-cum. / cum.	...	1	cum.	SE
„ 30, ...	0	...	...	0	...	...	1	c-str. / cum.	ESE	4	cum.	ESE
„ 31, ...	1	cum.	...	2	cum.	...	3	cum.	...	8	sm-cum. / cum.	E / S
Mean, ...	5.8	...	...	6.3	...	...	6.7	...	...	6.6	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
Aug. 1,...	5	c-str. / cum.	W	3	c-str. / cum.	W	1	c-str. / cum.	W	7	c-str.	...	2.4
„ 2,...	9	cum-str.	...	10	cum-str.	SW	10	nim.	...	10	cum-nim.	...	7.6
„ 3,...	10	c-str. / cum.	ENE	10	nim.	E	10	cum-nim.	E	10	nim.	...	9.7
„ 4,...	10	nim.	E	9	c-cum. / cum.	E / E	10	cum-nim.	E	10	nim.	...	9.6
„ 5,...	10	cum-nim.	E	10	nim.	ESE	10	nim.	ESE	10	nim.	...	10.0
„ 6,...	9	c-cum. / cum.	E	9	nim.	E	10	c-str. / c-cum. / cum.	ESE / E	9	c-str. / cum-nim.	E	9.4
„ 7,...	10	c-str. / cum.	E	9	c-str. / cum.	ESE	9	c-str. / c-cum.	...	10	c-str. / cum.	ESE	9.6
„ 8,...	5	c-str. / c-cum. / cum.	W / W / E	8	c-str. / cum-str.	W / ..	7	c-str. / cum.	W / S	9	c-str.	...	8.3
„ 9,...	8	c-str. / cum.	S	7	c-cum. / cum-str.	NE / ..	5	c-str. / sm-cum.	W / S	7	sm-cum. / cum.	S / S-E	6.9
„ 10,...	6	c-cum. / cum.	WNW / SSE	2	c-cum. / cum.	NW / SE	2	c-str.	...	9	c-str.	WNW	5.4
„ 11,...	7	c-str. / cum.	E	2	cum.	E	2	cum.	ESE	9	cum-nim.	ESE	6.1
„ 12,...	2	c-cum. / cum.	E / E	4	c-cum. / cum.	E / E	4	c-str. / cum.	E	5	c-str. / cum.	E	5.7
„ 13,...	10	sm-cum. / cum.	ESE / E	8	cum.	ENE	9	c-str. / cum-nim.	E	10	cum-nim.	E	9.6
„ 14,...	10	nim.	SSE	10	cum-nim.	SSE	10	cum-nim.	SE	10	nim.	...	9.9
„ 15,...	9	sm-cum. / cum.	S	9	cum.	S	10	cum-nim.	S	10	nim.	S	9.8
„ 16,...	10	cum.	S	10	cum.	S	7	cum.	S	4	cum.	...	8.9
„ 17,...	3	c-str. / cum.	E / S	7	c-str. / cum.	E / SSW	9	c-str. / cum.	ENE / ..	1	c-str.	...	5.7
„ 18,...	6	c-str. / c-cum. / cum.	NE / N / S	9	c-str. / cum-str.	...	9	c-str. / cum-str.	...	1	c-str.	...	4.5
„ 19,...	9	sm-cum. / cum.	NNW / S	2	c-str. / sm-cum / cum.	W	9	sm-cum. / cum-str.	...	1	c-str.	...	7.3
„ 20,...	1	cum.	WNW	1	c-str. / cum.	...	1	c-str. / cum.	...	1	cum.	...	1.9
„ 21,...	8	sm-cum. / cum.	ENE / W	8	sm-cum. / cum.	E	8	c-str. / c-cum. / cum.	SSE / E	0	...	...	6.9
„ 22,...	10	nim.	SSE	7	c-cum. / cum.	S / SSE	1	c-str.	...	1	c-str.	...	6.2
„ 23,...	7	c-str. / cum.	E / E	9	c-str. / cum.	S	9	c-str. / cum.	S	9	c-str. / cum.	...	6.0
„ 24,...	10	sm-cum. / str-cum.	E / ..	9	sm-cum. / cum-str.	ENE / NNE	10	nim.	NNE	10	cum-nim.	...	9.0
„ 25,...	10	sm-cum. / cum.	E / NNE	8	sm-cum. / cum.	E / NNE	7	c-str. / sm-cum / cum.	...	0	...	...	6.9
„ 26,...	3	c-str. / c-cum.	ENE	2	c-cum.	ENE	3	c-str.	...	1	c-str.	...	2.3
„ 27,...	1	cum.	E	0	...	...	0	...	...	1	cum.	...	0.5
„ 28,...	1	cum.	SE	1	cum.	SE	0	...	...	0	...	...	0.5
„ 29,...	1	cum.	SE	0	...	...	0	...	...	0	...	...	0.4
„ 30,...	4	cum.	ESE	9	sm-cum. / cum.	ESE	7	cum.	ESE	1	cum.	...	3.2
„ 31,...	8	sm-cum. / cum.	S	8	sm-cum. / cum.	E / S	9	sm-cum. / cum.	SW	0	...	...	4.9
Mean,...	6.8	...	...	6.5	...	...	6.4	...	...	5.4	...	...	6.3

HONGKONG OBSERVATORY.

Weather Report for September, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 8th, 14th, 16th, 21st and 24th.

Solar corona: on the 7th and 25th.

Lunar halo: on the 7th, 8th, 13th, 15th, 16th and 30th.

Lunar corona: on the 1st, 2nd, 3rd, 4th, 7th, 9th, 10th and 29th.

Haze: on the 6th, 7th and 8th.

Unusual Visibility: on the 5th.

Dew: on the 29th.

Rainbow: on the 9th 7 a., the 25th 7 a. and the 27th 3 p.

Lightning without thunder: on the 6th, 7th, 8th, 21st, 22nd, 23rd, 25th, 26th, 29th and 30th.

Thunderstorm: on the 9th 5 a.—12.30 p. nearest at 6.0 a. (2s. NE) and at 8.50 a. (6s. SSW).

The Total Distance traversed by, as well as the duration and average velocity of the wind from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	359	34	10.6
NE	1436	91	15.8
E	5769	321	18.0
SE	1023	75	13.6
S	301	42	7.2
SW	486	60	8.1
W	379	50	7.6
NW	78	17	4.6
Calm	23	30	0.8

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF SEPTEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
Sept. 1,...	29.759	29.749	29.739	29.737	29.739	29.752	29.767	29.780	29.785	29.785	29.783	29.766	29.739	29.731	29.711	29.712	29.708	29.707	29.729	29.745	29.768	29.773	29.768	29.744	29.749
„ 2,...	.732	.708	.716	.720	.730	.737	.760	.789	.789	.788	.782	.763	.747	.738	.727	.726	.727	.730	.735	.746	.773	.780	.778	.769	.750
„ 3,...	.757	.742	.737	.739	.748	.777	.786	.804	.819	.821	.804	.780	.765	.748	.732	.731	.729	.733	.736	.760	.769	.772	.778	.774	.764
„ 4,...	.763	.752	.741	.746	.763	.771	.774	.797	.811	.807	.801	.783	.770	.742	.729	.721	.715	.724	.723	.731	.741	.738	.738	.732	.755
„ 5,...	.711	.702	.686	.693	.716	.728	.749	.760	.774	.775	.762	.734	.720	.694	.677	.667	.660	.664	.674	.680	.693	.719	.716	.702	.711
„ 6,...	.683	.677	.662	.662	.672	.683	.703	.727	.731	.729	.724	.702	.681	.654	.632	.628	.649	.670	.685	.724	.729	.717	.726	.734	.691
„ 7,...	.729	.718	.704	.689	.704	.703	.726	.734	.747	.750	.738	.726	.692	.677	.648	.633	.649	.671	.677	.706	.743	.752	.722	.702	.706
„ 8,...	.678	.682	.681	.683	.687	.704	.720	.732	.751	.760	.762	.729	.705	.677	.671	.657	.647	.644	.672	.681	.699	.715	.715	.713	.699
„ 9,...	.701	.683	.669	.647	.673	.694	.707	.732	.750	.747	.758	.741	.689	.673	.646	.646	.653	.667	.683	.701	.732	.736	.742	.737	.700
„ 10,...	.732	.722	.704	.691	.698	.722	.733	.757	.765	.763	.753	.738	.725	.717	.695	.693	.697	.710	.731	.741	.746	.762	.765	.767	.730
„ 11,...	.759	.747	.737	.734	.737	.753	.775	.782	.783	.786	.784	.782	.758	.735	.725	.721	.720	.725	.736	.768	.783	.785	.785	.785	.758
„ 12,...	.784	.782	.782	.783	.800	.812	.826	.835	.857	.874	.871	.858	.835	.824	.817	.801	.802	.804	.829	.846	.868	.877	.872	.864	.829
„ 13,...	.853	.841	.842	.841	.854	.875	.877	.883	.888	.887	.883	.868	.847	.833	.827	.825	.827	.829	.837	.855	.877	.880	.874	.851	.856
„ 14,...	.844	.830	.826	.830	.839	.843	.858	.872	.876	.879	.866	.838	.829	.803	.793	.789	.802	.818	.833	.842	.853	.848	.839	.834	.837
„ 15,...	.810	.804	.789	.788	.801	.828	.838	.853	.863	.862	.851	.842	.830	.819	.796	.795	.796	.813	.824	.840	.841	.841	.836	.831	.825
„ 16, .	.811	.801	.797	.804	.825	.832	.837	.846	.849	.846	.838	.828	.808	.780	.773	.766	.776	.784	.810	.825	.840	.836	.833	.824	.815
„ 17,...	.818	.784	.783	.780	.790	.796	.811	.830	.839	.842	.842	.832	.822	.802	.793	.787	.788	.796	.812	.825	.840	.842	.840	.835	.814
„ 18,...	.832	.824	.797	.794	.798	.818	.837	.850	.863	.875	.854	.840	.823	.804	.785	.790	.793	.796	.818	.834	.856	.872	.850	.842	.827
„ 19,...	.829	.796	.791	.781	.776	.782	.791	.811	.830	.832	.837	.823	.808	.792	.782	.774	.776	.778	.786	.816	.424	.827	.823	.805	.803
„ 20,...	.794	.784	.779	.780	.783	.796	.820	.832	.838	.835	.837	.839	.830	.816	.793	.802	.801	.816	.832	.848	.880	.878	.880	.866	.823
„ 21,...	.837	.834	.831	.835	.837	.849	.874	.883	.881	.884	.875	.870	.839	.831	.817	.811	.810	.823	.833	.869	.882	.892	.887	.879	.853
„ 22,...	.865	.835	.821	.803	.815	.825	.831	.858	.856	.877	.861	.858	.834	.811	.784	.769	.779	.792	.787	.822	.829	.828	.826	.806	.824
„ 23,...	.778	.770	.739	.733	.740	.753	.766	.774	.769	.752	.742	.717	.693	.655	.648	.641	.652	.652	.678	.692	.696	.713	.695	.689	.714
„ 24,...	.678	.674	.662	.649	.650	.661	.681	.693	.690	.687	.688	.683	.645	.640	.639	.637	.631	.642	.684	.698	.709	.725	.722	.712	.674
„ 25,...	.691	.669	.646	.660	.681	.692	.727	.738	.745	.743	.733	.706	.681	.661	.641	.639	.650	.661	.682	.698	.727	.727	.724	.719	.693
„ 26,...	.704	.686	.680	.680	.685	.687	.697	.715	.724	.731	.728	.716	.693	.687	.684	.689	.694	.700	.731	.751	.778	.782	.780	.779	.716
„ 27,...	.768	.762	.755	.748	.748	.779	.789	.806	.821	.827	.818	.802	.784	.779	.752	.755	.762	.758	.773	.779	.787	.788	.786	.785	.780
„ 28,...	.778	.767	.768	.772	.777	.786	.800	.817	.835	.840	.831	.798	.778	.742	.730	.727	.733	.735	.743	.771	.783	.789	.789	.789	.778
„ 29,...	.787	.773	.756	.759	.773	.784	.789	.807	.815	.829	.823	.793	.781	.769	.754	.761	.754	.766	.784	.813	.826	.847	.852	.848	.793
„ 30,...	.839	.834	.831	.833	.840	.861	.881	.885	.908	.913	.907	.887	.875	.855	.852	.835	.848	.867	.885	.918	.931	.943	.951	.940	.880
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	29.770	29.758	29.748	29.746	29.756	29.769	29.784	29.799	29.808	29.811	29.805	29.788	29.768	29.750	29.735	29.731	29.734	29.742	29.758	29.778	29.793	29.799	29.796	29.789	29.772

TABLE II.

TEMPERATURE FOR THE MONTH OF SEPTEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
Sept. 1,.....	79.7	77.3	77.5	79.0	79.3	80.3	81.8	81.9	82.3	83.9	86.1	86.2	84.3	82.6	82.8	83.8	81.2	81.4	80.9	80.8	80.6	80.6	80.7	80.1	81.5	88.0	76.8
„ 2,.....	79.8	79.9	80.0	78.2	78.0	77.8	78.7	77.3	78.3	80.5	82.4	85.2	84.8	82.7	85.3	84.6	84.4	82.4	81.8	81.9	81.8	81.9	81.4	81.3	81.3	87.0	76.7
„ 3,.....	81.1	81.3	81.5	81.4	80.8	80.8	81.9	83.1	84.0	85.6	86.0	86.6	87.2	88.0	87.2	85.8	85.5	83.1	82.3	82.1	82.2	82.3	81.7	81.8	83.5	88.9	80.6
„ 4,.....	81.5	82.1	81.5	81.7	81.3	81.1	82.7	84.0	85.4	86.8	86.3	87.6	88.4	88.6	87.6	87.0	86.2	83.6	82.7	82.1	81.9	81.9	81.3	81.0	83.9	89.9	80.8
„ 5,.....	80.7	80.5	80.1	79.8	79.6	79.0	81.7	83.3	83.5	84.3	86.0	86.9	87.6	88.5	88.2	88.2	86.5	83.8	82.8	82.1	80.8	81.3	80.9	80.7	83.2	89.5	79.0
„ 6,.....	80.5	79.9	79.7	79.8	79.5	79.6	81.5	83.0	84.5	85.2	86.9	88.6	90.8	90.4	88.6	86.9	85.5	83.5	82.8	82.5	82.0	81.9	81.3	80.8	83.6	91.2	79.4
„ 7,.....	81.1	80.5	80.0	80.3	79.2	79.3	81.9	84.1	86.0	86.1	86.6	87.6	87.0	86.3	87.0	87.0	85.8	83.1	83.0	82.3	82.2	81.8	79.9	79.7	83.2	89.9	79.0
„ 8,.....	79.3	78.7	78.5	78.8	79.2	79.0	79.3	80.4	82.5	83.7	85.1	87.9	87.5	86.4	86.4	86.2	84.4	83.0	82.7	81.3	80.9	81.8	81.2	80.5	82.3	89.1	78.0
„ 9,.....	80.3	79.1	80.4	80.5	79.6	76.3	76.7	78.7	77.2	76.3	74.9	73.4	75.7	81.5	82.3	80.1	80.0	79.2	79.3	78.6	78.4	78.3	76.6	76.4	78.3	84.4	73.0
„ 10,.....	77.0	76.2	74.7	75.5	75.6	75.8	76.1	80.0	80.5	80.9	83.4	85.0	84.4	86.2	84.8	85.8	82.8	78.7	79.8	79.0	77.1	76.8	76.2	75.5	79.5	87.5	74.3
„ 11,.....	75.2	75.1	74.3	73.7	74.3	74.3	75.6	76.8	77.8	80.5	82.8	85.5	83.9	82.5	84.0	84.4	83.9	80.5	79.8	79.1	79.5	78.7	77.5	77.4	79.0	88.4	73.5
„ 12,.....	77.4	75.2	75.8	75.8	74.5	74.3	77.0	78.3	79.2	80.6	80.4	81.0	81.4	81.2	80.8	80.2	79.7	78.8	77.9	78.2	77.8	78.8	78.6	78.8	78.4	82.2	74.0
„ 13,.....	78.5	77.8	76.7	76.2	75.7	75.1	76.7	78.5	80.6	79.8	80.7	81.6	81.1	80.7	80.6	80.4	79.8	79.0	78.8	78.9	78.9	78.9	78.9	78.4	78.8	82.4	74.9
„ 14,.....	77.7	77.1	76.7	76.0	75.9	75.8	76.8	78.6	79.3	79.9	80.2	79.7	79.0	79.4	79.1	79.2	78.6	78.1	78.3	78.6	78.5	78.5	78.4	78.0	78.2	81.4	75.8
„ 15,.....	78.2	77.7	76.8	76.0	75.8	75.8	76.7	77.8	79.0	80.0	80.5	80.5	80.8	80.9	80.6	80.1	79.5	78.7	78.3	78.6	78.6	78.8	78.8	78.5	78.6	81.2	75.8
„ 16,.....	78.4	78.2	77.3	77.0	76.9	76.8	77.8	77.8	78.8	79.8	81.5	81.0	81.4	81.8	82.2	80.9	80.1	80.0	79.9	79.9	80.1	80.0	79.9	79.6	79.5	83.3	76.7
„ 17,.....	79.6	78.8	78.7	77.1	77.4	77.8	77.8	77.3	77.8	75.9	76.0	77.8	77.4	77.2	76.7	75.7	76.8	76.8	76.5	77.1	76.1	77.8	77.5	77.6	77.3	80.5	75.7
„ 18,.....	78.0	77.9	77.8	77.5	77.2	74.6	75.1	75.1	76.1	76.7	77.1	78.1	78.0	78.8	79.1	79.4	79.1	79.0	78.9	79.0	79.2	79.3	79.3	79.0	77.9	79.8	73.5
„ 19,.....	79.2	78.8	79.1	79.2	79.3	79.3	78.9	77.4	79.5	79.8	79.5	81.0	80.2	80.2	81.0	81.4	80.1	79.1	78.9	78.9	78.5	77.9	77.7	77.7	79.3	82.1	77.3
„ 20,.....	77.9	77.9	77.8	78.0	78.1	78.5	78.9	81.0	81.0	82.2	83.1	84.8	84.7	84.0	80.9	80.8	80.9	80.4	80.1	80.0	79.8	79.8	79.7	79.6	80.4	85.5	77.7
„ 21,.....	79.3	79.2	79.1	79.1	79.0	78.8	80.8	80.4	81.1	82.6	82.5	82.9	85.2	85.1	85.5	84.1	82.8	81.4	80.7	79.9	79.3	79.0	78.5	78.1	81.0	85.8	77.8
„ 22,.....	78.1	78.0	78.5	78.2	78.5	78.6	80.5	81.6	82.3	82.5	83.1	82.8	81.7	82.2	82.7	81.9	81.0	80.6	79.9	79.6	79.7	79.8	79.6	79.7	80.5	84.0	77.6
„ 23,.....	79.7	79.1	78.4	78.2	78.1	78.4	78.7	79.8	82.7	84.1	85.2	83.6	82.9	83.2	83.2	82.0	81.6	80.8	80.6	80.8	80.9	81.3	82.0	81.5	81.1	87.0	78.0
„ 24,.....	80.5	79.8	79.9	79.9	79.7	79.7	79.9	80.2	81.3	82.9	82.5	82.4	83.5	81.8	79.9	80.6	79.9	81.0	81.1	81.4	81.4	81.3	81.1	80.6	80.9	84.3	79.5
„ 25,.....	80.2	80.0	79.2	79.5	79.5	80.1	80.7	80.9	82.5	83.1	84.0	82.9	84.4	84.5	83.1	82.2	81.8	81.2	81.4	81.2	80.7	79.7	79.0	78.9	81.3	85.8	78.4
„ 26,.....	79.2	78.3	79.1	79.2	79.0	79.0	79.9	78.9	79.9	79.3	79.1	79.0	81.0	79.3	78.3	81.6	79.8	80.3	80.1	79.9	78.3	79.2	78.6	78.5	79.4	81.9	77.7
„ 27,.....	78.8	78.7	79.1	79.0	78.6	78.1	79.6	81.2	82.6	82.8	84.3	83.5	82.8	81.4	80.8	82.9	82.1	80.7	80.0	80.3	80.4	80.8	80.7	80.5	80.8	86.1	77.9
„ 28,.....	80.5	80.1	78.4	79.2	79.4	79.7	80.0	80.9	82.4	82.7	85.2	84.7	83.6	83.8	83.1	82.6	81.8	80.6	80.0	79.9	79.8	79.4	79.2	79.3	81.1	86.5	77.8
„ 29,.....	79.1	78.1	79.1	79.1	79.2	79.6	79.6	82.9	81.1	78.0	78.2	80.0	78.8	81.2	81.4	82.3	81.6	80.8	80.5	80.0	80.1	80.6	80.6	80.7	80.1	84.2	77.4
„ 30,.....	80.4	80.7	80.5	80.5	80.4	80.8	81.5	82.4	81.3	83.9	82.2	79.8	82.6	84.1	84.1	82.7	81.8	81.0	80.8	80.9	80.9	79.8	77.8	79.5	81.3	85.1	77.8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means,.....	79.2	78.7	78.5	78.4	78.3	78.1	79.2	80.1	81.0	81.7	82.4	82.9	83.1	83.1	82.9	82.7	81.8	80.7	80.4	80.2	79.9	79.9	79.5	79.3	80.5	85.4	77.1

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF SEPTEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
Sept. 1,...	76.7	75.6	75.4	76.0	76.9	76.8	78.2	78.8	77.7	77.6	79.6	77.5	77.8	76.7	77.6	76.8	76.8	76.8	76.5	76.9	76.8	76.8	76.9	77.2	77.1	144.4
„ 2,...	77.2	77.5	78.0	76.1	76.6	76.3	76.5	74.6	76.4	77.7	76.8	79.6	78.9	78.9	80.1	78.8	78.0	77.9	78.5	78.0	77.9	77.9	77.8	77.5	77.6	147.5
„ 3,...	77.1	77.2	77.5	77.2	77.3	77.4	78.0	78.7	79.4	79.6	79.5	78.7	79.2	78.2	78.9	79.3	79.5	78.7	78.7	78.7	78.6	78.7	78.2	78.1	78.4	146.5
„ 4,...	78.1	78.3	77.9	78.2	78.5	78.3	79.7	80.4	79.6	80.6	81.1	80.6	79.6	80.6	79.6	79.0	80.0	78.3	78.7	78.3	78.3	78.1	77.9	78.1	79.1	149.3
„ 5,...	77.8	77.7	77.7	77.4	77.8	77.5	77.9	78.9	78.2	78.1	79.1	79.7	79.9	78.9	79.6	80.3	80.4	78.6	77.9	78.3	78.0	78.4	78.3	77.7	78.5	142.3
„ 6,...	78.1	78.0	77.9	77.9	77.8	77.8	78.7	79.2	79.9	79.8	79.6	80.5	82.2	81.2	79.9	80.7	79.7	79.3	78.7	78.8	78.9	78.0	77.9	77.9	79.1	144.6
„ 7,...	78.5	78.1	77.8	77.9	77.8	78.0	79.6	80.1	79.3	79.9	79.6	80.5	80.3	79.9	79.2	80.1	79.0	78.8	78.6	78.6	78.7	75.9	76.1	76.5	78.7	147.4
„ 8,...	76.0	76.3	76.1	76.0	76.0	74.8	74.8	75.9	77.0	78.0	78.7	80.0	79.6	78.8	78.7	78.8	77.9	77.0	76.9	77.5	78.1	77.3	77.6	77.8	77.3	148.7
„ 9,...	77.1	76.9	77.3	77.3	76.5	75.1	75.5	77.5	74.6	74.9	74.0	72.2	73.8	76.0	77.2	76.0	76.8	76.3	75.3	74.8	74.6	74.9	73.4	73.8	75.5	143.6
„ 10,...	73.9	74.5	72.5	72.3	71.8	69.5	71.1	71.7	72.8	72.4	73.0	74.9	74.3	75.2	75.3	75.1	75.2	75.0	72.9	71.3	70.0	69.8	69.1	69.0	72.6	143.7
„ 11,...	68.9	68.4	68.2	68.4	68.0	66.8	67.3	68.3	68.2	70.8	72.6	75.1	72.7	71.7	73.0	73.4	73.1	71.5	70.6	72.2	70.5	70.8	70.8	71.8	70.5	156.2
„ 12,...	73.3	72.7	68.5	65.7	65.5	64.4	64.7	66.5	67.3	68.9	69.2	69.9	70.3	69.8	70.1	71.0	70.8	70.1	70.6	70.8	71.6	71.3	71.5	71.7	69.4	138.1
„ 13,...	71.0	71.3	70.4	69.9	69.5	69.3	68.5	68.9	69.6	67.9	69.6	69.6	69.6	69.1	69.8	69.3	69.8	69.7	69.8	69.7	70.4	70.9	71.1	71.2	69.8	138.1
„ 14,...	71.5	71.6	70.5	70.2	70.1	69.8	68.6	67.5	67.5	67.8	65.8	68.4	69.6	70.7	69.3	70.2	70.7	71.1	70.9	71.2	70.9	71.8	70.9	71.4	69.9	142.3
„ 15,...	71.4	72.9	72.2	71.5	70.9	70.8	70.1	70.2	70.3	70.5	70.8	70.8	70.9	72.0	71.2	70.9	70.9	71.0	72.1	73.0	73.9	73.9	74.4	73.7	71.7	137.3
„ 16,...	74.0	73.5	72.8	72.5	72.4	71.8	71.7	71.2	71.4	72.1	72.8	73.0	73.1	72.4	72.9	73.2	74.2	74.8	74.8	74.8	74.5	75.1	75.0	74.8	73.3	139.1
„ 17,...	75.0	74.6	74.1	74.3	75.0	74.8	74.1	73.8	74.6	73.7	73.5	73.2	72.9	73.4	72.2	72.9	73.1	73.2	73.8	75.8	74.8	74.8	75.3	75.2	74.1	114.0
„ 18,...	74.8	74.9	74.8	74.6	74.8	73.8	73.8	73.7	74.8	74.8	74.9	74.8	75.0	74.9	75.6	75.1	75.8	75.6	75.7	75.9	76.0	75.9	75.6	75.8	75.1	120.1
„ 19,...	75.6	75.4	75.3	75.6	75.6	75.8	75.5	75.9	76.8	76.8	77.0	76.8	76.8	76.3	77.0	77.4	76.2	76.1	75.8	75.2	75.8	75.9	75.8	75.8	76.1	131.9
„ 20,...	75.7	75.0	75.4	75.3	75.8	75.8	75.8	76.1	77.0	77.6	77.2	77.9	77.8	77.9	77.2	76.2	76.3	76.8	76.9	76.5	77.3	77.5	77.8	77.8	76.7	146.3
„ 21,...	77.0	76.5	76.9	76.5	76.0	75.9	76.9	76.4	76.3	76.7	76.8	77.4	78.4	78.1	78.2	77.1	76.6	76.3	76.9	76.1	76.0	76.0	75.8	75.5	76.7	143.1
„ 22,...	75.9	75.8	75.0	75.0	74.8	74.7	74.9	75.8	75.2	76.1	77.4	77.9	77.4	77.3	77.3	77.2	76.7	76.6	76.5	76.0	75.9	75.7	75.5	76.2	76.1	149.3
„ 23,...	76.2	75.9	75.9	75.5	75.7	75.8	75.8	75.8	76.8	76.9	77.2	77.8	77.6	77.7	78.2	77.4	76.3	76.2	76.6	76.4	76.1	75.4	74.8	74.3	76.3	146.4
„ 24,...	74.9	75.5	74.7	74.1	74.4	74.5	74.3	75.1	75.4	75.5	75.6	75.2	76.5	77.6	76.6	76.8	76.4	76.0	75.9	76.8	76.9	77.3	76.6	77.1	75.8	139.1
„ 25,...	76.8	76.2	76.5	76.0	76.0	76.1	76.6	77.1	78.0	77.7	78.2	77.1	77.8	77.3	77.3	77.6	77.2	76.4	76.9	76.9	77.0	76.8	77.0	77.4	77.0	153.8
„ 26,...	77.0	76.6	76.6	76.9	76.9	76.8	77.0	77.5	77.3	77.8	77.2	78.2	78.2	77.1	76.0	77.8	76.6	77.1	76.4	77.0	76.3	76.1	76.0	75.9	76.9	143.3
„ 27,...	75.8	75.8	75.9	75.6	76.2	75.8	76.4	78.0	78.4	77.8	78.8	77.8	78.8	77.7	78.4	77.2	76.9	77.3	77.0	76.9	76.8	77.6	77.7	77.6	77.2	149.4
„ 28,...	77.4	77.0	75.8	76.8	76.5	76.6	76.6	77.3	78.3	78.4	78.6	79.0	78.7	78.9	77.3	77.1	77.6	77.1	77.0	77.0	76.6	76.8	77.2	77.3	77.4	149.8
„ 29,...	76.7	76.3	76.6	76.5	76.4	76.6	77.3	79.1	77.2	77.5	77.8	78.4	77.8	78.8	78.2	78.3	78.2	78.0	78.3	78.0	78.1	78.8	78.6	78.3	77.7	136.1
„ 30,...	78.1	78.5	78.3	78.5	78.3	78.5	79.6	78.7	78.2	79.0	78.4	76.9	78.7	77.7	79.4	79.2	78.5	78.1	77.6	78.0	78.1	76.0	76.3	77.7	78.2	144.1
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Mean ...	75.6	75.5	75.1	74.9	74.9	74.5	74.9	75.3	75.5	75.8	76.0	76.3	76.5	76.4	76.4	76.3	76.2	75.9	75.8	75.8	75.8	75.7	75.6	75.7	75.7	142.5

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF SEPTEMBER, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	84	0.841	Sep. 1,.....	81	0.872
2 „	85	.843	„ 2,.....	84	.898
3 „	84	.828	„ 3,.....	79	.904
4 „	84	.821	„ 4,.....	80	.931
5 „	84	.823	„ 5,.....	80	.913
6 „	84	.809	„ 6,.....	81	.935
7 „	81	.811	„ 7,.....	81	.922
8 „	79	.815	„ 8,.....	79	.871
9 „	77	.812	„ 9,.....	87	.846
10 „	75	.816	„ 10,.....	70	.710
11 „	73	.814	„ 11,.....	63	.634
Noon.	73	.821	„ 12,.....	61	.599
1 p	73	.827	„ 13,.....	61	.609
2 „	72	.822	„ 14,.....	64	.620
3 „	73	.825	„ 15,.....	70	.686
4 „	73	.823	„ 16,.....	73	.738
5 „	77	.832	„ 17,.....	85	.801
6 „	79	.833	„ 18,.....	87	.835
7 „	80	.833	„ 19,.....	86	.859
8 „	80	.836	„ 20,.....	84	.870
9 „	82	.840	„ 21,.....	82	.862
10 „	81	.836	„ 22,.....	80	.842
11 „	83	.837	„ 23,.....	79	.843
Midt.	84	.844	„ 24,.....	78	.824
			„ 25,.....	82	.871
			„ 26,.....	89	.892
			„ 27,.....	85	.887
			„ 28,.....	84	.892
			„ 29,.....	89	.918
			„ 30,.....	87	.925
			„ 31,.....	...	...
Mean,.....	79	0.827	Mean.	79	0.827

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
Sep. 1,.....	...	0.3	0.1	0.1	0.9	1.0	1.0	0.3	...	0.4	0.6	0.1	...	4.8
„ 2,.....	...	...	...	0.6	1.0	0.8	0.8	0.3	0.2	0.9	1.0	1.0	...	6.6
„ 3,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	...	10.5
„ 4,.....	...	0.1	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	9.9
„ 5,.....	0.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.1	10.8
„ 6, ...	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.8	...	10.6
„ 7,.....	...	0.7	1.0	1.0	1.0	0.9	0.8	...	0.5	0.8	0.9	1.0	...	8.6
„ 8,.....	...	...	0.1	1.0	1.0	1.0	1.0	0.9	0.4	0.8	0.6	...	...	6.8
„ 9,.....	...	...	...	...	...	...	...	0.3	1.0	0.2	...	...	...	1.5
„ 10,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.7	1.0	0.2	...	8.5
„ 11,.....	...	0.6	0.6	...	0.2	0.7	0.8	1.0	0.8	1.0	1.0	1.0	...	7.7
„ 12,.....	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	...	11.1
„ 13,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	10.5
„ 14,.....	...	0.4	0.9	1.0	1.0	1.0	1.0	0.6	0.4	...	...	..	...	6.3
„ 15,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.3
„ 16,.....	...	0.7	0.8	1.0	1.0	1.0	1.0	1.0	0.9	0.3	0.5	0.5	...	8.7
„ 17,.....	...	...	...	0.1	...	...	...	...	...	...	...	...	...	0.1
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	0.1	0.2	0.1	...	0.1	...	0.3	0.9	0.7	0.1	...	2.5
„ 20,.....	...	0.1	0.3	0.1	0.7	0.3	0.6	0.8	1.0	0.6	...	0.1	...	4.6
„ 21,.....	...	0.5	0.1	...	0.2	...	0.2	1.0	1.0	1.0	1.0	0.9	...	5.9
„ 22,.....	...	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.1	...	10.0
„ 23,.....	...	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	8.5
„ 24,.....	...	...	...	...	0.1	...	...	1.0	...	...	...	...	...	1.1
„ 25,.....	...	0.2	0.7	1.0	1.0	0.9	0.1	1.0	1.0	0.3	0.1	...	...	6.3
„ 26,.....	...	...	...	...	...	0.3	...	0.3	...	...	0.1	0.2	...	0.9
„ 27,.....	...	0.2	0.6	0.5	0.7	1.0	1.0	0.6	0.6	0.7	1.0	0.7	...	7.6
„ 28,.....	...	...	0.4	0 8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	...	9.0
„ 29,.....	...	...	0.8	0.1	...	...	...	...	0.4	0.9	1.0	0.6	...	3.8
„ 30,.....	...	0.3	0.6	0.8	0.6	0.4	0.1	0.1	0.4	0.8	0.6	...	...	4.7
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	0.2	10.1	15.9	18.3	20.3	20.3	19.5	20.1	19.4	20.2	19.9	13.8	0.2	198.2

TABLE VI.

RAINFALL FOR THE MONTH OF SEPTEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
Sept. 1,.....	0.035	...	...	0.015	...	...	0.045	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.095	1	1.20
„ 2,.....	...	...	...	0.280	0.025	0.055	...	0.170	...	...	...	...	...	0.090	...	...	...	...	...	...	...	...	...	...	0.620	3	...
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.09
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,.....	...	...	...	...	0.200	1.700	0.035	0.065	1.650	1.060	0.680	0.300	...	...	...	...	...	...	...	...	...	0.010	0.010	...	5.710	7	4.35
„ 10,.....	...	0.115	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	...	...	...	...	...	...	...	0.160	1	0.16
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	1	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	0.050	...	...	...	...	0.005	...	...	0.015	0.005	0.005	...	0.005	0.010	...	...	...	†0.020	†0.100	†0.100	†0.020	...	0.335	10	2.14
„ 18,.....	...	...	...	...	†0.400	†1.000	†0.200	0.020	0.010	0.025	...	...	0.065	...	...	...	...	...	...	...	...	...	...	...	1.720	6	0.15
„ 19,.....	...	...	...	...	...	...	0.015	0.045	...	...	...	...	0.025	...	...	...	...	...	...	...	...	...	...	...	0.085	2	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 25,.....	...	0.010	...	...	...	...	0.020	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.060	2	...
„ 26,.....	0.050	0.005	...	...	0.025	0.030	0.040	0.350	0.210	0.425	0.040	0.045	...	0.175	0.060	0.085	...	...	0.035	0.055	0.010	0.020	0.025	...	1.685	10	2.90
„ 27,.....	...	...	...	...	0.025	...	0.010	0.020	0.030	...	...	...	0.105	0.005	0.010	...	...	...	...	...	...	...	...	...	0.205	3	0.21
„ 28,.....	...	0.010	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.035	1	...
„ 29,.....	0.085	...	...	...	...	...	...	...	0.280	0.285	0.050	...	0.060	...	...	...	...	...	...	...	...	...	...	...	0.760	3	0.61
„ 30,.....	...	...	...	...	...	...	0.060	0.020	...	...	0.005	0.060	...	...	...	...	...	...	...	...	...	...	0.155	0.005	0.305	3	...
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.170	0.160	0.075	0.295	0.675	2.785	0.425	0.725	2.180	1.795	0.790	0.410	0.260	0.275	0.075	0.095	0.045	...	0.035	0.075	0.110	0.130	0.210	0.005	11.800	53	11.81

The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

† 17th 5p.—18th 7a. Clock stopped. Total distributed approximately from observation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF SEPTEMBER, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
Sept. 1,	13	6	27	5	4	3	6	2	15	8	15	7	16	7	18	8	18	10	19	8	18	7	19	8	16	9	19	10	18	14	18	20	19	16	21	9	21	11	21	9	23	5	20	7	20	5	...	1	195	8.1	19
" 2,	14	3	14	2	...	1	16	7	3	5	24	10	25	4	20	9	29	7	29	5	27	4	22	10	18	8	20	8	19	12	19	16	20	15	18	10	19	8	19	7	19	9	19	11	20	9	20	6	186	7.7	20
" 3,	20	6	20	10	19	9	20	9	21	6	21	6	24	4	24	5	23	8	24	8	22	11	20	10	21	10	18	14	18	10	17	12	17	5	17	5	17	5	17	3	16	2	...	1	17	3	18	6	163	7.0	20
" 4,	18	5	18	7	19	7	20	8	21	9	21	8	23	6	23	6	24	7	22	10	23	11	21	13	21	11	22	12	21	11	20	11	19	8	17	6	17	6	...	1	15	3	...	1	20	2	...	1	170	7.1	21
" 5,	...	1	22	7	22	9	23	7	25	6	25	5	26	6	27	6	23	5	23	7	24	9	25	9	23	10	23	10	23	9	23	8	22	6	18	3	17	3	17	4	30	3	1	2	2	3	...	1	139	5.8	24
" 6,	...	1	...	1	...	0	27	5	28	4	27	2	19	2	26	4	26	5	25	9	25	8	25	9	24	11	18	10	16	11	16	10	16	10	16	6	16	5	16	5	20	4	...	1	17	3	18	2	128	5.3	21
" 7,	19	2	28	2	28	2	...	1	...	1	19	3	19	2	31	2	16	2	14	2	24	5	23	5	17	6	18	8	17	10	17	11	18	10	18	5	19	6	21	2	24	3	30	10	8	7	8	12	119	5.0	18
" 8,	8	5	31	2	...	1	31	2	22	4	26	9	23	6	24	5	23	7	23	8	23	10	24	9	23	8	23	10	12	4	10	3	29	6	27	3	27	2	...	1	...	0	...	0	...	1	...	0	106	4.4	24
" 9,	...	1	...	0	...	0	1	2	8	12	2	12	14	4	27	3	4	6	26	8	25	19	31	7	14	3	12	3	7	4	24	9	21	6	...	0	21	2	...	1	6	6	4	7	5	9	6	2	126	5.3	1
" 10,	1	7	2	10	1	11	2	11	3	13	2	16	3	11	4	15	3	16	5	12	4	9	3	11	32	9	1	10	25	6	24	6	25	9	11	7	4	11	2	16	1	22	1	23	1	22	1	22	305	12.7	2
" 11,	1	11	1	12	1	6	4	4	5	6	1	11	3	6	1	14	2	15	2	14	1	15	32	10	2	12	1	11	3	9	32	7	1	8	2	7	2	4	...	1	2	2	...	1	...	1	10	5	192	8.0	2
" 12,	10	7	14	5	3	8	1	17	1	13	1	13	4	11	4	17	5	17	6	17	7	21	8	18	9	18	10	21	10	15	10	14	9	13	7	10	7	7	6	9	6	8	6	8	6	12	6	18	317	13.2	6
" 13,	7	15	4	15	3	12	4	14	4	12	4	10	5	14	4	18	4	18	7	21	8	23	9	21	10	19	10	22	10	20	7	14	7	14	8	17	7	13	7	16	7	17	7	22	6	23	6	24	415	17.3	7
" 14,	6	23	7	25	6	24	5	21	5	22	5	24	5	23	7	23	7	25	7	26	7	29	7	28	7	27	7	27	7	24	7	21	7	18	7	16	7	16	7	19	7	21	7	26	7	27	8	29	564	23.5	7
" 15,	8	30	6	26	6	23	6	25	6	26	5	25	5	26	6	27	6	26	7	24	7	24	8	21	8	18	7	16	9	16	8	15	10	16	7	12	7	12	8	14	8	21	7	18	8	21	7	23	505	21.0	7
" 16,	7	25	6	23	6	24	7	25	6	27	6	21	6	17	6	19	6	22	7	23	7	20	9	22	8	20	8	22	8	18	7	19	7	20	7	24	7	22	7	22	7	23	7	31	7	33	7	38	560	23.3	7
" 17,	6	33	6	34	6	35	6	32	6	28	6	28	6	26	6	26	6	26	6	28	6	32	7	27	7	30	7	29	7	26	7	30	7	33	6	29	6	25	6	26	7	23	7	26	7	24	7	24	680	28.3	6
" 18,	7	18	7	19	6	22	6	21	7	21	11	25	9	22	9	24	7	14	8	15	6	22	7	22	6	23	7	23	7	21	8	23	8	23	8	21	8	20	8	18	8	18	8	17	8	19	8	16	487	20.3	8
" 19,	8	15	7	14	8	17	8	21	7	17	7	15	8	17	9	13	7	17	7	18	7	18	7	19	7	18	7	19	9	21	9	20	9	17	7	13	7	12	8	10	7	8	9	8	9	11	8	9	367	15.3	8
" 20,	6	9	7	11	8	11	7	9	7	7	7	7	6	6	6	8	7	8	8	10	8	14	7	12	8	12	7	18	9	28	7	13	7	12	8	12	8	10	8	11	8	9	7	10	7	10	6	9	266	11.1	7
" 21,	7	9	7	12	7	12	6	9	6	9	7	11	6	10	7	11	7	12	6	8	5	6	7	11	10	10	11	10	9	9	9	9	9	10	9	9	9	7	9	7	8	6	8	6	...	1	9	5	209	8.7	8
" 22,	9	5	9	3	7	7	8	7	5	9	5	12	6	14	7	17	8	20	7	21	8	24	10	25	9	24	9	23	10	24	9	26	8	21	7	14	6	15	5	11	6	13	6	13	6	12	7	17	377	15.7	8
" 23,	7	17	7	15	6	12	5	5	5	4	6	9	7	12	6	13	5	11	6	12	7	11	9	23	10	20	10	19	10	23	9	19	8	16	7	18	7	24	7	27	7	27	6	27	6	26	6	25	415	17.3	7
" 24,	7	27	7	24	6	24	6	26	5	23	5	22	5	21	6	23	5	17	6	24	7	28	8	25	8	24	10	30	8	26	8	24	9	20	9	26	9	26	10	25	9	25	11	28	10	27	10	24	589	24.5	8
" 25,	9	26	7	25	7	24	7	24	7	29	7	28	6	24	6	23	7	23	7	22	7	25	7	23	7	24	8	24	7	26	7	24	7	22	6	24	7	19	7	25	7	27	6	27	7	23	9	27	588	24.5	7
" 26,	6	24	6	25	7	27	6	28	7	28	7	33	6	33	7	34	7	39	10	39	9	37	10	29	10	29	12	18	14	17	12	13	11	11	12	10	12	16	12	19	12	17	12	21	13	19	12	11	577	24.0	9
" 27,	13	19	12	11	12	15	10	15	11	16	13	11	12	19	12	18	13	18	13	17	13	20	13	17	15	21	15	10	13	6	13	11	13	11	12	13	11	7	11	10	11	9	11	6	10	13	10	12	325	13.5	12
" 28,	10	13	11	8	10	9	13	12	13	11	13	14	10	14	13	14	10	14	10	16	10	20	8	17	8	18	8	18	8	16	9	15	9	15	9	15	10	12	10	11	10	7	10	6	10	6	9	7	308	12.8	10
" 29,	8	4	13	6	9	7	7	6	7	6	7	4	...	1	8	6	7	7	23	4	10	6	8	4	6	6	8	8	8	10	8	9	9	9	9	8	7	6	7	10	8	9	10	7	11	10	11	13	166	6.9	9
" 30,	9	14	10	14	9	12	10	11	9	10	10	10	12	7	10	14	9	17	12	17	10	16	10	16	10	12	12	14	10	14	9	15	9	16	9	16	8	13	8	11	10	10	8	11	8	5	10	10	305	12.7	10
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	...	382	...	373	...	374	...	386	...	392	...	411	...	375	...	425	...	439	...	453	...	504	...	481	...	470	...	477	...	460	...	447	...	416	...	368	...	345	...	351	...	357	...	382	...	387	...	399	9854	410.3	....
Hourly Means,	...	12.7	...	12.4	...	12.5	...	12.9	...	13.1	...	13.7	...	12.5	...	14.2	...	14.6	...	15.1	...	16.8	...	16.0	...	15.7	...	15.9	...	15.3	...	14.9	...	13.9	...	12.3	...	11.5	...	11.7	...	11.9	...	12.7	...	12.9	...	13.3	328.5	13.7	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR SEPTEMBER, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	2.47	10.97	1.73	0.23	+0.74	+10.74	E 4° N
2 „	3.60	9.97	1.57	0.70	2.03	9.27	E 12° N
3 „	3.73	10.27	1.13	0.60	2.60	9.67	E 15° N
4 „	4.33	9.90	1.33	0.77	3.00	9.13	E 18° N
5 „	4.37	10.23	1.30	0.83	3.07	9.40	E 18° N
6 „	5.03	9.60	1.90	1.27	3.13	8.33	E 21° N
7 „	4.17	9.83	1.50	0.90	2.67	8.93	E 17° N
8 „	4.33	10.97	1.77	1.20	2.56	9.77	E 15° N
9 „	4.50	11.40	1.30	1.33	3.20	10.07	E 18° N
10 „	3.13	11.73	2.10	2.00	1.03	9.73	E 6° N
11 „	3.00	12.83	1.80	2.60	+1.20	10.23	E 7° N
Noon.	1.93	12.43	2.63	2.17	−0.70	10.26	E 4° S
1 p.	1.70	11.73	3.63	1.67	1.93	10.06	E 11° S
2 „	1.60	11.70	4.47	1.87	2.87	9.83	E 16° S
3 „	0.93	11.73	4.60	1.43	3.67	10.30	E 20° S
4 „	1.07	10.87	4.03	1.73	2.96	9.14	E 18° S
5 „	1.30	10.33	3.33	1.80	2.03	8.53	E 13° S
6 „	1.67	10.17	2.47	0.60	0.80	9.57	E 5° S
7 „	1.77	9.37	2.10	0.83	−0.33	8.54	E 2° S
8 „	1.97	9.70	1.90	0.50	+0.07	9.20	E
9 „	2.20	9.83	1.50	0.57	0.70	9.26	E 4° N
10 „	3.10	10.17	1.87	0.50	1.23	9.67	E 7° N
11 „	2.77	10.63	1.93	0.40	0.84	10.23	E 5° N
Midt.	2.47	11.60	1.80	0.23	+0.67	+11.37	E 3° N
Mean, ...	2.80	10.75	2.24	1.11	+0.56	+9.64	E 3° N

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
									10 a.		4 p.		10 p.	
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
Sept. 1	28.09	28.02	28.02	74	74	74	76	73	S	4	S	5	SW	4
„ 2	.09	.03	.04	74	75	74	76	73	SW	4	S	4	S	5
„ 3	.11	.06	.10	76	76	75	77	74	SW	4	SW	3	S	4
„ 4	.09	.05	.06	76	77	75	78	74	SW	3	SW	4	SW	4
„ 5	.07	.01	.03	77	77	75	80	74	S	3	S	3	S	3
„ 6	.05	27.98	.02	77	78	77	80	74	S	2	SW	4	S	2
„ 7	.07	.99	27.99	77	77	75	78	74	S	2	SW	4	NW	4
„ 8	.05	28.00	.99	75	80	77	80	74	NW	4	NW	2	NW	4
„ 9	.05	27.98	28.00	74	75	74	77	73	E	3	NNW	4	NNW	4
„ 10	.05	28.03	.05	74	77	73	77	70	E	4	NE	3	NE	5
„ 11	.08	.04	.06	72	75	72	75	69	NE	4	NW	4	NE	4
„ 12	.15	.11	.14	73	74	72	75	69	ENE	5	E	4	E	4
„ 13	.16	.10	.14	73	74	71	74	69	ENE	5	ENE	4	E	4
„ 14	.13	.09	.10	72	72	70	73	69	E	5	E	5	E	5
„ 15	.13	.09	.08	72	74	71	74	69	E	6	E	5	E	4
„ 16	.11	.07	.06	72	73	72	75	69	E	5	E	5	E	6
„ 17	.11	.06	.06	71	70	69	75	69	E	6	E	6	E	6
„ 18	.14	.08	.08	71	72	71	74	69	ESE	5	SE	4	E	4
„ 19	.13	.08	.10	73	73	72	74	71	E	4	E	4	E	4
„ 20	.14	.10	.12	73	75	73	76	71	E	3	E	4	E	3
„ 21	.18	.13	.12	75	76	75	77	73	E	3	E	3	E	4
„ 22	.16	.08	.07	76	76	74	77	73	E	4	E	4	E	5
„ 23	.08	27.97	27.98	76	76	74	78	73	E	4	E	4	E	5
„ 24	27.98	.95	.98	74	75	73	77	72	E	5	E	6	E	6
„ 25	28.04	.96	.98	74	76	74	77	73	E	6	E	6	E	6
„ 26	.01	28.00	28.02	74	74	73	75	72	E	7	SSE	5	SSE	4
„ 27	.10	.06	.09	73	74	74	75	73	S	5	S	4	S	4
„ 28	.15	.06	.07	74	75	74	76	72	SSE	4	SE	3	SE	3
„ 29	.12	.08	.12	74	75	75	76	74	E	2	E	2	E	3
„ 30	.19	.15	.19	75	76	75	77	73	ESE	4	SE	4	SE	4
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	28.100	28.047	28.062	74.0	75.0	73.4	76.3	71.8	E 18° S	4.2	E 28° S	4.1	E 14° S	4.2

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
Sept. 1, ...	10	nim.	...	4	cum.	...	7	cum.	S	5	cum.	SSW
„ 2, ...	1	cum.	...	10	nim.	...	10	cum.	SW	5	c-cum. / sm-cum. / cum.	E / SW / WSW
„ 3, ...	3	cum.	...	4	cum.	SW	3	c-cum. / cum.	ENE / SW	2	c-cum. / cum.	ENE / SW
„ 4, ...	2	cum.	...	4	cum.	...	6	cum.	SW	2	cum.	WSW
„ 5, ...	1	cum.	...	0	...	...	2	c-str. / cum.	...	1	c-str. / cum.	WSW
„ 6, ...	0	...	...	0	...	...	3	c-str. / cum.	ENE / ..	6	c-cum. / cum.	E / SW
„ 7, ...	7	cum.	...	0	...	...	7	c-str. / cum.	E / ..	3	c-str. / cum.	S
„ 8, ...	10	cum.	...	7	cum.	...	9	c-str.	ENE	7	c-cum.	ENE
„ 9, ...	10	cum.	NE	10	cum.	NE	10	nim.	NNE	10	nim.	SE
„ 10, ...	10	nim.	ENE	10	cum.	NE	9	R-cum.	NE	1	c-cum. / cum.	SW / ENE
„ 11, ...	10	cum.	NE	3	cum.	NE	3	c-cum. / cum.	SW / ENE	7	sm-cum.	SW
„ 12, ...	10	cum.	NE	9	cum.	N	2	c-cum.	W	1	sm-cum.	W
„ 13, ...	3	cum.	E	2	cum.	NE	0	...	...	0	...	...
„ 14, ...	10	cum.	E	7	cum.	NE	5	c-cum.	WSW	1	c-str.	WSW
„ 15, ...	9	c-str. / cum.	NE	10	c-str. / cum.	NE	9	c-str. / cum.	WSW / E	1	c-cum.	...
„ 16, ...	6	cum.	NE	9	cum.	NE	3	c-cum. / cum.	W / ENE	2	c-cum. / cum.	WNW / E
„ 17, ...	10	cum.	NE	10	nim.	E	10	cum.	E	10	nim.	E
„ 18, ...	10	cum.	E	10	cum.	E	10	nim.	E	10	nim.	E
„ 19, ...	10	cum.	E	10	cum.	E	10	cum.	E	10	R-cum.	E
„ 20, ...	0	...	...	3	cum.	E	7	sm-cum. / cum.	ESE	7	cum.	ESE
„ 21, ...	0	...	...	3	cum.	E	8	c-str. / cum.	NE / E	6	c-str. / cum.	ENE / ...
„ 22, ...	0	...	...	0	...	...	0	...	...	1	cum.	NE
„ 23, ...	4	cum.	E	7	cum.	E	9	cum.	ENE	4	c-str. / cum.	ESE / NE
„ 24, ...	3	cum.	NE	4	cum.	NE	10	R-cum.	ENE	10	str-cum. / R-cum.	ENE
„ 25, ...	10	cum.	ENE	10	cum.	ENE	9	sm-cum. / cum.	E / E	7	sm-cum. / cum.	E / E
„ 26, ...	9	nim.	ENE	9	cum.	ENE	10	nim.	E	10	nim.	ESE
„ 27, ...	9	cum.	...	8	cum.	...	8	sm-cum. / cum.	S / SE	8	cum.	SSE
„ 28, ...	0	...	...	3	cum.	...	5	cum.	SE	6	cum.	SSE
„ 29, ...	10	nim.	...	0	...	...	9	cum.	S	10	nim.	E
„ 30, ...	10	nim.	...	5	cum.	...	8	c-cum. / cum.	E / SE	7	c-cum. / cum.	E / SE
.....	...	...	...	...	...	...	...	...	...	...	...	...
Mean, ...	6.2	...	...	5.7	...	...	6.7	...	...	5.3	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
Sept. 1,...	6	cum.	SSW	8	sm-cum. / cum.	S / SW	8	cum.	SW	1	cum.	...	6.1
„ 2,...	9	sm-cum. / cum.	WSW	3	c-str. / cum.	E / WSW	6	cum.	SW	1	cum.	SW	5.6
„ 3,...	1	c-cum. / cum.	ENE / SW	4	c-cum. / cum.	ENE / SW	6	cum.	SW	2	cum.	SW	3.1
„ 4,...	1	cum.	WSW	0	...	...	0	...	...	1	cum.	WSW	2.0
„ 5,...	1	cum.	WSW	2	c-str.	ENE	4	c-str.	ENE	0	...	...	1.4
„ 6,...	4	c-str. / cum.	E / SW	5	c-str. / cum.	E / SW	4	c-str.	E	3	c-str. / cum.	E / SW	3.1
„ 7,...	8	c-str. / cum.	SSW	5	c-str. / cum.	SSW	7	c-str.	E	10	cum.	N	5.9
„ 8,...	8	c-str.	ENE	8	c-str.	ENE	10	str-cum.	...	10	str-cum.	...	8.6
„ 9,...	8	c-str. / cum.	NNE	9	cum-str.	ENE	8	c-str. / cum-str.	ESE / ..	10	nim.	NE	9.4
„ 10,...	2	cum.	ENE	7	cum.	ENE	10	cum.	ENE	9	cum.	ENE	7.2
„ 11,...	2	sm-cum. / cum.	SW / ENE	0	...	...	3	cum.	...	2	cum.	NNE	3.8
„ 12,...	1	cum.	E	0	...	...	0	...	...	4	cum.	E	3.4
„ 13,...	0	...	...	5	c-str.	W	5	c-str. / cum.	...	10	c-str. / cum.	ENE	3.1
„ 14,...	8	c-str.	WSW	9	c-str.	...	10	c-str.	...	9	c-str. / cum.	...	7.4
„ 15,...	1	c-cum	...	1	c-cum.	W	0	...	...	9	cum.	ENE	5.0
„ 16,...	4	c-cum. / cum.	WNW / E	5	c-str. / c-cum.	WNW / WNW	7	cum.	E	9	cum.	E	5.6
„ 17,...	10	nim.	E	10	nim.	E	10	cum-nim.	E	10	nim.	...	10.0
„ 18,...	10	cum-nim.	E	9	cum.	ESE	10	cum-nim.	ESE	10	cum-nim.	ESE	9.9
„ 19,...	10	R-cum.	E	8	c-str. / cum.	W / E	1	c-str.	...	0	...	...	7.4
„ 20,...	7	sm-cum. / cum.	ESE	9	sm-cum. / cum.	ESE	0	...	...	1	cum.	ESE	4.2
„ 21,...	4	c-str. / cum.	E / E	2	c-str. / cum.	E / E	0	...	...	0	...	...	2.9
„ 22,...	8	cum.	ENE	2	cum.	ENE	0	...	...	0	...	...	1.4
„ 23,...	2	c-str. / cum.	ESE / NE	7	c-str. / cum	ESE / ENE	9	cum-nim.	ENE	4	cum.	E	5.8
„ 24,...	8	c-str. / cum.	ENE	10	cum-nim.	ENE	10	nim.	...	7	nim.	ENE	7.7
„ 25,...	6	c-str. / sm-cum / cum.	.. / E / E	9	sm-cum. / cum.	E / E	8	cum.	ENE	10	cum-nim.	E	8.6
„ 26,...	9	R-cum.	ESE	9	cum.	SE	5	cum.	ESE	9	cum-nim.	SE	8.8
„ 27,...	8	cum.	SSE	3	cum.	SSE	1	cum.	SSE	9	nim.	SSE	6.7
„ 28,...	4	cum.	SSE	1	c-str. / cum.	E / SSE	0	...	...	1	cum.	E	2.5
„ 29,...	10	nim.	E	5	c-cum. / cum.	E / SSE	2	c-str. / cum.	E / SSE	9	cum-nim.	ESE	6.9
„ 30,...	9	cum.	SE	8	c-cum. / cum.	E / SE	7	c-str. / cum.	E / E	1	c-str. / cum.	E	6.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean,...	5.6	...	...	5.4	...	...	5.0	...	...	5.4	...	...	5.7

HONGKONG OBSERVATORY.

Weather Report for October, 1889.

In the *China Coast Meteorlogical Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 12th and 20th.

Solar corona: on the 23rd.

Lunar halo: on the 11th.

Lunar corona: on the 1st, 2nd, 4th, 7th, 9th, 11th and 30th.

Haze: on the 3rd, 17th, 18th and 28th.

Unusual Visibility: on the 6th, 7th and 29th.

Dew: on the 2nd, 3rd, 6th, 17th, 18th and 28th.

Rainbow: on the 5th, 15th and 21st.

Slight Fog: on the 4th, 7th, 18th and 19th.

Lightning without thunder: on the 2nd, 7th, 20th, 21st, 23rd, 24th, 27th, 28th and 29th.

Thunder without lightning: on the 1st.

Thunderstorm: on the 9th 5 p.—11.00 p. nearest at 10.30 p. (35s. E).

The Total Distance traversed by, as well as the duration and average velocity of the wind from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	1753	152	11.5
NE	1115	80	13.9
E	5028	263	19.1
SE	660	66	10.0
S	177	26	6.8
SW	123	16	7.7
W	663	31	21.4
NW	935	64	14.6
Calm	21	46	0.5

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF OCTOBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
Oct. 1,...	29.934	29.931	29.925	29.926	29.935	29.938	29.963	29.979	29.983	29.979	29.967	29.940	29.913	29.877	29.867	29.871	29.878	29.889	29.905	29.924	29.928	29.933	29.933	29.924	29.927
„ 2,...	.899	.882	.870	.870	.875	.897	.919	.930	.933	.934	.920	.902	.873	.855	.831	.826	.827	.830	.839	.858	.870	.874	.858	.838	.875
„ 3,...	.824	.816	.799	.804	.813	.828	.838	.858	.861	.860	.852	.833	.815	.797	.787	.784	.789	.799	.819	.845	.857	.853	.828	.823	.824
„ 4,...	.810	.817	.823	.820	.824	*.840	.856	.874	.887	.888	.884	.859	.830	.816	.806	.813	.820	.828	.837	.855	.876	.878	.871	.861	.845
„ 5,...	.848	.840	.837	.839	.846	.872	.889	.901	.920	.923	.917	.904	.878	.859	.847	.835	.843	.852	.865	.880	.899	.907	.898	.894	.875
„ 6,...	.878	.872	.867	.863	.870	.880	.898	.914	.918	.920	.910	.892	.870	.850	.838	.828	.829	.832	.848	.882	.901	.906	.900	.886	.877
„ 7,...	.883	.875	.854	.851	.853	.878	.891	.903	.921	.916	.891	.875	.859	.846	.844	.844	.840	.843	.867	.884	.901	.897	.898	.883	.875
„ 8,...	.874	.865	.843	.842	.860	.864	.882	.906	.922	.927	.911	.886	.859	.825	.813	.804	.796	.806	.824	.864	.866	.869	.863	.868	.860
„ 9,...	.848	.829	.824	.821	.828	.833	.857	.877	.889	.886	.880	.859	.823	.798	.780	.773	.788	.796	.809	.823	.836	.839	.843	.831	.832
„ 10,...	.816	.807	.805	.801	.814	.831	.852	.866	.873	.873	.850	.829	.792	.761	.745	.735	.737	.754	.759	.783	.792	.792	.789	.788	.802
„ 11,...	.768	.755	.745	.737	.746	.767	.780	.790	.792	.785	.755	.734	.693	.678	.659	.670	.673	.678	.687	.699	.714	.720	.718	.712	.727
„ 12,...	.689	.679	.672	.678	.686	.701	.710	.713	†.721	†.724	.690	.666	.635	†.617	.601	.597	.594	.616	.625	.632	.647	.646	.632	.625	.658
„ 13,...	.626	†.627	.615	.622	.622	.641	.668	.678	.684	.679	.655	.632	.606	.583	.576	.579	.600	.608	.623	.642	.652	.646	.639	.633	.631
„ 14,...	.629	.622	.612	.607	.609	.617	.633	.646	.656	.663	.652	.632	.598	.581	.573	.581	.578	.580	.592	.621	.627	.625	.622	.615	.615
„ 15,...	.602	.592	.586	.591	.598	.613	.619	.634	.641	.639	.617	.611	.591	.556	.531	.513	.490	.493	.482	.515	.506	.488	.465	.445	.559
„ 16,..	.419	.411	.390	.383	.400	.411	.455	.491	.546	.575	.588	.593	.595	.595	.602	.612	.627	.642	.658	.671	.678	.689	.693	.694	.559
„ 17,...	.693	.685	.684	.690	.700	.717	.736	.753	.769	.770	.747	.721	.694	.673	.653	.661	.670	.672	.685	†.696	.712	.713	.712	.708	.705
„ 18,...	.702	.702	.704	.704	.719	.742	.766	.787	.791	.792	.770	.754	.725	.701	.688	.695	.698	.716	.739	.761	.768	.774	.772	.761	.739
„ 19,...	.744	.736	.735	.740	.760	.772	.787	.802	.817	.831	.808	.783	.753	.734	.719	.717	.718	.729	.750	.767	.774	.775	.784	.772	.763
„ 20,...	.755	.734	.726	.720	.732	.752	.768	.792	.806	.805	.798	.784	.774	.758	.744	.737	.738	.753	.759	.794	.806	.805	.800	.786	.768
„ 21,...	.775	.770	.762	.781	.787	.810	.819	.836	.863	.863	.842	.823	.798	.779	.765	.767	.788	.794	.809	.832	.852	.857	.857	.833	.811
„ 22,...	.815	.794	.792	.786	.796	.816	.842	.855	.875	.884	.873	.844	.815	.814	.796	.809	.809	.823	.848	.871	.873	.874	.866	.858	.834
„ 23,...	.844	.833	.813	.806	.803	.810	.826	.840	.852	.856	.827	.810	.787	.783	.778	.772	.786	.787	.809	.823	.834	.838	.831	.823	.815
„ 24,...	.811	.796	.784	.781	.794	.807	.823	.837	.863	.860	.851	.829	.791	.759	.744	.745	.764	.781	.803	.815	.830	.841	.840	.839	.808
„ 25,...	.836	.821	.811	.811	.808	.826	.856	.872	.883	.881	.851	.827	.813	.796	.794	.798	.821	.823	.829	.849	.855	.858	.848	.845	.834
„ 26,...	.832	.818	.807	.799	.794	.807	.823	.843	.855	.862	.857	.831	.805	.784	.773	.790	.790	.789	.792	.809	.819	.818	.820	.817	.814
„ 27,...	.803	.791	.786	.780	.786	.804	.824	.840	.844	.847	.843	.821	.798	.783	.771	.769	.781	.784	.804	.818	.838	.836	.838	.835	.809
„ 28,...	.814	.791	.784	.784	.800	.810	.825	.839	.856	.857	.837	.819	.781	.767	.761	.769	.767	.775	.780	.805	.830	.841	.851	.835	.807
„ 29,...	.831	.820	.809	.806	.816	.841	.863	.889	.906	.917	.909	.890	.874	.858	.856	.869	.881	.899	.929	.936	.943	.938	.927	.916	.880
„ 30,...	.898	.888	.879	.884	.890	.912	.930	.929	.942	.939	.929	.902	.858	.835	.814	.808	.815	.836	.858	.885	.890	.881	.863	.851	.880
„ 31	.831	.824	.823	.826	.825	.829	.850	.855	.875	.868	.844	.834	.825	.816	.814	.828	.846	.861	.881	.890	.893	.897	.893	.880	.849
Hourly Means, ...	29.785	29.775	29.767	29.766	29.774	29.789	29.808	29.824	29.837	29.839	29.823	29.804	29.778	29.759	29.747	29.748	29.754	29.763	29.778	29.798	29.809	29.810	29.805	29.796	29.789

* Interpolated. † Approximate Reading.

TABLE II.

TEMPERATURE FOR THE MONTH OF OCTOBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
Oct. 1,	78.8	77.4	77.4	77.4	75.6	76.3	77.0	78.4	78.2	78.2	80.4	81.0	81.7	81.5	82.2	81.5	80.5	79.9	79.8	79.8	79.9	79.9	79.9	79.9	79.3	82.9	75.0
" 2,	79.9	79.8	79.3	79.3	79.4	79.5	80.9	82.6	82.6	82.9	83.6	83.5	82.6	82.4	81.7	81.7	80.7	79.8	79.4	78.8	78.6	78.7	78.0	77.8	80.6	84.8	77.5
" 3,	78.0	78.1	78.0	77.8	77.4	77.4	78.9	81.1	82.7	84.7	86.6	83.5	85.9	83.9	84.0	83.8	82.4	80.7	80.8	80.2	79.6	79.4	79.2	78.4	80.9	88.5	76.8
" 4,	78.4	78.1	78.2	77.9	77.9	77.8	80.3	83.1	84.6	84.7	84.5	85.1	84.8	84.6	84.5	83.2	82.2	81.4	80.8	81.2	81.6	81.3	81.3	81.2	81.6	86.3	77.0
" 5,	81.1	81.1	81.1	81.2	81.2	81.2	81.7	82.8	82.7	83.9	84.4	83.9	83.6	83.2	83.1	82.0	81.1	80.9	80.8	80.8	80.8	80.8	80.4	80.3	81.8	84.7	80.2
" 6,	80.6	80.3	80.1	80.2	80.2	80.2	80.8	82.8	83.9	82.4	83.5	83.9	84.2	83.6	83.3	83.0	81.5	80.2	79.6	79.6	79.4	79.1	78.1	78.1	81.2	85.3	77.8
" 7,	78.2	78.3	77.5	77.6	77.2	77.1	78.9	81.5	83.6	84.7	85.0	84.9	84.0	83.6	82.9	82.8	81.7	80.7	79.9	79.9	80.4	80.0	79.8	79.7	80.8	85.9	76.6
" 8,	79.5	79.5	79.4	79.2	79.3	79.7	79.9	82.0	83.9	83.9	84.6	84.7	84.0	83.7	83.1	82.9	82.0	80.9	80.7	80.8	80.6	80.3	80.0	80.1	81.4	86.0	78.7
" 9,	79.9	79.8	79.9	80.0	79.8	80.0	81.0	82.5	84.7	85.0	84.3	85.5	84.8	83.9	83.9	82.8	81.6	80.9	80.8	81.0	80.3	78.5	76.7	77.3	81.5	86.0	76.0
" 10,	77.0	77.0	77.2	76.9	76.9	76.3	77.1	80.3	82.8	83.8	84.4	84.2	84.8	86.5	85.7	84.7	84.5	81.9	80.9	79.5	80.5	79.7	79.7	76.8	80.8	86.7	75.5
" 11,	77.2	76.5	75.9	76.5	75.7	75.5	77.7	79.5	80.4	82.3	85.1	85.6	85.8	87.4	87.7	86.6	85.0	82.1	82.1	80.2	79.9	79.0	78.4	77.4	80.9	89.3	74.7
" 12,	76.9	76.8	76.7	76.3	76.4	75.8	76.1	76.7	78.7	80.3	82.6	85.0	84.6	85.7	85.6	83.6	82.4	80.4	80.8	80.5	80.1	79.6	79.2	78.1	80.0	86.2	74.9
" 13,	77.7	77.5	77.5	77.4	76.8	76.8	76.9	78.2	81.9	83.1	87.3	88.3	86.6	88.8	87.3	82.4	81.9	82.1	81.3	80.3	80.4	79.8	78.4	78.6	81.1	89.7	76.3
" 14,	78.2	78.6	78.1	77.9	77.3	77.2	78.5	79.2	81.0	82.8	83.4	84.8	85.0	87.2	86.2	84.1	83.3	82.4	82.7	82.8	83.0	82.5	82.0	80.4	81.6	90.5	76.3
" 15,	79.9	78.5	78.1	77.8	77.4	78.1	79.0	79.8	79.8	80.0	80.2	77.4	76.4	76.8	77.4	78.0	80.5	82.5	81.8	81.6	81.2	81.0	79.9	77.9	79.2	82.9	76.3
" 16,	78.3	75.5	75.3	74.5	72.9	72.4	72.6	71.8	71.5	71.4	71.8	72.0	73.0	73.2	73.0	73.8	73.1	74.1	74.8	74.4	74.2	74.5	74.4	74.2	73.6	78.3	71.4
" 17,	74.2	74.3	74.1	74.5	74.7	75.0	76.0	77.7	80.2	80.8	81.3	83.1	81.0	83.4	85.5	82.0	80.9	79.6	78.9	79.2	79.2	78.6	78.0	77.6	78.7	86.1	73.5
" 18,	77.4	77.5	77.0	76.9	76.4	76.4	77.8	80.5	82.5	83.0	82.5	85.6	83.8	82.8	82.6	82.7	81.3	80.1	79.1	79.0	78.7	77.8	78.0	78.1	79.9	86.8	75.9
" 19,	77.6	76.8	76.8	76.5	76.4	76.9	78.7	82.7	82.6	83.7	84.7	85.0	83.9	83.3	83.3	82.0	80.5	79.7	79.0	79.2	79.7	79.6	79.5	78.9	80.3	86.6	75.9
" 20,	78.6	78.2	78.2	78.0	77.9	78.4	78.9	80.0	80.4	83.0	82.8	82.5	82.8	83.8	82.9	82.2	82.0	81.9	81.9	81.9	80.4	78.7	79.7	80.0	80.6	84.1	77.6
" 21,	80.6	80.6	80.6	80.6	80.5	79.4	80.9	81.2	81.8	81.7	82.5	82.3	82.5	82.2	82.1	81.8	80.9	80.9	80.8	81.0	81.1	81.3	80.2	80.0	81.1	84.0	78.8
" 22,	79.3	79.0	78.9	78.7	78.2	77.3	76.9	77.0	77.1	77.7	77.5	77.2	77.8	76.8	76.9	74.9	75.7	76.8	76.9	74.8	74.6	75.8	76.0	74.9	76.9	80.0	74.4
" 23,	74.0	74.6	74.2	74.8	75.3	75.4	75.0	75.6	75.8	77.6	78.8	79.2	79.6	78.3	78.5	78.4	78.2	78.0	77.9	78.0	78.0	77.5	76.8	76.5	76.9	80.8	73.6
" 24,	75.6	75.0	74.7	74.5	73.6	72.8	73.9	77.6	78.6	79.9	78.9	80.9	81.3	81.8	82.1	82.8	80.5	78.2	78.0	76.8	75.1	74.8	72.8	72.6	77.2	84.9	71.9
" 25,	73.1	74.4	75.4	75.2	75.2	75.3	75.4	75.7	77.0	77.8	78.8	79.0	78.6	78.2	78.3	74.8	74.7	72.9	74.8	75.2	75.6	75.8	75.9	76.4	76.0	80.0	72.5
" 26,	76.0	75.7	74.8	75.1	75.1	74.9	74.8	75.8	75.8	76.0	75.7	75.3	74.6	74.4	75.5	75.0	75.6	75.8	75.8	76.6	77.1	78.8	77.9	77.9	75.8	79.3	74.3
" 27,	77.7	77.8	77.5	77.8	78.2	78.8	79.2	80.0	81.0	81.8	83.5	83.5	83.7	83.1	82.3	81.5	81.0	80.3	80.0	80.0	80.1	80.0	79.9	79.8	80.4	85.4	77.1
" 28,	79.5	78.9	78.9	79.0	79.0	78.5	79.3	80.9	80.2	83.9	83.6	84.5	84.8	84.6	84.2	81.6	80.7	78.8	78.7	78.1	77.8	77.8	78.0	77.5	80.4	86.5	77.5
" 29,	77.2	77.1	77.0	74.8	74.4	72.9	73.3	72.8	72.9	72.9	72.5	72.0	72.2	71.3	70.8	69.8	69.8	69.2	67.6	68.2	69.0	69.5	71.5	71.3	72.1	78.4	67.1
" 30,	71.0	70.9	69.4	69.0	68.6	68.3	68.8	72.2	75.3	73.7	74.8	75.9	75.8	77.0	76.0	77.1	76.5	73.5	72.8	73.0	72.8	72.9	72.6	70.8	72.9	78.6	67.9
" 31,	71.1	70.3	69.6	69.8	70.1	69.8	70.6	71.8	74.0	75.0	77.5	75.7	77.7	77.5	77.2	75.0	73.8	73.1	74.0	74.4	73.7	73.8	73.5	73.4	73.4	79.0	69.2
Hourly Means,	77.5	77.2	77.0	76.9	76.6	76.5	77.3	78.7	79.9	80.7	81.5	81.8	81.7	81.8	81.6	80.6	79.9	79.0	78.8	78.6	78.5	78.3	77.9	77.5	79.0	84.3	75.1

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF OCTOBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
Oct. 1,...	75.7	75.1	75.7	76.1	74.2	74.2	74.9	75.9	76.0	76.7	77.8	77.5	78.6	78.1	78.2	77.8	77.1	76.8	76.6	76.6	76.7	76.8	76.8	76.8	76.5	139.9
„ 2,...	76.9	76.5	76.3	76.3	76.3	76.2	76.8	76.9	77.4	77.6	77.7	77.5	77.6	77.0	77.1	77.4	76.9	76.8	76.8	76.0	76.7	76.4	75.8	75.8	76.8	147.4
„ 3,...	75.9	76.3	76.3	76.0	75.9	75.8	77.0	77.4	77.5	78.0	78.7	77.0	79.0	78.7	77.6	77.8	77.0	76.6	76.7	76.5	76.5	76.8	76.7	76.7	77.0	147.0
„ 4,...	75.9	76.1	76.0	75.9	76.0	76.0	77.6	79.0	78.5	78.8	78.1	79.0	78.0	78.9	78.8	78.2	77.0	78.0	77.2	77.6	77.2	77.4	77.1	77.0	77.5	142.4
„ 5,...	76.9	77.1	76.2	77.1	75.9	76.2	76.4	77.2	76.7	76.9	78.0	77.5	77.5	77.4	77.6	77.0	76.9	76.9	76.9	76.9	77.1	76.9	76.9	76.9	77.0	143.1
„ 6,...	77.1	76.8	76.8	76.8	76.8	76.7	76.8	77.8	78.3	77.3	77.8	78.3	78.6	77.4	77.0	77.6	76.4	75.9	76.0	74.8	75.5	76.1	76.2	76.0	76.9	143.1
„ 7,...	75.8	75.8	75.6	75.6	74.9	75.2	75.4	76.8	76.9	77.0	76.7	77.2	77.2	77.5	76.5	76.2	76.0	75.9	75.9	76.0	76.3	76.7	76.7	76.1	76.2	140.7
„ 8,...	75.9	76.1	75.8	75.8	75.8	76.0	75.7	76.7	77.0	77.0	77.2	77.8	77.8	77.2	77.1	76.9	76.0	75.8	76.0	76.4	76.1	76.0	76.3	76.1	76.4	144.7
„ 9,...	75.9	75.7	75.4	75.2	74.7	75.2	75.8	76.7	78.0	77.1	76.7	77.8	76.8	76.7	77.8	77.3	76.2	76.9	76.3	77.0	76.3	76.3	75.1	75.3	76.3	146.2
„ 10,...	75.0	75.0	75.5	73.0	70.4	70.0	70.0	72.5	73.2	73.3	74.2	75.0	75.8	77.7	76.8	76.9	76.8	74.9	74.9	74.7	72.9	71.9	71.0	70.0	73.8	140.5
„ 11,...	69.8	69.7	68.6	69.2	68.3	68.3	68.5	70.0	70.8	71.7	72.6	73.1	73.8	73.4	73.9	73.7	72.8	72.7	72.8	71.9	69.1	68.9	69.1	68.5	70.9	141.7
„ 12,...	68.3	68.8	68.3	68.3	68.0	67.4	67.7	68.1	69.3	70.4	70.1	72.4	73.1	75.0	72.6	71.9	71.3	70.1	70.4	69.8	69.9	70.3	70.0	70.3	70.1	142.2
„ 13,...	69.9	69.8	69.7	69.5	69.4	69.2	69.6	70.5	72.0	72.3	75.3	75.4	75.8	76.4	76.8	75.0	75.7	74.3	72.8	72.9	72.4	71.8	71.5	71.3	72.5	152.0
„ 14,...	71.2	71.2	70.8	70.6	70.3	69.9	70.8	70.7	71.7	72.6	73.7	74.6	74.3	75.0	75.6	74.0	73.7	73.4	73.8	73.0	72.8	72.8	72.1	72.0	72.5	155.8
„ 15,...	72.0	71.2	71.1	70.8	71.2	71.2	71.8	72.7	72.2	72.9	73.1	72.8	72.7	73.0	72.9	73.4	73.4	73.3	73.5	73.2	73.1	72.9	72.3	72.3	72.5	100.8
„ 16,...	72.2	72.0	71.9	72.0	71.9	71.8	72.1	71.7	71.4	71.4	71.5	71.3	71.6	71.4	71.1	70.9	70.9	71.7	71.7	71.1	71.2	72.1	72.0	72.2	71.6	84.6
„ 17,...	71.8	72.4	72.0	72.2	72.7	72.8	73.9	74.9	75.8	75.8	76.4	77.7	76.6	76.6	77.2	77.4	75.5	76.5	76.5	75.9	76.1	76.0	75.8	75.5	75.2	146.6
„ 18,...	75.7	75.6	75.4	75.5	75.3	75.2	76.5	76.6	76.4	77.1	76.8	79.3	78.5	78.4	78.2	77.8	76.6	76.0	76.0	76.0	76.5	76.0	76.0	76.0	76.6	145.6
„ 19,...	75.7	75.0	75.0	74.8	74.8	75.4	76.8	78.5	76.9	78.0	78.2	77.1	77.8	77.4	75.9	76.8	76.7	75.9	75.9	76.7	76.0	76.5	75.5	75.1	76.3	141.4
„ 20,...	75.2	75.0	74.9	74.7	73.6	74.1	74.8	75.0	75.0	76.2	76.5	76.5	76.4	76.0	76.8	76.6	76.7	76.0	76.4	76.5	77.0	76.9	77.0	77.3	75.9	144.2
„ 21,...	77.1	77.4	77.3	77.4	78.0	75.4	77.9	78.3	78.2	78.2	79.0	78.6	78.7	78.4	78.4	77.9	77.8	77.3	77.7	77.7	77.5	76.9	76.0	76.1	77.6	143.2
„ 22,...	75.8	75.0	74.8	74.8	74.7	74.4	73.8	74.0	74.0	73.6	73.3	73.4	73.6	73.2	73.0	73.1	72.9	73.0	72.9	73.2	73.2	73.3	73.2	73.1	73.7	91.3
„ 23,...	72.8	72.4	72.2	72.0	72.0	72.0	71.7	72.2	72.2	72.5	72.9	72.6	73.5	73.4	74.2	74.0	73.6	73.9	74.0	73.9	74.0	73.9	73.0	72.3	73.0	138.4
„ 24,...	72.0	71.7	70.7	70.6	69.7	69.0	69.1	71.3	71.0	72.2	70.5	72.0	73.1	71.3	72.5	73.8	72.9	70.8	70.0	69.4	68.8	68.5	68.0	67.7	70.7	143.2
„ 25,...	67.7	68.0	69.5	69.7	69.4	69.8	69.7	70.1	71.0	71.7	72.6	73.4	73.6	73.1	73.8	73.8	72.9	72.7	72.9	73.1	73.1	73.3	73.3	73.5	71.7	126.5
„ 26,...	73.2	73.4	73.5	73.7	73.8	73.6	73.5	73.7	73.6	73.8	74.0	74.1	74.0	73.9	74.7	74.8	74.8	75.1	74.9	75.9	75.8	75.9	75.9	76.4	74.4	85.8
„ 27,...	76.7	76.7	75.9	76.3	76.6	76.7	76.9	77.2	77.6	77.8	78.4	77.7	77.7	77.3	77.0	77.1	77.4	77.3	77.0	77.0	77.2	77.1	76.9	76.4	77.1	140.2
„ 28,...	76.6	75.8	75.8	75.3	74.9	75.3	76.6	76.8	76.5	77.0	76.4	77.7	76.8	77.0	77.2	77.0	76.7	76.6	76.5	76.3	75.9	75.8	75.6	74.9	76.3	145.0
„ 29,...	74.5	74.5	73.7	70.2	69.6	68.3	67.3	66.0	65.5	66.8	67.0	66.9	67.0	66.4	66.0	64.9	65.2	64.9	64.8	64.4	63.7	64.6	65.1	65.3	67.2	114.9
„ 30,...	65.0	64.7	64.5	64.4	63.7	63.0	62.4	64.7	66.4	65.0	66.1	66.6	66.8	67.6	66.4	67.3	67.9	65.2	65.0	64.9	65.1	65.0	64.9	64.7	65.3	134.7
„ 31,...	63.7	63.4	63.5	63.1	61.9	61.2	60.9	61.0	62.6	63.9	65.4	64.7	66.7	67.3	66.6	66.4	65.8	65.1	64.9	63.8	62.9	63.8	63.9	63.3	64.0	141.1
Hourly Mean ...	73.5	73.4	73.2	73.0	72.6	72.4	72.9	73.6	73.9	74.2	74.6	74.9	75.1	75.1	75.0	74.9	74.4	74.1	74.0	73.8	73.6	73.7	73.4	73.3	73.9	135.3

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF OCTOBER, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	82	0.778	Oct. 1,.....	88	0.876
2 „	83	.778	„ 2,.....	84	0.872
3 „	83	.772	„ 3,.....	83	0.876
4 „	82	.765	„ 4,.....	83	0.889
5 „	82	.753	„ 5,.....	80	0.864
6 „	81	.747	„ 6,.....	82	0.868
7 „	80	.756	„ 7,.....	80	0.843
8 „	78	.766	„ 8,.....	78	0.843
9 „	74	.762	„ 9,.....	78	0.838
10 „	72	.764	„ 10,.....	71	0.741
11 „	71	.771	„ 11,.....	59	0.623
Noon.	71	.779	„ 12,.....	58	0.604
1 p	73	.789	„ 13,.....	64	0.684
2 „	72	.787	„ 14,.....	62	0.677
3 „	73	.786	„ 15,.....	71	0.710
4 „	75	.794	„ 16,.....	90	0.749
5 „	76	.783	„ 17,.....	84	0.828
6 „	78	.783	„ 18,.....	86	0.873
7 „	79	.781	„ 19,.....	82	0.854
8 „	79	.775	„ 20,.....	79	0.832
9 „	78	.769	„ 21,.....	85	0.901
10 „	80	.775	„ 22,.....	85	0.790
11 „	80	.769	„ 23,.....	82	0.760
Midt.	81	.770	„ 24,.....	71	0.665
			„ 25,.....	80	0.721
			„ 26,.....	93	0.834
			„ 27,.....	86	0.888
			„ 28,.....	82	0.853
			„ 29,.....	76	0.602
			„ 30,.....	65	0.523
			„ 31,.....	57	0.472
Mean,.....	78	0.773	Mean.	78	0.773

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
Oct. 1,.....	...	...	...	0.1	0.1	0.2	...	0.3	0.7	0.9	1.0	0.1	...	3.4
„ 2,.....	...	0.3	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.7
„ 3,.....	...	0.6	1.0	1.0	1.0	1.0	0.8	1.0	0.9	1.0	1.0	0.8	...	10.1
„ 4,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.6
„ 5,.....	...	...	0.7	0.9	0.9	1.0	0.7	0.8	1.0	0.9	0.6	...	...	7.5
„ 6, ...	...	0.4	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.2
„ 7,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.4
„ 8,.....	...	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.9	...	9.5
„ 9,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	...	9.8
„ 10,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.6
„ 11,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.6
„ 12,.....	...	0.1	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	9.3
„ 13,.....	...	...	...	0.4	1.0	1.0	1.0	1.0	0.9	0.7	0.4	...	...	6.4
„ 14,.....	...	0.6	0.6	0.7	0.6	...	0.1	0.2	1.0	0.3	0.2	0.4	...	4.7
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	0.2	...	0.2	0.3	...	0.5	1.0	0.1	0.2	...	2.5
„ 18,.....	...	0.5	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.9
„ 19,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.2
„ 20,.....	...	...	...	...	0.7	0.8	0.4	0.4	0.7	...	0.1	...	...	3.1
„ 21,.....	...	0.1	0.3	0.2	0.9	0.7	0.5	0.5	0.9	0.4	0.2	...	...	4.7
„ 22,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,.....	...	...	...	...	0.2	0.1	...	0.3	...	...	...	...	...	0.6
„ 24,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.5
„ 25,.....	...	...	...	...	...	0.1	0.1	...	...	...	...	...	...	0.2
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,.....	...	...	0.2	...	0.2	1.0	1.0	1.0	0.7	0.4	0.1	0.5	...	5.1
„ 28,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	...	...	8.7
„ 29,.....	...	0.7	0.1	...	...	...	...	...	...	...	...	...	...	0.8
„ 30,.....	...	...	0.5	0.4	...	...	0.7	1.0	1.0	0.9	0.9	0.7	...	6.1
„ 31,.....	...	...	0.9	0.9	0.2	0.6	0.6	0.3	0.2	0.1	...	...	...	3.8
Sums,.....	...	8.5	16.4	17.7	18.7	19.7	19.2	19.8	21.5	19.5	16.7	11.3	...	189.0

TABLE VI.

RAINFALL FOR THE MONTH OF OCTOBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
Oct. 1,.....	0.170	0.005	0.020	0.250	0.015	0.165	0.015	0.015	0.010	0.040	0.150	...	...	...	...	...	...	...	...	...	...	...	...	...	0.855	6	0.20
„ 2,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,.....	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 4,.....	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...	...	...	...	...	...	...	...	...	...	0.010	...	...
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,.....	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	0.010	0.045	...	0.060	1	0.05
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	0.055	0.130	0.030	0.025	0.020	...	...	...	...	...	...	0.010	0.015	0.285	4	2.30
„ 16,.....	0.005	0.075	0.040	0.035	0.180	0.380	0.350	0.420	0.430	0.600	0.490	0.270	0.085	0.015	0.050	0.025	0.020	...	...	...	...	...	...	...	3.470	16	2.05
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 19,.....	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.090	0.080	0.005	...	0.175	2	0.60
„ 21,.....	...	...	...	...	0.010	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	0.045	...	0.060	3	0.55
„ 22,.....	0.010	...	...	...	0.020	0.005	0.030	0.010	...	...	...	...	...	...	...	0.005	0.005	...	...	0.010	0.035	0.005	0.005	...	0.140	13	0.41
„ 23,.....	0.015	0.005	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.030	4	...
„ 24,.....	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.055	0.185	0.005	0.010	...	0.015	...	...	0.270	8	0.95
„ 26,.....	0.005	0.005	0.055	0.005	0.005	0.035	0.015	0.015	0.020	0.025	0.120	0.135	0.255	0.185	0.110	0.245	0.190	0.220	0.185	0.310	0.485	0.135	0.025	0.055	2.840	24	2.04
„ 27,.....	0.330	0.070	0.040	0.015	0.025	0.005	...	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.500	7	...
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.10
Sums, ...	0.535	0.160	0.165	0.305	0.255	0.615	0.410	0.475	0.460	0.665	0.760	0.460	0.470	0.240	0.185	0.295	0.275	0.405	0.190	0.335	0.610	0.245	0.135	0.070	8.720	89	9.25

The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF OCTOBER, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
Oct. 1	8	9	8	2	4	5	12	8	3	5	9	10	5	7	6	12	8	16	7	8	6	10	8	21	9	24	9	24	8	21	8	18	7	16	7	16	7	14	7	15	8	18	8	19	9	19	8	15	332	13.8	8
" 2	8	14	7	12	7	10	6	9	6	11	7	11	7	12	8	16	7	16	7	14	8	16	8	16	9	18	9	19	10	18	10	15	9	14	9	10	8	7	11	5	11	3	11	2	...	0	...	1	269	11.2	8
" 3	11	4	11	3	11	5	11	2	...	0	...	0	...	0	11	2	11	3	11	3	11	2	10	2	11	6	10	11	8	9	9	8	9	7	15	3	7	5	8	4	12	3	12	5	12	2	9	2	91	3.8	10
" 4	...	1	6	2	...	1	11	4	...	1	...	1	12	3	7	4	8	6	8	10	9	15	9	13	9	14	9	15	10	16	9	17	10	15	10	15	10	14	9	18	9	19	8	19	8	18	8	18	259	10.8	9
" 5	8	16	8	20	8	19	9	23	8	23	8	20	8	23	9	23	8	25	8	25	8	23	7	21	7	21	7	25	7	20	6	21	7	19	7	18	7	15	8	18	9	16	8	15	8	16	9	17	482	20.1	8
" 6	9	20	8	18	8	15	7	13	6	16	6	15	7	13	7	15	7	14	8	15	9	18	10	19	10	21	10	17	10	17	11	15	11	14	11	11	11	6	11	2	11	4	11	6	...	1	...	1	306	12.7	9
" 7	5	2	...	1	...	0	...	1	...	1	...	0	...	0	5	2	10	4	10	8	11	13	11	14	10	19	10	17	9	16	10	14	10	14	10	11	11	9	7	7	10	8	9	7	11	8	7	7	183	7.6	10
" 8	6	3	6	5	7	8	7	8	7	9	4	10	4	10	5	11	7	13	7	16	8	17	7	16	9	19	10	19	10	15	10	14	10	12	7	12	7	13	7	13	8	13	7	11	6	8	6	10	285	11.9	8
" 9	5	6	5	5	4	5	3	6	3	10	6	13	6	11	5	9	7	11	6	11	9	18	10	17	10	18	10	21	10	18	10	14	10	15	9	15	9	15	8	11	7	12	3	10	9	15	10	3	289	12.0	8
" 10	2	2	...	1	2	3	32	10	1	12	2	8	32	6	32	5	2	7	32	5	22	7	23	9	22	11	23	13	21	12	23	13	26	9	29	9	29	6	29	3	30	4	31	8	32	13	32	12	188	7.8	28
" 11	1	7	22	5	27	5	18	3	32	6	28	4	32	8	31	7	26	10	28	7	32	8	28	10	29	10	29	10	31	12	30	11	30	10	30	7	31	8	32	9	1	18	31	13	30	9	31	13	210	8.8	30
" 12	28	6	17	4	32	7	31	8	28	7	32	6	28	7	27	6	27	6	31	11	31	16	31	19	32	23	32	20	32	18	32	18	31	18	32	14	31	14	1	9	2	9	2	7	1	12	4	7	272	11.3	31
" 13	31	6	2	6	1	4	32	5	31	6	30	3	31	8	28	6	30	6	29	9	32	11	30	10	24	11	27	13	26	15	26	17	25	14	32	10	32	7	31	5	32	2	1	8	32	6	31	7	195	8.1	29
" 14	32	6	25	5	30	6	29	6	31	9	32	9	31	5	1	6	32	10	31	11	30	8	32	9	30	15	31	16	29	13	31	8	28	8	25	8	30	6	32	10	32	15	32	14	32	11	31	11	225	9.4	31
" 15	30	11	30	13	30	16	28	16	27	14	30	14	30	15	30	16	30	16	30	18	30	20	30	16	30	18	29	24	29	31	29	27	29	30	30	34	30	32	30	33	29	32	29	37	29	41	28	39	563	23.5	29
" 16	28	43	27	45	27	48	26	48	26	49	25	61	25	57	24	53	24	57	24	50	24	43	24	39	24	34	23	26	22	22	23	20	25	17	27	9	25	9	28	8	28	4	23	2	21	3	...	1	748	31.2	25
" 17	...	0	...	0	...	0	...	0	...	0	...	0	...	1	...	0	18	2	18	3	25	5	26	7	26	5	25	3	23	6	24	2	20	3	18	6	17	6	17	2	17	3	...	0	...	0	...	0	54	2.2	22
" 18	...	1	...	0	...	0	...	0	...	0	...	1	17	3	17	2	10	5	9	9	9	10	8	5	8	9	8	13	8	9	9	7	11	4	10	6	12	4	12	4	12	2	...	1	...	0	...	1	96	4.0	9
" 19	...	0	...	1	...	1	...	0	10	2	...	1	10	3	10	2	10	8	10	8	10	8	9	8	9	14	9	16	10	13	10	15	10	13	10	8	10	8	9	6	8	13	9	12	9	14	7	11	185	7.7	9
" 20	7	7	7	9	5	8	5	8	4	5	6	9	7	14	7	17	7	18	8	23	8	27	7	26	7	25	7	23	7	25	6	26	7	33	7	36	6	35	6	33	7	30	6	27	7	29	6	28	521	21.7	7
" 21	7	29	7	26	8	28	7	25	9	30	6	22	8	28	8	27	8	26	8	26	7	25	8	23	9	25	9	26	9	25	8	23	8	19	8	25	8	26	8	28	9	29	9	27	8	29	9	43	640	26.7	8
" 22	8	36	7	37	7	37	7	36	6	32	6	31	6	34	6	34	7	33	7	34	7	33	7	31	7	36	7	34	7	29	7	29	7	28	7	26	7	25	8	25	7	23	6	18	6	16	6	13	710	29.6	7
" 23	6	14	5	10	5	11	6	9	4	15	4	16	5	15	5	19	6	19	5	23	6	29	7	29	7	29	7	23	7	19	7	17	6	18	7	13	7	12	5	11	5	12	4	8	2	5	2	5	381	15.9	6
" 24	2	4	2	4	1	10	1	13	32	11	32	4	32	6	32	4	2	6	31	10	3	11	6	11	9	9	2	13	6	11	1	10	32	8	1	12	1	15	1	18	1	16	1	9	32	3	30	5	223	9.3	2
" 25	1	6	1	11	5	21	5	23	5	18	4	23	4	24	5	25	4	24	6	33	6	36	7	34	6	29	6	23	7	27	7	25	7	29	7	30	7	40	7	39	6	35	6	34	7	36	6	33	658	27.4	6
" 26	7	36	7	34	6	30	6	29	6	32	7	34	6	36	7	33	7	31	7	33	7	34	7	31	7	29	7	28	8	26	9	24	7	26	7	26	6	26	10	26	10	26	10	29	9	23	9	24	706	29.4	7
" 27	10	25	10	23	10	21	10	21	11	17	12	17	12	15	13	16	13	15	13	16	14	21	14	16	15	12	15	12	15	11	14	10	15	8	15	10	15	9	14	9	15	6	16	8	16	7	18	5	330	13.8	13
" 28	17	6	17	2	17	4	17	6	21	4	...	1	...	0	20	3	26	6	18	8	20	9	21	9	18	12	19	12	18	11	20	9	19	11	27	9	27	5	27	6	27	7	27	6	27	8	27	8	162	6.7	21
" 29	27	9	29	3	30	8	32	18	32	12	1	10	1	9	2	13	2	23	1	17	32	16	32	20	32	20	32	15	32	19	32	21	32	16	32	19	1	18	1	17	1	17	1	13	3	15	3	10	358	14.9	1
" 30	4	9	2	9	32	8	32	7	32	15	32	14	32	12	32	12	32	10	1	7	4	5	7	8	9	8	6	6	4	6	30	5	31	6	32	8	32	5	32	8	32	5	1	9	2	6	1	11	199	8.3	1
" 31	32	18	32	15	1	9	1	15	32	22	32	27	32	21	32	24	1	17	1	10	4	15	4	16	6	13	4	10	3	9	2	9	32	9	32	7	32	7	1	14	32	18	1	16	1	19	1	15	355	14.8	1
Sums	...	356	...	331	...	353	...	380	...	394	...	395	...	406	...	424	...	463	...	481	...	529	...	525	...	557	...	547	...	519	...	482	...	463	...	443	...	421	...	416	...	422	...	400	...	392	...	376	10475	...	...
Hourly Means	...	11.5	...	10.7	...	11.4	...	12.3	...	12.7	...	12.7	...	13.1	...	13.7	...	14.9	...	15.5	...	17.1	...	16.9	...	18.0	...	17.6	...	16.7	...	15.5	...	14.9	...	14.3	...	13.6	...	13.4	...	13.6	...	12.9	...	12.6	...	12.1	...	14.1	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR OCTOBER, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	4.19	7.26	0.68	1.52	+3.51	+5.74	E 31° N
2 „	3.81	6.69	0.61	1.76	3.20	4.93	E 33° N
3 „	4.84	6.87	0.48	1.81	4.36	5.06	E 41° N
4 „	5.45	6.84	1.00	2.03	4.45	4.81	E 43° N
5 „	6.35	6.50	0.60	2.19	5.75	4.31	E 53° N
6 „	6.03	6.74	0.45	2.26	5.58	4.48	E 51° N
7 „	5.77	7.24	0.52	2.29	5.25	4.95	E 47° N
8 „	5.24	8.10	0.75	2.29	4.49	5.81	E 38° N
9 „	4.94	9.19	0.76	2.74	4.18	6.45	E 33° N
10 „	4.87	9.74	1.06	2.48	3.81	7.26	E 28° N
11 „	4.77	11.33	1.73	2.39	3.04	8.94	E 19° N
Noon.	4.39	11.35	1.65	2.65	2.74	8.70	E 17° N
1 p.	4.13	12.17	2.65	2.69	1.48	9.48	E 9° N
2 „	4.70	11.74	2.71	2.61	1.99	9.13	E 12° N
3 „	4.23	10.81	2.71	2.66	1.52	8.15	E 11° N
4 „	4.55	9.68	2.32	2.58	2.23	7.10	E 18° N
5 „	4.68	9.19	1.97	2.56	2.71	6.63	E 22° N
6 „	5.23	8.81	1.43	1.45	3.80	7.36	E 27° N
7 „	5.39	8.72	1.26	1.19	4.13	7.53	E 29° N
8 „	5.37	8.77	1.03	0.84	4.34	7.93	E 29° N
9 „	5.48	8.63	1.35	0.97	4.13	7.66	E 28° N
10 „	5.71	7.99	1.14	1.05	4.58	6.94	E 34° N
11 „	5.00	7.90	0.97	1.13	4.03	6.77	E 31° N
Midt.	5.08	7.58	0.74	1.39	+4.34	+6.19	E 35° N
Mean, ...	5.01	8.75	1.28	1.98	+3.73	+6.77	E 29° N

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
Oct. 1	28.24	28.17	28.17	75	75	74	77	73	ESE	4	ESE	3	E	4
„ 2	.22	.14	.13	75	76	75	77	73	E	4	E	2	E	2
„ 3	.16	.11	.13	76	77	76	78	74	E	2	E	1	E	1
„ 4	.19	.14	.17	76	78	76	79	74	E	1	E	3	E	4
„ 5	.21	.15	.15	76	76	74	76	74	E	4	E	5	E	4
„ 6	.20	.15	.17	77	78	75	79	72	E	4	E	4	E	3
„ 7	.21	.16	.17	77	78	74	79	73	ESE	3	ESE	4	ESE	4
„ 8	.22	.12	.14	75	77	74	78	73	E	4	E	4	E	4
„ 9	.19	.11	.14	77	79	74	79	73	E	4	E	3	E	3
„ 10	.17	.06	.10	76	79	75	79	73	ENE	3	NNE	3	NNE	5
„ 11	.08	.01	.01	75	77	73	78	72	NNE	3	NNE	4	NNE	5
„ 12	.00	27.93	27.93	72	76	72	76	68	N	5	N	5	N	6
„ 13	27.97	.91	.91	73	75	74	77	70	NE	3	NW	4	NW	4
„ 14	.97	.92	.93	74	76	73	77	71	N	4	N	5	N	6
„ 15	.94	.83	.80	72	71	72	73	70	N	6	N	6	N	7
„ 16	.84	.91	.96	68	69	70	73	67	WNW	8	W	5	W	4
„ 17	28.06	28.01	28.04	73	74	71	75	69	SW	4	SW	3	SW	2
„ 18	.09	.03	.06	75	76	74	78	71	SW	2	SW	3	SW	3
„ 19	.12	.05	.03	77	77	74	79	72	SW	2	SE	3	NE	5
„ 20	.09	.04	.03	74	75	74	78	72	E	5	E	5	E	6
„ 21	.11	.09	.12	75	75	73	76	73	E	5	E	4	E	6
„ 22	.15	.09	.10	71	70	70	73	69	E	6	E	5	E	5
„ 23	.12	.03	.10	69	71	69	72	69	E	3	E	4	E	4
„ 24	.14	.07	.10	72	73	70	75	68	ENE	3	ENE	3	ENE	4
„ 25	.13	.08	.10	69	70	69	75	68	E	6	E	6	E	6
„ 26	.12	.08	.08	70	70	69	73	69	E	5	E	5	E	5
„ 27	.15	.09	.08	73	73	73	74	73	S	5	SSW	4	S	4
„ 28	.13	.09	.11	74	74	72	75	72	SW	3	SW	4	S	4
„ 29	.17	.12	.15	68	65	63	74	63	NE	4	NNE	4	N	4
„ 30	.17	.09	.14	65	70	64	73	62	NE	4	ENE	2	ENE	4
„ 31	.12	.10	.14	66	67	64	68	60	ENE	3	ENE	4	ENE	4
Mean,	28.119	28.061	28.077	73.1	74.1	71.9	75.9	70.3	E 15° N	3.9	E 17° N	3.9	E 23° N	4.3

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
Oct. 1, ...	10	nim.	...	10	nim.	...	10	nim.	ESE	10	cum.	ESE
„ 2, ...	1	cum.	...	1	cum.	...	4	cum.	SE	4	c-cum. / cum.	E / ESE
„ 3, ...	0	...	...	0	...	...	1	cum.	...	2	cum.	NE
„ 4, ...	0	...	...	0	...	...	1	c-cum. / cum.	...	1	c-cum. / cum.	E / SE
„ 5, ...	8	cum.	E	4	cum.	E	3	cum.	ESE	7	cum.	ESE
„ 6, ...	2	cum.	E	8	cum.	E	1	cum.	E	2	cum.	E
„ 7, ...	2	cum.	E	0	...	...	1	cum.	...	1	cum.	...
„ 8, ...	3	cum.	E	3	cum.	E	8	cum.	E	4	cum.	E
„ 9, ...	2	cum.	E	4	cum.	E	1	cum.	...	2	cum.	ENE
„ 10, ...	5	cum.	NE	2	cum.	NE	0	...	...	0	...	...
„ 11, ...	0	...	...	0	...	...	0	...	...	1	c-cum.	...
„ 12, ...	9	c-str.	...	10	cum.	...	8	c-str.	S	7	c-str. / cum.	S / NE
„ 13, ...	10	cum.	...	10	cum.	...	10	sm-cum. / cum.	NNW	5	c-str. / cum.	N
„ 14, ...	10	cum.	...	10	cum.	...	1	cum.	...	7	sm-cum.	NNE
„ 15, ...	10	cum.	NE	10	cum.	NE	9	c-cum. / cum.	ENE	10	str-cum.	...
„ 16, ...	10	cum-nim.	NW	10	nim.	NW	10	nim.	WNW	10	nim.	W
„ 17, ...	10	cum.	...	10	cum.	...	9	sm-cum. / cum.	E / W	9	sm-cum. / cum.	E / W
„ 18, ...	2	cum.	...	8	cum.	...	1	sm-cum.	...	3	sm-cum. / cum.	WNW / SSE
„ 19, ...	0	...	...	0	...	...	0	...	...	1	cum.	SE
„ 20, ...	0	...	...	1	cum.	...	9	R-cum.	E	5	c-str. / sm-cum. / cum.	ESE / ESE / E
„ 21, ...	9	cum.	ESE	10	cum.	E	8	cum. / cum.	SE / E	9	cum. / cum.	SE / E
„ 22, ...	10	nim.	...	10	nim.	...	10	nim.	E	10	cum-nim.	E
„ 23, ...	10	nim.	...	10	nim.	...	10	cum-nim.	E	9	c-str. / sm-cum / cum.	N / SE / ENE
„ 24, ...	4	cum.	...	8	cum.	...	2	sm-cum.	E	1	sm-cum.	E
„ 25, ...	9	str-cum.	...	3	cum.	...	9	R-cum.	E	10	str-cum.	ENE
„ 26, ...	10	nim.	...	10	nim.	...	10	nim.	E	10	nim.	E
„ 27, ...	10	nim.	...	10	nim.	...	9	c-str. / sm-cum / cum.	NNW / S / SSE	9	sm-cum. / cum.	S
„ 28, ...	3	cum.	...	1	cum.	...	1	c-str. / cum.	...	1	cum.	WSW
„ 29, ...	8	cum.	...	10	cum.	...	9	sm-cum.	N	10	str-cum.	E
„ 30, ...	10	str-cum.	...	10	str-cum.	...	10	R-cum.	NE	10	cum.	NE
„ 31, ...	2	c-str. / str.	...	9	sm-cum.	...	8	sm-cum.	E	9	sm-cum.	E
Mean, ...	5.8	...	...	6.2	...	...	5.6	...	...	5.8	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
Oct. 1,...	10	cum.	ESE	6	cum.	ESE	2	cum.	ESE	2	cum.	ESE	7.5
„ 2,...	5	c-str. / cum.	E / ESE	2	c-cum.	E	1	cum.	E	0	...	...	2.2
„ 3,...	2	cum.	NE	1	cum.	...	0	...	...	0	...	...	0.8
„ 4,...	1	cum.	SE	1	c-cum. / cum.	E / SE	2	c-str. / cum.	ESE	2	cum.	E	1.0
„ 5,...	8	cum.	ESE	7	c-cum. / cum.	SE / E	1	cum.	E	2	cum.	E	5.0
„ 6,...	2	cum.	E	0	...	...	0	...	...	0	...	...	1.9
„ 7,...	1	cum.	...	0	...	...	1	cum.	E	7	cum.	ESE	1.6
„ 8,...	1	cum.	E	1	cum.	E	0	...	...	1	cum.	E	2.6
„ 9,...	1	cum.	...	1	cum.	...	4	cum.	ENE	10	nim.	NE	3.1
„ 10,...	1	cum.	...	0	...	...	0	...	...	0	...	...	1.0
„ 11,...	1	c-cum.	...	4	c-cum.	...	1	c-str.	...	4	c-str.	...	1.4
„ 12,...	5	c-str.	ESE	3	c-str. / sm-cum.	SE / NNW	9	c-str. / cum.	NE	10	cum-nim.	NE	7.6
„ 13,...	7	c-cum. / sm-cum.	N / N	8	c-str. / R-cum.	N / NNE	10	cum-nim.	...	10	cum.	...	8.8
„ 14,...	8	sm-cum. / cum.	NNE / NNE	8	sm-cum.	NNE	8	cum.	NNE	10	cum.	N	7.7
„ 15,...	10	nim.	...	10	str. / cum-nim.	ENE	10	cum-nim.	...	10	nim.	...	9.9
„ 16,...	10	nim.	W	10	nim.	W	10	cum-nim.	...	10	cum-nim.	...	10.0
„ 17,...	8	sm-cum. / cum.	E / W	7	sm-cum. / cum.	N / W	6	str-cum.	...	2	cum.	WSW	7.6
„ 18,...	2	cum.	SSE	2	cum.	...	0	...	...	0	...	...	2.2
„ 19,...	1	cum.	SE	0	...	...	0	...	...	0	...	...	0.3
„ 20,...	9	sm-cum. / cum.	ESE / E	8	sm-cum. / cum.	ESE / E	9	cum-nim.	E	10	nim.	ESE	6.4
„ 21,...	9	cum. / cum.	SE / E	8	cum. / cum.	SE / E	8	cum.	E	10	cum-nim.	E	8.9
„ 22,...	10	cum-nim.	E	10	nim.	E	10	nim.	...	10	nim.	...	10.0
„ 23,...	7	sm-cum. / cum.	SE / ENE	10	cum.	ENE	10	str-cum.	...	10	cum-nim.	ENE	9.5
„ 24,...	1	sm-cum. / cum.	ESE / NNE	0	...	...	9	cum.	E	1	cum.	NE	3.2
„ 25,...	10	str-cum.	ENE	10	nim.	ENE	10	nim.	...	10	nim.	...	8.9
„ 26,...	10	nim.	E	10	nim.	E	10	nim.	...	10	nim.	...	10.0
„ 27,...	8	cum.	S	8	cum.	S	7	cum.	SSE	10	cum-nim.	SSE	8.9
„ 28,...	1	cum.	WSW	7	c-cum. / cum.	W / W	8	c-str. / cum.	W / WSW	1	c-str.	W	2.9
„ 29,...	10	str-cum.	ENE	10	str-cum.	NE	10	cum-nim.	...	10	str-cum.	...	9.6
„ 30,...	1	c-cum.	...	1	c-cum.	...	1	c-str.	...	10	c-str. / cum.	...	6.6
„ 31,...	9	c-cum. / sm-cum.	E	10	R-cum.	E	10	str.	...	10	str-cum.	E	8.4
Mean,...	5.5	...	...	5.3	...	...	5.4	...	...	5.9	...	...	5.7

HONGKONG OBSERVATORY.

Weather Report for November, 1889.

In the *China Coast Meteorlogical Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Solar halo: on the 5th.

Lunar halo: on the 3rd, 4th and 5th.

Lunar corona: on the 2nd, 3rd, 6th, 7th, 8th, 11th and 28th.

Haze: on the 3rd and 18th.

Slight Fog: on the 18th, 19th, 26th and 27th.

Dew: on the 17th and 18th.

The Total Distance traversed by, as well as the duration and average velocity of the wind from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	3805	256	14.9
NE	1572	123	12.8
E	4819	271	17.8
SE	278	33	8.7
S	4	1	4.0
SW	11	2	5.5
W	85	11	7.7
NW	30	6	5.0
Calm	11	17	0.6

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF NOVEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
Nov. 1,...	29.876	29.875	29.880	29.886	29.909	29.936	29.951	29.962	29.970	29.971	29.953	29.932	29.914	29.909	29.910	29.913	29.932	29.943	29.968	29.985	29.981	29.967	29.947	29.943	29.934
„ 2,...	.934	.913	.918	.922	.936	.951	.962	.972	.976	.974	.955	.941	.911	.895	.895	.878	.881	.892	.905	.915	.918	.923	.921	.924	.926
„ 3,...	.912	.905	.895	.889	.898	.919	.939	.955	.970	.971	.953	.918	.897	.867	.866	.860	.863	.869	.897	.906	.912	.908	.909	.905	.908
„ 4,...	.886	.881	.866	.857	.862	.865	.872	.887	.910	.920	.898	.883	.867	.840	.833	.819	.822	.835	.846	.867	.882	.883	.886	.867	.868
„ 5,...	.838	.821	.824	.833	.834	.836	.857	.871	.894	.890	.875	.828	.800	.792	.785	.787	.801	.812	.827	.847	.841	.841	.842	.823	.833
„ 6,...	.815	.810	.813	.802	*.815	*.831	*.849	.872	.888	.881	.860	.831	.797	.775	.755	.763	.781	.802	.811	.834	.830	.837	.825	.811	.820
„ 7,...	.797	.782	.778	.793	.800	.822	.834	.844	.861	.862	.849	.825	.798	.768	.753	.750	.764	.761	.779	.788	.796	.812	.808	.807	.801
„ 8,...	.791	.785	.771	.761	.780	.791	.822	.838	.860	.862	.846	.836	.802	.779	.776	.774	.793	.801	.823	.847	.861	.862	.862	.851	.816
„ 9,...	.845	.835	.819	.812	.817	.843	.865	.887	.900	.898	.877	.860	.820	.795	.787	.787	.799	.817	.833	.840	.854	.866	.869	.872	.842
„ 10,...	.873	.867	.867	.868	.878	.906	.932	.943	.952	.952	.943	.920	.897	.878	.864	.862	.874	.882	.921	.945	.953	.965	.969	.972	.912
„ 11,...	.970	.963	.965	.975	.987	30.011	30.039	30.063	30.083	30.080	30.069	30.052	30.027	30.009	30.005	30.007	30.022	30.041	30.062	30.088	30.097	30.102	30.112	30.109	30.039
„ 12,...	30.101	30.101	30.098	30.095	30.105	.131	.157	.192	.212	.212	.184	.159	.141	.126	.112	.111	.117	.138	.167	.186	.194	.202	.204	.192	.152
„ 13,...	.184	.181	.176	.177	.184	.213	.225	.249	.270	.273	.232	.199	.179	.161	.146	.140	.150	.165	.186	.199	.207	.217	.217	.206	.197
„ 14,...	.192	.185	.186	.194	.193	.210	.233	.256	.270	.277	.258	.236	.201	.176	.165	.168	.180	.192	.203	.216	.220	.219	.217	.217	.211
„ 15,...	.217	.212	.219	.221	.231	.245	.258	.274	.282	.269	.246	.220	.184	.162	.156	.162	.178	.188	.206	.212	.214	.211	.204	.201	.216
„ 16,...	.193	.190	.175	.174	.174	.177	.187	.197	.206	.201	.176	.154	.115	.096	.082	.084	.087	.102	.117	.125	.126	.120	.113	.100	.145
„ 17,...	.092	.075	.064	.055	.051	.060	.066	.071	.085	.081	.061	.037	.000	29.973	29.955	29.952	29.960	29.971	29.982	.005	.012	.019	.019	.013	.027
„ 18,...	29.995	29.983	29.970	29.969	29.974	29.985	29.997	.012	.018	.007	29.983	29.947	29.909	.886	.873	.874	.878	.882	.897	29.913	29.928	29.926	29.912	29.911	29.943
„ 19,...	.901	.883	.866	.869	.882	.903	.927	29.942	29.963	29.953	.925	.889	.857	.842	.822	.828	.842	.853	.867	.891	.898	.907	.898	.878	.887
„ 20,...	.867	.847	.832	.833	.847	.862	.878	.899	.906	.910	.896	.867	.836	.814	.803	.808	.816	.834	.848	.865	.870	.883	.877	.877	.857
„ 21,...	.880	.869	.872	.877	.878	.881	.901	.911	.931	.924	.900	.874	.844	.834	.823	.818	.833	.834	.846	.861	.864	.870	.869	.864	.869
„ 22,...	.856	.851	.841	.837	.847	.863	.873	.881	.897	.899	.892	.874	.839	.826	.815	.815	.821	.830	.839	.853	.864	.862	.851	.840	.853
„ 23,...	.832	.816	.813	.808	.818	.819	.836	.857	.877	.882	.865	.841	.818	.800	.794	.799	.810	.818	.837	.854	.854	.858	.852	.852	.834
„ 24,...	.842	.841	.831	.835	.846	.854	.866	.879	.894	.902	.892	.866	.827	.805	.796	.798	.811	.812	.829	.834	.842	.847	.843	.836	.843
„ 25,...	.830	.819	.804	.804	.799	.810	.830	.851	.865	.868	.851	.819	.790	.776	.772	.775	.787	.793	.800	.823	.841	.855	.863	.868	.821
„ 26,...	.868	.866	.858	.859	.864	.883	.900	.904	.917	.915	.898	.877	.852	.835	.830	.832	.850	.871	.899	.915	.936	.950	.963	.971	.888
„ 27,...	.979	.974	.972	.972	.979	.998	30.019	30.035	30.049	30.046	30.029	30.004	.969	.933	.924	.930	.942	.946	.964	.978	.974	.982	.984	.984	.982
„ 28,...	.979	.967	.964	.952	.958	.972	29.984	29.993	.006	.001	29.986	29.952	.914	†.885	.888	.893	.904	.908	.922	.934	.945	.945	.939	.934	.947
„ 29,...	.922	.905	.892	.883	.890	.899	.906	.920	29.937	29.940	.930	.907	.875	.854	.838	.840	.847	.856	.866	.879	.900	.903	.890	.880	.890
„ 30,...	.859	.848	.837	.839	.858	.875	.893	.913	.926	.932	.929	.906	.860	.834	.820	.817	.821	.836	.857	.869	.871	.877	.883	.888	.869
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	29.938	29.928	29.922	29.922	29.930	29.945	29.962	29.978	29.992	29.992	29.974	29.948	29.918	29.898	29.888	29.888	29.899	29.909	29.927	29.942	29.950	29.954	29.952	29.947	29.938

* Interpolated. † Approximate Reading.

TABLE II.

TEMPERATURE FOR THE MONTH OF NOVEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
Nov. 1,	72.9	71.7	69.6	68.3	66.2	65.4	64.8	66.3	67.7	69.6	69.6	70.3	70.8	70.2	70.5	71.2	69.3	70.6	71.0	70.7	69.5	69.8	70.9	71.9	69.5	74.3	64.6
" 2,	70.6	69.7	71.5	71.5	70.1	68.3	70.8	71.6	72.4	72.8	74.0	74.1	75.1	74.7	73.7	72.7	72.8	71.1	70.6	70.2	70.2	70.1	70.4	69.3	71.6	75.7	68.1
" 3,	69.3	69.1	68.4	68.3	66.6	66.3	68.2	72.8	73.7	75.4	76.5	77.8	76.8	76.5	75.4	74.6	73.9	73.0	73.0	72.6	72.2	71.0	71.0	71.4	72.2	79.3	65.6
" 4,	71.4	71.5	70.7	71.1	70.4	70.5	71.2	71.4	73.8	77.0	78.7	79.2	78.9	80.2	79.7	78.8	76.1	74.8	74.3	73.7	72.5	71.8	71.4	70.9	74.2	81.4	69.5
" 5,	70.6	69.4	69.0	67.5	67.4	67.6	67.3	68.9	70.2	71.6	73.1	74.2	75.2	72.8	73.5	72.4	71.0	69.9	68.8	68.7	67.1	67.0	66.8	66.7	69.9	75.8	66.1
" 6,	66.4	66.3	65.6	65.5	65.5	65.4	65.7	68.6	70.6	70.7	71.7	74.1	77.3	74.7	74.3	73.8	71.6	70.1	69.0	70.7	71.7	72.7	72.2	72.0	70.3	78.3	65.0
" 7,	71.5	71.2	72.0	71.0	70.3	70.0	69.8	70.3	70.8	71.3	72.4	72.4	74.0	73.2	72.8	73.4	73.1	74.1	73.9	74.0	73.7	73.9	73.5	73.3	72.3	74.7	69.7
" 8,	73.5	73.5	73.5	73.4	73.5	73.8	73.9	74.1	75.0	76.9	77.6	77.0	76.5	77.2	77.0	76.0	75.1	74.8	74.3	73.9	73.9	73.8	73.1	72.9	74.8	78.0	72.9
" 9,	72.8	72.2	72.0	72.2	72.0	71.5	72.0	74.0	75.5	76.7	77.7	78.6	79.2	81.1	80.2	78.2	75.8	73.9	73.8	72.0	71.8	70.7	68.9	67.8	74.2	81.3	67.8
" 10,	67.4	67.3	67.3	67.0	66.4	66.1	65.8	66.5	70.0	71.1	70.2	72.0	73.3	74.4	72.9	71.6	70.4	67.7	67.8	66.7	66.7	65.3	64.4	64.0	68.4	76.7	64.0
" 11,	63.1	62.3	62.2	61.3	61.3	60.8	61.9	63.5	66.6	67.9	68.7	68.2	68.9	69.9	68.8	68.6	66.1	64.5	63.9	62.3	61.8	61.1	60.8	60.5	64.4	71.1	60.1
" 12,	60.5	60.0	59.9	60.1	59.5	59.3	59.3	59.7	62.3	63.7	63.0	66.8	67.0	64.9	64.4	63.8	62.6	62.0	62.0	61.1	60.5	61.2	60.2	60.5	61.8	68.5	59.1
" 13,	60.4	60.4	60.3	60.3	60.0	59.8	60.0	59.7	60.0	61.8	65.0	63.5	64.8	66.2	67.7	66.8	65.8	63.1	63.2	63.2	62.8	61.8	60.9	60.2	62.4	68.8	59.2
" 14,	59.9	59.5	59.1	58.2	57.5	57.6	58.3	60.5	62.9	64.0	65.9	66.7	67.8	67.5	67.5	67.2	66.1	63.9	64.2	62.0	61.9	61.9	61.5	61.6	62.6	70.5	57.4
" 15,	60.8	59.5	58.4	57.0	56.2	56.0	59.8	65.2	65.3	65.6	67.1	68.9	68.7	70.1	69.6	69.8	67.9	65.7	65.6	65.0	64.9	65.8	66.5	66.1	64.4	72.1	55.8
" 16,	64.2	62.8	63.6	61.5	60.7	60.4	62.6	65.2	69.3	69.7	68.4	69.8	69.9	69.3	68.6	68.0	66.9	66.7	65.8	65.6	66.2	67.0	67.0	66.6	66.1	71.2	59.7
" 17,	65.9	64.4	63.3	63.3	63.1	62.9	63.5	67.4	69.9	73.1	70.0	70.1	72.3	71.4	72.9	71.8	68.8	66.8	65.8	65.9	65.0	64.9	65.0	64.1	67.1	73.8	62.5
" 18,	63.5	63.9	63.4	63.5	63.3	62.8	64.5	67.6	69.9	71.3	71.3	73.6	73.7	72.5	71.7	71.2	69.1	67.3	65.9	65.8	65.9	64.8	64.7	65.0	67.3	74.4	62.0
" 19,	65.9	66.2	66.4	66.3	66.0	65.9	66.3	69.5	69.9	70.9	70.6	72.4	72.2	72.3	72.7	71.2	69.5	68.4	67.8	67.7	67.1	67.0	66.8	66.0	68.5	73.5	65.0
" 20,	66.1	66.2	66.4	65.9	65.9	66.0	67.2	69.4	71.4	72.3	74.0	72.5	72.7	72.5	72.0	70.8	69.4	68.7	68.3	68.0	68.0	68.1	68.0	67.9	69.1	74.6	65.8
" 21,	68.0	67.8	67.9	67.9	67.9	68.1	69.8	71.7	73.7	73.8	73.9	74.2	72.9	73.1	71.8	71.2	70.3	70.0	69.8	70.0	69.9	69.7	69.7	69.7	70.5	74.8	67.7
" 22,	69.3	69.0	69.1	69.1	69.2	69.8	70.7	70.1	69.2	69.9	69.8	69.2	68.8	68.0	67.8	67.8	68.0	67.8	67.8	68.0	67.8	68.0	68.5	68.3	68.8	70.7	67.2
" 23,	68.6	68.1	68.1	68.1	67.9	67.8	67.9	68.1	69.1	69.8	69.9	70.2	69.8	69.2	68.9	68.3	68.7	68.7	69.3	69.0	69.6	68.9	68.8	68.7	68.8	70.3	67.2
" 24,	68.2	68.0	68.1	68.0	67.8	67.4	68.7	68.3	69.3	69.4	70.1	69.1	69.8	70.0	69.7	69.9	69.0	69.7	69.8	69.8	69.9	69.9	69.9	69.8	69.2	70.3	67.0
" 25,	69.7	69.6	69.5	69.3	69.1	68.8	69.3	70.1	71.2	71.1	72.0	74.1	74.2	74.1	72.7	72.1	72.0	72.0	71.9	71.8	70.8	70.8	70.0	70.0	71.1	75.1	68.5
" 26,	70.6	70.8	71.1	70.8	71.2	71.8	71.8	72.7	76.7	77.9	79.7	78.7	77.9	77.3	77.3	76.8	75.7	75.0	74.8	72.4	72.2	69.8	67.6	66.2	73.6	80.4	66.2
" 27,	65.0	64.0	63.9	62.9	63.1	62.3	61.9	63.7	65.6	66.5	65.6	66.3	68.0	68.6	67.7	67.3	66.6	66.2	67.0	66.5	67.0	67.0	67.4	66.1	65.7	70.5	61.1
" 28,	66.3	66.3	66.2	65.9	65.2	65.0	64.5	66.0	67.2	68.5	69.8	70.2	70.0	70.2	69.3	68.8	68.2	68.1	68.1	68.2	68.5	68.8	68.5	68.4	67.8	71.9	64.2
" 29,	68.4	68.4	68.6	69.3	69.5	69.8	70.5	72.0	73.5	73.4	72.4	73.0	73.3	73.5	73.4	72.8	72.0	69.8	68.9	69.1	69.0	69.2	69.2	69.1	70.8	73.9	67.9
" 30,	69.1	68.7	68.0	67.2	66.6	64.8	64.8	65.0	65.5	66.9	66.7	66.7	67.6	68.5	67.3	67.0	65.1	64.9	64.4	64.3	64.5	64.8	64.9	63.3	66.1	69.9	63.1
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means,	67.3	66.9	66.8	66.4	66.0	65.7	66.4	68.0	69.6	70.7	71.2	71.8	72.2	72.1	71.7	71.1	69.9	69.0	68.7	68.3	68.1	67.9	67.6	67.3	68.8	74.1	64.7

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF NOVEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
Nov. 1,...	62.8	61.9	61.7	60.9	62.0	60.2	61.1	62.0	62.1	62.8	62.4	63.3	63.2	62.9	62.6	60.9	61.6	58.9	58.3	58.3	59.5	59.3	59.4	58.8	61.1	93.5
„ 2,...	58.6	59.3	59.2	60.1	59.7	59.1	58.8	59.4	60.1	60.8	61.7	61.7	61.8	63.2	62.2	62.5	61.9	61.5	60.8	61.2	60.5	61.8	62.3	62.2	60.8	120.3
„ 3,...	62.7	62.6	62.4	62.2	61.7	60.6	60.8	63.2	64.1	65.3	65.4	66.7	67.0	67.1	67.0	67.6	67.2	67.5	67.8	67.8	67.7	67.9	67.5	68.3	65.3	135.1
„ 4,...	67.5	67.0	67.0	63.9	63.2	62.8	63.0	62.6	63.9	66.6	67.7	67.5	68.4	68.5	68.2	67.8	66.5	65.7	64.8	63.4	62.9	63.0	62.4	62.1	65.3	138.2
„ 5,...	61.4	61.2	60.3	60.1	60.1	60.0	59.7	60.7	61.2	62.2	63.1	64.0	65.8	63.2	63.9	63.2	62.7	61.5	61.1	60.7	60.2	60.2	59.8	59.6	61.5	135.0
„ 6,...	59.4	59.2	58.9	58.8	58.6	58.5	58.5	60.1	61.7	61.6	62.8	63.4	66.0	64.8	64.8	65.2	64.2	64.2	63.9	64.1	65.0	65.1	65.3	65.4	62.5	141.9
„ 7,...	65.3	65.5	66.1	65.4	65.4	65.2	64.8	65.1	65.3	66.0	66.3	66.1	66.8	67.0	67.0	68.0	67.4	67.7	69.1	68.1	69.8	68.8	68.3	68.1	66.8	120.1
„ 8,...	67.3	67.1	67.0	67.0	67.7	66.7	67.0	67.1	67.8	68.9	68.8	68.9	68.6	69.2	69.8	69.2	68.8	68.1	68.8	69.0	69.7	68.5	68.8	69.2	68.3	145.2
„ 9,...	69.1	68.4	67.6	67.6	67.6	67.9	66.9	66.7	67.1	67.3	67.7	68.0	68.6	69.5	69.1	68.2	66.6	65.9	65.0	64.0	63.9	63.7	62.7	62.3	66.7	143.0
„ 10,...	62.3	62.3	62.5	61.7	60.8	60.7	60.4	60.4	62.0	63.4	62.0	63.4	64.5	65.1	63.9	62.5	60.8	59.4	59.5	58.9	57.8	57.0	58.1	56.9	61.1	135.1
„ 11,...	56.9	57.0	56.4	55.7	55.5	55.4	55.4	56.6	57.2	57.6	58.9	58.3	58.4	59.2	57.9	58.2	56.3	56.3	54.5	55.0	54.8	54.9	55.3	54.8	56.5	137.7
„ 12,...	54.4	53.8	52.9	52.6	52.0	51.8	50.9	50.7	52.6	53.1	52.0	55.7	54.9	53.8	53.9	54.0	54.2	54.4	53.8	53.9	53.3	53.2	52.6	52.2	53.2	140.2
„ 13,...	51.9	51.6	51.1	51.5	50.7	51.1	50.0	49.7	49.6	50.7	52.5	51.7	52.2	53.9	54.5	54.2	53.2	51.5	51.0	50.2	50.2	49.4	48.8	49.4	51.3	125.8
„ 14,...	49.0	48.3	48.1	47.4	47.8	48.1	46.1	47.2	*48.1	49.1	50.7	51.1	52.6	52.7	51.9	52.2	52.6	51.6	53.2	51.7	51.8	52.6	53.5	51.4	50.4	131.9
„ 15,...	52.1	51.3	50.8	50.0	48.8	47.4	47.9	52.1	51.1	52.1	53.2	54.4	54.0	55.6	54.3	54.0	53.1	55.3	55.6	58.2	58.4	59.8	59.7	59.2	53.7	129.7
„ 16,...	58.1	57.9	58.0	56.0	53.3	53.3	52.1	54.1	57.3	57.8	57.1	58.6	58.8	59.6	59.0	59.9	59.4	59.9	60.2	60.1	62.0	60.8	59.7	57.7	57.9	135.6
„ 17,...	57.4	59.7	59.0	59.2	58.8	58.4	55.7	57.9	58.4	60.5	58.1	59.1	61.1	61.1	62.2	61.8	60.7	60.7	60.5	61.1	60.8	60.8	60.9	61.0	59.8	130.5
„ 18,...	60.8	61.1	61.1	61.2	60.5	59.8	57.5	57.3	57.8	59.6	59.5	62.1	63.2	62.9	63.0	62.1	61.2	60.9	61.0	61.7	60.0	61.8	60.8	61.7	60.8	131.3
„ 19,...	62.9	63.6	63.8	63.2	63.8	63.8	62.7	63.9	63.7	64.3	64.7	65.4	65.0	65.0	65.4	65.0	64.7	63.8	63.9	63.9	64.5	64.0	63.9	63.8	64.1	129.8
„ 20,...	63.3	63.2	63.0	63.5	63.7	63.6	63.7	63.8	64.6	64.9	66.1	65.2	66.0	65.9	64.7	64.9	65.1	64.8	63.6	63.8	64.1	65.0	65.0	65.0	64.4	133.8
„ 21,...	64.9	64.9	64.8	64.1	63.8	63.0	63.2	63.4	65.6	65.9	65.2	65.7	65.9	65.8	66.1	65.9	64.9	64.9	65.3	65.8	65.8	65.9	66.0	66.1	65.1	134.7
„ 22,...	66.4	65.6	65.6	65.7	66.1	66.8	63.8	65.5	65.9	65.6	66.2	66.0	65.8	66.3	66.3	66.3	66.6	67.0	66.8	66.8	66.1	65.9	65.8	65.9	66.0	94.3
„ 23,...	66.2	66.3	66.5	66.8	67.0	66.8	66.6	66.9	66.9	67.0	67.8	67.6	67.8	68.0	68.0	67.6	67.8	67.9	67.8	67.8	67.8	67.9	67.4	67.1	67.3	90.7
„ 24,...	67.0	66.7	66.7	66.8	66.7	66.5	66.9	66.9	67.8	67.4	67.7	67.8	67.6	67.8	67.9	67.8	67.9	68.1	67.4	67.6	67.4	67.8	67.9	67.9	67.4	103.5
„ 25,...	67.7	67.7	67.8	67.2	66.9	66.8	67.5	67.9	68.1	68.5	69.1	70.0	70.2	69.3	68.3	68.1	68.0	68.3	68.2	68.8	69.0	69.3	69.3	69.2	68.4	140.2
„ 26,...	69.3	69.8	69.8	69.8	69.8	69.8	70.3	71.3	72.3	72.7	73.8	72.9	72.5	72.3	72.1	72.0	71.0	70.2	70.1	70.0	70.1	68.1	66.2	64.3	70.4	141.2
„ 27,...	63.0	62.1	61.3	60.8	59.8	59.0	58.6	60.0	60.8	61.1	60.0	60.8	62.0	62.3	61.7	62.2	62.1	61.9	62.3	62.2	63.5	64.4	64.2	64.0	61.7	130.7
„ 28,...	63.4	63.5	63.7	63.0	62.4	61.9	62.3	62.8	63.6	64.0	65.1	65.0	64.8	65.4	65.3	65.0	64.9	65.0	65.3	65.7	65.8	65.9	65.8	65.7	64.4	128.4
„ 29,...	65.9	65.8	66.2	66.1	66.9	66.8	66.8	67.5	68.1	68.5	68.9	69.2	69.4	70.2	69.8	69.6	69.2	69.1	68.3	68.0	68.1	67.8	67.8	67.7	68.0	105.5
„ 30,...	67.3	67.2	67.0	66.6	65.4	64.2	63.1	62.8	63.2	63.7	63.5	63.4	63.6	64.0	62.8	63.0	61.4	61.5	60.6	60.7	61.0	61.2	61.5	61.0	63.3	105.3
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Mean ...	62.1	62.1	61.9	61.5	61.2	60.9	60.4	61.2	61.9	62.6	62.9	63.4	63.9	64.1	63.8	63.6	63.1	62.8	62.6	62.6	62.7	62.7	62.6	62.3	62.5	126.9

* Interpolated.

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF NOVEMBER, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	73	0.497	Nov. 1,.....	59	0.428
2 „	75	.503	„ 2,.....	51	.391
3 „	74	.497	„ 3,.....	67	.533
4 „	74	.490	„ 4,.....	59	.506
5 „	74	.486	„ 5,.....	59	.436
6 „	74	.480	„ 6,.....	62	.463
7 „	68	.455	„ 7,.....	74	.585
8 „	66	.459	„ 8,.....	70	.606
9 „	62	.460	„ 9,.....	66	.556
10 „	62	.469	„ 10,.....	64	.443
11 „	61	.472	„ 11,.....	58	.353
Noon.	60	.482	„ 12,.....	53	.298
1 p	61	.493	„ 13,.....	41	.234
2 „	62	.501	„ 14,.....	36	.206
3 „	62	.495	„ 15,.....	45	.273
4 „	64	.497	„ 16,.....	58	.373
5 „	67	.496	„ 17,.....	63	.418
6 „	69	.498	„ 18,.....	67	.447
7 „	70	.497	„ 19,.....	77	.540
8 „	71	.501	„ 20,.....	76	.543
9 „	72	.507	„ 21,.....	73	.549
10 „	73	.509	„ 22,.....	86	.603
11 „	74	.510	„ 23,.....	92	.650
Midt.	74	.505	„ 24,.....	91	.648
			„ 25,.....	87	.660
			„ 26,.....	85	.702
			„ 27,.....	79	.498
			„ 28,.....	82	.561
			„ 29,.....	86	.649
			„ 30,.....	85	.546
			.....	...	...
Mean,.....	68	0.490	Mean.	68	0.490

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
Nov. 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,.....	...	...	...	...	...	...	0.1	...	...	...	...	...	...	0.1
„ 3,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.3
„ 4,.....	...	0.3	0.3	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	8.3
„ 5,.....	...	...	0.6	1.0	1.0	1.0	1.0	0.7	...	...	...	...	...	5.3
„ 6, ...	...	...	0.5	0.7	0.8	0.2	0.6	0.6	0.4	...	...	...	...	3.8
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	...	...	0.3	1.0	0.6	1.0	1.0	1.0	1.0	0.4	...	6.3
„ 9,.....	...	0.5	1.0	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.7
„ 10,.....	...	...	...	0.8	0.2	...	...	0.6	1.0	0.3	1.0	0.7	...	4.6
„ 11,.....	...	0.4	0.9	1.0	0.9	0.7	0.9	1.0	1.0	1.0	1.0	0.5	...	9.3
„ 12,.....	...	...	...	...	...	0.1	0.6	0.7	...	...	...	...	...	1.4
„ 13,.....	...	...	...	...	...	0.1	0.1	0.6	0.2	1.0	1.0	0.5	...	3.5
„ 14,.....	...	0.6	0.9	0.6	0.1	0.6	1.0	1.0	1.0	1.0	1.0	0.6	...	8.4
„ 15,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	10.0
„ 16,.....	...	0.5	1.0	0.9	0.6	0.7	1.0	1.0	1.0	1.0	1.0	0.5	...	9.2
„ 17,.....	...	0.1	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.4
„ 18,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	10.0
„ 19,.....	...	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	9.0
„ 20,.....	...	0.2	0.9	1.0	1.0	1.0	1.0	0.6	0.7	1.0	1.0	0.5	...	8.9
„ 21,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.9
„ 22,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,.....	...	...	0.2	...	...	0.2	0.8	0.4	0.2	0.2	0.2	0.2	...	2.4
„ 26,.....	...	...	...	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	8.6
„ 27,.....	...	...	0.1	0.3	0.6	...	...	0.5	1.0	1.0	1.0	0.3	...	4.8
„ 28,.....	...	...	...	0.1	...	0.1	0.7	0.4	0.3	0.3	0.1	...	...	2.0
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	4.6	11.9	14.5	14.4	14.7	17.4	18.1	16.8	16.8	17.3	8.7	...	155.2

TABLE VI.

RAINFALL FOR THE MONTH OF NOVEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
Nov. 1,.....	...	...	0.005	0.010	0.110	0.030	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.180	6	0.06
„ 2,.....	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	2	...
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	0.010	2	0.09
„ 7,.....	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	3	...
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	0.005	...	...	0.010	1	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,.....	...	...	...	...	...	...	...	...	...	...	...	...	0.020	0.020	0.035	0.010	0.045	0.045	0.015	0.045	0.135	...	...	...	0.370	9	0.60
„ 23,.....	...	0.005	...	0.030	...	0.005	0.010	0.015	...	...	...	0.005	0.005	...	0.005	...	0.135	0.005	0.010	0.010	0.025	0.045	0.060	0.075	0.445	15	0.46
„ 24,.....	0.020	0.020	0.030	0.055	0.045	0.050	...	0.090	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.340	10	0.10
„ 25,.....	0.010	0.005	...	0.015	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...	0.050	5	...
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.025	0.015	0.030	0.015	...	0.085	5	0.25
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
„ 28,.....	...	...	†0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	1	...
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	0.005	2	0.10
„ 30,.....	...	...	...	...	...	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	1	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.030	0.030	0.045	0.110	0.175	0.110	0.035	0.105	0.015	0.000	0.000	0.005	0.025	0.020	0.040	0.010	0.185	0.060	0.025	0.085	0.175	0.080	0.085	0.090	1.540	64	1.66

The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

† Approximate.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF NOVEMBER, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
Nov. 1,	1	14	1	13	2	11	2	14	3	11	3	11	2	11	3	16	3	18	4	19	4	18	2	13	1	12	32	13	1	11	2	18	32	16	2	20	2	24	4	23	3	17	3	14	5	19	4	15	371	15.5	3
" 2,	2	10	2	11	3	8	4	9	3	7	2	12	3	20	2	14	4	17	4	19	4	17	4	17	6	17	6	18	3	15	3	11	1	7	32	10	32	11	2	9	3	8	4	13	4	15	1	8	303	12.6	3
" 3,	3	9	2	11	2	8	2	7	32	7	31	7	32	9	4	6	7	12	7	12	4	7	8	13	9	16	10	15	11	17	10	17	10	13	8	11	7	7	5	4	5	3	5	2	...	1	...	0	214	8.9	7
" 4,	5	2	...	1	...	1	1	12	32	14	32	26	32	29	32	30	1	20	1	15	1	11	6	4	32	9	32	11	1	11	32	12	1	9	1	11	1	18	1	23	1	26	32	28	32	24	1	31	378	15.7	1
" 5,	1	24	1	25	32	29	32	31	1	32	32	32	32	33	32	36	1	38	32	30	1	25	1	21	1	19	1	20	32	23	1	24	1	24	1	30	32	30	32	30	32	31	1	32	32	28	1	25	672	28.0	1
" 6,	1	26	1	24	32	22	32	28	32	27	32	27	32	25	32	25	32	24	32	24	1	21	1	18	3	14	2	10	1	13	32	9	32	12	1	11	32	12	4	13	3	12	4	14	5	15	5	21	447	18.6	1
" 7,	5	18	4	19	6	20	5	15	5	17	4	18	5	21	5	20	5	19	5	22	5	24	5	22	6	21	5	22	5	21	5	17	4	14	6	24	7	25	7	25	7	23	7	22	7	19	7	20	488	20.3	6
" 8,	7	27	7	26	7	30	7	32	7	30	6	28	7	27	7	29	6	27	7	29	8	34	6	32	7	28	6	21	8	22	7	22	6	20	7	22	7	19	7	17	7	12	7	12	7	16	7	9	571	23.8	7
" 9,	8	7	5	6	4	5	3	7	5	8	5	3	32	9	1	14	32	17	1	16	32	20	1	18	1	15	32	15	1	14	1	16	1	16	1	5	32	4	2	8	2	9	1	5	1	5	1	5	247	10.3	1
" 10,	1	4	1	3	32	2	1	7	1	10	1	7	32	6	32	10	32	11	32	7	32	8	1	9	8	6	23	5	1	7	32	9	32	10	1	8	1	6	2	5	1	13	2	12	1	5	1	13	183	7.6	1
" 11,	1	12	1	9	1	11	1	14	1	12	32	13	1	12	1	15	1	15	1	17	1	15	32	21	1	17	1	19	32	19	1	16	1	18	1	15	32	19	1	12	3	14	1	10	30	3	28	6	334	13.9	1
" 12,	22	6	32	7	32	12	32	23	32	17	1	14	32	16	32	15	32	14	32	18	32	21	32	20	32	16	32	15	32	12	32	12	32	7	1	9	32	10	32	16	32	16	32	23	1	23	32	19	361	15.0	32
" 13,	1	19	1	22	1	18	1	7	2	9	29	6	1	19	1	28	1	25	32	22	32	27	32	25	1	23	32	20	32	14	32	13	32	12	32	15	1	22	32	27	1	29	32	30	32	30	32	26	488	20.3	32
" 14,	32	26	32	30	32	28	32	25	1	24	1	21	1	11	32	16	32	15	32	19	32	19	1	13	3	10	8	13	5	14	4	9	2	6	2	6	2	4	2	6	1	7	4	3	2	8	2	10	343	14.3	1
" 15,	2	9	1	9	1	8	32	11	32	12	32	5	1	10	1	2	1	8	4	18	1	10	1	14	1	6	31	8	1	12	2	10	3	7	10	10	6	10	5	10	4	7	5	9	5	17	5	16	238	9.9	3
" 16,	1	11	2	8	4	14	32	11	32	11	32	10	32	13	32	8	4	6	6	13	4	14	7	17	5	14	10	16	10	15	10	14	11	11	7	9	5	5	2	2	...	0	2	3	1	7	1	5	237	9.9	5
" 17,	3	6	10	2	12	2	...	1	...	0	11	4	1	4	1	2	9	2	8	4	7	12	9	12	12	10	24	11	24	8	24	6	27	4	2	3	10	3	9	3	9	5	12	2	...	0	12	2	108	4.5	8
" 18,	...	1	...	0	...	1	...	1	32	2	32	2	2	3	2	4	32	4	28	5	23	9	24	7	22	12	23	11	24	7	23	6	24	6	28	5	21	2	...	1	17	3	11	3	11	2	14	3	100	4.2	24
" 19,	6	7	7	10	6	9	5	9	7	8	7	12	6	13	7	13	7	14	8	13	10	14	10	15	10	13	9	15	9	16	8	11	9	14	8	12	9	12	9	11	8	11	8	9	8	7	10	7	275	11.5	8
" 20,	9	7	9	8	7	11	9	9	8	6	10	7	10	8	9	12	8	13	9	16	9	19	9	26	9	23	9	22	9	23	10	23	10	21	7	15	8	14	10	15	9	16	8	15	7	16	7	14	359	15.0	9
" 21,	7	13	7	13	7	12	7	15	7	16	8	17	8	19	8	21	8	19	8	22	8	25	8	21	9	24	8	21	9	26	8	22	6	23	7	21	7	19	7	21	7	23	7	23	7	24	7	29	489	20.4	8
" 22,	7	25	7	21	8	21	7	23	9	12	8	17	8	20	7	22	9	20	8	23	8	21	7	19	7	21	8	21	7	17	7	21	7	16	8	16	6	20	7	20	6	22	7	24	6	23	7	21	486	20.3	7
" 23,	6	19	7	21	7	21	7	19	7	17	7	24	6	26	7	21	6	20	7	18	8	20	7	19	7	17	7	18	7	15	7	14	7	18	7	21	7	21	7	23	7	27	7	25	8	35	8	31	510	21.2	7
" 24,	7	33	7	31	7	29	7	25	7	26	7	25	7	26	7	26	7	30	7	26	7	26	7	24	7	25	8	21	7	24	7	24	8	24	8	25	7	29	8	28	7	26	8	22	7	19	7	22	616	25.7	7
" 25,	7	22	7	19	7	22	7	23	7	23	7	23	7	18	8	19	8	19	7	17	8	21	8	19	9	15	10	19	9	19	9	18	9	17	8	18	8	17	10	14	8	14	8	13	8	13	9	5	427	17.8	8
" 26,	11	5	11	2	10	2	9	2	11	2	...	1	...	1	...	0	11	2	11	5	10	14	10	17	10	16	9	15	9	17	10	12	9	12	9	9	10	7	8	12	8	16	5	15	6	17	7	15	216	9.0	9
" 27,	3	10	31	4	30	6	31	8	1	11	32	9	32	7	32	8	32	13	32	10	1	9	1	6	3	4	8	6	9	15	9	15	8	14	6	11	5	11	5	11	5	15	8	19	7	19	8	20	261	10.9	5
" 28,	7	19	7	18	6	19	4	17	5	14	6	13	6	12	7	13	7	13	7	17	7	16	8	20	9	22	9	16	10	18	9	18	8	17	7	17	8	16	8	15	8	19	7	21	7	16	7	16	402	16.8	7
" 29,	7	14	7	12	12	6	11	10	11	7	11	6	10	10	8	8	9	13	8	16	8	16	7	15	7	13	5	8	8	11	8	14	9	16	9	13	8	19	7	20	7	19	7	14	9	14	8	13	307	12.8	8
" 30,	7	13	7	14	7	13	7	13	6	11	2	4	2	2	4	6	32	5	4	8	2	13	5	11	5	9	32	11	32	6	1	7	32	5	32	7	1	9	32	7	...	1	32	3	32	5	32	2	185	7.7	3
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	...	418	...	399	...	401	...	428	...	403	...	404	...	440	...	459	...	473	...	500	...	526	...	508	...	467	...	456	...	462	...	440	...	409	...	409	...	425	...	431	...	444	...	440	...	445	...	429	10616	442.4	...
Hourly Means,	...	13.9	...	13.3	...	13.4	...	14.3	...	13.4	...	13.5	...	14.7	...	15.3	...	15.8	...	16.7	...	17.5	...	16.9	...	15.6	...	15.2	...	15.4	...	14.7	...	13.6	...	13.6	...	14.2	...	14.4	...	14.8	...	14.7	...	14.8	...	14.3	354.0	14.7	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR NOVEMBER, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	7.60	8.92	0.18	0.17	+7.42	+8.75	E 40° N
2 „	7.55	8.20	0.13	0.03	7.42	8.17	E 43° N
3 „	7.27	8.08	0.20	0.07	7.07	8.01	E 41° N
4 „	8.82	7.47	0.27	0.07	8.55	7.40	E 49° N
5 „	8.40	7.25	0.23	0.00	8.17	7.25	E 48° N
6 „	8.30	6.85	0.30	0.17	8.00	6.68	E 50° N
7 „	9.37	7.23	0.23	0.00	9.14	7.23	E 52° N
8 „	9.40	7.87	0.07	0.00	9.33	7.87	E 50° N
9 „	9.35	8.81	0.27	0.00	9.08	8.81	E 46° N
10 „	8.87	10.00	0.20	0.10	8.67	9.90	E 41° N
11 „	8.69	10.60	0.60	0.30	8.09	10.30	E 38° N
Noon.	8.04	11.13	0.67	0.23	7.37	10.90	E 34° N
1 p.	6.33	11.05	1.43	0.37	4.90	10.68	E 25° N
2 „	5.90	9.63	1.20	0.97	4.70	8.66	E 28° N
3 „	6.17	10.02	1.52	0.50	4.65	9.52	E 26° N
4 „	6.17	9.68	1.30	0.40	4.87	9.28	E 28° N
5 „	6.10	8.70	1.03	0.30	5.07	8.40	E 31° N
6 „	6.12	9.33	0.30	0.12	5.82	9.21	E 32° N
7 „	7.11	8.97	0.23	0.07	6.88	8.90	E 38° N
8 „	6.88	9.50	0.50	0.00	6.38	9.50	E 34° N
9 „	7.37	9.92	0.23	0.03	7.14	9.89	E 36° N
10 „	7.30	9.65	0.10	0.00	7.20	9.65	E 37° N
11 „	7.28	10.07	0.13	0.03	7.15	10.04	E 36° N
Midt.	6.90	9.50	0.25	0.15	+6.65	+9.35	E 35° N
Mean, ...	7.55	9.10	0.48	0.17	+7.07	+8.93	E 39° N

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
Nov. 1	28.16	28.16	28.18	61	63	61	68	59	ENE	6	ENE	5	NE	5
„ 2	.21	.18	.17	63	65	61	65	61	ENE	5	E	4	ENE	4
„ 3	.21	.15	.18	66	69	65	69	61	ENE	4	E	3	E	4
„ 4	.18	.11	.14	68	71	66	71	63	NNE	4	NNE	4	ENE	5
„ 5	.12	.06	.10	63	65	61	66	60	ENE	6	NNE	5	NNE	5
„ 6	.11	.07	.08	62	65	61	66	58	NNE	5	NNE	4	E	5
„ 7	.10	.05	.05	63	65	64	66	61	ENE	5	E	5	E	6
„ 8	.11	.06	.09	68	69	65	70	64	E	6	E	6	E	4
„ 9	.16	.09	.12	68	71	67	71	65	NE	3	ENE	4	ENE	4
„ 10	.19	.13	.19	65	67	60	68	60	NE	3	NE	3	ENE	4
„ 11	.28	.25	.25	62	62	58	68	54	NNE	4	NE	4	NNE	4
„ 12	.40	.34	.39	56	57	53	59	53	NNE	4	NNE	4	NNE	4
„ 13	.44	.37	.42	54	59	53	59	53	NNE	4	N	4	N	5
„ 14	.46	.40	.44	55	59	55	59	52	NNE	5	ENE	4	ENE	4
„ 15	.47	.40	.44	56	61	56	61	54	ENE	5	ENE	4	E	4
„ 16	.42	.33	.29	59	62	59	63	56	ENE	4	ENE	2	E	3
„ 17	.31	.23	.23	63	63	63	66	58	ENE	3	NE	2	NE	2
„ 18	.26	.15	.17	63	66	62	67	60	NE	2	ENE	2	E	3
„ 19	.19	.11	.15	64	68	64	68	60	E	4	E	2	E	3
„ 20	.16	.10	.11	65	67	65	68	61	E	3	E	4	E	3
„ 21	.18	.10	.13	66	66	63	67	62	E	4	E	5	E	6
„ 22	.15	.09	.11	63	63	62	64	60	E	4	E	4	E	4
„ 23	.11	.08	.10	63	64	63	64	62	E	4	E	4	E	4
„ 24	.15	.08	.09	64	64	64	65	62	E	4	E	5	E	5
„ 25	.12	.07	.10	65	68	67	69	64	E	4	SE	3	SE	3
„ 26	.18	.15	.18	69	69	68	72	67	E	3	E	3	E	4
„ 27	.22	.18	.22	62	63	61	68	61	NE	3	E	4	E	4
„ 28	.23	.16	.16	61	63	62	64	60	E	5	E	4	E	4
„ 29	.18	.11	.11	65	65	64	66	60	E	4	E	3	E	3
„ 30	.17	.07	.10	61	61	61	64	61	E	4	ENE	3	NE	3
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean,	28.223	28.161	28.183	62.8	64.6	61.8	66.0	59.7	E 24° N	4.1	E 20° N	3.8	E 16° N	4.0

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
Nov. 1, ...	10	str-cum.	...	10	nim.	...	10	nim.	ENE	10	str. / cum.	ENE
„ 2, ...	10	cum-nim.	...	10	cum.	...	10	str-cum.	SE	10	str-cum.	SW
„ 3, ...	9	cum.	...	0	...	...	1	sm-cum.	...	3	c-str.	...
„ 4, ...	10	cum.	...	3	cum.	...	3	c-str. / sm-cum.	W / NE	2	c-str. / sm-cum.	WSW / NE
„ 5, ...	9	cum.	NE	10	cum.	NE	3	c-str. / c-cum. / sm-cum	SSW / SSW / NE	9	c-str. / cum.	S / E
„ 6, ...	10	c-str. / sm-cum.	...	9	sm-cum.	...	10	sm-cum.	E	7	sm-cum.	E
„ 7, ...	10	cum-nim.	E	10	cum-nim.	E	10	cum-nim.	E	10	sm-cum. / cum.	S / E
„ 8, ...	10	cum.	ESE	10	cum.	E	9	sm-cum. / cum.	ESE / E	7	sm-cum. / cum.	ESE / E
„ 9, ...	6	cum.	NE	0	...	...	1	sm-cum.	...	7	sm-cum.	ENE
„ 10, ...	3	cum.	E	10	cum.	E	10	sm-cum. / cum.	NE	9	sm-cum.	NW
„ 11, ...	3	sm-cum.	...	5	sm-cum.	...	3	c-cum. / cum.	W / NE	7	sm-cum. / cum.	W / NE
„ 12, ...	10	cum.	...	10	cum.	...	10	str-cum.	N	10	sm-cum.	W
„ 13, ...	10	cum.	...	10	cum.	...	10	str-cum.	N	10	sm-cum.	W
„ 14, ...	5	cum.	...	2	sm-cum.	WNW	1	c-cum.	WNW	8	sm-cum.	W
„ 15, ...	0	...	...	0	...	...	2	sm-cum.	W	1	c-cum.	...
„ 16, ...	2	cum.	NE	0	...	...	2	c-cum. / cum.	W / ..	3	sm-cum.	E
„ 17, ...	6	cum.	...	8	cum.	S	2	sm-cum.	SSW	2	c-str.	...
„ 18, ...	0	...	...	0	...	...	2	c-str.	W	1	c-str.	...
„ 19, ...	9	str-cum.	...	2	cum.	...	3	c-cum. / cum.	ENE	1	c-cum. / cum.	ENE
„ 20, ...	0	...	...	0	...	...	7	c-cum.	W	3	c-str.	W
„ 21, ...	0	...	...	5	cum.	...	2	c-cum.	W	4	c-cum.	W
„ 22, ...	5	str-cum.	...	10	str-cum.	...	10	str. / cum.	E	10	sm-cum. / R-cum.	E
„ 23, ...	10	cum-nim.	E	10	nim.	E	10	nim.	E	10	cum-nim.	E
„ 24, ...	10	nim.	...	10	nim.	...	10	nim.	E	10	nim.	E
„ 25, ...	10	nim.	...	10	nim.	...	10	R-cum.	E	10	R-cum.	E
„ 26, ...	10	cum-nim.	...	9	cum.	...	9	cum.	E	7	sm-cum. / cum.	E
„ 27, ...	10	cum-nim.	...	10	cum.	...	9	R-cum.	E	10	R-cum.	ENE
„ 28, ...	10	cum-nim.	...	10	cum-nim.	...	10	nim.	ENE	9	cum. / cum.	S / ENE
„ 29, ...	4	cum.	SW	2	cum.	SW	10	str-cum.	E	10	str-cum.	E
„ 30, ...	10	cum-nim.	...	10	cum-nim.	...	10	R-cum.	NE	10	R-cum.	NE
.....	...	...	...	...	...	...	...	...	...	...	...	...
Mean, ...	7.0	...	...	6.5	...	...	6.6	...	...	7.0	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
Nov. 1,...	10	str./cum.	ENE	10	str.	...	10	nim.	...	10	cum.	ENE	10.0
„ 2,...	10	sm-cum.	S	9	sm-cum./str.	S/SE	10	sm-cum./cum.	S/SE	3	sm-cum.	S	9.0
„ 3,...	1	sm-cum.	...	1	c-str.	...	2	c-str.	...	9	c-str.	...	3.2
„ 4,...	3	c-str./cum.	WSW/NE	6	c-str.	WSW	10	c-str.	...	8	c-str./cum.	E	5.6
„ 5,...	10	c-str.	S	10	c-str./sm-cum.	S/E	10	c-str./cum.	E	10	c-str./sm-cum.	S/E	8.9
„ 6,...	9	sm-cum.	E	10	str-cum.	NE	10	str-cum.	E	10	nim.	E	9.4
„ 7,...	10	sm-cum./cum.	S/E	10	sm-cum./cum.	S/E	10	str-cum.	E	10	cum.	ESE	10.0
„ 8,...	6	c-cum./cum.	ESE/E	2	c-cum.	ESE	0	...	...	1	c-str./cum.	NE	5.6
„ 9,...	1	sm-cum.	...	1	sm-cum.	ENE	1	sm-cum.	ENE	1	cum.	E	2.3
„ 10,...	5	sm-cum.	N	1	c-cum.	...	0	...	...	0	...	...	4.7
„ 11,...	1	sm-cum.	W	2	c-cum.	...	0	...	...	3	sm-cum.	W	3.0
„ 12,...	9	sm-cum.	W	10	str.	...	10	str.	...	10	str.	...	9.9
„ 13,...	5	sm-cum.	W	0	...	...	1	c-str.	...	0	...	...	5.8
„ 14,...	0	...	...	0	...	...	0	...	...	0	...	...	2.0
„ 15,...	0	...	...	0	...	...	0	...	...	9	cum.	N	1.5
„ 16,...	1	sm-cum.	...	0	...	...	2	cum.	...	10	cum.	...	2.5
„ 17,...	1	c-str.	...	4	c-str.	...	0	...	...	0	...	...	2.9
„ 18,...	0	...	...	0	...	...	0	...	...	0	...	...	0.4
„ 19,...	0	...	...	7	c-str.	W	0	...	...	0	...	...	2.8
„ 20,...	9	c-cum./sm-cum.	W/W	3	c-cum./sm-cum.	W/W	0	...	...	0	...	...	2.7
„ 21,...	3	c-str./sm-cum.	W/W	2	c-cum.	W	1	c-str.	...	0	...	...	2.1
„ 22,...	10	nim.	E	10	nim.	E	10	nim.	...	10	cum-nim.	...	9.4
„ 23,...	10	cum-nim.	E	10	nim.	E	10	nim.	...	10	nim.	...	10.0
„ 24,...	10	cum-nim.	E	10	cum-nim.	E	10	cum-nim.	...	10	cum-nim.	...	10.0
„ 25,...	8	sm-cum./cum	W/E	8	sm-cum./cum.	W/E	7	cum.	E	10	cum-nim.	E	9.1
„ 26,...	2	cum.	E	1	cum.	E	10	nim.	E	10	nim.	E	7.3
„ 27,...	2	cum.	NE	1	cum.	...	10	nim.	...	10	cum-nim.	...	7.7
„ 28,...	9	cum./cum.	S/ENE	8	sm-cum./cum.	SSE	6	cum.	SE	7	cum.	SE	8.6
„ 29,...	10	str-cum.	E	10	str-cum.	E	10	cum-nim.	E	10	cum-nim.	E	8.2
„ 30,...	10	R-cum.	NE	10	str-cum.	NE	10	cum-nim.	...	10	cum-nim.	...	10.0
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean,...	5.5	...	...	5.2	...	...	5.3	...	...	6.0	...	...	6.2

HONGKONG OBSERVATORY.

Weather Report for December, 1889.

In the *China Coast Meteorological Register*, based on information transmitted by the Great Northern and the Eastern Extension Telegraph Companies, which was daily published, is given a summary of the atmospheric circumstances in Luzon and along the Coast of China, and information concerning the weather in Nagasaki and Wladivostock.

Lunar halo: on the 2nd.

Lunar corona: on the 2nd, 6th, 7th, 8th and 10th.

Haze: on the 7th, 18th, 21st, 24th, 29th, 30th and 31st.

Slight Fog: on the 11th, 30th and 31st.

Dew: on the 11th and 23rd.

The Total Distance traversed by, as well as the duration and average velocity of the wind from different quarters were as follows:—

Direction.	*Total Distance.* Miles.	*Duration.* Hours.	*Velocity.* Miles per hour.
N	2740	204	13.4
NE	1336	103	13.0
E	4885	299	16.3
SE	315	37	8.5
S	28	5	5.6
SW	109	16	6.8
W	299	43	7.0
NW	63	10	6.3
Calm	17	27	0.6

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF DECEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.
Dec. 1,...	29.883	29.871	29.871	29.873	29.882	29.895	29.918	29.937	29.954	29.953	29.928	29.886	29.868	29.849	29.837	29.850	29.864	29.894	29.921	29.941	29.966	29.974	29.980	29.987	29.908
„ 2,...	.993	.989	.991	.987	.982	.979	.988	30.029	30.056	30.054	30.045	30.026	.994	.970	.958	.960	.972	.990	30.018	30.030	30.052	30.045	30.044	30.036	30.008
„ 3,...	30.028	30.017	30.011	30.011	30.014	30.024	30.048	.064	.086	.093	.071	.050	30.014	.989	.992	.998	30.007	30.038	.057	.080	.099	.116	.112	.101	.047
„ 4,...	.091	.088	.073	.053	.057	.086	.103	.101	.101	.075	.043	.011	29.975	.953	.936	.941	29.956	29.974	.001	.015	.020	.019	.008	29.997	.029
„ 5,...	29.990	29.985	29.984	29.981	29.986	.009	.024	.042	.049	.046	.031	.005	.962	.939	.925	.927	.932	.941	29.954	29.969	29.970	29.972	29.973	.972	29.982
„ 6,...	.965	.960	.968	.971	.963	29.975	29.993	29.998	.024	.030	.013	29.981	.954	.933	.922	.921	.922	.933	.954	.966	.973	.975	.964	.957	.967
„ 7,...	.960	.942	.944	.941	.938	.954	.978	30.004	.023	.021	.010	.987	.925	.917	.902	.899	.902	.911	.930	.947	.944	.953	.948	.934	.951
„ 8,...	.916	.918	.912	.907	.909	.911	.919	29.925	29.934	29.932	29.910	.885	.850	.829	.820	.822	.840	.855	.868	.886	.896	.908	.906	.905	.890
„ 9,...	.903	.901	.902	.904	.920	.942	.955	.976	.996	.999	.977	.939	.896	.872	.861	.860	.861	.870	.883	.894	.905	.925	.925	.930	.917
„ 10,...	.927	.923	.910	.914	.925	.933	.950	.971	.987	.988	.971	.943	.907	.884	.866	.856	.870	.887	.909	.925	.936	.940	.941	.938	.925
„ 11,...	.928	.920	.913	.913	.923	.942	.952	.971	.984	.991	.985	.969	.940	.919	.914	.916	.928	.941	.955	.959	.968	.968	.969	.975	.948
„ 12,...	.979	.980	.989	.994	30.000	30.008	30.031	30.056	30.079	30.082	30.084	30.057	30.027	30.015	30.011	30.021	30.046	30.074	30.091	30.122	30.145	30.166	30.163	30.170	30.058
„ 13,...	30.175	30.180	30.184	30.180	.192	.212	.234	.243	.251	.246	.223	.183	.142	.117	.104	.109	.120	.138	.168	.175	.176	.175	.174	.175	.178
„ 14,...	.196	.205	.209	.213	.213	.223	.233	.247	.244	.234	.212	.183	.135	.111	.103	.107	.121	.136	.157	.167	.175	.181	.177	.176	.182
„ 15,...	.170	.168	.167	.167	.174	.192	.215	.240	.259	.266	.243	.206	.175	.149	.145	.151	.164	.177	.195	.200	.204	.199	.185	.178	.191
„ 16,...	.172	.160	.159	.160	.165	.169	.188	.208	.220	.216	.190	.149	.113	.086	.067	.069	.072	.076	.092	.101	.107	.118	.118	.116	.137
„ 17,...	.106	.089	.092	.092	.094	.098	.119	.138	.156	.158	.141	.103	.054	.018	.007	.011	.030	.036	.055	.066	.079	.088	.067	.066	.082
„ 18,...	.062	.050	.041	.028	.031	.049	.061	.088	.102	.112	.094	.074	.037	.012	29.997	.007	.028	.025	.040	.055	.060	.049	.041	.033	.049
„ 19,...	.031	.028	.023	.029	.051	.070	.083	.105	.122	.117	.103	.081	.053	.023	30.014	.016	.035	.050	.064	.079	.086	.093	.102	.103	.065
„ 20,...	.098	.094	.087	.091	.099	.123	.141	.171	.198	.199	.190	.155	.120	.097	.084	.079	.091	.101	.119	.136	.152	.161	.169	.172	.130
„ 21,...	.170	.151	.139	.138	.134	.141	.143	.167	.199	.190	.170	.151	.123	.097	.093	.096	.104	.111	.131	.145	.168	.170	.170	.169	.145
„ 22,...	.168	.160	.149	.147	.148	.154	.157	.170	.180	.176	.168	.142	.113	.094	.077	.082	.088	.093	.116	.124	.126	.129	.128	.120	.134
„ 23,...	.109	.099	.096	.079	.076	.080	.104	.108	.110	.109	.088	.049	.013	29.997	29.984	29.988	29.985	29.986	29.998	.003	.006	.009	.018	.012	.046
„ 24,...	.014	.011	.002	.006	.025	.025	.048	.079	.094	.091	.072	.045	.018	.990	.988	.988	30.001	30.012	30.029	.042	.042	.049	.061	.068	.033
„ 25,...	.070	.068	.062	.063	.070	.074	.097	.115	.133	.126	.095	.072	.041	30.027	30.029	30.041	.052	.066	.084	.077	.076	.076	.077	.083	.074
„ 26,...	.087	.085	.082	.085	.091	.108	.140	.175	.201	.208	.187	.159	.115	.090	.071	.080	.101	.116	.140	.155	.170	.162	.157	.159	.130
„ 27,...	.157	.159	.160	.172	.175	.174	.183	.212	.227	.220	.199	.162	.129	.105	.094	.095	.096	.112	.140	.160	.169	.162	.149	.129	.156
„ 28,...	.125	.102	.079	.071	.066	.070	.080	.101	.130	.124	.101	.063	.026	.003	29.984	29.991	.005	.017	.029	.045	.062	.055	.045	.037	.059
„ 29,...	.021	.015	29.993	29.986	29.985	29.995	.009	.030	.048	.052	.036	29.999	29.965	29.939	.916	.920	29.923	29.927	29.934	29.944	29.956	29.956	29.947	29.944	29.977
„ 30,...	29.939	29.927	.913	.919	.921	.937	29.946	29.957	29.970	29.964	29.936	.901	.860	.830	.810	.810	.820	.823	.838	.856	.864	.871	.873	.872	.890
„ 31,...	.863	.856	.841	.859	.846	.855	.865	.832	.898	.908	.890	.868	.830	.811	.796	.802	.813	.823	.833	.854	.869	.873	.879	.888	.853
Hourly Means, ...	30.042	30.036	30.031	30.030	30.034	30.045	30.061	30.081	30.097	30.096	30.078	30.048	30.012	29.989	29.978	29.981	29.992	30.004	30.023	30.036	30.046	30.050	30.047	30.045	30.037

TABLE II.

TEMPERATURE FOR THE MONTH OF DECEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
Dec. 1,	63.3	63.4	62.7	61.7	61.2	61.0	61.0	61.8	62.8	62.7	61.9	65.7	65.8	66.7	65.9	65.2	62.9	61.1	60.9	60.5	59.5	58.8	58.4	57.9	62.2	67.8	57.9
„ 2,	56.0	55.1	55.6	55.7	56.1	56.4	56.8	57.9	59.9	61.3	60.9	60.6	62.8	62.6	62.1	61.6	60.2	59.1	58.0	57.1	56.0	55.8	55.0	55.2	58.2	63.5	54.9
„ 3,	55.5	55.0	55.0	55.2	55.1	54.9	55.3	59.4	60.0	60.6	61.2	61.2	63.3	62.4	61.9	62.4	60.4	57.9	56.9	57.1	57.8	57.2	57.0	56.1	58.3	63.7	54.0
„ 4,	55.7	54.9	55.0	54.6	53.8	54.0	53.9	57.2	57.8	59.6	61.8	62.2	61.6	63.0	63.5	60.8	58.8	57.1	56.9	57.0	56.0	55.0	54.2	53.8	57.4	64.9	53.8
„ 5,	52.9	51.8	51.9	51.8	52.4	51.8	54.8	56.1	57.9	59.5	59.5	59.5	59.8	60.6	60.8	61.6	59.9	58.9	58.8	57.4	58.5	58.8	59.3	59.7	57.2	61.8	51.8
„ 6,	59.4	59.5	59.3	59.1	58.9	58.9	59.9	60.8	62.2	63.5	64.4	64.4	65.8	66.2	64.3	64.0	64.0	63.2	63.9	63.9	64.4	64.7	65.2	65.1	62.7	67.2	58.0
„ 7,	65.0	65.1	65.1	64.9	65.0	64.8	65.8	66.3	66.5	68.4	67.4	67.3	68.7	69.0	69.0	69.8	69.6	67.0	67.9	67.5	66.8	66.0	65.3	65.0	66.8	70.3	63.9
„ 8,	64.9	65.2	64.8	64.6	65.5	66.8	68.8	70.4	73.5	73.5	74.9	76.0	77.0	72.8	72.9	69.6	68.6	68.0	67.8	67.0	67.8	67.3	67.1	66.4	69.3	78.2	64.1
„ 9,	65.7	65.5	65.3	65.1	64.9	62.8	62.7	64.4	65.9	68.7	71.6	71.1	71.5	69.7	70.6	68.8	66.3	65.7	65.5	65.9	64.9	64.8	64.8	64.8	66.5	74.9	62.1
„ 10,	64.3	64.2	64.3	64.1	64.0	64.0	63.7	64.5	66.5	68.8	69.0	68.8	68.0	68.2	67.1	65.8	64.8	64.0	64.4	64.7	64.9	64.8	64.7	64.4	65.5	69.6	63.1
„ 11,	64.3	64.2	63.9	63.1	62.4	62.8	63.0	64.2	65.4	65.8	66.7	66.1	66.8	67.2	67.0	66.8	65.2	64.0	63.8	62.7	62.7	62.7	62.3	62.1	64.4	67.7	61.8
„ 12,	62.1	62.1	62.7	61.6	64.4	66.8	67.7	68.8	71.1	70.5	71.3	70.6	70.2	70.2	68.3	66.6	64.4	62.8	61.8	61.1	60.1	58.4	56.6	56.2	64.9	71.4	56.2
„ 13,	55.6	55.3	54.7	53.5	53.2	52.0	53.0	55.6	58.5	58.8	57.8	58.7	59.0	61.0	61.4	59.2	57.9	57.0	55.3	56.3	57.4	57.8	58.2	58.3	56.9	63.6	51.8
„ 14,	56.5	55.4	54.9	53.7	52.0	51.8	53.0	55.2	58.5	59.6	60.9	63.6	62.8	62.8	63.4	62.0	60.4	59.7	59.0	58.5	58.9	59.0	58.4	59.4	58.3	65.9	49.9
„ 15,	58.7	59.4	57.4	56.1	55.8	55.8	55.8	56.5	57.7	59.9	61.2	62.5	63.6	64.8	64.7	63.8	62.9	61.5	60.8	60.6	59.9	61.8	61.8	61.2	60.2	66.3	54.7
„ 16,	59.0	58.1	57.4	57.5	57.0	55.6	56.0	57.2	58.7	59.9	61.6	62.6	63.4	65.1	63.9	62.8	61.5	61.0	61.9	62.1	62.8	62.8	62.4	62.1	60.5	65.1	55.6
„ 17,	61.1	61.2	61.0	60.5	59.8	59.8	59.9	61.1	62.1	63.8	64.2	65.8	66.6	67.4	66.1	64.8	64.0	64.0	63.8	63.5	63.4	63.8	63.7	63.9	63.2	68.5	58.9
„ 18,	63.5	63.8	63.5	62.8	62.6	62.0	61.9	63.9	66.2	67.8	67.5	67.9	69.6	69.5	69.8	68.8	67.2	67.0	67.5	66.3	66.3	67.3	68.6	68.7	66.2	70.8	60.8
„ 19,	69.3	68.8	68.3	66.7	66.0	65.4	65.1	65.7	66.7	67.7	67.9	67.8	69.9	69.4	67.8	68.8	66.1	65.8	65.8	64.5	64.2	63.5	63.2	63.0	66.6	70.7	63.0
„ 20,	62.4	62.4	62.2	62.1	61.8	60.8	60.9	60.1	60.5	62.8	63.2	62.8	62.7	63.6	63.7	62.6	61.0	59.4	59.3	60.1	60.4	60.9	61.5	61.6	61.6	64.6	59.2
„ 21,	61.1	60.9	61.4	61.3	60.9	60.8	60.8	61.4	63.3	64.1	65.7	64.1	62.8	63.5	62.2	61.4	61.1	61.0	61.2	61.3	61.4	61.5	61.3	61.1	61.9	66.9	59.9
„ 22,	61.1	60.9	60.7	60.5	60.3	60.1	60.3	61.9	63.6	64.5	64.5	65.5	65.2	64.0	63.7	63.1	63.0	61.9	61.8	61.9	61.8	61.9	61.7	62.0	62.3	66.4	59.8
„ 23,	61.6	61.4	61.4	61.2	61.2	61.3	61.6	62.4	65.8	67.8	69.1	69.4	70.8	70.9	68.9	67.8	66.2	63.7	63.8	63.3	62.2	61.9	61.6	61.0	64.4	73.6	61.0
„ 24,	61.0	60.8	60.6	60.0	60.0	60.1	60.0	63.3	64.4	66.4	67.5	68.9	69.6	70.6	69.2	67.8	66.8	64.9	64.6	63.9	63.1	62.9	62.7	62.7	64.2	72.4	59.6
„ 25,	62.3	62.2	62.0	61.6	61.5	60.4	61.3	61.9	62.6	65.6	67.2	67.9	68.4	66.3	65.2	63.9	62.0	62.0	61.9	62.1	62.3	62.8	62.4	62.4	63.3	69.4	60.4
„ 26,	62.4	62.3	62.6	62.5	62.5	62.6	61.3	60.2	60.4	62.8	64.8	66.5	66.9	67.9	68.7	65.6	63.4	62.3	61.1	60.1	58.8	58.0	57.2	56.2	62.4	70.6	56.2
„ 27,	55.2	54.8	55.5	55.2	55.6	55.9	56.4	58.0	57.2	57.0	58.3	58.3	59.0	60.0	61.0	60.2	60.3	60.4	60.3	60.3	60.3	60.3	60.3	60.0	58.3	61.2	51.9
„ 28,	60.2	60.1	60.0	60.0	60.0	59.8	60.1	60.3	61.6	62.6	63.5	64.0	64.8	65.0	65.8	64.1	64.0	†63.1	62.6	61.9	61.8	61.8	61.0	60.4	62.0	68.0	59.8
„ 29,	59.4	59.3	59.5	59.4	59.4	59.0	59.4	62.2	65.4	67.0	67.6	66.4	66.5	67.1	67.9	65.6	65.3	63.0	62.8	61.9	61.6	61.6	61.4	61.6	62.9	71.7	58.6
„ 30,	61.7	61.3	60.9	60.3	60.5	59.8	60.5	63.1	67.1	69.4	70.1	*71.6	73.0	75.1	72.8	71.8	69.3	66.5	66.7	64.9	64.5	64.5	64.2	63.9	66.0	75.9	58.8
„ 31,	64.3	63.9	63.9	63.1	62.4	61.5	62.5	64.2	67.9	68.0	66.9	66.7	66.9	66.1	66.5	64.7	64.1	64.1	64.1	65.0	65.0	65.1	64.8	64.8	64.9	68.1	61.5
Hourly Means,	60.8	60.6	60.4	60.0	59.9	59.7	60.1	61.5	63.2	64.5	65.2	65.7	66.2	66.4	66.0	64.9	63.6	62.5	62.3	61.9	61.8	61.7	61.5	61.3	62.6	68.4	58.2

* Interpolated. † Approximate Reading.

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION, FOR THE MONTH OF DECEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
Dec. 1,...	61.0	60.9	60.8	59.4	59.2	58.8	58.2	58.4	58.6	58.7	57.8	59.8	59.8	60.0	59.2	59.6	57.9	56.1	55.7	55.0	54.8	54.3	54.2	54.3	58.0	114.8
„ 2,...	53.2	52.4	51.8	51.8	51.5	51.0	51.7	52.6	54.7	54.8	54.8	54.8	56.0	55.6	55.1	55.0	52.9	53.0	52.0	51.7	51.3	50.5	51.2	51.3	52.9	103.6
„ 3,...	51.3	51.4	51.4	51.1	51.0	51.0	50.9	52.5	53.1	53.4	53.4	53.6	54.8	54.0	54.4	53.4	52.1	50.0	50.0	49.8	48.9	47.9	46.0	45.6	51.3	133.0
„ 4,...	44.2	44.9	44.3	43.6	42.1	41.9	41.9	44.2	44.6	45.1	46.5	47.6	47.6	50.5	51.0	49.6	47.6	47.0	45.9	45.0	44.3	44.4	44.2	43.7	45.5	122.1
„ 5,...	43.6	43.8	43.2	42.5	43.5	42.8	46.8	47.6	48.8	50.2	50.3	50.6	50.8	51.7	52.0	50.6	48.9	49.5	50.8	49.7	49.9	50.8	51.9	52.2	48.4	120.4
„ 6,...	53.5	53.3	52.7	52.5	52.3	53.4	53.8	54.3	54.4	55.3	56.5	56.6	58.6	58.8	56.7	56.8	57.1	57.2	58.2	58.1	58.6	59.1	59.3	59.7	56.1	118.5
„ 7,...	59.8	59.3	58.8	58.8	59.1	60.0	60.2	60.0	60.9	61.9	63.4	64.4	64.8	64.4	64.3	65.0	63.8	63.4	63.0	63.4	63.8	62.8	63.0	62.2	62.1	99.1
„ 8,...	62.4	61.4	61.5	61.5	60.7	59.8	59.5	60.6	62.5	63.2	64.5	66.6	67.2	65.8	66.6	64.9	64.0	63.8	63.8	63.4	63.7	63.5	62.8	62.6	63.2	140.0
„ 9,...	62.6	62.6	62.5	62.1	61.5	60.5	59.4	56.6	57.0	59.5	60.1	60.8	61.8	60.1	62.5	61.8	60.8	60.9	60.8	60.9	61.4	61.6	61.0	60.8	60.8	136.0
„ 10,...	60.3	60.1	60.0	59.0	58.3	57.6	58.2	59.2	60.8	62.3	61.9	61.4	59.6	60.9	60.1	59.8	59.7	59.7	60.0	60.1	61.1	61.2	61.2	61.3	60.2	133.2
„ 11,...	60.8	60.3	59.8	59.7	59.5	58.6	59.2	60.2	60.8	61.0	61.5	61.0	61.8	62.3	62.1	62.6	61.9	61.2	60.9	61.1	60.9	60.8	60.9	60.6	60.8	124.6
„ 12,...	60.7	60.6	61.0	60.8	61.0	61.3	61.3	62.2	63.0	61.9	61.7	61.0	60.8	60.2	57.7	58.1	55.8	54.7	53.5	53.1	52.0	50.9	49.5	49.4	58.0	131.7
„ 13,...	48.8	48.5	48.2	47.5	47.1	46.3	46.6	48.1	50.4	50.6	49.8	50.5	50.8	52.1	52.4	50.6	49.8	49.6	49.0	49.1	49.4	50.1	51.0	51.8	49.5	120.4
„ 14,...	49.3	49.0	48.3	47.2	46.3	46.8	47.6	48.2	50.5	51.8	52.6	53.7	52.5	52.6	52.4	52.0	52.1	52.2	52.3	52.4	51.4	50.5	50.2	52.6	50.6	121.3
„ 15,...	53.2	53.6	51.9	50.0	49.2	47.8	47.4	47.3	48.2	49.0	51.0	52.2	53.8	54.3	55.0	53.8	53.3	55.1	55.0	55.7	55.2	57.6	57.0	55.6	52.6	121.4
„ 16,...	54.0	52.0	50.3	50.0	48.7	48.7	48.1	49.0	50.7	51.9	53.1	54.2	55.8	56.8	56.1	55.8	56.6	57.4	57.1	57.6	58.4	58.1	57.6	57.4	54.0	115.0
„ 17,...	57.0	56.4	55.8	55.4	54.6	54.8	54.7	55.1	56.5	57.6	57.7	57.6	57.8	59.7	59.8	59.1	58.5	58.1	59.5	59.6	60.3	59.8	59.7	60.0	57.7	143.1
„ 18,...	59.4	59.3	58.5	58.3	58.5	58.6	57.9	58.2	60.4	60.8	60.5	60.4	61.0	61.6	62.4	61.8	61.9	61.9	61.2	62.0	61.6	59.8	58.0	58.5	60.1	126.0
„ 19,...	57.6	58.4	57.5	59.8	60.0	60.6	57.9	57.2	56.1	57.3	57.3	57.3	58.1	58.6	57.6	57.8	56.2	55.4	55.3	54.8	54.6	54.6	54.8	55.0	57.1	112.6
„ 20,...	55.1	55.4	57.2	57.7	58.3	55.3	53.8	52.5	52.5	53.8	54.1	53.8	54.1	54.5	55.0	54.7	54.5	53.8	53.8	53.9	54.7	55.8	57.1	57.0	54.9	97.5
„ 21,...	57.0	56.1	56.7	56.7	56.6	56.3	†54.8	55.3	56.8	57.0	58.0	57.9	56.6	57.1	56.4	56.8	57.0	57.0	57.8	57.9	57.8	57.5	57.5	57.4	56.9	124.3
„ 22,...	56.8	56.8	56.7	56.6	56.5	56.9	56.4	57.3	58.1	57.5	57.5	58.6	58.9	58.8	58.7	58.8	58.7	58.7	58.7	58.8	58.6	59.0	58.6	58.7	57.9	126.7
„ 23,...	58.8	58.5	58.6	58.1	58.0	58.0	57.9	58.7	60.6	61.7	62.0	62.0	60.8	63.1	63.0	62.0	61.0	61.0	60.5	60.7	60.3	59.9	59.9	59.6	60.2	138.4
„ 24,...	59.6	58.8	58.9	58.6	58.5	58.4	57.4	58.5	59.4	60.3	60.2	60.4	61.2	60.7	61.1	61.1	60.3	58.4	57.3	57.3	60.7	60.1	60.0	60.0	59.5	134.6
„ 25,...	59.6	59.5	59.5	58.5	58.4	58.3	58.0	58.5	58.9	60.2	60.0	61.6	62.1	61.0	60.5	60.1	60.0	60.0	60.1	60.0	59.7	59.8	59.7	59.6	59.7	132.7
„ 26,...	59.8	59.8	60.5	60.8	60.9	60.8	59.8	58.3	57.1	57.4	58.5	59.4	58.8	59.2	58.8	56.9	55.7	55.1	53.6	52.6	51.5	50.4	49.4	49.3	56.8	119.2
„ 27,...	48.5	48.4	48.1	48.7	49.1	49.8	49.5	50.2	50.0	50.3	52.2	52.7	53.9	54.7	55.3	55.1	55.1	54.9	54.0	54.3	54.7	55.5	55.5	56.2	52.4	115.5
„ 28,...	56.0	56.3	55.9	56.4	54.9	54.9	55.6	56.3	57.1	57.1	57.3	58.0	58.1	57.9	58.2	58.1	57.8	†57.3	58.0	57.2	57.4	57.8	57.5	56.8	57.0	130.7
„ 29,...	56.9	56.9	57.0	57.2	57.0	56.8	56.9	58.5	58.0	58.8	60.1	60.9	60.5	59.0	59.6	59.8	58.4	58.4	57.7	58.6	58.9	58.8	59.5	59.6	58.5	122.5
„ 30,...	59.3	59.2	59.3	58.8	58.6	58.8	58.3	60.0	61.4	62.3	62.6	*63.2	63.8	64.6	64.4	64.0	63.2	63.3	61.8	61.6	61.0	61.4	61.1	60.5	61.4	129.7
„ 31,...	60.6	60.6	60.6	60.7	60.3	60.3	60.6	61.6	63.4	63.0	62.8	62.7	62.6	62.5	62.8	62.0	61.6	61.4	61.0	60.2	61.1	61.1	61.2	61.2	61.5	129.7
Hourly Mean ...	56.2	56.0	55.7	55.5	55.2	55.0	54.8	55.4	56.3	57.0	57.4	57.9	58.2	58.5	58.4	58.0	57.2	57.0	56.7	56.6	56.7	56.6	56.5	56.5	56.6	123.8

* Interpolated. † Approximate Reading.

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF DECEMBER, 1889.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1889.		
1 a	74	0.397	Dec. 1,.....	76	0.428
2 „	74	.394	„ 2,.....	68	.333
3 „	73	.388	„ 3,.....	58	.288
4 „	73	.387	„ 4,.....	31	.150
5 „	72	.380	„ 5,.....	47	.225
6 „	72	.377	„ 6,.....	64	.364
7 „	69	.366	„ 7,.....	75	.497
8 „	66	.365	„ 8,.....	70	.500
9 „	62	.368	„ 9,.....	70	.458
10 „	60	.372	„ 10,.....	72	.452
11 „	59	.375	„ 11,.....	81	.486
Noon.	60	.383	„ 12,.....	63	.392
1 p	59	.386	„ 13,.....	54	.258
2 „	59	.392	„ 14,.....	55	.268
3 „	61	.394	„ 15,.....	57	.297
4 „	63	.397	„ 16,.....	63	.333
5 „	65	.390	„ 17,.....	70	.406
6 „	69	.399	„ 18,.....	68	.440
7 „	69	.393	„ 19,.....	52	.342
8 „	70	.394	„ 20,.....	62	.344
9 „	72	.399	„ 21,.....	72	.398
10 „	72	.397	„ 22,.....	75	.423
11 „	71	.397	„ 23,.....	77	.467
Midt.	72	.400	„ 24,.....	74	.448
			„ 25,.....	80	.466
			„ 26,.....	69	.389
			„ 27,.....	64	.317
			„ 28,.....	72	.400
			„ 29,.....	75	.434
			„ 30,.....	76	.484
			„ 31,.....	81	.502
Mean,.....	67	0.387	Mean.	67	0.387

TABLE V.

DURATION OF SUNSHINE.

Date.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	Sums.
1889.														
Dec. 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,.....	...	0.1	0.5	...	...	...	...	...	...	...	...	...	...	0.6
„ 3,.....	...	0.4	0.6	...	...	0.1	0.1	0.5	0.9	1.0	1.0	0.6	...	5.2
„ 4,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	...	...	9.1
„ 5,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.8
„ 6, ...	...	...	...	...	0.1	0.2	...	...	0.1	...	...	...	...	0.4
„ 7,.....	...	...	...	...	...	...	0.1	...	...	...	...	...	...	0.1
„ 8,.....	...	...	...	0.1	0.1	0.9	1.0	1.0	1.0	1.0	0.1	...	...	5.2
„ 9,.....	...	...	...	...	...	0.7	1.0	0.7	0.3	1.0	0.8	0.2	...	4.7
„ 10,.....	...	...	...	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	6.6
„ 11,.....	...	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	8.7
„ 12,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	0.1	...	9.1
„ 13,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.9
„ 14,.....	...	0.3	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	9.0
„ 15,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	9.7
„ 16,.....	...	...	...	...	...	...	...	...	0.3	1.0	0.9	0.3	...	2.5
„ 17,.....	...	...	...	...	...	0.2	0.7	0.4	0.1	...	...	...	...	1.4
„ 18,.....	...	...	0.1	0.9	0.4	...	...	...	...	...	...	...	...	1.4
„ 19,.....	...	...	...	...	...	...	...	...	...	...	0.4	...	...	0.4
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	1.0	1.0	1.0	0.6	0.6	0.6	0.2	...	...	...	...	5.0
„ 22,.....	...	...	0.1	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	8.3
„ 23,.....	...	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.1	...	8.3
„ 24,.....	...	...	0.7	0.1	0.6	0.5	1.0	1.0	1.0	1.0	1.0	0.4	...	7.3
„ 25,.....	...	...	...	0.1	1.0	1.0	0.5	0.1	...	...	0.1	...	...	2.8
„ 26,.....	...	...	...	...	0.1	...	0.1	...	0.1	0.9	...	...	...	1.2
„ 27,.....	...	...	...	...	...	...	...	...	0.6	0.7	...	...	...	1.3
„ 28,.....	...	...	...	...	0.1	0.1	0.2	0.7	0.1	0.5	0.1	...	...	1.8
„ 29,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.7
„ 30,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	9.4
„ 31,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	0.1	...	0.7	...	...	...	6.1
Sums,.....	00	3.0	12.5	14.0	15.7	17.3	18.3	17.1	16.6	19.8	16.1	4.6	00	155.0

TABLE VI.

RAINFALL FOR THE MONTH OF DECEMBER, 1889.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Sums.	Duration Hours.	Victoria Peak.
Dec. 1,.....	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	1	...
„ 2,.....	0.005	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	1	...
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.05
„ 7,.....	...	...	...	...	...	...	...	...	...	0.015	0.005	0.020	...	...	...	...	...	...	...	...	...	...	...	...	0.040	2	...
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,.....	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	3	...
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
„ 26,.....	...	...	...	...	...	...	0.090	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.105	3	?
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.005	0.015	...	0.005	...	0.005	0.090	0.015	...	0.015	0.005	0.020	...	...	...	...	...	...	...	...	...	...	...	...	0.175	11	0.05

The daily duration of rain at the Observatory is entered from estimation.
The rainfall at Victoria Peak is measured at 10 a. and entered to preceding day.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF DECEMBER, 1889.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
Dec. 1	...	0	32	3	32	3	32	10	32	9	1	9	32	4	1	3	1	5	31	12	32	20	32	17	32	13	1	12	1	10	30	11	29	9	1	12	1	18	2	13	1	20	1	22	1	15	32	18	268	11.2	32
" 2	32	18	32	15	31	10	32	7	1	15	1	21	1	21	1	17	29	6	1	8	32	18	32	14	32	14	32	11	32	15	1	13	2	15	32	7	32	7	2	11	1	11	1	21	31	8	31	4	307	12.8	32
" 3	32	3	1	6	32	5	32	11	32	10	1	15	32	10	31	11	31	11	32	12	1	13	1	10	31	13	1	17	1	16	32	15	32	17	1	15	32	15	31	23	32	21	32	25	2	28	32	32	354	14.7	32
" 4	1	26	13	8	18	9	24	12	28	8	15	12	1	17	1	18	1	15	1	22	32	25	31	20	32	15	30	12	30	11	31	15	32	10	2	9	1	13	1	15	1	21	1	27	1	24	1	15	379	15.8	32
" 5	3	12	4	6	2	10	2	9	3	7	9	3	6	12	5	21	5	21	5	25	6	21	9	24	9	19	9	17	9	12	7	11	6	14	7	17	5	15	5	12	5	13	4	15	5	15	5	18	349	14.5	6
" 6	6	26	5	25	5	22	6	20	7	20	6	19	7	22	6	21	5	17	5	16	7	17	7	16	9	13	8	15	8	18	7	17	7	20	6	15	7	12	8	16	9	15	6	11	7	25	7	24	442	18.4	7
" 7	7	19	7	22	7	15	8	13	8	13	8	9	9	10	10	14	8	12	9	4	14	3	15	2	14	3	23	7	23	5	...	1	23	2	23	9	22	8	22	5	22	5	22	6	...	1	22	4	192	8.0	9
" 8	22	2	23	4	23	2	23	4	3	4	1	8	32	13	2	11	2	7	23	4	21	8	21	8	23	12	23	13	23	16	23	17	23	14	23	10	24	7	23	4	8	9	7	11	7	15	7	14	217	9.0	25
" 9	7	16	7	14	7	15	7	17	7	13	1	3	13	4	5	7	1	10	10	7	31	12	11	5	11	6	11	7	23	4	30	4	25	9	25	5	25	4	9	16	7	18	7	18	7	19	7	23	256	10.7	7
" 10	7	23	7	26	6	27	6	23	7	23	7	31	7	25	6	14	7	13	8	13	9	16	9	22	9	16	10	17	10	17	9	20	9	17	7	19	7	15	7	16	7	18	7	19	6	20	6	18	468	19.5	7
" 11	6	22	5	19	6	20	7	19	7	23	7	23	7	27	7	24	8	26	7	27	9	24	10	21	9	17	9	17	8	16	8	13	8	11	8	8	8	3	...	1	10	2	...	0	...	0	...	0	363	15.1	7
" 12	...	1	10	2	...	1	...	1	15	5	1	15	1	13	1	12	1	11	1	23	1	21	1	24	1	22	1	22	1	29	1	29	2	30	1	34	1	36	1	26	3	21	1	20	1	29	1	24	451	18.8	1
" 13	1	24	1	25	1	23	1	24	1	21	32	17	1	11	32	15	1	10	1	9	3	12	5	13	4	10	2	10	1	13	3	10	3	9	3	6	3	8	2	10	1	11	1	7	1	9	4	18	325	13.5	2
" 14	32	15	32	15	32	16	1	14	1	13	1	8	32	4	1	7	1	11	24	8	23	9	22	7	9	17	9	15	10	11	10	10	9	11	10	7	10	5	6	3	6	5	3	5	3	6	3	7	229	9.5	4
" 15	3	4	3	14	1	12	1	11	32	15	32	18	32	14	1	18	1	16	1	14	4	10	6	15	8	14	8	12	8	13	5	13	5	12	6	10	6	8	4	8	3	7	5	11	5	14	3	11	294	12.3	3
" 16	1	9	32	8	32	13	32	12	32	13	32	7	32	6	32	6	3	8	5	13	4	15	5	13	9	14	11	16	9	16	8	16	8	18	7	19	7	16	7	20	7	22	7	30	7	33	7	35	378	15.7	6
" 17	7	35	7	36	5	25	6	17	7	16	7	16	8	14	7	15	8	13	10	14	7	13	9	15	10	14	10	10	9	13	9	17	9	18	7	18	7	16	7	17	7	21	6	22	7	30	7	26	451	18.8	7
" 18	6	11	6	9	7	7	5	4	7	4	7	4	7	4	7	6	8	9	9	11	9	16	10	11	10	8	9	7	9	2	...	1	9	3	...	1	...	0	14	3	...	1	...	1	1	7	1	4	134	5.6	8
" 19	32	11	2	6	12	4	9	15	9	14	9	11	8	5	3	5	1	7	31	6	1	14	1	10	32	11	32	10	31	13	32	11	32	9	32	10	32	16	32	16	1	14	32	7	3	7	6	9	241	10.0	2
" 20	5	8	5	12	5	12	5	16	6	14	32	10	32	15	1	17	32	18	1	12	32	10	32	11	32	14	32	10	1	2	3	4	1	7	1	4	1	5	1	7	5	11	4	11	7	17	7	23	270	11.3	3
" 21	7	23	7	26	5	19	4	15	7	22	7	28	7	26	7	22	7	16	5	18	8	16	10	24	10	23	8	21	8	22	7	20	7	23	7	19	7	24	7	25	7	23	7	24	7	29	7	29	537	22.4	7
" 22	7	27	6	20	7	21	5	13	6	19	8	23	8	23	7	18	8	17	8	19	9	24	9	17	9	23	8	24	8	24	10	24	8	22	7	21	7	22	7	21	6	18	6	17	7	20	7	18	495	20.6	8
" 23	7	21	7	17	7	13	7	18	7	19	7	19	7	15	8	8	10	5	24	6	21	8	24	5	13	2	24	9	24	9	24	6	26	6	26	4	26	3	26	2	26	3	7	7	7	2	...	1	208	8.7	7
" 24	10	3	10	3	10	2	10	2	...	1	10	2	23	5	25	2	22	3	24	7	22	9	20	8	23	9	22	10	21	14	21	10	20	8	32	3	1	6	5	14	7	18	7	22	7	22	7	23	206	8.6	9
" 25	7	25	7	23	7	24	7	23	7	21	6	19	7	17	7	13	5	9	5	11	7	16	9	14	9	14	9	17	9	18	9	20	9	22	9	19	9	18	8	22	9	21	9	22	8	16	9	12	436	18.2	8
" 26	9	10	...	1	9	4	9	3	...	1	1	6	2	4	3	15	3	15	1	18	32	11	31	7	32	6	1	5	1	10	32	14	2	14	1	12	3	18	1	20	1	17	1	23	32	19	32	11	264	11.0	2
" 27	32	10	32	9	2	12	1	3	...	1	1	3	2	5	5	11	4	21	4	24	5	20	6	24	7	24	7	22	8	18	7	13	7	9	8	7	7	6	7	8	6	9	5	7	4	8	6	9	283	11.8	5
" 28	5	6	4	6	4	7	8	14	8	16	8	16	7	16	7	14	7	13	8	13	9	14	10	13	10	10	9	13	9	12	9	9	9	5	9	2	9	4	9	14	9	15	8	10	8	6	5	3	251	10.5	8
" 29	11	2	...	0	11	3	11	3	...	0	11	2	11	2	11	3	11	4	22	3	8	14	9	19	9	21	9	18	9	17	9	18	9	13	9	13	9	12	9	15	10	11	9	14	10	13	10	12	232	9.7	9
" 30	10	9	8	13	8	9	8	4	...	0	...	1	32	2	32	2	6	2	21	2	20	4	22	7	23	8	24	6	26	6	27	4	27	5	...	1	...	0	...	0	7	12	7	14	8	11	8	10	132	5.5	8
" 31	10	11	10	7	9	12	8	19	8	18	8	16	10	12	10	14	10	10	11	16	11	23	10	20	9	17	9	19	8	17	8	16	8	13	8	17	9	15	9	15	7	16	7	21	7	18	6	18	380	15.8	9
Sums	...	432	...	400	...	377	...	376	...	378	...	394	...	378	...	384	...	361	...	397	...	456	...	436	...	422	...	421	...	419	...	402	...	395	...	353	...	355	...	398	...	429	...	470	...	486	...	473	9792	408.0	...
Hourly Means	...	13.9	...	12.9	...	12.2	...	12.1	...	12.2	...	12.7	...	12.2	...	12.4	...	11.6	...	12.8	...	14.7	...	14.1	...	13.6	...	13.6	...	13.5	...	13.0	...	12.7	...	11.4	...	11.5	...	12.8	...	13.8	...	15.2	...	15.7	...	15.3	315.9	13.2	...

TABLE VIII.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND, FOR DECEMBER, 1889.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	6.42	9.87	0.42	0.06	+6.00	+9.81	E 31° N
2 „	5.84	9.32	0.39	0.13	5.45	9.19	E 31° N
3 „	6.03	8.32	0.55	0.26	5.48	8.06	E 34° N
4 „	5.48	8.32	0.26	0.52	5.22	7.80	E 34° N
5 „	5.10	8.71	0.26	0.19	4.84	8.52	E 30° N
6 „	5.84	8.34	0.55	0.00	5.29	8.34	E 32° N
7 „	5.64	7.77	0.35	0.16	5.29	7.61	E 35° N
8 „	6.77	8.00	0.45	0.13	6.32	7.87	E 39° N
9 „	6.32	7.23	0.29	0.29	6.03	6.94	E 41° N
10 „	6.58	7.32	0.77	1.06	5.81	6.26	E 43° N
11 „	6.42	8.42	1.74	1.10	4.68	7.32	E 33° N
Noon.	4.71	9.13	2.52	1.10	2.19	8.03	E 15° N
1 p.	4.23	8.97	2.23	1.03	2.00	7.94	E 14° N
2 „	3.58	8.87	1.81	1.58	1.77	7.29	E 13° N
3 „	3.77	8.39	1.39	1.80	2.38	6.59	E 19° N
4 „	4.58	8.06	1.26	1.39	3.32	6.67	E 25° N
5 „	4.61	8.29	0.87	1.45	3.74	6.84	E 28° N
6 „	4.68	7.45	0.45	0.90	4.23	6.55	E 33° N
7 „	5.48	7.00	0.48	0.68	5.00	6.32	E 38° N
8 „	5.84	8.45	0.58	0.48	5.26	7.97	E 33° N
9 „	6.36	9.81	0.55	0.26	5.81	9.55	E 31° N
10 „	7.65	10.26	0.29	0.16	7.36	10.10	E 36° N
11 „	7.23	11.45	0.16	0.06	7.07	11.39	E 32° N
Midt.	6.90	11.10	0.29	0.16	+6.61	+10.94	E 31° N
Mean, ...	5.67	8.70	0.79	0.62	+4.88	+8.08	E 31° N

TABLE IX.

VICTORIA PEAK.

Date.	Barometer.			Temperature.					Wind.					
	10 a.	4 p.	10 p.	10 a.	4 p.	10 p.	Max.	Min.	10 a.		4 p.		10 p.	
									Direction.	Force.	Direction.	Force.	Direction.	Force.
1889.														
Dec. 1	28.16	28.10	28.18	57	58	51	61	51	NE	4	N	5	NE	4
„ 2	.25	.18	.20	54	54	53	57	51	NE	4	NE	4	N	4
„ 3	.27	.21	.20	54	54	51	56	49	N	3	N	4	N	6
„ 4	.26	.18	.22	51	52	49	55	47	N	7	N	6	N	5
„ 5	.22	.18	.22	51	54	50	54	47	ENE	5	ENE	4	E	4
„ 6	.24	.17	.21	53	56	54	57	50	ENE	5	E	4	E	5
„ 7	.24	.17	.20	59	62	61	62	54	E	4	ENE	4	ENE	4
„ 8	.19	.13	.15	63	65	62	67	60	NNE	3	NNE	3	E	4
„ 9	.22	.13	.17	60	64	59	65	58	ENE	3	ENE	2	E	4
„ 10	.19	.12	.18	60	63	58	63	57	E	4	E	3	E	5
„ 11	.21	.18	.20	58	65	61	65	57	E	5	E	2	E	3
„ 12	.30	.26	.27	62	61	57	64	49	ENE	4	NNE	5	NNE	5
„ 13	.42	.32	.39	53	55	51	57	49	ENE	4	ENE	4	ENE	4
„ 14	.42	.33	.37	53	58	54	58	50	ENE	3	ENE	2	NE	4
„ 15	.44	.36	.38	54	57	54	57	51	ENE	4	E	4	E	4
„ 16	.39	.30	.29	52	57	55	57	50	ENE	4	E	3	E	5
„ 17	.35	.27	.27	55	59	56	59	50	ENE	4	E	2	E	5
„ 18	.34	.27	.29	58	61	59	62	56	E	3	ENE	4	ENE	4
„ 19	.34	.27	.32	59	61	56	61	56	E	4	NE	3	NE	4
„ 20	.39	.30	.36	55	56	53	61	53	NE	4	ENE	4	ENE	5
„ 21	.37	.31	.36	56	56	53	58	53	E	5	E	5	E	5
„ 22	.38	.31	.31	56	57	55	62	53	E	4	E	3	E	4
„ 23	.34	.24	.27	59	64	60	65	55	E	3	E	2	E	2
„ 24	.31	.24	.26	60	63	58	63	58	NE	3	NNW	3	E	4
„ 25	.32	.26	.29	58	59	60	62	57	E	4	E	4	E	3
„ 26	.39	.33	.36	57	57	55	61	54	N	4	NE	4	NE	4
„ 27	.38	.31	.39	51	53	52	55	51	E	4	E	4	E	4
„ 28	.33	.24	.27	54	60	57	60	52	E	3	E	2	E	2
„ 29	.27	.18	.20	61	63	61	64	56	E	2	E	1	E	4
„ 30	.21	.10	.13	64	68	62	69	58	NE	3	NE	1	E	4
„ 31	.15	.10	.11	63	65	61	66	59	E	5	ENE	2	E	4
Mean,	28.300	28.227	28.259	56.8	59.3	56.1	60.7	53.3	E 24° N	3.9	E 31° N	3.3	E 20° N	4.1

TABLE X.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1889.												
Dec. 1, ...	10	cum-nim.	...	10	cum-nim.	...	10	str-cum.	NE	10	str-cum.	NE
„ 2, ...	10	nim.	...	10	cum-nim.	...	7	sm-cum.	NW	10	str-cum.	E
„ 3, ...	10	cum.	...	10	cum.	...	3	sm-cum.	NNW	10	sm-cum.	N
„ 4, ...	0	...	...	0	...	...	1	c-str.	...	0	...	...
„ 5, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 6, ...	9	cum.	SE	10	cum.	SE	10	sm-cum. / cum.	SW / ESE	8	sm-cum. / cum.	SSW / E
„ 7, ...	10	cum.	S	10	cum.	S	10	str-cum.	S	10	cum-nim.	E
„ 8, ...	9	sm-cum.	SW	10	sm-cum.	SW	8	sm-cum.	W	9	sm-cum.	W
„ 9, ...	10	cum.	W	10	nim.	...	10	sm-cum. / cum.	W / NE	9	sm-cum. / cum.	W / E
„ 10, ...	10	cum.	E	10	cum.	E	10	sm-cum. / cum.	W / E	9	sm-cum. / cum.	W / E
„ 11, ...	8	cum.	E	9	sm-cum. / cum.	W / E	7	cum.	E	1	cum.	ENE
„ 12, ...	0	...	...	0	...	...	2	sm-cum.	N	1	cum.	ENE
„ 13, ...	10	cum.	N	7	cum.	N	2	cum.	E	2	c-str.	W
„ 14, ...	10	str-cum.	...	6	sm-cum.	SW	2	c-cum.	WNW	0	...	...
„ 15, ...	10	cum.	NE	2	cum.	NE	0	...	...	0	...	...
„ 16, ...	8	cum.	SSE	10	cum.	S	10	sm-cum.	SE	9	sm-cum.	SE
„ 17, ...	7	cum.	...	0	...	...	10	sm-cum.	SE	9	sm-cum.	SE
„ 18, ...	10	cum.	...	9	cum.	W	6	c-cum. / sm-cum.	W / W	9	sm-cum. / cum.	W / E
„ 19, ...	10	str-cum.	...	10	cum.	...	10	str.	...	10	str-cum.	...
„ 20, ...	10	str-cum.	...	10	str-cum.	...	10	str. / cum.	NE	10	str-cum.	...
„ 21, ...	10	str-cum.	...	10	str-cum.	...	2	c-str. / cum.	ENE	4	c-cum.	SSE
„ 22, ...	10	str-cum.	...	10	str-cum.	...	9	cum.	E	1	sm-cum.	...
„ 23, ...	9	cum.	...	9	cum.	ENE	10	R-cum.	ENE	7	sm-cum.	WSW
„ 24, ...	0	...	...	2	cum.	...	5	sm-cum.	W	5	sm-cum.	W
„ 25, ...	10	str-cum.	...	10	cum-nim.	...	10	cum-nim.	ENE	7	cum.	E
„ 26, ...	10	cum.	...	10	cum-nim.	...	10	nim.	NE	10	str-cum.	W
„ 27, ...	0	...	...	10	cum.	...	10	str-cum.	NE	10	str-cum.	NE
„ 28, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	W	10	sm-cum.	W
„ 29, ...	0	...	...	10	cum.	...	0	...	...	0	...	...
„ 30, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 31, ...	2	cum.	...	9	cum.	...	8	cum.	ENE	1	cum.	...
Mean, ...	7.2	...	...	7.5	...	...	6.5	...	...	5.8	...	...

TABLE X,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Daily and Monthly Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1889.													
Dec. 1,...	10	str-cum.	NE	10	str-cum.	NE	10	str-cum.	NE	10	str-cum.	NE	10.0
„ 2,...	10	str-cum.	E	10	R-cum.	NE	1	cum.	E	1	c-str. / cum.	E	7.4
„ 3,...	9	sm-cum. / cum.	N / E	1	sm-cum.	N	1	c-str.	WSW	1	c-str.	WSW	5.6
„ 4,...	0	...	...	0	...	...	0	...	...	0	...	...	0.1
„ 5,...	0	...	...	0	...	...	0	...	...	1	cum.	SE	0.1
„ 6,...	9	sm-cum. / cum.	SSW / E	10	sm-cum. / cum.	E	10	sm-cum. / cum.	SSW / E	10	sm-cum. / cum.	S / E	9.5
„ 7,...	10	sm-cum. / cum.	S / E	9	sm-cum. / cum.	S / SSW	10	cum.	SSW	1	sm-cum.	WSW	8.7
„ 8,...	3	sm-cum.	W	8	sm-cum.	W	10	sm-cum.	W	10	sm-cum.	W	8.4
„ 9,...	6	sm-cum. / cum.	W / E	1	sm-cum.	W	10	sm-cum. / cum-nim.	W / E	10	cum.	NE	8.3
„ 10,...	1	cum.	...	0	...	...	0	...	...	3	c-str. / cum.	WSW / ESE	5.4
„ 11,...	0	...	...	0	...	...	0	...	...	0	...	...	3.1
„ 12,...	1	sm-cum.	...	1	sm-cum.	...	10	cum.	...	7	cum.	ENE	2.7
„ 13,...	2	c-str.	W	1	c-cum.	W	0	...	...	10	cum-nim.	...	4.3
„ 14,...	0	...	...	1	c-cum.	...	0	...	...	0	...	...	2.4
„ 15,...	0	...	...	0	...	...	0	...	...	10	cum-nim.	...	2.7
„ 16,...	9	sm-cum.	SE	2	sm-cum.	...	5	c-str.	...	10	cum-nim.	E	7.9
„ 17,...	9	sm-cum.	SE	10	R-cum.	SE	10	R-cum.	...	10	cum-nim.	...	8.1
„ 18,...	10	sm-cum. / cum.	W / E	10	sm-cum. / str-cum.	W / E	9	cum-nim.	E	10	cum-nim.	...	9.1
„ 19,...	10	str-cum.	...	7	c-cum. / sm-cum.	W / W	6	cum.	...	9	str-cum.	...	9.0
„ 20,...	10	str-cum.	...	9	cum.	NE	9	str-cum.	...	10	cum-nim.	...	9.8
„ 21,...	3	c-cum. / sm-cum.	SE / E	9	sm-cum. / cum.	NE	10	str.	...	9	cum.	ENE	7.1
„ 22,...	1	sm-cum.	...	1	sm-cum.	...	0	...	...	2	cum.	ENE	4.2
„ 23,...	0	...	...	2	sm-cum.	WSW	0	...	...	0	...	...	4.6
„ 24,...	0	...	...	0	...	...	0	...	...	10	cum-nim.	...	2.8
„ 25,...	10	cum.	E	9	cum.	E	10	cum-nim.	...	10	cum-nim.	...	9.5
„ 26,...	10	str-cum.	...	7	c-str. / sm-cum.	E / ..	10	cum.	...	1	cum.	...	8.5
„ 27,...	10	str-cum.	NE	10	R-cum.	NE	10	cum.	S	10	cum-nim.	...	8.7
„ 28,...	7	sm-cum.	W	9	sm-cum.	WNW	10	sm-cum.	WNW	9	sm-cum.	NW	9.4
„ 29,...	0	...	...	0	...	...	0	...	...	0	...	...	1.3
„ 30,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 31,...	9	c-cum.	SSW	10	sm-cum.	SSW	10	cum.	SW	10	cum.	SW	7.4
Mean,...	5.1	...	...	4.7	...	...	5.2	...	...	5.9	...	...	6.0

Appendix A.

HONGKONG OBSERVATORY.

Hourly Readings of Tides in 1887 and 1888.

The following hourly readings of tides, expressed in hundredths of a foot were obtained by aid of Sir WILLIAM THOMSON's automatic tide-gauge, which was mounted in a hut in the boat basin belonging to the Police Station at Kowloon Point. This basin is situated in the south-western corner of the peninsula of Kowloon and occupies therefore a central position in the harbour of Hongkong. The waves are not much felt in this basin as the prevailing wind and waves come from the East.

At the bottom of the monthly tables are shown the mean monthly readings for the twenty-four hours. The readings for Mean Sea Level were deduced from them as follows :—

Mean Sea Level.

1887, January,	6.04	1888, January,	5.55
February,	5.92	February,	5.79
March,	5 88	March,	5.60
April,	5.57	April,	5.57
May,	5.74	May,	5.57
June,	5.56	June,	5.75
July,	5.74	July,	5.87
August,	5.45	August,	5.54
September,	6.40	September,	6.27
October,	6.54	October,	6.22
November,	6.21	November,	6.07
December,	5.88	December,	5.83
Year,	5.91	Year,	5.80

Six bench-marks have been placed on buildings in Kowloon. When the surface of the sea touches bench-mark No. 2 the scale reads 8.81. This has been determined from observations extended over two years. The heights in feet and decimals of the other bench-marks above No. 2 have been determined by the Public Works Department :—

Height above Mean Sea Level of Bench-marks in Kowloon.

No.	*Situation.*	*Height above M.S.L.*
1.	Har. Wall Landing-Pier	3.84
2.	Near Tidal Hut,	2.95
3.	West Wall of Police Station,	48.57
4.	Time-ball Tower,	46.10
5.	S.E. Corner of Naval Yard,	11.33
6.	Verandah of Observatory,	106.35

The coping level of the harbour wall near the landing pier is 6.92 above M.S.L.

From the following extreme hourly readings it is seen that the range of changes in sea-level amounts to 9½ feet :—

Extremes of High and Low Water.

	High.	*Low.*		*High.*	*Low.*
1887, January,	9.90	1.40	1888, January,	9.90	1.80
February,	9.90	2.05	February,	9.50	1.85
March,	9.55	1.95	March,	9.10	2.30
April,	8.85	2.00	April,	9.20	1.50
May,	9.25	2.10	May,	9.60	1.60
June,	9.50	1.50	June,	9.50	1.10
July,	9.75	2.05	July,	9.75	1.90
August,	9.20	1.70	August,	9.00	1.35
September,	10.60	2.65	September,	9.60	2.45
October,	10.00	2.55	October,	9.65	2.50
November,	10.25	2.30	November,	10.05	2.35
December,	10.40	2.10	December,	9.85	1.20
Year,	10.60	1.40	Year,	10.05	1.10

TIDES FOR THE MONTH OF JANUARY, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Jan. 1,...	730	685	630	535	440	355	315	320	355	430	495	530	565	580	590	575	570	535	530	540	575	625	670	685	...
„ 2,...	675	650	615	555	480	410	360	325	345	390	445	505	540	580	605	605	600	580	555	535	530	565	595	620	...
„ 3,...	680	620	615	570	585	460	425	385	375	395	440	515	580	605	655	680	695	675	665	620	595	590	590	605	...
„ 4,...	620	640	550	655	630	595	580	495	475	475	500	540	605	660	700	735	760	745	710	680	625	590	555	545	...
„ 5,...	555	555	590	590	615	595	580	530	495	490	485	515	565	630	680	725	765	760	730	680	605	530	465	430	...
„ 6,...	460	450	475	520	540	570	565	555	525	485	485	495	530	605	680	740	800	830	840	800	730	635	560	470	...
„ 7,...	480	415	435	480	540	605	650	645	615	560	525	520	550	610	680	755	830	870	905	885	820	720	590	470	...
„ 8,...	385	360	350	395	475	540	590	620	625	585	550	510	510	555	620	720	810	890	925	940	905	810	685	530	...
„ 9,...	390	310	280	310	380	460	550	615	655	640	595	545	525	535	605	685	770	875	930	980	990	935	810	640	...
„ 10,...	465	340	260	265	320	415	510	570	645	635	615	565	525	495	515	570	675	790	905	945	960	945	865	730	...
„ 11,...	570	370	200	140	190	255	395	500	565	600	580	560	515	475	445	460	545	660	800	900	935	935	905	810	...
„ 12,...	675	490	320	200	170	195	295	420	525	615	650	635	580	510	490	480	535	630	735	835	905	950	980	935	...
„ 13,...	820	650	475	325	235	220	275	385	490	570	650	655	635	575	520	475	475	530	620	710	810	870	900	905	...
„ 14,...	850	740	570	425	300	235	245	315	430	515	605	665	680	630	580	520	495	500	550	615	715	790	825	875	...
„ 15,...	870	820	710	570	435	360	330	365	420	530	580	670	735	720	710	625	590	560	570	590	650	705	745	785	...
„ 16,...	825	835	780	680	555	465	405	400	435	490	565	630	715	750	765	735	680	630	605	585	615	605	665	680	...
„ 17,...	715	730	750	705	645	575	485	450	430	485	530	590	650	690	745	755	735	685	630	565	525	515	515	550	...
„ 18,...	575	595	620	635	630	600	545	495	460	460	515	590	660	690	765	825	835	815	765	680	615	560	525	500	...
„ 19,...	515	525	560	610	640	640	620	570	530	520	515	560	620	670	745	785	825	830	790	725	630	540	465	430	...
„ 20,...	395	415	445	470	530	575	610	590	575	545	510	530	575	630	705	780	840	880	900	835	755	645	545	460	...
„ 21,...	410	380	400	445	490	565	620	655	645	605	585	555	570	625	700	775	855	910	945	945	880	780	640	520	...
„ 22,...	425	375	365	395	450	525	585	650	665	650	625	585	575	590	655	730	820	910	940	955	910	845	725	580	...
„ 23,...	465	365	320	325	375	465	520	590	635	640	615	570	530	515	545	625	730	845	905	925	925	865	790	655	...
„ 24,...	510	380	300	285	310	395	475	555	610	635	615	565	510	475	470	535	650	760	840	870	875	880	825	715	...
„ 25,...	595	440	310	260	240	325	410	495	555	640	635	590	535	510	485	510	580	715	815	860	925	970	925	855	...
„ 26,...	705	545	440	390	365	390	470	500	635	690	765	720	640	585	570	580	655	745	790	880	910	975	980	920	...
„ 27,...	820	650	520	440	405	415	435	510	595	660	725	730	690	645	565	565	580	635	700	770	845	885	920	935	...
„ 28,...	830	720	570	470	405	395	470	495	605	645	710	715	705	655	590	590	555	590	660	700	775	830	855	865	...
„ 29,...	810	725	580	480	395	360	395	455	515	595	625	660	655	625	585	550	540	480	555	615	680	750	760	775	...
„ 30,...	745	700	610	515	435	395	405	435	490	560	600	665	655	660	655	590	570	550	550	580	640	660	725	730	...
„ 31,...	760	735	660	585	500	465	455	455	495	555	600	630	685	700	710	690	635	610	580	600	610	615	635	675	...
Hourly Means, ...	619	555	497	459	440	446	468	495	530	558	579	591	600	606	624	644	677	710	740	753	757	746	717	674	604

TIDES FOR THE MONTH OF FEBRUARY, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Feb. 1, ...	715	715	665	670	570	535	495	490	495	570	625	665	735	760	780	760	725	680	630	605	620	620	625	660	...
„ 2, ...	655	670	685	670	625	580	570	550	550	585	595	645	705	755	730	810	790	725	705	650	600	550	555	555	...
„ 3, ...	570	590	615	630	600	590	565	555	540	640	605	630	690	725	765	800	805	780	750	675	610	545	500	475	...
„ 4, ...	475	485	505	550	575	605	600	585	570	565	570	645	660	725	760	825	850	895	860	795	730	605	535	480	...
„ 5, ...	455	435	460	515	575	610	625	645	625	600	585	590	605	670	750	795	845	885	900	875	780	675	540	420	...
„ 6, ...	365	330	360	430	495	560	615	635	625	600	585	580	570	630	675	750	840	880	930	925	890	780	630	495	...
„ 7, ...	345	285	260	325	410	490	570	625	615	590	560	510	485	505	580	665	770	865	905	935	930	870	750	585	...
„ 8, ...	420	290	225	255	325	435	535	615	660	655	615	530	480	480	505	585	685	810	895	955	990	970	870	705	...
„ 9, ...	510	355	240	225	250	345	455	540	635	670	640	575	500	450	435	485	565	680	795	865	920	950	910	800	...
„ 10, ...	640	450	300	205	225	265	390	515	600	675	695	650	565	480	430	420	480	580	690	805	870	930	945	910	...
„ 11, ...	775	605	435	305	235	250	325	460	560	650	715	715	650	570	470	440	415	480	575	685	795	830	875	870	...
„ 12, ...	815	700	550	410	295	255	315	405	540	630	685	720	695	620	530	460	410	395	465	540	660	735	750	770	...
„ 13, ...	755	705	635	500	380	285	280	355	475	610	670	705	720	680	620	540	475	415	420	465	530	610	650	675	...
„ 14, ...	690	670	645	560	470	385	315	365	430	550	645	685	705	700	660	610	555	470	430	410	435	490	540	570	...
„ 15, ...	600	600	615	590	545	490	460	460	480	560	635	710	760	810	815	790	730	660	600	550	520	515	525	535	...
„ 16, ...	560	580	615	635	610	580	545	545	530	555	610	660	715	750	780	790	760	715	650	570	505	445	420	435	...
„ 17, ...	445	460	465	490	530	545	525	525	515	485	535	580	640	695	735	750	770	755	715	640	560	485	420	405	...
„ 18, ...	375	390	430	460	505	540	580	585	575	570	575	595	645	710	755	800	815	845	825	770	695	585	485	405	...
„ 19, ...	355	345	365	410	465	505	550	570	570	555	540	535	600	605	675	740	800	820	820	790	730	630	510	405	...
„ 20, ...	315	275	270	320	395	455	515	570	560	540	515	485	470	500	555	650	745	815	850	850	820	740	625	510	...
„ 21, ...	405	345	330	360	410	480	550	605	630	600	600	555	520	510	550	630	720	810	865	885	870	815	730	600	...
„ 22, ...	470	360	300	295	340	430	430	505	580	605	490	455	490	450	440	505	580	705	800	840	830	810	740	645	...
„ 23, ...	510	390	290	260	305	370	500	560	620	630	595	580	515	455	425	450	535	655	775	835	870	875	835	745	...
„ 24, ...	625	485	390	340	355	405	520	590	650	695	755	655	580	515	470	465	520	600	720	790	840	845	825	770	...
„ 25, ...	675	540	445	345	330	380	490	575	625	680	695	675	600	515	465	405	415	500	595	715	770	780	795	740	...
„ 26, ...	690	525	455	390	335	360	420	540	600	660	685	690	665	565	480	435	425	455	550	635	725	750	790	765	...
„ 27, ...	725	650	540	470	400	390	445	525	615	675	710	765	715	670	560	495	450	465	530	585	695	715	760	785	...
„ 28, ...	740	700	625	530	495	450	480	520	615	665	715	750	760	715	650	545	500	455	475	530	585	665	715	745	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	560	497	454	434	430	449	488	536	574	609	623	626	623	615	611	621	642	671	704	720	728	708	673	624	592

TIDES FOR THE MONTH OF MARCH, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
March 1,...	745	705	665	590	545	490	505	545	600	685	725	775	790	770	730	670	575	535	530	550	585	625	675	695	...
„ 2,...	720	735	685	645	595	550	545	570	645	685	745	750	800	795	785	735	670	600	555	520	520	535	570	595	...
„ 3,...	635	660	670	650	610	580	550	575	610	650	700	735	775	790	800	780	725	660	580	545	505	495	500	515	...
„ 4,...	525	575	595	610	610	600	580	580	580	625	645	705	740	775	770	775	800	750	690	595	515	470	435	450	...
„ 5,...	450	490	530	575	580	590	605	580	590	600	630	655	680	745	765	785	810	790	770	690	595	495	410	385	...
„ 6,...	370	390	435	490	550	575	590	605	595	580	560	570	605	660	710	775	805	820	810	755	670	555	430	340	...
„ 7,...	285	295	330	420	500	570	625	635	625	585	555	545	550	610	690	765	845	890	920	890	820	700	555	425	...
„ 8,...	330	305	300	360	455	530	620	660	665	605	540	480	475	480	545	635	740	830	865	885	845	780	640	490	...
„ 9,...	335	230	195	245	350	475	570	640	670	635	585	495	440	400	425	515	630	765	850	910	930	885	795	645	...
„ 10,...	470	345	250	255	335	455	595	685	760	765	710	610	500	445	405	465	550	655	770	855	930	955	905	775	...
„ 11,...	625	460	345	285	325	405	560	665	730	795	770	700	585	465	390	340	395	490	650	780	820	865	830	810	...
„ 12,...	705	555	420	285	250	325	450	630	720	740	755	705	620	520	410	295	280	355	460	620	720	735	765	750	...
„ 13,...	710	610	515	390	325	315	415	550	690	755	820	820	795	680	545	455	410	415	465	540	625	695	780	820	...
„ 14,	825	745	645	540	475	465	505	585	690	765	810	840	825	780	680	575	490	395	405	435	505	600	635	670	...
„ 15,...	690	675	650	570	525	480	465	535	610	700	765	805	800	760	745	645	565	465	395	395	420	470	535	555	...
„ 16,...	605	620	620	605	585	540	525	555	595	650	710	775	760	835	815	775	680	580	515	450	460	455	485	500	...
„ 17,...	525	555	590	600	610	580	575	580	575	620	665	700	710	735	735	750	735	650	585	490	435	395	375	390	...
„ 18,...	420	455	495	530	555	615	600	595	620	630	675	685	715	750	760	805	810	780	730	640	580	510	470	440	...
„ 19,...	425	445	475	500	570	610	635	655	625	610	625	630	655	700	740	770	790	780	765	705	600	515	425	375	...
„ 20,...	345	355	375	430	495	540	580	600	595	580	540	520	525	570	645	700	750	765	740	715	650	570	470	380	...
„ 21,...	320	310	325	390	460	535	600	625	630	605	580	545	540	560	620	680	780	820	845	820	785	700	590	475	...
„ 22,...	415	375	395	430	505	570	610	675	685	640	610	555	535	530	575	625	690	770	815	825	815	760	660	545	...
„ 23,...	435	380	375	390	460	545	605	670	700	675	650	575	505	480	475	535	615	705	775	835	830	805	750	615	...
„ 24,...	510	420	370	405	465	575	640	700	745	740	680	585	535	465	465	485	555	655	745	810	830	800	765	660	...
„ 25,...	545	445	375	370	430	500	625	680	720	735	700	640	540	465	425	420	460	550	665	750	790	785	745	680	...
„ 26,...	585	475	405	365	395	475	595	690	720	725	700	645	565	470	385	335	365	435	565	675	720	730	710	655	...
„ 27,...	575	495	420	355	360	425	540	655	710	715	700	655	600	500	405	325	305	360	450	575	655	675	670	630	...
„ 28,...	585	515	445	370	350	400	480	610	690	710	690	655	610	535	450	345	300	295	360	460	580	625	645	625	...
„ 29,...	585	555	490	430	385	400	460	570	675	730	725	705	660	605	520	415	330	295	315	380	485	555	590	610	...
„ 30,...	585	555	505	460	425	415	465	550	635	710	725	725	705	660	590	500	410	335	315	340	395	475	520	550	...
„ 31,...	560	550	530	505	480	450	470	535	605	680	725	745	740	710	675	590	510	425	350	345	350	410	455	505	...
Hourly Means, ...	530	493	465	453	470	503	554	612	655	675	678	662	641	621	602	589	593	600	621	638	644	633	606	566	588

TIDES FOR THE MONTH OF APRIL 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
April 1,...	535	545	540	505	500	500	500	535	585	640	690	710	720	720	710	670	590	505	410	350	320	315	350	390	...
„ 2,...	415	465	480	495	510	510	475	460	495	520	585	640	685	710	715	690	645	590	525	435	375	350	325	340	...
„ 3,...	365	425	485	545	585	600	580	600	615	650	675	695	750	775	815	830	845	800	735	640	550	470	400	385	...
„ 4,...	390	425	485	560	615	660	665	650	640	620	610	640	665	705	760	800	835	850	825	755	645	525	425	345	...
„ 5,...	330	350	420	500	560	620	660	655	645	605	555	515	520	560	625	715	790	820	820	795	720	600	465	335	...
„ 6,...	260	265	315	425	535	600	660	655	645	590	530	470	415	425	495	585	700	765	795	800	765	685	545	405	...
„ 7,...	280	210	235	315	470	590	660	705	685	635	550	450	370	325	350	425	555	700	760	810	815	770	670	520	...
„ 8,...	390	275	240	295	415	580	685	730	765	725	650	535	425	330	265	320	400	560	690	760	800	790	740	635	...
„ 9,...	500	370	270	270	360	510	685	770	795	785	730	635	495	380	270	230	290	395	560	675	720	765	735	685	...
„ 10,...	570	475	370	295	345	460	630	780	815	840	795	725	620	480	345	240	215	275	395	550	635	675	690	670	...
„ 11,...	625	535	460	365	340	415	525	700	810	820	805	755	675	565	430	310	205	200	240	360	490	555	590	600	...
„ 12,...	580	540	505	410	385	375	455	595	720	775	800	780	730	650	540	425	310	225	235	280	365	465	505	580	...
„ 13,...	595	615	565	510	480	460	510	570	675	780	790	825	795	750	670	555	435	345	265	280	320	395	450	495	...
„ 14,...	525	540	555	535	525	500	505	545	610	675	750	755	755	735	685	630	525	440	345	285	270	290	330	375	...
„ 15,...	425	465	490	510	505	510	500	505	530	585	655	685	720	705	680	655	605	525	455	360	300	285	295	320	...
„ 16,...	370	425	460	480	525	535	540	530	525	550	585	635	670	690	695	670	650	600	535	460	385	330	300	300	...
„ 17,...	315	370	420	475	510	545	570	570	545	530	525	555	605	640	680	680	670	645	610	540	470	395	340	315	...
„ 18,...	315	335	395	460	520	550	585	585	560	540	500	490	505	560	610	660	675	675	655	620	560	485	415	345	...
„ 19,...	330	350	405	470	540	595	640	630	620	575	530	490	475	515	550	620	660	695	695	675	600	555	470	415	...
„ 20,	340	330	380	430	525	590	630	660	630	610	525	470	440	425	475	540	610	695	695	695	660	615	520	445	...
„ 21,...	380	335	375	425	525	615	660	685	685	630	570	495	415	375	410	465	555	665	685	710	695	660	585	500	...
„ 22,...	430	365	385	430	540	640	715	735	740	695	635	535	455	405	385	440	520	615	690	750	775	760	710	620	...
„ 23,...	545	505	510	525	595	690	765	825	850	870	805	710	600	530	470	485	515	600	675	755	805	830	785	700	...
„ 24,...	610	550	515	525	580	670	745	825	880	885	835	735	610	495	400	360	390	465	565	640	705	750	730	685	...
„ 25,...	600	530	485	470	525	595	705	785	820	840	820	750	645	505	415	320	310	350	445	550	635	670	685	670	...
„ 26,...	610	540	495	465	500	555	650	760	800	815	805	760	690	575	455	340	280	285	350	460	555	610	640	635	...
„ 27,...	605	550	510	480	465	530	600	710	790	815	810	780	725	635	515	395	305	270	290	360	465	540	585	610	...
„ 28,...	595	580	550	510	495	530	590	680	780	830	840	815	790	720	620	500	390	310	300	315	390	470	510	560	...
„ 29,...	570	575	560	545	515	520	560	625	710	790	820	800	790	755	695	590	485	365	305	285	295	360	430	480	...
„ 30,...	515	525	540	540	530	525	540	570	635	735	760	785	810	810	810	725	640	535	445	390	390	380	425	490	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
Hourly Means, ...	464	446	447	459	501	552	606	654	687	699	684	654	619	582	551	529	520	526	533	545	549	545	521	495	557

TIDES FOR THE MONTH OF MAY, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
May 1,...	560	610	660	635	630	615	625	635	665	695	745	775	790	805	810	775	710	610	510	410	350	315	335	370	...
„ 2, ..	440	485	535	570	610	610	595	585	570	560	590	640	700	725	740	735	715	670	595	490	400	315	280	285	...
„ 3,...	335	415	510	580	615	650	640	605	595	560	530	570	620	665	740	750	795	795	760	665	570	470	405	385	...
„ 4,...	400	440	525	615	680	740	765	730	665	600	555	525	530	575	655	710	765	795	805	770	685	570	460	375	...
„ 5,...	350	375	450	575	655	740	785	760	720	645	550	475	445	445	490	580	660	710	770	765	750	660	530	420	...
„ 6,...	335	310	395	505	655	740	775	795	765	695	575	475	370	320	335	410	530	640	685	745	720	695	595	495	...
„ 7,...	390	320	330	430	585	740	800	830	815	765	660	535	405	300	265	280	360	510	610	670	730	710	680	585	...
„ 8, ..	485	385	365	430	555	715	830	875	890	850	780	660	515	395	275	235	280	375	505	600	650	720	695	660	...
„ 9,...	570	485	415	415	500	625	785	885	900	895	845	760	635	475	340	230	210	255	365	460	545	625	645	655	...
„ 10,...	580	520	470	420	450	550	680	820	885	885	865	820	715	575	425	295	215	210	270	375	445	525	590	595	...
„ 11,...	605	565	535	475	480	555	650	750	835	875	915	905	850	725	570	435	340	300	300	350	420	490	580	650	...
„ 12,...	675	655	615	575	570	585	665	735	815	870	900	925	905	830	695	565	430	355	335	335	375	430	485	555	...
„ 13,...	610	625	635	605	595	590	615	695	750	800	840	865	875	850	770	655	545	455	400	380	375	430	455	505	...
„ 14,...	565	605	645	690	725	655	630	655	690	750	790	820	825	820	790	725	620	535	460	415	400	400	435	465	...
„ 15,...	515	555	590	545	635	645	625	620	620	645	715	735	755	745	730	705	660	610	515	445	400	375	370	405	...
„ 16,...	445	500	515	565	590	550	615	590	575	560	585	620	655	670	680	660	655	615	555	495	425	370	350	355	...
„ 17,...	385	445	500	560	595	630	635	615	590	540	520	515	545	595	635	655	655	630	590	550	490	420	380	355	...
„ 18,...	370	405	475	555	610	645	660	665	630	575	535	505	520	555	580	640	675	690	700	660	605	535	465	435	...
„ 19,...	445	485	545	630	685	725	755	770	705	665	575	510	465	470	510	560	620	650	655	640	600	555	485	415	...
„ 20,...	375	390	455	540	660	705	725	715	685	635	550	475	380	365	390	445	535	595	635	630	625	585	515	455	...
„ 21,...	415	410	465	550	660	730	775	795	770	715	620	525	435	375	365	390	470	575	620	645	660	625	590	515	...
„ 22,...	450	420	430	510	615	740	790	805	795	735	665	545	430	335	285	285	350	470	570	620	650	640	595	535	...
„ 23,...	475	440	445	510	600	725	805	840	850	810	745	640	495	390	300	265	290	380	505	575	630	665	630	610	...
„ 24,...	525	485	470	495	580	685	805	860	870	865	790	705	575	440	320	255	230	285	385	495	560	615	625	595	...
„ 25,...	550	500	480	470	530	645	750	835	870	880	845	795	675	525	400	295	245	270	325	435	510	585	635	625	...
„ 26,...	615	555	525	510	530	610	700	810	870	890	885	845	755	635	485	360	260	230	245	335	445	515	570	595	...
„ 27,...	590	570	530	510	500	540	625	720	820	875	850	845	785	710	580	445	320	230	210	225	335	430	505	560	...
„ 28,...	555	560	540	520	500	500	555	630	730	805	825	815	795	740	665	540	420	315	245	235	270	350	420	505	...
„ 29,...	555	570	585	560	550	530	545	590	675	730	785	790	815	800	755	665	545	430	345	295	285	325	365	445	...
„ 30, .	525	570	595	615	590	580	560	570	595	625	685	740	765	755	750	690	645	520	425	330	270	260	310	385	...
„ 31,...	445	515	565	610	605	605	575	535	510	525	580	620	680	695	725	715	690	625	540	455	370	315	310	335	...
Hourly Means, ...	488	489	510	541	592	642	688	720	733	726	706	677	636	590	550	515	498	495	498	500	501	501	493	488	574

TIDES FOR THE MONTH OF JUNE, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
June 1,...	410	505	580	640	685	690	655	615	565	510	495	520	560	615	650	680	700	685	675	575	500	410	355	345	...
,, 2,...	390	480	600	685	750	760	770	705	630	560	500	460	475	510	580	630	660	710	700	680	590	515	425	355	...
,, 3,...	380	445	570	680	765	795	810	775	710	625	520	430	375	385	435	520	575	635	675	680	660	575	490	410	...
,, 4,...	365	405	505	635	760	810	840	835	780	705	560	455	335	285	305	365	480	570	625	670	660	625	575	485	...
,, 5,...	415	395	460	555	705	825	870	880	845	780	665	525	390	270	230	240	325	445	545	615	650	650	610	540	...
,, 6,...	490	435	440	530	635	770	880	910	910	875	790	640	475	340	225	200	240	345	460	540	615	645	630	590	...
,, 7,...	545	500	465	495	580	710	840	900	925	930	865	760	605	435	300	215	200	245	360	460	535	610	615	630	...
,, 8,...	585	540	495	500	555	655	785	895	930	950	915	855	730	565	425	295	255	240	300	415	485	565	620	630	...
,, 9,...	630	600	555	545	530	610	715	830	915	935	925	885	805	680	525	390	290	250	260	320	415	480	560	585	...
,, 10,...	600	595	580	550	530	570	630	730	820	865	875	870	820	745	620	470	360	290	265	300	375	430	495	545	...
,, 11,...	575	595	595	575	560	545	580	645	720	800	820	825	800	760	685	570	455	365	315	295	330	390	460	510	...
,, 12,...	550	585	595	605	590	565	565	585	645	700	765	765	765	740	700	625	530	450	365	330	325	355	425	480	...
,, 13,...	520	565	575	610	595	595	565	550	570	610	665	710	715	705	685	630	575	500	420	365	330	325	370	425	...
,, 14,...	485	545	570	595	605	600	585	540	525	525	560	620	650	665	645	625	585	545	485	420	375	345	360	405	...
,, 15,...	465	535	570	615	625	630	620	590	540	510	495	530	570	595	615	605	590	560	530	485	440	405	390	405	...
,, 16,...	465	535	615	655	670	690	670	645	590	540	495	475	500	550	570	595	590	580	555	520	480	460	430	425	...
,, 17,...	460	530	605	670	695	715	715	685	640	580	495	445	410	440	510	535	575	590	575	565	535	500	460	440	...
,, 18,...	445	500	580	680	730	765	745	740	685	605	520	435	370	375	405	460	530	575	600	600	580	535	500	450	...
,, 19,...	450	500	570	675	750	805	825	795	755	695	560	465	370	320	335	375	460	525	570	585	585	565	520	490	...
,, 20,...	455	460	525	605	720	800	825	825	800	740	645	510	395	290	245	265	335	430	505	555	575	575	530	495	...
,, 21,...	460	430	470	555	665	790	845	845	835	785	715	585	440	300	215	200	235	335	445	525	575	585	565	535	...
,, 22,...	495	465	455	510	605	735	835	880	870	840	775	680	530	365	240	175	175	240	360	465	540	570	575	565	...
,, 23,...	525	495	460	480	545	670	785	870	890	890	845	765	645	480	315	200	150	175	260	395	485	535	565	555	...
,, 24,...	550	495	475	450	480	570	695	815	870	875	850	805	710	575	410	270	180	155	205	300	415	500	550	565	...
,, 25,...	555	540	510	485	465	510	610	715	810	850	850	825	775	685	525	390	255	175	170	220	330	435	525	565	...
,, 26,...	565	560	540	505	470	465	520	610	710	800	815	825	780	750	645	505	385	250	195	195	270	375	485	550	...
,, 27,...	585	585	565	540	515	490	485	535	605	690	755	770	770	740	700	610	495	375	275	245	260	325	425	510	...
,, 28,...	570	590	600	585	560	530	500	475	515	580	645	690	705	705	700	650	595	495	395	320	290	310	380	470	...
,, 29,...	550	605	650	655	640	600	565	500	465	485	530	590	625	640	655	650	640	590	515	425	345	320	345	425	...
,, 30,...	545	620	680	705	700	675	630	585	505	450	440	480	510	560	585	620	620	610	580	520	465	390	375	405	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	503	521	548	586	623	665	699	717	719	709	678	640	587	536	489	452	435	431	440	453	467	477	487	493	556

TIDES FOR THE MONTH OF JULY, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
July 1,...	505	605	695	745	775	765	745	655	585	500	425	405	415	455	485	550	595	580	615	575	515	470	410	395	...
„ 2,...	450	535	660	740	790	790	790	720	665	545	450	355	305	330	365	420	480	545	580	585	550	495	455	410	...
„ 3,...	425	485	595	715	800	825	855	810	745	660	530	405	305	270	270	340	395	480	555	595	610	570	525	480	...
„ 4,...	460	475	560	670	790	860	885	905	850	770	650	505	370	280	250	260	335	415	500	575	610	620	580	530	...
„ 5,...	485	470	525	620	730	830	895	915	925	860	770	605	465	325	230	220	240	345	440	515	585	605	610	575	...
„ 6,...	530	500	475	530	625	760	865	910	925	895	830	715	555	410	290	210	205	255	355	450	530	575	580	580	...
„ 7,...	535	505	475	480	555	660	785	870	900	895	855	780	655	495	355	245	205	205	285	390	465	530	570	570	...
„ 8,...	565	535	500	470	490	575	685	795	865	885	865	805	720	585	450	325	250	225	260	350	435	500	565	585	...
„ 9, ..	595	590	555	525	515	560	635	745	835	890	880	865	815	715	590	465	370	325	320	365	450	545	585	640	...
„ 10,...	625	640	605	580	565	565	630	710	795	870	850	865	810	750	655	530	435	350	330	340	400	485	540	585	...
„ 11,...	600	615	580	590	530	545	535	595	655	740	765	770	750	690	635	535	465	395	350	345	395	440	505	555	...
„ 12,...	570	590	585	595	565	535	510	525	550	605	655	675	685	660	625	570	495	425	355	340	350	415	490	540	...
„ 13,...	575	600	620	605	590	575	535	520	525	565	600	620	625	630	605	570	545	480	430	395	370	405	460	515	...
„ 14,..	575	605	635	650	655	625	595	545	520	520	530	560	580	605	595	570	555	520	505	440	430	405	450	500	...
„ 15,...	565	625	660	670	670	660	635	595	530	505	470	495	515	525	540	555	565	545	545	520	475	455	430	475	...
„ 16,...	550	620	685	705	725	715	680	640	580	535	465	430	415	445	475	510	535	540	555	525	505	490	450	475	...
„ 17,...	520	590	670	735	770	760	750	685	625	545	455	385	350	345	385	440	475	535	550	560	545	535	495	495	...
„ 18,...	515	575	645	730	795	825	805	800	735	640	520	425	335	330	320	390	480	535	610	590	590	560	540	515	...
„ 19,...	540	570	640	740	845	915	925	910	865	805	645	515	420	340	335	340	430	525	585	625	655	635	610	590	...
„ 20,...	545	585	610	700	815	925	960	975	970	895	800	665	530	410	345	350	370	485	565	615	655	655	640	600	...
„ 21,...	580	550	540	610	695	825	915	945	960	910	830	700	535	390	260	225	235	320	445	535	615	650	635	625	...
„ 22,...	570	520	510	545	620	745	865	940	975	950	900	805	630	470	335	240	235	250	360	485	545	625	630	635	...
„ 23,...	590	525	480	460	515	615	740	865	905	920	890	845	740	570	410	275	210	205	270	395	515	585	630	635	...
„ 24,...	620	575	525	490	490	545	650	760	850	890	905	895	840	710	565	405	300	250	255	350	475	570	650	685	...
„ 25,...	680	655	595	545	520	515	600	680	760	825	865	885	875	805	680	540	425	335	320	360	440	550	615	685	...
„ 26,...	705	695	675	600	540	510	515	560	620	700	745	765	800	760	715	605	500	390	335	315	355	460	555	610	...
„ 27,...	675	690	695	655	590	530	465	450	495	555	615	670	660	675	665	630	560	485	400	345	355	385	480	580	...
„ 28,...	640	695	700	680	650	575	515	455	435	455	485	525	555	575	605	615	605	560	485	425	375	420	465	575	...
„ 29,...	640	705	725	755	745	715	645	565	500	460	440	455	475	520	545	610	620	605	595	520	510	490	515	565	...
„ 30,...	640	705	770	810	845	815	775	660	595	510	445	420	420	450	465	500	565	605	605	580	530	515	485	520	...
„ 31,...	595	665	740	780	815	825	805	750	655	540	455	360	320	325	355	400	465	515	560	570	555	520	495	475	...
Hourly Means, ...	570	590	611	636	665	693	716	724	722	705	664	618	564	511	465	434	424	427	449	470	496	521	537	555	574

TIDES FOR THE MONTH OF AUGUST, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Aug. 1,...	505	565	640	730	790	800	805	785	725	605	475	355	260	230	235	300	375	430	490	525	530	535	510	465	...
„ 2,...	440	450	515	640	745	810	825	805	760	685	555	415	290	210	185	215	280	380	450	500	520	535	520	490	...
„ 3,...	460	445	465	560	675	775	845	840	820	750	660	520	385	265	195	185	230	315	410	485	550	550	560	520	...
„ 4,...	485	445	430	490	600	725	825	850	840	805	745	630	480	340	220	170	190	265	375	465	520	560	545	540	...
„ 5,...	485	460	415	420	505	615	750	825	845	815	765	680	560	410	275	195	180	220	320	430	495	540	550	535	...
„ 6,...	505	465	420	395	430	530	655	755	800	810	780	720	630	485	370	255	205	220	295	400	480	535	555	570	...
„ 7,...	545	500	460	415	390	460	550	680	775	790	780	740	685	565	445	335	265	245	285	380	470	535	575	600	...
„ 8,...	585	545	490	440	410	420	500	600	700	745	740	745	685	615	520	415	340	295	315	370	475	525	580	605	...
„ 9,...	615	590	545	505	460	435	465	540	620	685	705	720	695	655	565	485	405	340	335	375	445	540	575	620	...
„ 10,...	625	620	595	540	500	455	445	485	535	610	640	670	665	640	600	515	450	390	355	380	425	510	580	615	...
„ 11,...	645	645	645	595	545	505	460	450	485	535	595	605	630	625	590	555	500	450	410	400	430	490	560	620	...
„ 12,...	650	655	650	635	605	565	500	460	445	455	500	545	560	575	565	545	515	480	455	435	435	475	545	610	...
„ 13,...	655	665	675	665	660	620	560	515	440	420	415	445	475	505	520	525	525	495	485	475	455	470	515	570	...
„ 14,...	625	685	705	725	730	695	655	585	505	435	390	380	405	430	480	505	545	550	555	545	530	515	535	575	...
„ 15,...	630	695	765	805	815	815	775	715	645	555	455	405	390	425	460	540	575	635	650	615	590	585	575	560	...
„ 16,...	630	665	730	815	825	835	830	770	695	560	455	340	280	275	305	375	425	520	540	555	540	550	530	505	...
„ 17,...	535	560	655	735	815	845	870	820	765	660	525	380	285	230	215	275	375	470	545	585	565	560	510	490	...
„ 18,...	450	485	555	660	745	855	875	895	850	760	630	460	335	230	205	210	305	425	525	595	620	615	565	505	...
„ 19,...	460	430	470	565	680	815	885	915	895	850	755	600	445	285	195	180	220	360	495	575	640	635	615	555	...
„ 20,...	490	430	410	475	555	695	840	890	920	905	840	740	575	405	265	180	200	265	415	530	625	655	660	620	...
„ 21,...	525	455	395	390	455	565	710	845	870	890	895	815	700	520	370	235	185	230	355	505	590	665	695	670	...
„ 22,...	615	510	445	380	380	450	560	720	815	840	885	840	785	645	490	350	240	240	290	450	595	660	725	710	...
„ 23,...	690	605	500	420	375	380	450	550	685	740	785	795	770	700	595	475	375	310	340	400	545	645	695	760	...
„ 24,...	740	715	630	525	430	390	390	445	545	630	680	730	730	700	655	560	470	405	370	410	475	585	680	755	...
„ 25,...	775	755	715	615	530	450	400	385	425	485	570	595	610	635	610	595	530	480	410	400	460	515	635	685	...
„ 26,...	720	750	725	715	645	555	475	410	380	405	450	490	515	555	585	585	550	510	500	455	465	505	585	640	...
„ 27,...	710	745	770	750	725	645	570	475	410	380	360	395	415	445	505	515	555	545	530	515	485	485	520	590	...
„ 28,...	665	720	755	780	775	740	665	575	490	395	345	310	315	355	395	455	500	535	555	545	535	515	490	525	...
„ 29,...	570	660	730	780	790	775	745	680	575	480	385	315	290	290	330	395	460	520	565	580	560	555	515	500	...
„ 30,...	520	590	670	745	795	815	800	750	675	575	455	365	290	265	265	330	405	485	550	590	580	565	530	505	...
„ 31,...	490	530	600	685	760	810	830	820	775	680	560	430	325	260	260	290	390	475	545	610	620	605	550	505	...
Hourly Means, ...	582	582	586	600	617	640	662	672	668	643	606	554	499	444	402	379	380	403	442	486	524	555	574	581	545

TIDES FOR THE MONTH OF SEPTEMBER, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Sept. 1,...	465	465	520	605	695	780	825	855	830	755	660	515	395	310	265	285	345	445	540	610	645	645	605	545	...
„ 2,...	420	450	445	525	620	720	805	830	850	795	725	595	475	355	270	265	305	405	515	585	635	655	625	570	...
„ 3,...	505	455	410	460	525	645	760	805	830	825	770	685	560	440	345	295	300	380	500	585	655	700	690	660	...
„ 4,...	575	520	455	455	485	595	715	790	845	865	835	775	675	545	455	385	390	455	530	635	700	750	770	755	...
„ 5,...	670	595	530	500	515	590	670	760	825	865	885	845	765	650	560	475	465	490	550	655	710	770	815	795	...
„ 6,...	745	650	580	530	500	545	600	690	770	800	865	820	775	675	595	520	475	490	525	625	705	765	810	800	...
„ 7,...	790	690	630	545	495	540	560	655	750	795	825	855	820	755	675	600	550	540	570	650	725	775	810	815	...
„ 8,...	810	755	690	620	555	510	* 500	550	630	685	725	755	740	725	645	605	560	530	555	590	680	745	780	790	...
„ 9,...	815	785	745	665	595	545	510	525	565	615	665	675	720	705	675	635	575	570	555	610	655	735	770	805	...
„ 10,...	815	820	775	730	655	590	545	510	530	560	595	620	660	685	655	645	610	590	605	620	675	715	765	790	...
„ 11,...	825	850	845	810	755	690	650	580	575	550	565	605	640	660	695	700	695	675	645	660	690	770	840	840	...
„ 12,...	835	855	880	865	855	790	725	640	560	485	460	485	485	540	545	590	620	625	645	630	625	650	645	685	...
„ 13,...	740	755	785	795	795	760	730	640	555	455	385	345	365	405	455	500	555	595	605	605	610	585	570	575	...
„ 14,...	615	695	745	795	805	800	755	705	615	505	400	330	295	325	370	470	535	590	620	660	640	620	605	580	...
„ 15,...	600	660	740	810	875	900	910	875	790	680	550	435	365	345	375	455	560	645	710	760	745	700	630	615	...
„ 16,...	580	600	675	755	865	930	970	960	905	790	645	505	395	315	330	380	485	610	695	755	770	745	680	615	...
„ 17,...	540	530	600	680	795	930	990	1060	1055	1010	945	815	670	605	560	610	655	855	865	925	950	880	875	745	...
„ 18,...	590	520	395	485	570	720	840	875	915	895	840	755	570	440	315	310	385	515	700	795	840	850	810	730	...
„ 19,...	635	495	415	385	460	555	720	835	860	895	850	805	660	500	365	275	295	390	555	725	775	820	810	770	...
„ 20,...	665	530	430	345	350	430	575	740	790	840	865	840	775	665	530	435	380	455	560	735	850	865	915	875	...
„ 21,...	835	715	625	500	460	435	545	675	785	880	885	905	865	830	735	615	500	495	525	695	790	855	830	825	...
„ 22,...	765	700	600	505	405	375	385	430	500	580	630	650	710	690	640	590	505	465	505	570	695	805	850	845	...
„ 23,...	835	800	715	605	485	370	320	315	365	445	520	540	590	585	585	540	505	475	475	525	610	705	785	820	...
„ 24,...	815	825	795	745	635	555	465	415	395	415	475	500	560	605	605	615	610	605	590	605	640	715	760	805	...
„ 25,...	825	865	890	865	815	740	630	555	530	505	515	555	565	620	680	740	770	790	795	785	800	810	840	860	...
„ 26,...	900	930	945	930	885	850	755	640	570	500	420	425	420	425	470	545	550	650	670	685	670	625	620	670	...
„ 27,...	710	755	790	810	815	835	785	730	625	535	440	375	350	375	420	485	540	575	610	625	600	575	540	530	...
„ 28,...	540	610	655	730	760	775	760	710	660	555	475	400	360	370	395	475	550	600	655	685	675	640	595	550	...
„ 29,...	525	555	610	680	745	780	770	755	710	625	535	435	360	345	355	410	530	590	670	700	715	695	640	605	...
„ 30,...	560	570	625	685	745	815	855	870	855	775	665	550	465	420	425	465	560	635	725	800	835	820	740	675	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	687	667	651	647	651	670	687	699	701	683	654	613	568	530	500	497	512	558	609	670	710	733	734	718	640

* Interpolated.

TIDES FOR THE MONTH OF OCTOBER, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Oct. 1,...	610	595	635	660	735	815	895	950	975	935	830	720	595	540	505	535	600	695	770	835	890	880	825	720	...
„ 2,...	625	570	570	600	670	765	835	905	930	920	855	750	640	565	545	540	600	685	765	835	875	920	875	775	...
„ 3,...	660	595	535	550	600	685	775	840	905	910	895	805	695	595	540	535	585	665	755	820	890	905	915	820	...
„ 4,...	715	605	540	525	570	625	725	785	845	895	890	830	725	630	570	540	560	620	725	805	860	895	890	835	...
„ 5,...	740	630	550	480	485	525	595	710	760	810	835	810	765	700	610	540	565	620	710	790	840	875	895	855	...
„ 6,...	780	670	565	495	460	470	560	610	675	750	805	830	780	690	630	595	615	640	710	785	840	875	900	885	...
„ 7,...	840	750	645	545	495	470	500	545	600	670	720	760	755	705	655	620	600	620	680	735	800	840	865	875	...
„ 8,...	865	795	710	610	530	470	470	485	525	575	625	690	715	700	660	635	620	630	670	725	785	845	860	885	...
„ 9,...	880	840	790	690	610	530	485	470	485	525	555	595	630	650	655	635	620	625	630	665	710	770	810	820	...
„ 10,...	825	815	775	720	635	555	475	430	405	415	445	485	515	555	575	590	600	605	610	615	640	680	725	765	...
„ 11,...	780	775	765	740	690	615	535	445	385	360	350	370	415	475	510	550	585	590	605	600	605	605	640	675	...
„ 12,...	725	740	755	750	730	695	620	535	440	350	310	305	335	400	470	535	580	610	620	625	605	585	580	600	...
„ 13,...	660	710	750	775	790	775	740	655	550	455	370	325	335	380	470	565	645	695	735	715	665	630	605	600	...
„ 14,...	625	665	715	785	815	870	865	815	715	585	465	380	345	365	420	535	635	720	775	780	735	660	595	540	...
„ 15,...	530	565	615	700	780	840	890	890	835	720	565	435	360	330	375	475	625	710	775	820	790	725	615	520	...
„ 16,...	455	425	480	555	680	770	835	895	880	815	690	540	425	340	340	420	560	715	795	865	870	815	720	570	...
„ 17,...	475	390	375	440	535	675	755	825	880	865	795	640	520	410	340	390	490	670	790	850	910	860	815	670	...
„ 18,...	510	390	315	320	385	525	665	750	785	820	785	725	585	480	390	355	435	560	755	840	885	880	840	755	...
„ 19,...	620	465	345	*255	*280	*345	485	620	675	740	755	720	650	550	465	420	440	535	670	815	870	920	935	885	...
„ 20,...	775	600	455	375	330	355	410	525	610	695	795	805	775	680	600	570	585	625	700	790	885	950	1000	995	...
„ 21,...	915	780	635	505	420	375	375	430	505	570	645	725	730	700	635	585	585	590	655	725	810	875	910	935	...
„ 22,...	925	840	730	590	480	380	350	345	400	470	515	590	640	650	650	615	615	620	635	685	755	815	840	865	...
„ 23,...	880	860	810	720	610	515	445	400	405	425	460	515	590	655	675	680	670	675	695	725	760	800	830	845	...
„ 24,...	875	885	875	825	735	635	555	490	455	440	440	470	520	570	630	660	685	685	685	685	685	700	735	760	...
„ 25,...	785	800	805	790	760	690	605	530	470	425	410	420	460	500	565	630	680	720	720	720	710	715	725	745	...
„ 26,...	765	785	805	820	830	805	740	675	590	535	490	485	480	520	580	650	725	770	785	765	735	710	695	695	...
„ 27,...	695	720	755	780	825	830	810	750	650	575	510	470	470	500	555	625	690	750	785	775	750	690	645	605	...
„ 28,...	600	625	670	720	760	780	785	750	695	615	535	470	440	460	505	590	670	730	775	790	775	715	645	590	...
„ 29,...	555	565	600	655	730	765	795	780	750	675	585	510	460	465	510	590	690	755	800	825	820	765	675	585	...
„ 30,...	530	500	520	580	650	720	760	790	780	725	640	*555	*490	465	490	555	660	755	785	825	815	780	700	590	...
„ 31,...	505	425	405	450	530	630	685	725	725	685	640	565	490	430	420	485	580	700	780	805	810	770	705	610	...
Hourly Means, ...	701	657	629	613	617	629	646	656	654	644	620	590	559	537	534	556	606	664	721	762	786	789	775	738	654

* Interpolated.

TIDES FOR THE MONTH OF NOVEMBER, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Nov. 1,...	495	415	360	375	440	540	635	695	745	730	695	620	535	495	470	510	590	700	795	840	860	865	800	705	...
„ 2,...	570	465	395	375	405	480	595	660	735	760	745	670	585	530	515	535	600	690	795	850	890	910	870	780	...
„ 3,...	650	525	430	375	380	425	515	605	670	730	740	700	635	550	530	535	585	670	765	855	875	905	890	830	...
„ 4,...	715	585	465	385	350	355	420	520	585	655	700	685	655	590	555	540	555	625	710	810	850	870	875	830	...
„ 5,...	755	630	505	390	320	295	335	415	500	550	600	620	615	585	550	535	520	565	645	725	800	820	825	805	...
„ 6,...	740	685	555	455	365	315	305	340	415	465	535	585	590	595	575	560	565	575	645	705	785	830	845	845	...
„ 7,...	820	770	685	575	480	400	365	355	385	445	505	580	625	645	645	625	625	640	670	740	780	825	855	865	...
„ 8,...	875	850	795	700	590	505	445	405	405	415	465	515	575	625	655	655	655	660	670	700	725	765	790	795	...
„ 9,...	815	825	820	770	685	590	500	425	400	380	400	450	500	555	620	650	675	680	665	655	650	660	700	720	...
„ 10,...	735	735	755	755	720	675	585	520	440	390	385	405	480	545	640	705	740	755	755	730	720	700	700	710	...
„ 11,...	730	755	800	850	865	840	770	680	590	510	470	455	480	530	605	695	770	825	820	780	720	660	630	615	...
„ 12,...	630	650	710	755	810	835	835	760	680	560	490	435	450	480	560	660	740	835	870	845	780	685	610	545	...
„ 13,...	530	540	590	655	740	810	855	855	780	665	555	485	440	470	540	645	765	845	915	935	880	770	660	550	...
„ 14,...	470	450	470	540	655	710	790	845	825	750	625	530	460	425	495	590	730	845	900	950	920	840	700	545	...
„ 15,...	430	345	325	370	475	585	670	750	790	755	690	580	490	450	455	540	680	825	900	945	965	910	810	645	...
„ 16,...	500	370	275	280	335	445	560	645	740	765	735	665	570	500	485	525	605	745	875	940	980	990	905	780	...
„ 17,...	585	440	305	230	230	295	410	520	605	675	690	685	615	545	515	505	560	670	820	955	995	1025	990	905	...
„ 18,...	760	585	445	335	290	295	360	435	530	620	710	725	700	635	590	590	610	685	760	855	935	990	1025	985	...
„ 19,...	860	710	540	420	320	295	320	365	445	515	595	640	650	640	605	565	570	595	665	760	840	905	920	905	...
„ 20,...	850	765	625	495	380	295	280	275	345	415	470	550	575	600	605	580	570	570	605	660	735	805	825	840	...
„ 21,...	830	790	705	580	470	380	315	300	310	370	425	485	545	580	615	620	620	630	640	675	720	760	795	820	...
„ 22,...	825	835	785	710	595	505	450	405	390	395	425	460	520	580	625	660	665	660	655	650	655	690	705	730	...
„ 23,...	745	750	745	710	640	555	480	410	380	365	385	410	465	505	565	605	635	645	645	630	620	605	615	640	...
„ 24,...	650	680	680	670	645	595	525	465	415	375	360	380	415	475	520	575	630	645	655	630	600	555	530	535	...
„ 25,...	550	580	605	615	630	600	580	510	470	420	390	390	420	485	550	615	680	710	730	695	655	605	555	525	...
„ 26,...	520	545	580	615	640	650	635	595	540	480	440	410	420	465	540	620	690	730	735	720	680	610	545	480	...
„ 27,...	435	460	500	550	595	620	635	630	585	550	495	455	440	475	550	655	745	790	825	805	765	700	590	515	...
„ 28,...	465	435	470	510	575	620	665	685	660	610	545	495	485	490	550	635	745	815	850	875	830	765	650	545	...
„ 29,...	450	405	390	450	530	605	650	680	685	660	600	545	515	495	560	625	735	815	890	920	910	870	780	655	...
„ 30,...	540	450	430	450	510	565	640	715	765	755	705	625	585	560	605	665	745	825	910	970	985	960	855	715	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	651	601	558	531	522	523	538	549	560	558	552	541	534	537	563	601	653	709	759	793	804	795	762	712	621

TIDES FOR THE MONTH OF DECEMBER, 1887.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Dec. 1, ...	575	465	390	390	415	500	565	645	705	735	710	640	580	555	565	625	695	800	890	930	950	935	870	760	...
„ 2, ...	615	480	355	300	300	360	470	535	595	640	630	600	550	515	480	505	570	670	780	865	875	865	835	750	...
„ 3, ...	635	500	375	270	240	260	345	440	510	590	620	610	575	530	505	520	570	650	745	845	890	890	880	820	...
„ 4, ...	730	585	440	320	240	240	285	380	470	540	590	590	580	550	520	525	550	620	700	800	860	890	895	870	...
„ 5, ...	805	690	545	420	325	285	295	345	430	500	565	615	620	615	585	580	595	635	705	765	835	865	895	900	...
„ 6, ...	875	790	660	540	420	335	295	300	365	440	500	565	595	585	580	550	560	555	590	645	705	760	800	800	...
„ 7, ...	775	745	675	575	460	355	275	250	265	340	415	485	535	560	580	570	560	570	570	600	645	695	745	750	...
„ 8, ...	755	750	715	665	565	475	380	325	295	325	375	440	510	570	600	620	625	610	580	580	590	620	655	685	...
„ 9, ...	700	710	715	705	655	575	485	405	345	325	345	405	480	545	615	655	665	665	630	605	560	545	560	580	...
„ 10, ...	610	640	650	680	660	640	580	490	415	345	320	355	420	520	615	670	715	705	690	635	570	505	445	440	...
„ 11, ...	465	510	570	615	640	650	630	590	535	470	425	410	440	520	625	735	835	885	885	835	740	650	580	535	...
„ 12, ...	515	525	570	630	695	750	770	740	690	595	530	500	500	...	...	...	...	...	...	...	...	...	...	...	...
„ 13, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	480	570	685	825	895	935	940	890	800	645	505	...
„ 14, ...	380	290	285	310	390	460	525	590	630	630	590	525	485	480	530	635	760	875	925	965	960	905	785	640	...
„ 15, ...	485	385	320	315	340	415	505	610	715	735	705	635	560	540	560	635	725	820	915	990	1040	1015	925	765	...
„ 16, ...	580	415	290	230	245	320	425	510	580	645	645	630	585	530	515	530	615	720	840	950	970	970	920	830	...
„ 17, ...	680	510	375	255	220	245	335	415	500	575	620	630	590	550	510	520	575	665	775	865	915	955	960	920	...
„ 18, ...	800	645	465	355	285	250	285	365	450	535	600	630	620	605	555	560	580	635	705	800	860	915	940	950	...
„ 19, ...	895	780	610	480	380	325	320	360	420	500	580	655	665	650	610	590	600	635	690	760	805	855	880	905	...
„ 20, ...	885	815	695	555	440	360	335	350	390	455	505	545	600	600	610	595	585	590	600	640	700	760	805	805	...
„ 21, ...	785	745	690	600	495	405	350	330	340	395	440	495	540	560	575	585	580	570	560	575	610	650	695	720	...
„ 22, ...	720	695	665	610	530	460	385	340	340	360	415	470	520	555	575	590	600	595	575	560	555	575	600	645	...
„ 23, ...	650	655	655	630	590	525	480	430	415	420	445	475	520	590	640	695	700	690	660	645	625	620	615	625	...
„ 24, ...	625	630	650	650	640	595	540	500	455	440	450	480	525	575	630	670	710	715	695	665	620	565	535	525	...
„ 25, ...	525	545	560	570	585	570	555	520	480	455	445	455	495	560	630	685	730	745	750	720	650	590	525	480	...
„ 26, ...	465	480	500	535	565	585	600	585	545	525	495	490	530	580	645	725	770	825	825	805	735	650	555	485	...
„ 27, ...	445	440	460	500	545	580	610	620	600	555	510	500	495	540	625	710	780	815	825	800	745	660	545	450	...
„ 28, ...	345	305	315	355	430	495	530	550	545	545	510	480	470	485	560	655	760	835	855	850	820	750	645	520	...
„ 29, ...	400	310	290	310	380	460	540	600	620	595	560	505	500	495	535	625	740	830	870	875	855	810	720	580	...
„ 30, ...	430	290	215	225	280	385	475	535	570	565	540	515	465	435	445	520	615	735	825	840	840	810	740	615	...
„ 31, ...	465	330	235	210	230	285	370	470	565	625	625	590	520	500	515	575	665	755	840	890	925	920	880	755	...
Hourly Means, ...	621	555	498	460	440	438	451	471	493	513	524	531	536	546	570	611	662	710	748	775	778	766	736	687	588

TIDES FOR THE MONTH OF JANUARY, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Jan. 1,...	585	430	290	220	210	235	335	430	510	585	595	580	540	500	485	510	565	665	765	860	905	920	900	830	...
„ 2,...	705	540	380	260	205	210	265	380	465	545	585	580	560	515	485	480	510	575	665	770	850	875	880	850	...
„ 3,...	760	625	455	320	210	180	215	300	410	500	555	580	565	530	500	485	485	525	590	695	785	820	830	840	...
„ 4,...	790	700	560	410	290	200	195	240	340	440	510	565	570	560	525	505	480	475	515	575	670	725	765	765	...
„ 5,...	755	700	630	490	380	255	180	200	245	365	460	515	555	550	545	525	500	475	460	500	560	625	680	700	...
„ 6,...	710	715	670	605	500	385	300	265	280	345	430	520	575	630	620	615	570	535	495	460	475	515	555	600	...
„ 7,...	615	610	605	580	530	450	350	280	235	270	335	440	525	585	615	610	605	565	515	455	410	400	420	460	...
„ 8,...	500	515	535	540	535	505	455	390	335	310	335	415	505	590	660	710	725	695	640	565	500	430	395	395	...
„ 9,...	415	445	475	505	540	555	540	485	435	390	360	385	465	500	665	730	740	735	715	655	555	460	355	280	...
„ 10,...	275	295	340	415	445	475	495	485	460	410	375	355	395	485	595	710	765	800	810	760	685	565	435	335	...
„ 11,...	270	260	275	335	400	480	545	575	570	520	470	440	440	490	590	705	810	865	885	870	810	710	565	420	...
„ 12,...	280	205	195	240	330	410	495	560	570	575	515	470	435	440	515	625	760	860	895	915	890	830	705	525	...
„ 13,...	385	250	200	200	260	350	440	525	595	595	575	520	470	460	485	570	690	810	900	920	955	900	820	665	...
„ 14,...	490	335	235	195	210	295	385	470	565	610	620	600	545	520	525	565	650	745	850	910	970	990	950	820	...
„ 15,...	640	460	325	250	255	275	360	460	520	620	640	635	580	530	510	520	580	665	770	860	910	930	925	850	...
„ 16,...	730	565	410	295	225	220	285	385	480	535	590	595	580	535	490	460	470	540	635	755	840	865	845	810	...
„ 17,...	725	615	470	335	235	205	225	310	430	480	545	570	550	540	505	465	450	470	550	645	745	800	810	815	...
„ 18,...	770	685	555	435	325	265	280	325	405	475	530	600	610	590	555	515	500	490	530	580	670	730	755	760	...
„ 19,...	750	700	610	495	395	310	280	305	370	460	510	550	580	580	570	540	510	485	480	515	570	635	670	690	...
„ 20,...	695	675	625	545	455	390	355	355	380	445	510	565	610	650	665	645	600	560	540	545	575	610	635	670	...
„ 21,...	685	695	680	630	550	490	450	420	450	475	525	570	630	680	710	700	680	640	590	575	560	570	585	585	...
„ 22,...	595	595	600	600	550	515	465	460	440	460	495	560	590	635	675	695	695	670	625	580	530	500	490	505	...
„ 23,...	505	525	530	540	540	520	500	485	455	460	480	520	575	630	665	710	735	720	700	645	575	520	465	455	...
„ 24,...	435	455	470	500	530	530	535	515	490	490	515	540	580	635	695	740	785	800	790	735	670	585	510	450	...
„ 25,...	420	420	430	480	525	560	590	590	560	540	530	545	585	630	690	745	820	865	885	860	780	685	560	470	...
„ 26,...	410	390	400	435	490	555	600	635	625	590	565	555	565	645	690	755	830	895	925	925	880	760	650	505	...
„ 27,...	420	360	360	390	440	510	565	630	660	640	610	540	535	585	630	710	790	870	925	955	930	840	705	570	...
„ 28,...	440	350	315	300	360	460	535	605	645	635	600	550	520	505	550	620	735	830	900	930	940	880	790	625	...
„ 29,...	470	335	250	235	275	365	475	550	610	635	620	560	510	490	505	580	665	775	870	925	955	975	875	770	...
„ 30,...	570	410	280	250	250	300	410	500	580	650	640	605	535	480	460	485	540	630	735	820	860	905	895	800	...
„ 31,...	670	495	330	245	205	230	325	440	530	615	660	630	615	495	445	430	495	550	690	775	830	900	925	875	...
Hourly Means, ...	563	495	435	396	376	377	401	437	472	505	525	537	545	556	575	602	637	670	705	727	737	724	689	635	555

TIDES FOR THE MONTH OF FEBRUARY, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Feb. 1,...	770	620	455	330	245	260	305	390	505	600	670	725	665	580	520	485	490	550	650	705	790	860	925	950	...
„ 2,..	870	760	615	485	375	335	365	395	495	620	705	755	760	715	570	540	520	525	610	650	680	765	800	830	...
„ 3,...	850	800	680	560	430	355	370	440	480	555	640	705	735	695	650	585	525	500	510	550	565	630	665	700	...
„ 4,...	740	730	685	605	515	430	405	400	450	520	600	670	715	725	720	665	605	555	500	485	500	520	570	590	...
„ 5,..	605	635	640	650	560	505	460	425	445	500	585	665	700	730	750	750	705	650	585	535	485	475	495	505	...
„ 6,...	540	550	560	575	575	560	515	485	475	470	520	600	680	750	735	750	745	700	645	570	505	445	415	420	...
„ 7,...	425	430	425	480	520	545	545	525	510	495	510	550	605	675	730	775	815	800	765	670	565	485	395	350	...
„ 8,...	340	340	380	425	475	520	555	560	540	505	490	495	550	615	685	765	810	845	840	790	705	580	465	380	...
„ 9,...	325	315	325	385	430	515	595	615	615	575	550	535	560	595	660	745	825	875	910	890	820	710	580	440	...
„ 10,...	335	275	265	305	365	450	520	570	590	580	555	520	485	485	540	610	740	830	880	875	840	755	640	495	...
„ 11,...	355	240	185	200	270	380	460	515	555	555	540	485	450	415	455	530	635	770	840	870	850	815	725	590	...
„ 12,...	440	315	225	205	235	335	430	505	565	600	590	545	485	445	430	480	570	685	805	870	890	890	840	720	...
„ 13,...	565	425	320	265	280	320	425	510	595	650	670	625	550	490	450	465	525	615	740	825	875	890	870	780	...
„ 14,...	660	505	375	285	265	300	385	495	550	600	630	610	570	500	440	420	440	530	625	750	800	850	870	825	...
„ 15,...	740	615	480	395	340	360	415	500	565	630	695	705	665	585	520	485	465	530	590	675	760	800	830	820	...
„ 16,...	760	670	545	* 435	* 360	335	395	455	545	595	625	650	650	605	525	455	410	400	460	540	645	710	725	730	...
„ 17,...	680	640	560	475	395	345	365	425	505	585	620	665	690	675	610	540	490	475	495	545	585	660	705	755	...
„ 18,...	770	735	650	550	485	440	405	505	555	630	645	710	710	730	685	620	565	520	525	510	550	580	620	630	...
„ 19,...	645	625	625	560	520	435	420	430	460	555	605	630	675	690	670	640	585	520	475	450	465	495	535	560	...
„ 20,...	595	590	585	565	515	485	470	495	535	595	660	670	715	745	755	740	705	645	600	570	545	560	555	570	...
„ 21,...	575	595	590	570	565	530	540	535	565	600	650	680	700	740	750	760	730	700	640	590	525	490	465	475	...
„ 22,..	480	490	510	545	560	570	570	575	580	590	620	650	695	730	765	785	790	775	735	675	590	520	465	435	...
„ 23,...	415	420	450	485	540	580	590	590	580	575	580	600	650	690	750	780	805	825	805	750	680	570	480	420	...
„ 24,...	380	385	410	460	505	555	575	590	590	555	560	560	600	640	700	765	810	840	860	820	755	640	510	410	...
„ 25,...	340	315	330	375	435	510	580	620	625	600	565	535	530	565	625	710	790	855	880	890	830	730	590	455	...
„ 26,...	330	250	230	265	355	430	510	550	575	565	525	495	465	465	530	605	700	795	845	900	910	860	735	565	...
„ 27,...	425	315	260	265	315	420	525	620	685	685	635	560	490	475	485	540	655	765	860	910	950	925	840	705	...
„ 28,...	540	385	260	230	270	370	520	605	660	695	665	605	515	450	400	415	490	610	770	860	890	895	860	760	...
„ 29,...	625	475	320	220	220	300	440	580	640	700	690	625	555	450	385	345	390	480	625	765	830	865	865	810	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	556	499	446	419	411	430	473	514	553	586	607	615	614	608	603	612	632	661	692	706	703	689	656	609	579

* Interpolated.

TIDES FOR THE MONTH OF MARCH, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
March 1,..	715	570	430	310	245	285	380	535	630	695	745	710	640	530	440	360	325	385	475	610	730	760	790	770	...
„ 2,..	735	650	515	395	...	265	330	455	610	685	715	730	685	605	490	...	...	300	370	455	565	650	685	725	...
„ 3,...	705	675	560	475	385	320	345	435	560	680	710	755	745	685	620	525	440	360	340	375	450	550	595	625	...
„ 4,...	645	630	610	535	465	405	345	415	450	570	655	695	725	710	690	590	515	430	400	405	425	460	480	505	...
„ 5,...	565	620	645	635	595	545	515	535	575	615	680	750	795	845	850	800	715	640	560	495	455	450	440	475	...
„ 6,..	505	545	595	615	610	570	535	520	545	580	625	680	750	755	780	805	780	705	650	560	480	420	380	370	...
„ 7,..	390	420	480	540	575	580	590	555	560	560	605	625	660	730	740	800	795	795	740	650	555	450	385	345	...
„ 8,..	330	360	395	450	500	545	575	590	585	570	545	560	585	640	700	760	790	785	765	710	620	505	405	310	...
„ 9,...	265	270	290	360	430	480	520	540	560	530	515	470	465	510	590	675	750	790	785	765	700	595	490	380	...
„ 10,...	300	265	280	330	425	495	560	625	640	605	565	515	500	500	570	640	755	820	860	860	815	730	620	485	...
„ 11,...	385	305	290	310	400	490	555	590	635	615	570	500	455	420	435	505	605	730	780	810	780	760	655	550	...
„ 12,...	430	305	240	240	295	410	530	580	620	600	560	490	425	380	355	410	500	630	745	775	780	750	690	595	...
„ 13,...	475	360	265	230	280	370	505	580	615	630	595	530	450	390	330	330	420	520	665	745	755	760	710	640	...
„ 14,...	530	425	320	260	290	355	480	580	615	645	625	590	510	420	360	325	355	445	565	675	720	750	750	700	...
„ 15,...	610	495	400	345	335	390	480	590	650	700	730	695	620	520	445	390	395	440	545	660	710	770	795	760	...
„ 16,..	690	615	520	460	430	465	515	615	690	715	765	745	690	620	515	440	380	385	445	550	635	690	710	705	...
„ 17,..	655	595	510	455	390	400	445	550	645	700	705	690	655	610	515	440	370	335	360	425	525	590	610	635	...
„ 18,...	600	565	520	440	425	390	440	510	600	680	695	705	685	650	585	505	435	370	360	380	455	530	560	600	...
„ 19,...	605	570	555	515	475	460	500	550	630	705	735	745	780	760	690	655	580	535	505	470	480	510	545	600	...
„ 20,...	655	680	655	620	575	570	590	615	680	700	745	765	780	785	770	725	660	585	515	460	445	425	455	475	...
„ 21,...	525	550	560	570	565	560	550	570	590	635	700	710	740	740	740	710	675	620	520	450	410	365	390	400	...
„ 22,...	420	450	480	485	515	525	535	550	560	575	610	655	680	705	720	710	720	680	615	550	470	395	370	345	...
„ 23,...	345	390	415	575	530	560	620	595	560	550	565	610	680	715	720	770	750	760	695	625	560	450	390	305	...
„ 24,...	370	360	385	455	510	525	550	580	580	585	560	560	580	625	670	725	765	775	760	720	630	525	395	310	...
„ 25,..	260	265	285	405	475	550	535	610	590	530	510	475	485	500	570	645	730	790	790	775	725	620	500	370	...
„ 26,...	205	230	245	320	450	555	625	660	660	615	550	495	455	445	505	590	705	800	860	910	855	805	650	490	...
„ 27,...	380	290	305	345	470	570	660	735	780	745	...	...	...	465	440	500	600	725	815	870	900	865	770	620	...
„ 28,...	455	335	255	285	370	525	640	705	740	730	670	575	470	390	315	335	410	550	705	775	825	835	790	705	...
„ 29,...	555	435	320	270	325	450	610	715	770	820	765	695	530	430	350	290	335	420	530	685	755	835	840	790	...
„ 30,.	675	540	460	340	340	425	570	720	800	810	830	770	630	505	390	295	240	300	405	545	655	705	745	705	...
„ 31,...	665	570	460	395	325	375	470	640	745	810	840	795	740	640	520	390	285	260	300	420	540	610	680	735	...
Hourly Means, ...	507	462	427	418	433	465	519	582	628	651	656	643	620	588	562	555	559	570	594	618	626	617	589	549	560

TIDES FOR THE MONTH OF APRIL, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
April 1,...	710	680	575	525	495	475	535	620	740	810	865	920	895	830	710	580	480	415	400	405	475	520	615	685	...
„ 2,...	740	725	665	595	570	550	585	630	715	800	835	915	900	895	785	680	565	470	390	360	380	425	465	510	...
„ 3,...	565	605	630	600	580	570	545	580	620	710	770	815	840	840	805	760	675	560	485	405	365	365	380	400	...
„ 4,...	455	500	545	585	600	605	605	595	600	645	695	735	780	800	815	795	750	690	585	505	415	370	355	360	...
„ 5,...	390	430	490	545	580	610	615	625	605	620	630	665	695	745	745	765	750	730	670	580	480	395	325	300	...
„ 6,...	305	340	400	455	515	550	585	595	590	565	550	540	580	630	690	720	735	740	725	675	575	470	400	325	...
„ 7,...	300	320	375	460	525	585	625	650	630	600	570	540	550	575	640	690	760	765	780	735	675	585	480	385	...
„ 8,...	325	310	350	425	520	585	640	660	670	630	590	535	485	480	540	600	710	765	795	770	735	645	530	450	...
„ 9,...	355	320	320	380	485	590	655	685	680	655	595	520	475	445	460	525	620	730	775	780	755	705	620	505	...
„ 10,...	415	350	355	375	465	590	640	725	685	715	645	565	515	430	395	430	500	645	735	790	770	755	675	570	...
„ 11,...	435	365	330	355	420	580	660	710	745	705	690	565	515	415	350	405	465	610	680	715	705	730	685	620	...
„ 12,...	550	470	420	405	470	550	675	730	780	780	750	670	565	470	410	355	390	475	605	670	720	745	745	690	...
„ 13,...	610	530	445	405	450	520	660	775	780	800	755	715	615	510	410	350	295	375	475	605	665	685	695	660	...
„ 14,...	610	530	470	440	450	525	620	750	795	800	790	725	650	545	445	350	290	315	375	500	580	625	655	625	...
„ 15,...	605	540	505	460	445	505	585	690	765	790	790	760	710	615	505	405	310	295	325	405	495	555	595	595	...
„ 16,...	570	545	500	475	435	470	535	635	720	760	780	775	735	670	575	470	390	335	330	350	430	490	555	595	...
„ 17,...	620	600	570	530	515	530	585	640	725	770	790	790	775	720	640	545	450	370	335	310	340	405	455	495	...
„ 18,...	510	530	530	520	515	510	525	570	630	695	745	745	745	710	665	600	500	410	325	300	280	320	370	415	...
„ 19,...	465	490	505	515	525	535	540	565	605	655	710	725	740	745	740	690	630	530	455	380	345	330	355	400	...
„ 20,...	445	490	525	545	560	580	585	585	590	615	645	685	710	725	720	705	670	600	520	430	345	290	270	285	...
„ 21,...	335	400	450	490	515	540	550	545	545	530	545	575	610	655	675	690	680	655	600	520	425	345	265	255	...
„ 22,...	270	340	425	495	545	575	605	585	575	540	500	500	540	600	650	710	720	730	700	635	545	430	330	260	...
„ 23,...	240	280	370	480	565	610	635	620	595	540	495	430	430	465	530	625	695	735	730	700	640	525	420	310	...
„ 24,...	245	240	300	425	545	630	685	680	650	580	495	430	350	370	430	530	630	700	745	770	720	665	530	420	...
„ 25,...	300	245	310	380	545	660	730	780	745	690	570	460	370	305	315	385	510	640	700	760	760	715	625	525	...
„ 26,...	380	275	270	330	465	640	730	785	795	740	660	525	390	265	215	235	320	475	605	675	720	715	685	590	...
„ 27,...	485	380	300	320	410	555	725	795	825	810	750	635	485	340	215	170	190	300	450	565	640	695	680	655	...
„ 28,...	545	475	380	340	405	500	665	805	850	870	825	745	630	465	315	190	150	175	280	425	530	605	645	640	...
„ 29,...	610	530	465	395	400	475	595	740	840	870	865	810	740	600	440	295	190	165	195	285	405	490	555	585	...
„ 30,...	565	560	505	475	440	465	540	645	770	835	850	845	800	725	585	410	300	210	190	210	290	380	445	515	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	465	446	443	458	498	556	615	666	695	704	692	662	627	586	547	522	511	520	532	540	540	533	513	488	557

TIDES FOR THE MONTH OF MAY, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
May 1, ...	570	575	575	530	500	480	515	585	685	780	815	845	825	775	695	565	440	335	265	240	245	305	365	425	...
„ 2, ...	495	535	555	560	540	525	520	560	625	715	775	795	805	790	745	680	570	480	380	310	290	285	305	340	...
„ 3, ...	410	480	530	575	600	570	570	615	610	685	720	755	770	800	805	810	735	660	550	480	425	395	375	400	...
„ 4, ...	445	520	565	650	665	675	685	670	670	670	685	720	745	760	795	795	770	720	650	550	465	415	375	365	...
„ 5, ...	395	445	500	550	615	645	665	645	625	585	565	575	615	660	695	710	710	710	655	600	515	435	365	330	...
„ 6, ...	350	390	465	535	585	625	645	660	630	595	540	515	520	545	615	655	685	690	675	645	575	505	415	350	...
„ 7, ...	335	355	425	520	595	650	665	665	650	585	525	475	440	455	500	575	635	670	670	660	625	545	465	390	...
„ 8, ...	335	340	390	485	585	650	685	690	675	620	540	470	405	385	410	480	560	625	640	670	640	600	520	445	...
„ 9, ...	390	350	380	455	565	660	710	735	710	675	580	495	410	350	350	405	485	580	635	665	675	630	580	495	...
„ 10, ...	435	385	395	465	560	670	730	755	760	710	645	540	435	350	300	325	385	500	575	630	655	650	610	540	...
„ 11, ...	475	425	400	445	535	640	735	775	790	760	700	590	480	375	280	255	300	385	500	565	615	625	595	555	...
„ 12, ...	500	455	410	425	505	600	710	770	800	800	750	670	565	435	320	260	275	335	435	545	610	660	670	645	...
„ 13, ...	590	550	530	525	585	660	745	825	855	885	855	795	690	560	430	335	290	315	370	475	555	620	635	640	...
„ 14, ...	610	570	545	495	520	590	705	790	850	855	855	790	715	600	485	355	270	255	295	375	475	525	580	585	...
„ 15, ...	580	550	540	510	500	550	630	730	805	840	825	815	740	670	530	410	305	245	245	300	405	470	525	560	...
„ 16, ...	550	560	535	520	515	530	600	675	750	805	810	805	770	735	590	470	330	245	225	220	295	375	470	500	...
„ 17, ...	515	530	535	515	500	485	525	575	680	730	770	755	755	695	640	545	450	340	265	215	240	315	390	450	...
„ 18, ...	500	520	525	525	525	515	535	560	620	670	725	740	750	710	685	620	545	450	360	295	260	280	325	385	...
„ 19, ...	460	510	535	575	580	595	570	555	585	625	675	715	730	720	725	700	650	570	475	385	315	275	295	340	...
„ 20, ...	420	485	545	585	610	615	605	570	545	555	570	620	665	685	700	705	680	635	565	470	385	305	280	310	...
„ 21, ...	370	455	530	580	620	630	640	600	560	510	485	500	530	590	640	665	680	670	630	570	470	395	285	270	...
„ 22, ...	305	375	495	575	635	675	665	635	590	525	450	420	425	455	515	590	660	695	700	675	590	495	415	360	...
„ 23, ...	335	395	485	610	690	760	800	770	725	610	540	460	410	405	455	540	625	690	725	740	715	640	540	465	...
„ 24, ...	405	395	470	590	725	810	875	870	825	730	605	500	390	325	330	390	495	595	655	720	730	700	620	515	...
„ 25, ...	440	380	425	525	675	810	870	895	875	805	700	555	425	280	240	235	330	450	560	635	700	690	665	575	...
„ 26, ...	515	440	430	485	605	780	905	930	945	900	825	720	515	365	245	190	205	310	430	530	600	660	660	640	...
„ 27, ...	575	500	455	465	545	680	830	930	950	960	900	825	650	480	330	190	175	180	295	420	490	580	615	620	...
„ 28, ...	600	555	495	470	500	590	725	850	935	945	930	870	765	610	435	290	185	175	160	305	385	480	540	590	...
„ 29, ...	595	560	540	485	480	530	625	755	855	900	910	875	810	700	545	395	280	205	195	215	310	380	465	510	...
„ 30, ...	550	560	550	545	515	520	575	660	765	835	860	860	840	760	675	525	415	295	245	225	265	340	400	465	...
„ 31, ...	520	540	570	555	550	530	540	590	660	735	780	810	795	775	725	635	520	415	310	270	270	300	365	425	...
Hourly Means, ...	470	474	494	527	572	621	671	706	729	729	707	673	625	574	530	494	472	465	462	471	477	480	475	467	557

TIDES FOR THE MONTH OF JUNE, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
June 1,...	470	525	555	580	590	580	560	560	570	640	690	745	750	740	725	675	595	510	415	345	290	285	325	385	...
„ 2,...	450	520	545	575	595	600	595	570	550	570	605	655	685	700	700	675	645	580	505	435	360	325	330	365	...
„ 3,...	415	495	540	580	600	590	590	555	540	500	515	525	560	600	635	610	615	620	595	535	455	425	390	420	...
„ 4,...	460	510	585	640	690	730	740	720	680	640	610	600	610	635	670	705	725	715	695	645	595	535	495	485	...
„ 5,...	510	565	625	680	735	770	760	745	705	640	580	535	500	510	545	590	620	650	660	645	595	550	500	450	...
„ 6,...	460	490	570	650	715	755	770	760	720	660	570	495	425	420	455	510	565	610	625	630	610	570	515	480	...
„ 7,...	440	460	520	630	710	780	795	800	755	685	600	505	415	360	370	415	510	560	585	600	590	575	530	495	...
„ 8,...	465	455	490	580	685	760	805	795	785	715	640	530	410	325	285	310	365	465	530	570	595	570	540	500	...
„ 9,...	470	425	460	550	660	745	815	820	825	755	705	570	460	350	270	255	290	385	485	540	615	595	595	550	...
„ 10,...	520	505	490	565	645	750	830	870	875	870	800	705	560	420	315	290	285	360	455	520	595	630	635	605	...
„ 11,...	560	535	520	545	630	745	830	890	895	905	850	765	630	500	375	280	270	300	400	490	555	595	625	620	...
„ 12,...	600	565	555	555	610	690	810	875	920	940	915	835	735	595	445	330	285	275	340	435	530	580	625	620	...
„ 13,...	630	590	585	560	590	670	785	865	930	950	935	900	830	710	595	455	390	325	325	410	490	550	635	635	...
„ 14,...	640	655	625	615	575	625	700	795	865	915	915	890	855	770	670	545	420	355	315	335	400	510	565	625	...
„ 15,...	650	660	640	610	610	610	675	745	815	880	890	925	910	855	770	645	525	425	380	385	390	480	545	610	...
„ 16,...	665	685	680	670	660	635	660	695	760	815	855	875	890	860	830	735	630	545	445	425	410	440	495	560	...
„ 17,...	615	695	685	735	680	635	640	595	675	670	715	760	765	765	735	690	650	560	450	365	350	335	380	455	...
„ 18,...	540	610	635	680	685	650	620	580	550	555	570	630	665	690	695	695	675	620	530	455	355	335	340	400	...
„ 19,...	505	585	655	690	700	690	655	595	540	495	480	500	550	585	625	635	660	645	615	540	465	395	345	360	...
„ 20,...	450	540	660	725	755	760	735	675	600	505	435	400	410	450	525	575	610	640	630	620	550	475	395	350	...
„ 21,...	385	495	615	740	805	815	785	750	670	565	470	365	310	320	355	450	520	585	610	630	595	540	480	420	...
„ 22,...	385	450	550	700	810	860	870	845	780	680	535	420	295	255	250	320	410	495	575	620	630	600	550	480	...
„ 23,...	435	420	505	625	775	890	915	920	870	800	665	480	345	235	190	200	275	380	480	550	600	610	585	545	...
„ 24,...	475	440	450	550	700	800	930	920	925	875	790	630	460	300	185	130	165	250	370	470	545	565	580	565	...
„ 25,...	525	465	450	475	580	735	860	940	950	920	865	745	595	420	270	155	110	150	250	375	460	530	585	550	...
„ 26,...	530	485	460	425	495	580	750	845	915	935	850	825	690	520	375	225	-140	125	180	290	390	545	455	570	...
„ 27,...	510	550	515	475	475	545	665	755	865	890	895	870	795	660	495	355	235	185	180	260	365	415	490	540	...
„ 28,...	545	565	540	530	500	500	560	645	760	820	865	850	810	730	620	470	345	250	230	245	310	395	455	515	...
„ 29,...	535	555	560	545	525	505	510	565	640	740	780	795	790	735	680	560	450	350	290	275	295	365	430	500	...
„ 30,...	540	570	590	590	570	550	530	540	585	645	710	745	765	715	700	625	530	430	370	320	325	370	435	490	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	513	535	563	602	645	685	725	741	751	739	710	669	616	558	512	470	450	444	449	465	477	490	493	505	575

TIDES FOR THE MONTH OF JULY, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
July 1,...	545	575	605	610	600	590	565	540	540	560	600	650	680	675	665	635	590	515	450	390	355	365	415	465	...
" 2,...	540	580	620	635	640	625	600	555	520	500	510	550	585	605	615	605	590	545	495	440	395	370	385	440	...
" 3,...	500	575	625	645	660	655	630	580	530	485	460	465	500	545	560	565	570	545	525	490	455	420	415	455	...
" 4,...	500	580	640	680	705	710	700	650	595	525	460	420	420	440	485	530	545	540	530	525	500	465	435	425	...
" 5,...	460	525	610	695	740	750	725	700	630	560	455	400	350	350	385	435	495	530	540	535	520	490	450	445	...
" 6,...	450	515	595	690	755	780	785	760	700	630	530	435	360	330	340	370	455	490	530	545	550	530	510	490	...
" 7,...	475	520	575	680	760	810	825	815	780	700	610	490	370	305	270	320	395	480	545	575	580	560	560	535	...
" 8,...	520	515	555	655	740	835	890	875	865	800	685	560	430	320	260	270	310	395	500	555	590	600	575	550	...
" 9,...	535	505	535	615	705	830	895	935	920	880	805	670	510	375	280	265	280	375	455	535	585	625	620	600	...
" 10,...	570	515	520	565	675	810	900	940	925	920	860	790	625	485	375	285	270	340	415	530	580	635	645	650	...
" 11,...	615	580	535	540	620	720	840	920	955	935	900	820	705	550	415	295	250	260	330	425	505	580	620	615	...
" 12,...	595	555	515	475	525	615	740	850	895	920	885	840	750	630	475	355	270	245	270	365	465	540	600	625	...
" 13,...	610	585	540	525	520	570	660	760	855	905	900	900	845	755	615	485	370	320	310	365	460	550	625	690	...
" 14,...	695	685	625	600	585	595	660	720	805	875	900	925	905	865	770	620	520	430	385	415	465	560	675	755	...
" 15,...	775	785	750	700	685	670	685	730	780	830	865	900	935	885	865	760	655	550	495	450	485	540	580	725	...
" 16,...	680	720	725	690	695	615	580	560	610	640	695	730	740	750	730	695	635	565	455	420	365	430	500	580	...
" 17,...	675	715	745	735	715	660	605	545	525	540	570	610	650	675	675	665	660	620	550	475	430	415	465	555	...
" 18,...	645	715	745	765	750	720	675	585	520	470	470	485	530	575	590	630	630	635	605	555	490	460	455	530	...
" 19,...	610	715	770	815	830	825	775	695	610	505	435	420	425	445	495	540	575	620	625	620	580	520	480	485	...
" 20,...	545	655	740	820	855	865	845	785	690	575	460	365	335	330	380	440	500	565	610	630	625	580	530	505	...
" 21,...	500	585	685	795	880	920	920	880	810	695	545	395	305	270	265	310	410	500	560	615	630	610	575	525	...
" 22,...	515	535	615	720	835	925	955	950	915	820	670	515	365	260	220	225	295	410	490	565	600	625	610	570	...
" 23,...	515	500	520	625	730	870	950	975	960	905	795	625	455	310	205	195	220	325	420	505	565	595	620	590	...
" 24,...	555	500	480	530	630	765	890	945	950	930	860	740	580	405	285	200	190	240	340	450	525	580	595	605	...
" 25,...	570	525	480	475	540	660	780	905	935	930	895	825	700	535	385	275	220	240	300	400	490	560	615	610	...
" 26,...	600	565	520	475	500	570	690	810	885	905	895	850	785	650	510	380	290	260	300	390	475	560	600	640	...
" 27,...	625	610	560	525	505	520	610	710	805	860	870	850	805	725	600	480	370	310	320	370	465	545	600	645	...
" 28,...	665	655	620	575	530	510	535	605	705	785	815	810	790	735	650	530	440	380	345	370	425	510	575	610	...
" 29,...	645	650	635	610	570	530	500	540	595	670	730	745	735	705	675	590	515	435	385	380	415	475	550	605	...
" 30,...	625	660	665	660	605	560	530	510	545	575	630	650	660	660	630	600	550	485	435	400	425	470	535	600	...
" 31,...	645	665	680	670	645	610	560	520	510	515	545	580	590	590	585	570	560	515	490	450	450	470	520	585	...
Hourly Means, ...	581	599	614	639	669	700	726	737	738	721	687	645	594	540	492	456	440	441	452	475	498	524	546	571	587

TIDES FOR THE MONTH OF AUGUST, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Aug. 1,...	630	670	690	700	690	665	610	575	515	485	485	505	530	540	540	560	555	555	540	500	485	475	510	570	...
„ 2,...	625	705	710	735	730	720	690	635	570	510	465	455	450	460	505	510	530	560	555	565	535	510	505	540	...
„ 3,...	610	675	730	765	770	765	745	695	630	545	470	405	385	410	430	490	520	565	575	570	550	535	525	545	...
„ 4,...	590	670	725	785	805	795	800	745	690	600	495	395	345	330	365	410	465	515	540	550	560	545	535	535	...
„ 5,...	555	595	680	750	815	825	830	805	755	665	550	435	340	285	285	335	400	480	530	570	575	550	550	545	...
„ 6,...	530	535	605	685	775	835	850	840	795	715	615	480	350	260	230	285	310	405	490	540	570	550	550	520	...
„ 7,...	505	490	525	590	700	805	865	860	835	765	685	545	410	265	185	175	220	325	435	505	550	525	515	470	...
„ 8,...	465	455	430	500	580	710	810	860	840	805	725	620	485	315	205	135	150	220	365	470	545	590	575	520	...
„ 9,...	490	460	435	445	535	645	780	845	880	865	825	740	620	460	315	235	195	240	370	475	565	620	645	615	...
„ 10,...	570	505	470	445	485	575	690	810	880	900	865	840	730	590	440	305	255	260	325	430	530	580	635	640	...
„ 11,...	595	525	450	395	370	440	550	690	785	795	800	780	720	620	490	350	250	210	260	340	450	535	585	620	...
„ 12,...	610	560	505	435	375	375	425	535	645	710	740	740	705	675	580	460	340	280	240	320	415	535	610	665	...
„ 13,...	660	665	590	535	440	405	395	460	535	640	680	700	700	685	645	560	460	380	320	345	410	520	615	665	...
„ 14,...	700	695	680	625	570	470	440	420	460	520	570	610	650	650	625	605	540	480	415	395	405	485	585	660	...
„ 15,...	715	720	725	700	645	585	510	435	420	425	470	505	550	565	590	585	575	540	495	470	450	490	545	645	...
„ 16,...	710	745	765	770	720	685	595	525	450	410	390	410	440	470	530	570	600	580	575	525	530	535	570	615	...
„ 17,...	690	745	785	825	830	820	755	655	560	485	400	380	360	410	455	505	560	585	620	610	595	575	550	545	...
„ 18,...	620	680	770	820	840	855	810	740	630	515	395	305	260	265	305	380	450	505	540	555	555	535	520	495	...
„ 19,...	515	570	655	770	820	855	825	790	720	620	480	350	275	210	220	270	370	455	520	570	580	580	535	495	...
„ 20,	460	500	580	675	810	855	860	830	775	685	570	440	310	210	170	190	270	385	475	530	570	570	530	495	...
„ 21,...	455	420	450	565	680	805	865	850	840	765	665	535	390	260	185	180	240	345	445	515	580	585	580	535	...
„ 22,...	490	445	425	485	595	720	835	880	870	835	760	655	500	370	245	205	225	315	420	510	575	615	600	580	...
„ 23,...	520	460	420	415	495	605	740	830	850	860	800	730	605	460	335	245	225	280	385	500	565	620	625	615	...
„ 24,...	570	510	450	400	430	510	620	745	820	825	815	760	685	560	425	315	270	290	365	490	570	615	650	635	...
„ 25,...	615	555	490	425	390	445	530	* 645	760	790	785	765	700	620	495	400	315	315	360	460	560	620	660	660	...
„ 26,...	640	595	520	465	415	410	480	570	680	725	750	730	705	655	565	480	395	365	385	445	560	615	665	680	...
„ 27,...	670	645	590	525	465	425	440	485	570	640	685	685	675	645	600	520	465	410	410	455	535	630	670	675	...
„ 28,...	690	665	645	590	520	460	430	440	480	560	610	630	625	610	580	535	480	445	425	460	510	585	650	675	...
„ 29,...	670	670	650	630	570	515	455	430	435	470	515	545	565	565	555	540	520	490	480	475	520	565	645	675	...
„ 30,...	685	675	680	660	630	585	535	480	450	440	440	460	500	510	530	525	535	520	515	505	520	560	620	665	...
„ 31,...	695	710	710	695	685	655	595	545	475	420	395	405	430	455	490	505	530	530	535	540	540	555	580	625	...
Hourly Means, ...	598	597	598	607	619	639	657	666	665	645	610	566	515	464	423	397	394	414	449	490	531	561	585	594	554

* Interpolated.

TIDES FOR THE MONTH OF SEPTEMBER, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Sept. 1,...	675	720	725	745	735	710	675	600	530	450	390	370	360	385	425	485	510	530	545	565	565	565	575	585	...
„ 2,...	640	680	735	755	780	770	745	685	605	515	420	350	310	325	365	415	480	530	560	575	580	570	570	555	...
„ 3,..	585	635	700	765	795	815	805	765	690	585	470	365	290	270	285	360	450	520	565	585	585	565	550	535	...
„ 4,...	520	560	625	710	790	825	830	820	760	675	550	420	320	255	250	290	390	485	560	610	615	605	555	525	...
„ 5,...	490	495	540	635	730	825	860	875	840	775	670	515	385	280	245	270	345	470	565	630	670	655	615	550	...
„ 6,...	520	485	490	555	665	770	855	890	905	860	775	635	490	350	250	245	300	430	560	640	695	690	670	600	...
„ 7,...	550	485	440	475	540	665	785	855	895	890	840	740	590	450	310	245	280	360	525	640	700	735	710	665	...
„ 8,...	565	500	420	385	450	530	675	800	840	880	845	805	685	540	400	290	285	340	475	620	685	740	755	725	...
„ 9, ..	670	540	460	380	385	440	560	695	770	830	870	850	790	670	540	440	380	410	490	625	750	805	845	835	...
„ 10,...	805	700	580	490	420	440	490	595	695	760	825	830	820	745	635	550	465	440	490	595	720	795	840	870	...
„ 11,...	850	790	690	590	500	420	440	480	560	645	700	755	765	750	685	605	560	510	520	580	665	760	835	850	...
„ 12,...	875	830	770	680	585	490	440	435	450	500	570	610	660	675	670	640	600	570	555	575	630	720	800	845	...
„ 13,...	855	855	830	780	695	595	520	460	430	430	455	505	530	585	610	630	630	625	620	615	630	685	730	800	...
„ 14,..	820	850	860	845	800	715	620	530	440	410	400	410	450	480	540	585	615	635	640	640	630	635	675	720	...
„ 15,...	780	805	830	830	820	785	720	615	515	425	360	330	340	380	425	485	540	590	615	625	620	590	580	600	...
„ 16,...	660	725	775	810	820	805	775	705	600	495	395	325	295	300	355	410	495	565	600	640	635	600	575	545	...
„ 17,...	565	620	695	780	830	845	840	800	715	590	470	375	305	290	315	385	480	560	635	650	665	640	600	565	...
„ 18,...	520	555	630	710	810	855	890	885	820	730	585	460	365	305	305	350	455	550	630	685	705	675	625	550	...
„ 19,...	505	485	530	610	725	820	865	895	860	795	690	540	425	340	300	320	405	525	620	665	715	690	650	570	...
„ 20,...	495	440	420	480	575	720	815	850	860	805	745	625	490	385	295	310	350	475	590	660	705	710	670	615	...
„ 21,...	520	440	390	410	480	590	730	790	825	830	780	695	580	460	375	345	380	465	590	680	725	760	740	685	...
„ 22,...	585	480	420	380	440	530	650	750	795	830	795	735	645	535	455	395	400	465	570	690	735	790	770	735	...
„ 23,...	665	550	470	405	400	460	565	685	755	780	795	755	695	600	510	450	420	480	570	690	765	795	805	765	...
„ 24,...	715	620	540	460	425	450	520	625	710	770	790	775	745	665	595	550	530	560	625	715	790	840	860	870	...
„ 25,...	815	740	640	560	515	490	530	585	660	710	750	790	775	735	670	605	575	595	645	710	795	830	865	870	...
„ 26,...	860	800	720	625	555	500	500	520	570	625	670	720	730	715	670	625	610	595	650	700	775	830	870	880	...
„ 27,...	875	845	785	695	600	540	505	510	530	575	600	640	675	690	685	655	635	660	680	745	795	855	885	930	...
„ 28,...	940	945	910	860	775	735	675	670	655	680	685	740	735	770	775	800	795	805	790	810	830	875	895	930	...
„ 29,...	925	910	900	880	805	730	640	620	575	550	515	545	550	605	635	690	710	740	775	775	805	825	845	890	...
„ 30,...	915	945	955	960	935	875	800	720	655	625	590	565	565	590	620	675	700	735	735	745	745	760	750	795	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	692	668	649	642	646	658	677	690	694	667	633	592	545	504	473	470	492	541	600	656	698	720	724	715	627

TIDES FOR THE MONTH OF OCTOBER, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Oct. 1,...	805	840	865	890	900	880	830	760	680	595	535	490	490	510	550	610	675	720	765	760	745	740	715	740	...
„ 2,...	760	795	830	885	925	935	910	845	770	660	560	510	485	475	525	580	660	735	785	805	790	740	690	675	...
„ 3,...	690	710	770	820	880	930	950	935	865	725	620	510	445	450	460	555	615	700	760	780	800	730	650	615	...
„ 4,...	570	570	630	715	800	860	905	900	865	765	645	520	410	350	350	405	530	630	715	755	770	725	650	550	...
„ 5,...	470	430	460	525	650	765	825	855	860	805	710	570	440	330	300	350	450	605	710	760	780	755	685	565	...
„ 6,...	450	385	350	390	500	635	750	790	825	810	760	655	505	395	295	305	385	535	705	765	810	795	755	655	...
„ 7,...	510	405	310	300	365	490	645	730	770	810	780	720	610	480	390	325	385	485	655	780	815	840	800	735	...
„ 8,...	630	465	355	260	250	330	460	610	670	720	725	700	620	520	440	360	360	430	530	...	...	...	...	...	...
„ 9,...	...	...	...	...	...	...	...	...	...	...	...	...	630	585	495	440	415	440	525	630	755	805	830	835	...
„ 10,...	795	695	555	430	325	260	275	310	415	490	575	585	595	570	535	490	465	465	520	590	695	770	795	820	...
„ 11,...	820	770	690	565	450	355	320	315	330	390	455	530	590	625	615	585	560	580	600	655	730	795	835	860	...
„ 12,...	895	890	855	755	630	530	450	395	390	380	410	450	510	575	595	605	600	605	600	615	660	705	750	785	...
„ 13,...	810	805	805	770	700	630	515	425	355	320	310	345	390	450	505	535	575	595	615	615	605	610	640	700	...
„ 14,...	730	760	770	760	740	685	610	525	450	360	320	300	315	375	435	510	565	605	625	635	615	600	590	595	...
„ 15,...	640	695	735	755	765	750	705	635	520	440	355	315	300	325	405	495	565	625	660	665	640	610	580	555	...
„ 16,...	575	620	675	730	770	785	785	735	660	550	460	390	355	355	400	495	560	640	710	730	720	675	610	565	...
„ 17,...	525	545	610	675	755	790	830	790	750	655	530	445	365	350	365	445	555	620	680	725	710	665	590	520	...
„ 18,...	460	435	470	545	645	740	770	790	755	700	605	480	410	325	340	395	515	645	695	730	715	675	605	520	...
„ 19,...	435	365	360	430	525	650	720	745	745	700	635	530	435	355	330	385	475	620	700	730	755	705	665	560	...
„ 20,...	470	385	340	370	450	570	665	715	775	775	735	640	565	490	480	495	580	670	775	820	890	905	860	755	...
„ 21,...	630	520	460	470	505	580	670	770	835	875	845	765	660	585	575	580	635	710	780	850	910	945	920	825	...
„ 22,...	695	570	480	455	460	500	585	670	755	815	835	790	715	640	615	610	645	710	800	865	930	965	955	890	...
„ 23,...	785	640	540	470	455	485	540	615	685	750	785	770	725	655	610	600	625	695	760	850	895	925	950	920	...
„ 24,...	835	700	585	480	440	450	485	555	625	665	710	725	685	655	600	595	610	650	715	790	850	865	870	840	...
„ 25,...	800	705	595	485	400	355	370	420	495	550	590	630	620	615	585	575	565	590	645	720	790	830	825	805	...
„ 26,...	780	720	655	545	470	390	380	385	440	490	530	580	600	610	610	605	610	630	675	720	775	830	840	855	...
„ 27,...	840	800	740	660	565	495	455	425	440	465	500	545	590	620	640	635	655	665	700	735	780	815	840	840	...
„ 28,...	855	845	810	750	670	595	530	480	460	460	470	500	545	595	635	660	675	680	685	710	725	755	785	800	...
„ 29,...	815	805	800	770	715	640	565	500	440	400	400	410	455	495	545	590	635	650	660	650	645	645	660	705	...
„ 30,...	720	715	750	755	730	695	630	550	475	410	370	375	395	460	530	590	640	675	685	675	655	630	600	620	...
„ 31,...	645	690	735	760	765	760	720	650	560	470	395	360	365	415	510	590	660	710	720	710	670	620	570	540	...
Hourly Means, ...	681	643	620	606	607	617	628	627	622	600	571	538	510	491	492	516	563	623	682	727	754	756	737	708	622

TIDES FOR THE MONTH OF NOVEMBER, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Nov. 1,...	550	595	645	720	745	775	760	720	645	535	435	360	325	350	435	550	660	720	755	740	700	620	550	485	...
„ 2,...	435	465	510	600	695	735	760	755	710	620	505	400	335	315	390	505	650	755	800	800	760	690	565	480	...
„ 3,...	400	360	395	465	590	690	730	775	750	715	605	480	395	345	380	475	630	770	830	870	865	795	680	530	...
„ 4,...	425	340	310	380	475	610	695	755	805	775	705	585	495	430	410	495	615	775	870	920	945	900	815	675	...
„ 5,...	520	385	280	280	330	455	585	660	745	760	725	645	560	490	450	460	550	680	845	920	955	960	890	795	...
„ 6,...	625	470	330	235	240	295	445	540	620	705	710	690	625	550	505	475	525	615	760	905	940	975	960	895	...
„ 7,...	765	595	445	315	250	245	320	435	530	610	685	675	670	615	570	540	555	605	705	750	905	990	1000	1005	...
„ 8,...	875	755	580	455	350	305	315	365	455	515	575	655	660	660	610	595	595	620	680	770	865	930	955	970	...
„ 9,...	940	860	715	570	455	365	340	335	375	440	480	555	610	625	645	625	625	635	645	700	770	850	890	915	...
„ 10,...	905	895	815	715	575	465	395	350	340	350	400	420	520	605	600	650	645	650	630	635	665	725	775	830	...
„ 11,...	830	850	805	750	660	545	470	410	360	355	365	410	460	520	575	620	655	655	650	650	655	670	710	735	...
„ 12,...	765	785	800	805	765	690	585	510	445	415	410	430	455	505	580	650	690	720	715	690	675	655	650	665	...
„ 13,...	685	715	740	760	660	735	675	595	515	455	410	400	420	465	535	600	670	720	730	715	670	640	600	580	...
„ 14,...	595	620	675	720	745	750	725	675	585	415	460	425	430	465	535	610	680	730	765	760	715	650	595	545	...
„ 15,...	530	550	590	655	700	735	740	730	675	595	520	460	445	465	525	620	710	755	785	785	750	685	600	525	...
„ 16,...	455	450	475	545	620	675	715	720	680	630	545	485	430	435	495	575	705	775	810	825	795	735	630	540	...
„ 17,...	445	390	400	460	555	640	680	715	700	665	595	530	460	445	485	560	670	780	810	850	820	765	690	560	...
„ 18,...	465	365	335	370	445	560	625	675	695	665	625	555	510	475	490	560	665	790	860	880	885	855	775	660	...
„ 19,...	530	430	365	370	410	505	585	645	705	725	680	625	550	510	520	565	640	750	825	875	885	865	800	695	...
„ 20,...	545	425	320	275	305	355	485	550	605	650	620	600	540	500	480	505	580	670	785	855	870	860	810	735	...
„ 21,...	610	465	350	255	240	280	370	475	545	615	630	610	555	520	500	495	560	645	740	825	860	885	865	810	...
„ 22,...	685	550	425	330	290	285	335	410	495	580	630	635	605	565	540	565	605	665	665	805	* 860	915	905	900	...
„ 23,...	825	700	555	440	370	340	360	405	490	550	615	660	660	635	600	595	620	675	725	795	845	880	915	920	...
„ 24,...	875	775	645	515	415	365	350	375	430	490	540	595	620	620	605	580	585	595	640	700	770	820	840	830	...
„ 25,...	810	755	670	555	460	375	335	325	360	415	465	530	570	600	610	605	605	620	640	700	740	785	815	825	...
„ 26,...	850	815	775	675	585	495	440	405	395	410	450	510	570	615	645	650	650	650	645	660	695	730	755	780	...
„ 27,...	780	785	765	730	645	555	470	405	380	370	385	455	505	565	620	650	675	655	650	630	635	645	675	705	...
„ 28,...	720	745	730	735	690	630	550	475	415	370	370	390	445	520	590	645	695	690	670	640	595	580	575	600	...
„ 29,...	615	655	680	705	705	680	620	545	465	395	355	360	410	480	570	635	695	710	705	670	610	540	475	450	...
„ 30,...	465	505	565	610	635	650	620	575	505	415	350	300	315	385	510	615	705	760	770	730	655	560	485	450	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hourly Means, ...	651	602	557	533	523	526	536	544	547	544	528	514	505	509	534	576	637	695	737	768	778	772	742	703	607

* Interpolated.

TIDES FOR THE MONTH OF DECEMBER, 1888.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Mean.
Dec. 1, ...	425	445	490	545	635	715	775	750	685	595	520	485	475	520	590	700	785	905	965	940	860	735	600	480	...
" 2, ...	420	400	420	480	545	635	705	745	730	670	555	475	430	420	495	615	765	865	900	925	870	775	635	510	...
" 3, ...	355	265	240	275	380	500	580	645	670	655	600	530	460	415	450	540	670	815	900	925	900	855	745	590	...
" 4, ...	420	265	165	160	210	335	460	535	610	630	610	560	495	445	420	485	570	740	865	925	935	920	845	720	...
" 5, ...	535	365	200	125	120	185	310	425	515	580	595	585	535	490	460	465	545	655	795	885	940	965	945	865	...
" 6, ...	710	520	355	215	165	160	235	350	440	535	600	610	595	550	530	525	565	630	750	860	935	970	985	960	...
" 7, ..	865	700	530	370	275	230	230	290	375	460	555	610	625	605	575	550	580	625	705	785	865	905	965	965	...
" 8, ...	940	840	670	525	400	325	300	310	360	425	475	545	610	615	620	590	580	585	620	685	750	815	850	870	...
" 9, ...	860	825	740	610	485	375	310	285	295	355	420	465	515	560	585	585	590	580	560	590	630	690	750	775	...
" 10, ...	780	770	725	670	560	465	375	325	300	310	370	430	485	530	560	590	610	605	600	585	580	610	650	690	...
" 11, ...	710	720	725	700	645	565	480	425	390	385	395	445	500	560	625	670	705	700	685	655	635	625	640	645	...
" 12, ...	680	700	710	720	710	660	600	530	485	450	440	455	500	550	605	670	720	735	720	680	640	595	555	550	...
" 13, ...	565	600	625	650	670	650	625	555	505	450	415	420	465	535	605	670	700	715	705	670	630	565	515	450	...
" 14, ...	445	450	490	540	555	580	575	545	505	465	430	410	430	490	565	655	710	750	765	740	690	615	535	465	...
" 15, ...	420	415	435	495	540	580	605	610	585	530	490	465	460	510	575	665	755	780	805	805	770	690	585	490	...
" 16, ...	420	370	385	420	495	540	595	620	610	580	535	510	495	510	590	670	750	805	845	870	835	780	660	555	...
" 17, ...	425	355	350	370	425	500	560	630	650	650	600	560	535	550	615	685	765	825	885	925	940	870	775	635	...
" 18, ...	495	395	350	335	380	455	525	585	645	660	625	565	540	525	565	635	720	800	855	905	930	900	810	685	...
" 19, ...	530	395	300	305	310	370	470	535	600	645	635	605	565	550	575	605	705	800	855	910	950	935	890	775	...
" 20, ...	595	460	335	290	310	320	405	490	555	570	600	585	530	510	505	555	620	705	780	835	875	885	880	795	...
" 21, ...	670	520	400	300	275	270	340	410	485	550	595	590	580	535	520	540	580	670	740	815	860	910	905	845	...
" 22, ...	765	615	490	355	285	255	275	350	435	505	560	585	580	530	525	500	535	585	670	760	835	860	875	845	...
" 23, ...	790	685	540	425	305	265	260	295	400	460	535	585	600	590	555	540	550	595	645	745	805	845	880	885	...
" 24, ...	860	795	675	550	440	365	340	340	380	450	520	600	650	645	625	580	580	575	615	665	725	765	800	805	...
" 25, ...	800	770	700	595	490	390	325	300	320	385	460	520	560	575	580	575	550	535	520	545	585	645	685	695	...
" 26, ...	695	670	645	590	505	420	345	295	295	320	400	465	540	590	620	635	625	600	575	560	565	590	615	635	...
" 27, ...	665	685	695	675	630	540	465	390	365	375	400	465	540	610	670	695	685	670	625	590	570	550	550	555	...
" 28, ...	575	600	635	650	645	605	540	470	425	380	380	430	495	590	660	710	720	700	670	605	550	495	450	450	...
" 29, ...	435	480	520	555	595	610	595	540	495	445	420	440	485	585	675	745	805	830	805	750	660	570	470	410	...
" 30, ...	390	400	450	505	560	620	645	625	575	520	470	435	465	545	635	750	825	860	860	815	745	610	490	365	...
" 31, ...	275	260	280	365	445	515	565	600	595	565	500	450	430	465	555	680	820	875	905	895	830	730	570	435	...
Hourly Means, ...	597	540	493	463	451	452	465	477	493	502	507	512	522	539	572	615	667	713	748	769	771	751	713	658	583

Hongkong, Observatory, 20th February, 1890.

W. DOBERCK,
Director.